

FİLİBE RULMAN

MAKİNA İMALAT İTHALAT İHRACAT LTD.ŞTİ.

Dear customers,

Our company established in Bursa/Niltim; It has made it a target to supply many products to domestic and foreign users in the machinery sector. Since its establishment, it has been carrying out the import, export and distributorship of all kinds of products in the machinery sector, shows to our valuable customers. Muhsin Akarsu, the founder of the company, is an expert in the sector with his 30 years of experience and supports all kinds of needs of our customers with the fastest and clearest solution.

All products are world class and in this catalog have been approved by experts in the field. Our company attaches great importance to fast shipment, product quality and brand value. We believe that we can solve many of your problems such as design, assembly and long-lasting use in the application of the products in the catalog to the machines. We kept our product range wide, because we aim to solve every need and demand of our valued customers in the fastest, best quality and most reasonable prices.

We present our catalog to your service, we wish you good work with the hope of working together.

Best Regards

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index

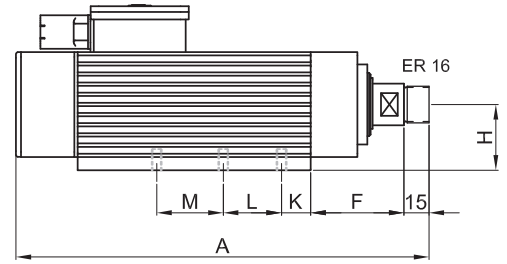
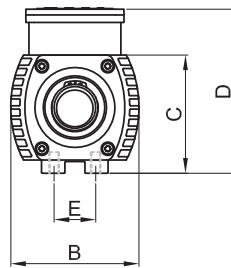
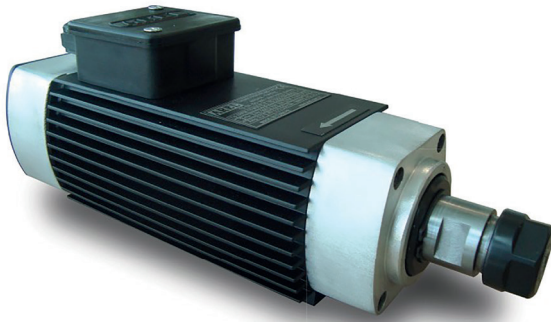
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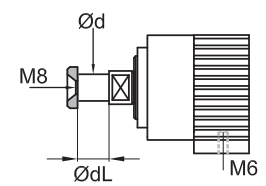
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SPINDLE MOTOR

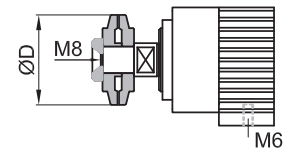
ARFM.1Y SPINDLES



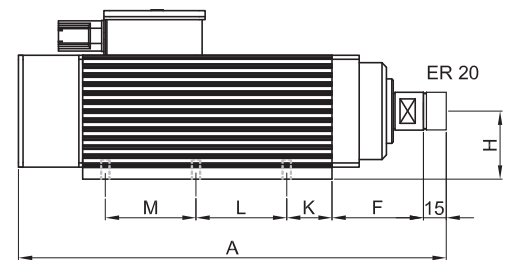
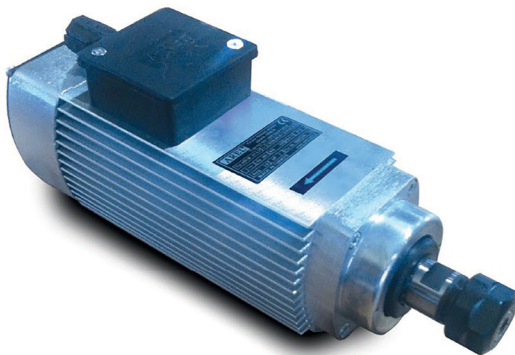
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ARFM.1Y-S	198	77	71	98	25	56	39,5	17,5	55	-	16	54	19
ARFM.1Y-M	248	77	71	98	25	56	39,5	17,5	55	35	16	54	55



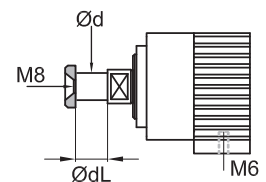
TYPE	KW / HP	Rpm	Hz.	Volt	Amper	Kg.	COLLETS
ARFM.1Y-S2	0,18 / 0,25	12.000	200	220V - 3~	0,8	2,10	ER 11 1 - 7 mm
ARFM.1Y-S3	0,25 / 0,34	18.000	300	220V - 3~	1,1	2,10	
ARFM.1Y-M2	0,37 / 0,5	12.000	200	220V - 3~	1,6	3,10	
ARFM.1Y-M3	0,55 / 0,75	18.000	300	220V - 3~	2,2	2,10	ER 16 1 - 10 mm
ARFM.1Y-M4	0,75 / 1	24.000	400	220V - 3~	2,6	2,10	



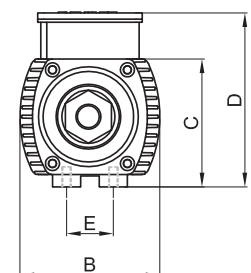
ARFM.2Y SPINDLES



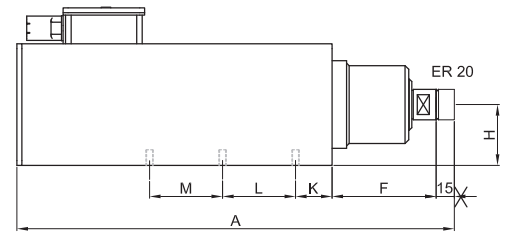
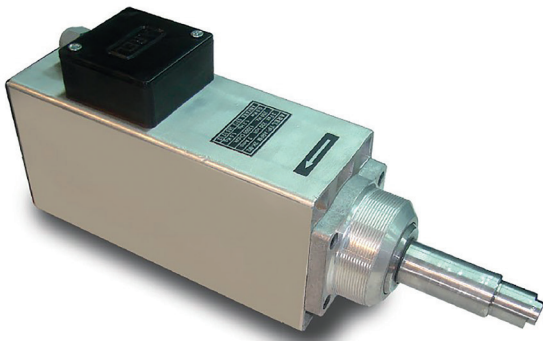
TYPE	A mm	B mm	C mm	D mm	E mm	F mm	H mm	K mm	L mm	M mm	Ød mm	ØdL mm
ARFM.2Y-S	236	89,6	82	112	30	60,5	45	30	60	-	20	25
ARFM.2Y-M	286	89,6	82	112	30	60,5	45	30	60	-	20	25
ARFM.2Y-L	336	89,6	82	112	30	60,5	45	30	60	60	20	25



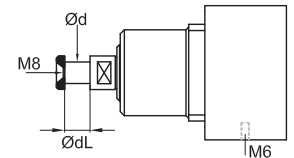
TYPE	KW / HP	Rpm	Hz.	Volt	Amper	Kg.	COLLETS
ARFM.2Y-S2	0,5 / 0,68	12.000	200	220V - 3~	1,8	3,80	ER 16 1 - 10 mm
ARFM.2Y-S3	0,75 / 1	18.000	300	220V - 3~	2,6	3,80	
ARFM.2Y-M2	0,9 / 1,2	12.000	200	220V - 3~	3	4,95	
ARFM.2Y-M3	1,4 / 1,9	18.000	300	220V - 3~	4,6	4,95	ER 20 1 - 13 mm
ARFM.2Y-M4	0,18 / 0,25	3.000	50	380V - 3~	0,35	4,95	
ARFM.2Y-L2	1,3 / 1,75	12.000	200	220V - 3~	4,25	6,35	
ARFM.2Y-L3	2 / 2,65	18.000	300	220V - 3~	6,7	6,35	
ARFM.2Y-L4	0,37 / 0,5	3.000	50	380V - 3~	0,8	6,35	



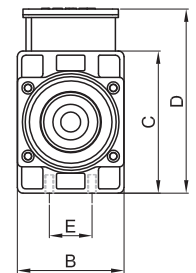
ARFM.2K SPINDLES



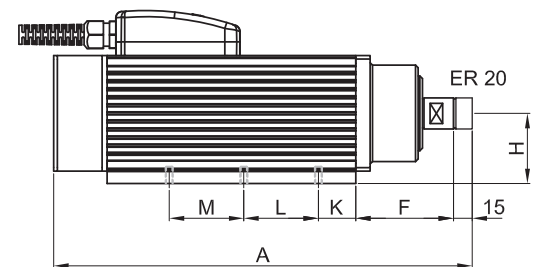
TYPE	A mm	B mm	C mm	D mm	E mm	F mm	H mm	K mm	L mm	M mm	Ød mm	ØdL mm
ARFM.2K-S	259,5	75	100	130	30	85,5	50	30	60	-	20	25
ARFM.2K-M	309,5	75	100	130	30	85,5	50	30	60	-	20	25
ARFM.2K-L	359,5	75	100	130	30	85,5	50	30	60	60	20	25



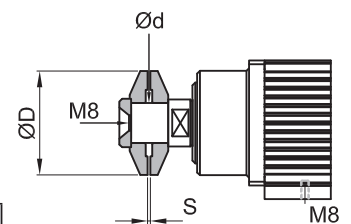
TYPE	KW / HP	Rpm	Hz.	Volt	Amper	Kg.	COLLETS
ARFM.2K-S2	0,5 / 0,68	12.000	200	220V - 3~	1,8	3,80	ER 16 1 - 10 mm
ARFM.2K-S3	0,75 / 1	18.000	300	220V - 3~	2,6	3,80	
ARFM.2K-M2	0,9 / 1,2	12.000	200	220V - 3~	1,6	5,50	
ARFM.2K-M3	1,4 / 1,9	18.000	300	220V - 3~	4,6	5,50	
ARFM.2K-M4	0,18 / 0,25	3.000	50	380V - 3~	0,35	5,50	ER 20 1 - 13 mm
ARFM.2K-L2	1,3 / 1,75	12.000	200	220V - 3~	4,25	7,20	
ARFM.2K-L3	2 / 2,65	18.000	300	220V - 3~	6,7	7,20	
ARFM.2K-L4	0,37 / 0,5	3.000	50	380V - 3~	0,8	7,20	



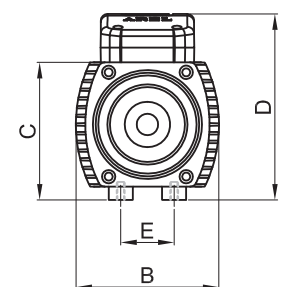
ARFM.3Y SPINDLES



TYPE	A mm	B mm	C mm	D mm	E mm	F mm	H mm	K mm	L mm	M mm	Ød mm	ØdL mm	S mm
ARFM.3Y-S	287	107	103	138	40	80	56,5	30	60	-	78	30	2
ARFM.3Y-M	337	107	103	138	40	80	56,5	30	60	60	78	30	2
ARFM.3Y-L	377	107	103	138	40	80	56,5	30	60	60	78	30	2

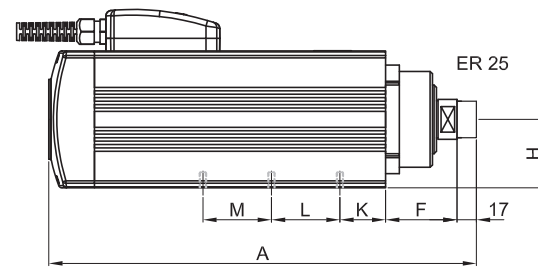


TYPE	KW / HP	Rpm	Hz.	Volt	Amper	Kg.	COLLETS
ARFM.3Y-S2	1,5 / 2	12.000	200	Δ 220-380 Y	5,3 / 3,1	6,85	ER 20 1 - 13 mm
ARFM.3Y-S3	2,2 / 3	18.000	300	Δ 220-380 Y	8 / 4,6	6,85	
ARFM.3Y-S4	0,37 / 0,5	3.000	50	Δ 220-380 Y	1,4 / 0,8	6,85	
ARFM.3Y-M2	2,2 / 3	12.000	200	Δ 220-380 Y	8 / 4,6	9	
ARFM.3Y-M3	3 / 4	18.000	300	Δ 220-380 Y	10,5 / 6	9	ER 25 1 - 16 mm
ARFM.3Y-M4	0,55 / 0,75	3.000	50	Δ 220-380 Y	1,1 / 1,9	9	
ARFM.3Y-L1	1,5 / 2	6.000	200	Δ 220-380 Y	5,3 / 3,1	10,85	
ARFM.3Y-L2	3 / 4	12.000	200	Δ 220-380 Y	10,4 / 6	10,85	
ARFM.3Y-L3	4 / 5,5	18.000	300	Δ 220-380 Y	14,2 / 8,2	10,85	
ARFM.3Y-L4	0,75 / 1	3.000	50	Δ 220-380 Y	2,6 / 1,6	10,85	





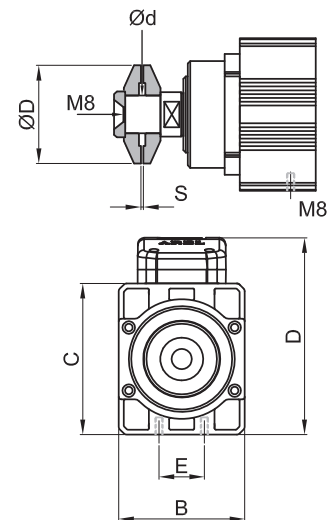
ARFM.3K SPINDLES



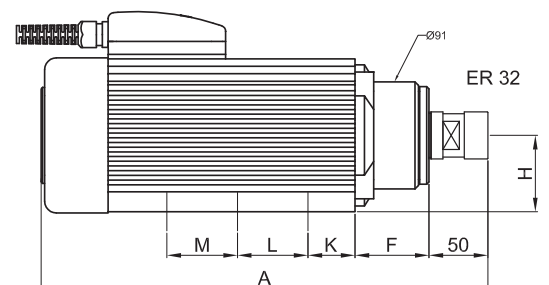
Possible to produce with electric fan or liquid cooled as optional.

TYPE	A mm	B mm	C mm	D mm	E mm	F mm	H mm	K mm	L mm	M mm	Ød mm	ØdL mm	S mm
ARFM.3K-S	285	100	120	156	36	62	60	40	60	-	78	30	2
ARFM.3K-M	335	100	120	156	36	62	60	40	60	60	78	30	2
ARFM.3K-L	375	100	120	156	36	62	60	40	60	60	78	30	2

TYPE	KW / HP	Rpm	Hz.	Volt	Amper	Kg.	COLLETS
ARFM.3K-S2	1,5 / 2	12.000	200	Δ 220-380 Y	5,3 / 3,1	8,75	ER 20 1 - 13 mm
ARFM.3K-S3	2,2 / 3	18.000	300	Δ 220-380 Y	8 / 4,6	8,75	
ARFM.3K-S4	0,37 / 0,5	3.000	50	Δ 220-380 Y	1,4 / 0,8	8,75	
ARFM.3K-M2	2,2 / 3	12.000	200	Δ 220-380 Y	8 / 4,6	11	
ARFM.3K-M3	3 / 4	18.000	300	Δ 220-380 Y	10,5 / 6	11	ER 25 1 - 16 mm
ARFM.3K-M4	0,55 / 0,75	3.000	50	Δ 220-380 Y	1,1 / 1,9	11	
ARFM.3K-L1	1,5 / 2	6.000	200	Δ 220-380 Y	5,3 / 3,1	12,8	
ARFM.3K-L2	3 / 4	12.000	200	Δ 220-380 Y	10,4 / 6	12,8	
ARFM.3K-L3	4 / 5,5	18.000	300	Δ 220-380 Y	14,2 / 8,2	12,8	
ARFM.3K-L4	0,75 / 1	3.000	50	Δ 220-380 Y	2,6 / 1,6	12,8	

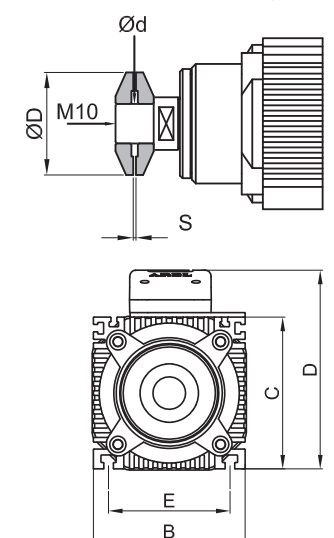


ARFM.4K SPINDLES

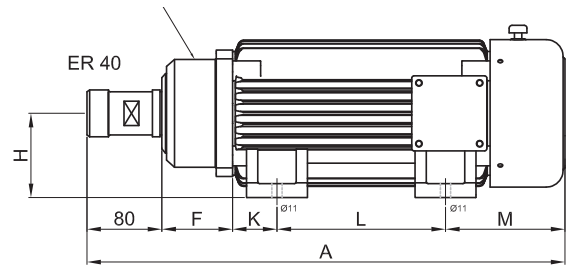


TYPE	A mm	B mm	C mm	D mm	E mm	F mm	H mm	K mm	L mm	M mm	Ød mm	ØdL mm	S mm
ARFM.4K-S	330	130	130	170	104	63	65	M6 T KANAL / T SLOT	78	30	2		
ARFM.4K-M	380	130	130	170	104	63	65	M6 T KANAL / T SLOT	78	30	2		
ARFM.4K-L	420	130	130	170	104	63	65	M6 T KANAL / T SLOT	78	30	2		

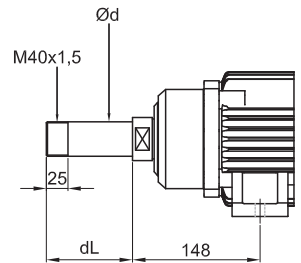
TYPE	KW / HP	Rpm	Hz.	Volt	Amper	Kg.	COLLETS
ARFM.4K-S1	2 / 2,65	6.000	200	Δ 220-380 Y	7 / 4	13,5	ER 20 1 - 13 mm
ARFM.4K-S2	3 / 4	12.000	200	Δ 220-380 Y	10,4 / 6	13,5	
ARFM.4K-S3	4 / 5,5	18.000	300	Δ 220-380 Y	14 / 8,2	13,5	
ARFM.4K-S4	1,1 / 1,5	3.000	50	Δ 220-380 Y	3,8 / 2,2	13,5	
ARFM.4K-M1	3 / 4	6.000	200	Δ 220-380 Y	10,4 / 6	17,5	ER 25 1 - 16 mm
ARFM.4K-M2	4 / 5,5	12.000	200	Δ 220-380 Y	14 / 8,2	17,5	
ARFM.4K-M3	5,5 / 7,5	18.000	300	Δ 220-380 Y	21 / 12	17,5	
ARFM.4K-M4	1,5 / 2	3.000	50	Δ 220-380 Y	6 / 3,5	17,5	
ARFM.4K-L1	4 / 5,5	6.000	200	Δ 220-380 Y	14 / 8,2	21,5	
ARFM.4K-L2	5,5 / 7,5	12.000	400	380 Δ	12	21,5	
ARFM.4K-L3	7,5 / 10	18.000	300	Δ 220-380 Y	26,5 / 15,5	21,5	
ARFM.4K-L4	2,2 / 3	3.000	50	Δ 220-380 Y	7,80 / 4,50	21,5	



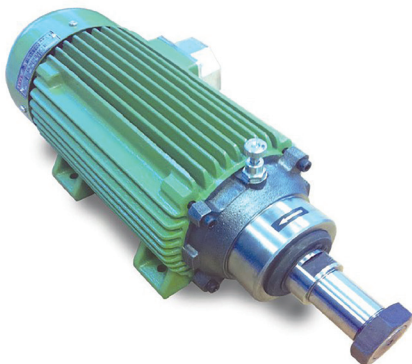
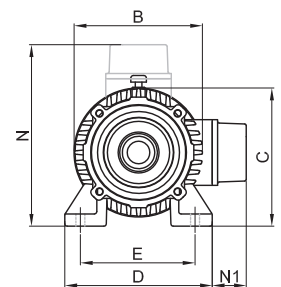
ARFM.5Y SPINDLES



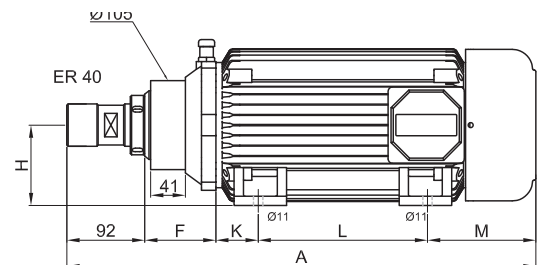
TYPE	A mm	B mm	C mm	D mm	E mm	F mm	H mm	K mm	L mm	M mm	N mm	N 1 mm	Ød mm	dL mm
ARFM.5Y-M	455	156	168	-	95	75	83,5	35	150	115	210	-	40	100
ARFM.5Y-L	510	156	168	176	140	75	90	47,4	180	127	-	47	40	100



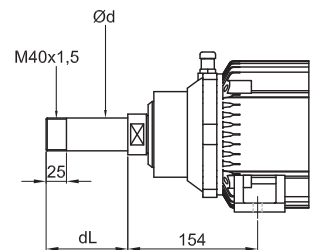
TYPE	KW / HP	Rpm	Hz.	Volt	Amper	Kg.	COLLETS
ARFM.5Y-M1	4 / 5,5	6.000	200	Δ 220-380 Y	14 / 8,2	29,5	ER 32 1 - 20 mm
ARFM.5Y-M2	6 / 8	12.000	400	380 Δ	13	29,5	
ARFM.5Y-M4	2,2 / 3	3.000	50	Δ 220-380 Y	7,8 / 4,5	29,5	ER 40 2 - 26 mm
ARFM.5Y-L1	6 / 8	6.000	200	Δ 220-380 Y	22,5 / 13	41	
ARFM.5Y-L2	9 / 12	12.000	400	380 Δ	17	41	
ARFM.5Y-L4	3,7 / 5	3.000	50	Δ 220-380 Y	12 / 7	41	



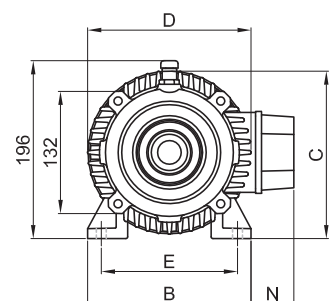
ARFM.6Y SPINDLES



TYPE	A mm	B mm	C mm	D mm	E mm	F mm	H mm	K mm	L mm	M mm	Ød mm	ØdL mm	S mm
ARFM.6Y-L	554	183	185	180	150	84	95	50	200	128	47	40	100

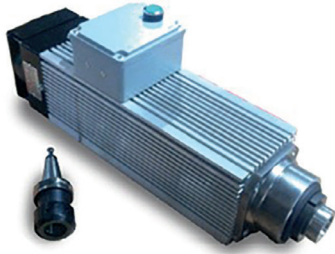


TYPE	KW / HP	Rpm	Hz.	Volt	Amper	Kg.	COLLETS
ARFM.6Y-L1	9 / 12	6.000	200	380 Δ	20	50	ER 32 1 - 20 mm
ARFM.6Y-L2	12,5 / 17	12.000	400	380 Δ	26	50	
ARFM.6Y-L4	6 / 8	3.000	50	Δ 220-380 Y	18 / 10,5	50	ER 40 2 - 26 mm
ARFM.6Y-L5	3,5 / 4,75	1.500	50	Δ 220-38 Y	10,7 7 6,2	50	

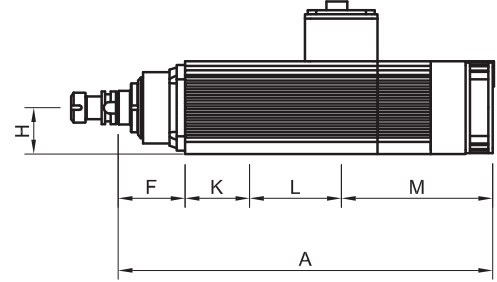
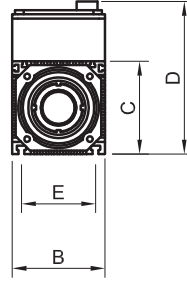


Possible to produce with electric fan or liquid cooled as optional.

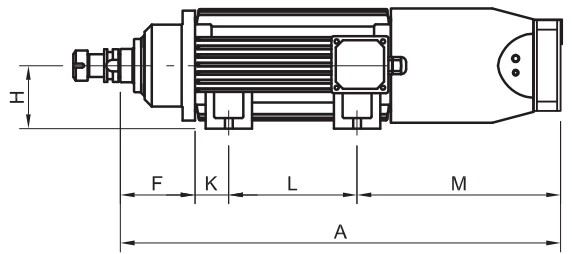
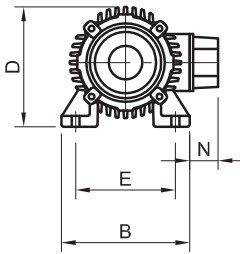
ARFM AUTOMATIC TOOL CHANGE SPINDLES (ATC)



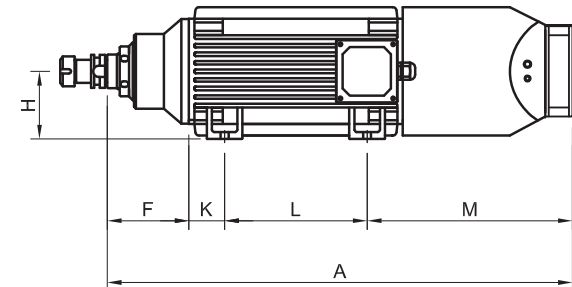
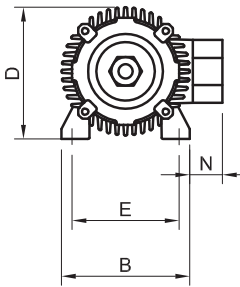
4T



5T



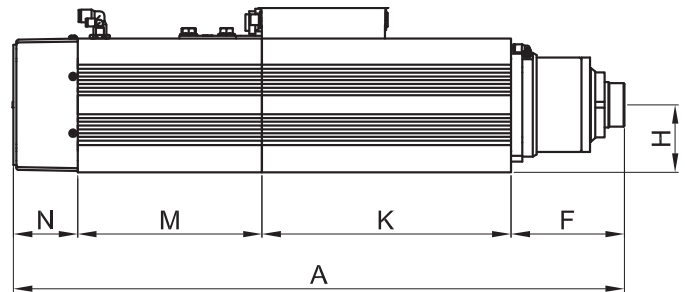
6T



TYPE	A mm	B mm	C mm	D mm	E mm	F mm	H mm	K mm	L mm	M mm	N mm
ARFM.4T-S	438,5	130	130	210	104	95	65	M6 KANAL / T SLOT			
ARFM.4T-M	488,5	130	130	210	104	95	65	M6 KANAL / T SLOT			
ARFM.4T-L	528,5	130	130	210	104	95	65	M6 KANAL / T SLOT			
ARFM.5T-L	618	176	-	168	140	105	88	47	180	286	40
ARFM.6T-L	655	183	-	185	150	115	95	50	200	290	46

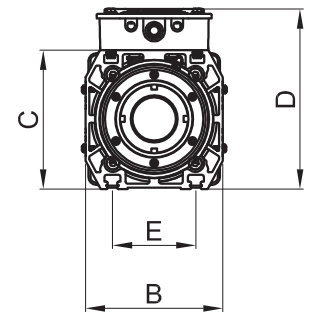
TYPE	KW / HP	Rpm	Hz.	Volt	Amper	Kg.	COLLETS
ARFM.4T-S2	3 / 4	12.000	200	Δ 220-380 Y	10,4 / 6	20,5	SK 30 ATC
ARFM.4T-S3	4 / 5,5	18.000	300	Δ 220-380 Y	14 / 8,2	20,5	
ARFM.4T-M2	4 / 5,5	12.000	200	Δ 220-380 Y	14 / 8,2	24,5	
ARFM.4T-M3	5,5 / 7,5	18.000	300	Δ 220-380 Y	21 / 12	24,5	
ARFM.4T-L2	5,5 / 7,5	12.000	400	380 Δ	12	27,5	
ARFM.4T-L3	7,5 / 10	18.000	300	Δ 220-380 Y	26,5 / 15,5	27,5	
ARFM.5T-L1	6 / 8	6.000	200	Δ 220-380 Y	22,5 / 13	44	SK 30 ATC BT 40 ATC
ARFM.5T-L2	9 / 12	12.000	400	380 Δ	17	44	
ARFM.6T-L1	9 / 12	6.000	200	380 Δ	20	54	
ARFM.6T-L2	12,5 / 17	12.000	400	380 Δ	26	54	

ARES AUTOMATIC TOOL CHANGE SPINDLES (ATC)



TYPE	A mm	B mm	C mm	D mm	E mm	F mm	H mm	K mm	M mm	N mm
ARES S(1)	556	140	141,5	184	85	120	71,5	M6 KANAL / T SLOT	195	68
ARES M(2)	606	140	141,5	184	85	120	71,5	M6 KANAL / T SLOT	195	68
ARES L(3)	646	140	141,5	184	85	120	71,5	M6 KANAL / T SLOT	195	68

TYPE	KW / HP	Rpm	Hz.	Volt	Amper	Kg.	COLLETS
ARES - 301	2,2 / 3	3.000	50	380 Y	4,5	30,8	SK 30 ATC
ARES - 311	4 / 5,5	6.000	200	380 Y	10	30,8	
ARES - 321	5,5 / 7,5	12.000	400	380 Δ	12	30,8	
ARES - 331	7,5 / 10	18.000	300	380 Y	15,5	30,8	
ARES - 341	9 / 12	24.000	400	380 Y	18,5	30,8	



Possible to produce with electric fan or liquid cooled as optional.

ARFM MANUEL SPINDLE WITH ELECTRIC FAN

All ARFM.3K and ARES series spindles can be produced with electric fan



ARFM.3K



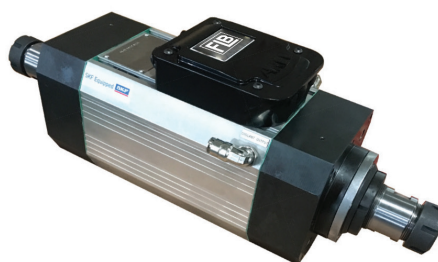
ARES

ARFM LIQUID COOLED SPINDLES

All ARFM.3K, ARES and ARFM.6Y series spindles can be produced with liquid cooled



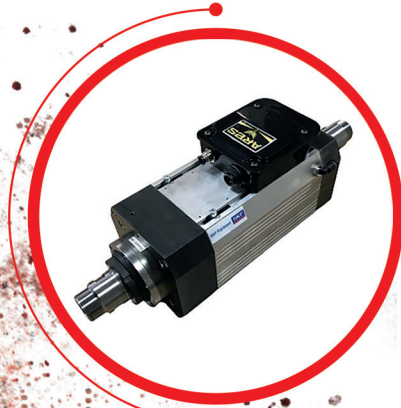
ARFM.3K



ARES



ARFM.6Y



SPINDLE MOTOR

FILIBE RULMAN

MAKİNA İMALAT İTHALAT İHRACAT LTD.ŞTİ.

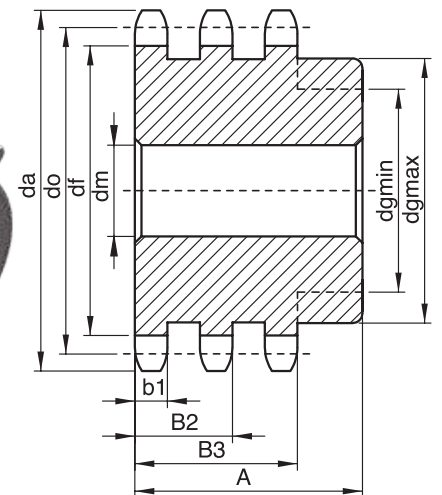
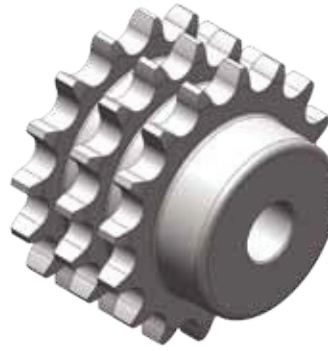
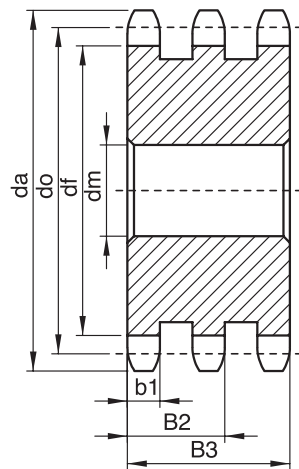
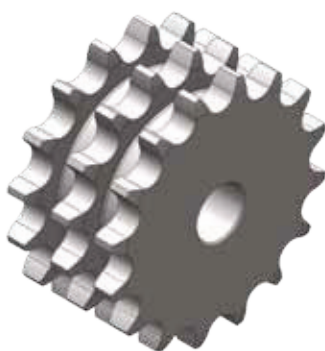
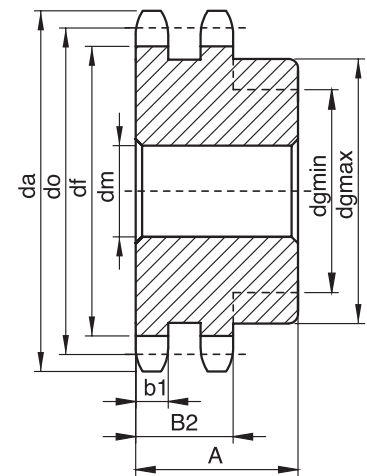
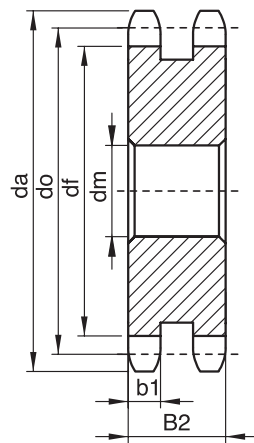
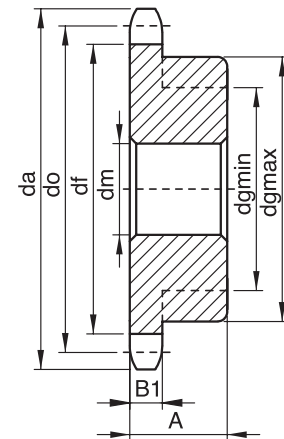
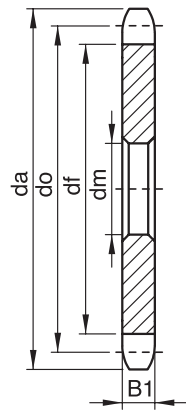
SPROCKETS

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No Teeth Z	Outside Diameter (da)	Pitch Diameter (do)	Caliper Diameter (df)	Plain Bore (dm)	Hub Diameter (d _{gmax})	Single Row		Double Row		Three Rows	
						A	Hub Diameter (d _{gmin})	A	Hub Diameter (d _{gmin})	A	Hub Diameter (d _{gmin})
8	28.0	24.89	18.54	-	13	20	12	22	12	32	12
9	31.0	27.85	21.50	-	16	20	15	22	15	32	15
10	34.0	30.82	24.47	8	19	20	18	22	18	32	18
11	37.0	33.81	27.46	10	22	25	21	25	21	35	21
12	40.0	36.80	30.45	10	25	25	23	25	23	35	23
13	43.0	39.80	33.45	10	28	25	27	25	26	35	26
14	46.3	42.80	36.45	10	31	25	30	25	30	35	30
15	49.3	45.81	39.46	10	34	25	30	25	30	35	30
16	52.3	48.82	42.47	12	37	25	32	30	32	35	32
17	55.3	51.84	45.49	12	40	25	35	30	35	35	35
18	58.3	54.85	48.50	12	43	25	38	30	38	35	38
19	61.3	57.87	51.52	12	46	25	40	30	41	35	41
20	64.3	60.89	54.54	12	49	25	40	30	44	35	44
21	68.0	63.91	57.56	12	52	25	43	30	47	40	47
22	71.0	66.93	60.58	12	55	25	43	30	50	40	50
23	73.5	69.95	63.60	12	58	25	47	30	53	40	53
24	77.0	72.97	66.62	12	61	25	49	30	56	40	56
25	80.0	76.00	69.65	12	64	25	52	30	59	40	59
26	83.0	79.02	72.67	14	67	25	55	30	62	40	62
27	86.0	82.05	75.70	14	70	25	55	30	65	40	65
28	89.0	85.07	78.72	14	73	25	55	30	68	40	68
29	92.0	88.10	81.75	14	76	25	55	30	71	40	71
30	94.7	91.12	84.77	14	79	25	55	30	74	40	74
31	98.3	94.15	87.80	14	82	25	60	30	75	40	75
32	101.3	97.18	90.83	14	85	25	60	30	75	40	75
33	104.3	100.20	93.85	14	88	25	60	30	75	40	75
34	107.3	103.23	96.88	14	91	25	60	30	75	40	75
35	110.4	106.26	99.91	14	94	25	60	30	75	40	75
36	113.4	109.29	102.94	14	97	25	65	30	85	40	85
37	116.4	112.32	105.97	16	100	25	65	30	85	40	85
38	119.5	115.34	108.99	16	103	25	65	30	85	40	85
39	122.5	118.37	112.02	16	106	25	65	30	85	40	85
40	125.5	121.40	115.05	16	109	25	65	30	85	40	85
41	128.5	124.43	118.08	16	112	25	73	35	85	45	85
42	131.6	127.46	121.11	16	115	25	73	35	85	45	85
43	134.6	130.49	124.14	16	118	25	73	35	85	45	85
44	137.6	133.52	127.17	16	122	25	73	35	85	45	85
45	140.7	136.55	130.20	16	125	25	73	35	85	45	85
46	143.7	139.58	133.23	16	128	25	73	35	85	45	85
47	146.7	142.61	136.26	16	131	25	73	35	85	45	85
48	149.7	145.64	139.29	18	134	32	75*	40	75*	55	75*
49	152.7	148.67	142.32	18	137	32	75*	40	75*	55	75*
50	155.7	151.69	145.34	18	140	32	75*	40	75*	55	75*
51	158.7	154.72	148.37	18	143	32	75*	40	75*	55	75*
52	161.8	157.75	151.40	18	146	32	75*	40	75*	55	75*
53	164.8	160.78	154.43	20	149	32	75*	40	75*	55	75*
54	167.8	163.82	157.47	20	152	32	75*	40	75*	55	75*
55	170.8	166.85	160.50	20	155	32	75*	40	75*	55	75*
56	173.8	169.88	163.53	20	158	32	75*	40	75*	55	75*
57	176.9	172.91	166.56	20	161	32	75*	40	75*	55	75*
58	179.9	175.94	169.59	20	164	32	75*	40	75*	55	75*
59	183.0	178.97	172.62	20	167	32	80*	40	80*	55	80*
60	186.0	182.00	175.65	20	170	32	80*	40	80*	55	80*
62	192.1	188.06	181.71	20	176	32	80*	40	80*	55	80*
64	198.2	194.12	187.77	20	182	32	80*	40	80*	55	80*
65	201.6	197.15	190.80	20	185	32	85*	40	85*	55	85*
66	204.6	200.18	193.83	20	188	32	85*	40	85*	55	85*
68	210.7	206.24	199.89	20	194	32	85*	40	85*	55	85*
70	216.7	212.30	205.95	20	200	32	85*	40	85*	55	85*
72	222.8	218.37	212.02	20	206	32	85*	40	85*	55	85*
75	231.9	227.46	221.11	20	215	32	85*	40	85*	55	85*
76	234.9	230.49	224.14	20	218	32	85*	40	85*	55	85*
78	241.0	236.55	230.20	20	225	32	85*	40	85*	55	85*
80	247.1	242.61	236.26	20	231	32	85*	40	85*	55	85*
85	262.2	257.77	251.42	20	246	32	85*	40	85*	55	85*
90	277.4	272.93	266.58	20	261	32	85*	40	85*	55	85*
95	292.5	288.08	281.73	20	276	32	85*	40	85*	55	85*
100	307.7	303.24	296.89	20	291	32	90*	40	90*	55	90*
110	338.0	333.55	327.20	20	322	32	90*	40	90*	55	90*
114	349.5	345.68	339.33	20	334	32	90*	40	90*	55	90*
120	368.3	363.87	357.52	20	352	32	90*	40	90*	55	90*
125	383.5	379.03	372.68	20	367	32	90*	40	90*	55	90*

TYPE A

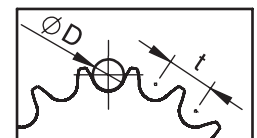
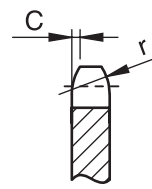
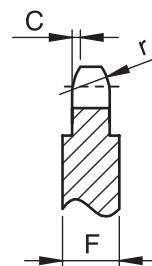
TYPE B



SPROCKETS	mm
r	10
C	1
B1	5.3
b1	5.2
B2	15.4
B3	25.6
06A Z>99 if F	7

CHAIN	mm
Pitch	9.525
Chain Spacing	5.72
Pulley Diameter Ø D	6.35

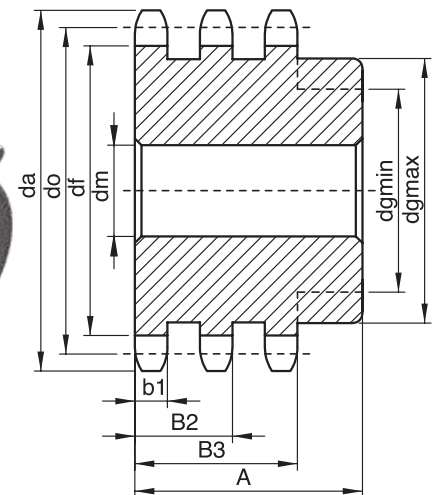
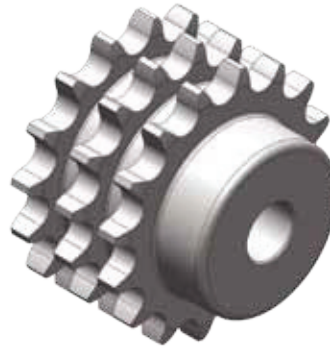
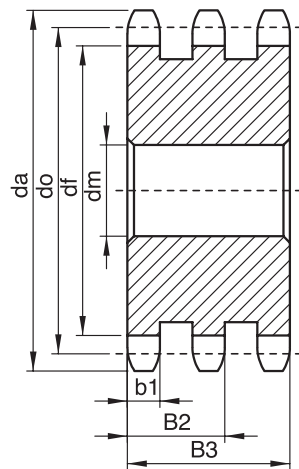
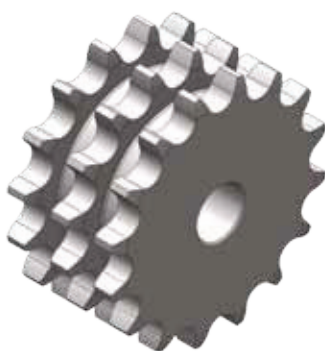
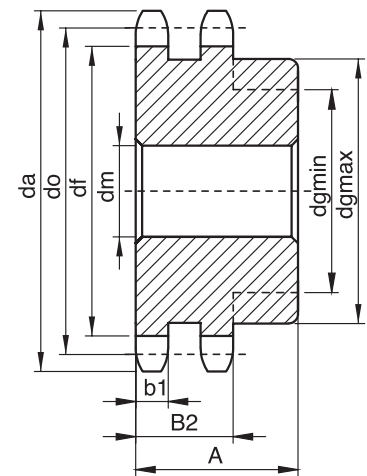
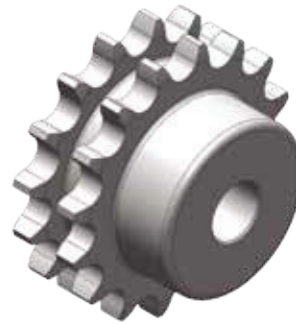
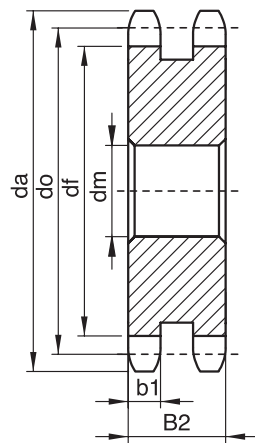
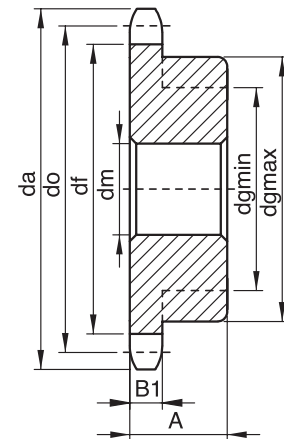
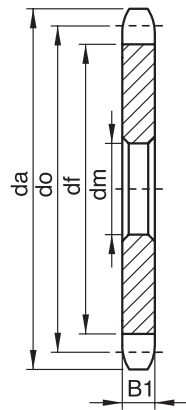
* Welded Hub



No Teeth Z	Outside Diameter (da)	Pitch Diameter (do)	Caliper Diameter (df)	Plain Bore (dm)	Hub Diameter (dgmax)	Single Row		Double Row		Three Rows	
						A	Hub Diameter (dgmin)	A	Hub Diameter (dgmin)	A	Hub Diameter (dgmin)
8	37.2	33.19	24.68	10	18	25	17	32	17	46	17
9	41.0	37.13	28.62	10	22	25	21	32	21	46	21
10	45.2	41.10	32.59	10	26	25	25	32	25	46	25
11	48.7	45.08	36.57	10	30	25	28	35	28	50	28
12	53.0	49.07	40.56	10	34	26	32	35	32	50	32
13	57.4	53.07	44.56	10	38	26	34	35	34	50	34
14	61.8	57.07	48.56	10	42	26	36	35	39	50	39
15	65.5	61.08	52.57	10	46	26	40	35	41	50	41
16	69.5	65.10	56.59	12	50	26	45	35	45	50	45
17	73.6	69.12	60.61	12	54	26	47	35	49	50	49
18	77.8	73.14	64.63	12	58	26	51	35	53	50	53
19	81.7	77.16	68.65	12	62	26	55	35	57	50	57
20	85.8	81.18	72.67	12	66	26	59	40	61	50	61
21	89.7	85.21	76.70	12	70	26	63	40	65	55	65
22	93.8	89.24	80.73	12	74	26	65	40	65	55	65
23	98.2	93.27	84.76	14	78	26	65	40	65	55	65
24	101.8	97.30	88.79	14	82	26	65	40	70	55	70
25	105.8	101.33	92.82	14	86	26	65	40	75	55	75
26	110.0	105.36	96.85	14	90	26	65	40	80	55	80
27	114.0	109.40	100.89	14	94	26	65	40	80	55	80
28	118.0	113.43	104.92	14	98	26	65	40	85	55	85
29	122.0	117.46	108.95	14	102	26	75	40	90	55	90
30	126.1	121.50	112.99	14	106	26	75	40	95	55	95
31	130.2	125.53	117.02	16	110	26	85	40	95	55	105
32	134.3	129.57	121.06	16	114	26	85	40	95	55	105
33	138.4	133.61	125.10	16	118	26	85	40	95	55	105
34	142.6	137.64	129.13	16	122	26	85	40	95	55	105
35	146.7	141.68	133.17	16	126	26	85	40	95	55	95
36	151.0	145.72	137.21	18	130	35	80*	50	80*	65	80*
37	154.6	149.75	141.24	18	134	35	80*	50	80*	65	80*
38	158.6	153.79	145.28	18	138	35	80*	50	80*	65	80*
39	162.7	157.83	149.32	18	143	35	80*	50	80*	65	80*
40	166.8	161.87	153.36	20	147	35	80*	50	80*	65	80*
41	171.4	165.91	157.40	20	151	35	80*	50	80*	65	80*
42	175.4	169.94	161.43	20	155	35	80*	50	80*	65	80*
43	179.7	173.98	165.47	20	159	35	80*	50	80*	65	80*
44	183.8	178.02	169.51	20	163	35	80*	50	80*	65	80*
45	188.0	182.06	173.55	20	167	35	80*	50	80*	65	80*
46	192.1	186.10	177.59	20	171	35	80*	50	80*	65	80*
47	196.2	190.14	181.63	20	175	35	80*	50	80*	65	80*
48	200.3	194.18	185.67	20	179	35	90*	50	90*	65	90*
49	204.3	198.22	189.71	20	183	35	90*	50	90*	65	90*
50	208.3	202.26	193.75	20	187	35	90*	50	90*	65	90*
51	212.1	206.30	197.79	20	191	35	90*	50	90*	65	90*
52	216.1	210.34	201.83	20	195	35	90*	50	90*	65	90*
53	220.2	214.38	205.87	20	199	35	90*	50	90*	65	90*
54	224.1	218.42	209.91	20	203	35	90*	50	90*	65	90*
55	228.1	222.46	213.95	20	207	35	90*	50	90*	65	90*
56	232.2	226.50	217.99	20	211	35	90*	50	90*	65	90*
57	236.4	230.54	222.03	20	215	35	90*	50	90*	65	90*
58	240.5	234.58	226.07	20	219	35	90*	50	90*	65	90*
59	244.5	238.62	230.11	20	223	35	90*	50	90*	65	90*
60	248.6	242.66	234.15	20	227	35	90*	50	90*	65	90*
62	256.9	250.74	242.23	20	235	35	90*	50	90*	65	90*
64	265.1	258.83	250.32	20	244	35	90*	50	90*	65	90*
65	269.0	262.87	254.36	20	248	35	90*	50	90*	65	90*
66	273.0	266.91	258.40	20	252	35	90*	50	90*	65	90*
68	281.0	274.99	266.48	20	260	35	90*	50	90*	65	90*
70	289.0	283.07	274.56	20	268	35	90*	50	90*	65	90*
72	297.2	291.15	282.64	20	276	35	90*	50	90*	65	90*
75	309.2	303.28	294.77	20	288	35	95*	50	95*	65	95*
76	313.2	307.32	298.81	20	292	35	95*	55	95*	65	95*
78	321.4	315.40	306.89	20	300	35	95*	55	95*	65	95*
80	329.4	323.49	314.98	20	308	35	95*	55	95*	65	95*
85	349.0	343.69	335.18	20	328	35	95*	55	95*	65	95*
90	369.9	363.90	355.39	20	349	35	95*	55	95*	65	95*
95	390.1	384.11	375.60	20	369	35	95*	55	95*	65	95*
100	410.3	404.32	395.81	25	389	35	105*	55	105*	65	105*
110	450.7	444.74	436.23	25	429	35	105*	55	105*	65	105*
114	466.9	460.91	452.40	25	446	35	105*	55	105*	65	105*
120	491.2	485.16	476.65	25	470	35	105*	55	105*	65	105*
125	511.3	505.37	496.86	25	490	35	105*	55	105*	65	105*

TYPE A

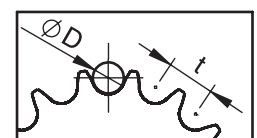
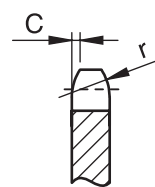
TYPE B



SPROCKETS	mm
r	13
C	1.3
B1	7.2
b1	7
B2	21
B3	34.9

CHAIN	mm
Pitch	12.7
Chain Spacing	7.75
Pulley Diameter Ø D	8.51

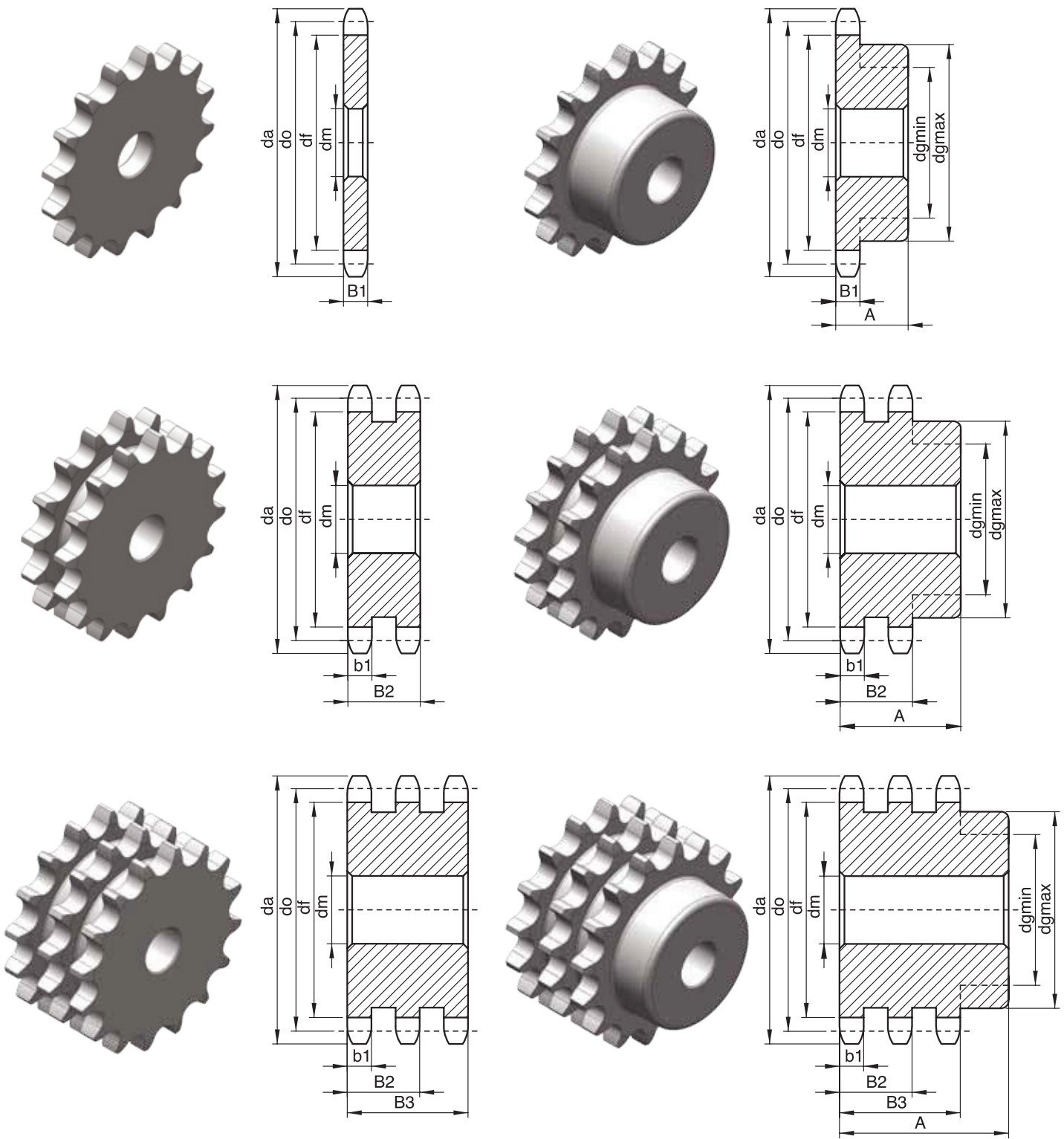
* Welded Hub



No Teeth Z	Outside Diameter (da)	Pitch Diameter (do)	Caliper Diameter (df)	Plain Bore (dm)	Hub Diameter (dgmax)	Single Row		Double Row		Three Rows	
						A	Hub Diameter (dgmin)	A	Hub Diameter (dgmin)	A	Hub Diameter (dgmin)
8	47.0	41.48	31.32	10	23	25	22	40	22	55	22
9	52.6	46.42	36.26	10	28	25	27	40	27	55	27
10	57.5	51.37	41.21	10	33	25	32	40	32	55	32
11	63.0	56.35	46.19	12	38	28	35	40	37	55	37
12	68.0	61.34	51.18	12	43	28	38	40	40	55	40
13	73.0	66.33	56.17	12	48	28	42	40	44	55	44
14	78.0	71.34	61.18	14	53	28	47	40	49	55	49
15	83.0	76.35	66.19	14	58	28	52	40	54	55	54
16	88.0	81.37	71.21	14	63	28	55	45	59	60	59
17	93.0	86.39	76.23	14	68	28	55	45	64	60	64
18	98.3	91.42	81.26	16	73	28	65	45	69	60	69
19	103.3	96.45	86.29	16	78	28	65	45	74	60	74
20	108.4	101.48	91.32	16	83	28	70	45	79	60	79
21	113.4	106.51	96.35	16	88	28	70	45	80	60	80
22	118.0	111.55	101.39	16	93	28	75	45	85	60	85
23	123.5	116.59	106.43	18	98	28	75	45	90	60	90
24	128.3	121.62	111.46	18	103	28	75	45	95	60	95
25	134.0	126.66	116.50	18	108	28	75	45	100	60	100
26	139.0	131.70	121.54	18	113	28	80	45	105	60	105
27	144.0	136.74	126.58	18	118	28	80	45	105	60	105
28	148.7	141.79	131.63	18	123	28	80	45	110	60	110
29	153.8	146.83	136.67	20	128	38	80*	50	80*	70	80*
30	158.8	151.87	141.71	20	133	38	80*	50	80*	70	80*
31	163.9	156.92	146.76	20	138	38	80*	50	80*	70	80*
32	168.9	161.96	151.80	20	143	38	80*	50	80*	70	80*
33	174.5	167.01	156.85	20	148	38	80*	50	80*	70	80*
34	179.0	172.05	161.89	20	153	38	80*	50	80*	70	80*
35	184.1	177.10	166.94	20	158	38	80*	50	80*	70	80*
36	189.1	182.15	171.99	20	163	38	80*	50	80*	70	80*
37	194.2	187.19	177.03	20	168	38	80*	50	80*	70	80*
38	199.2	192.24	182.08	20	174	38	80*	50	80*	70	80*
39	204.2	197.29	187.13	20	179	38	90*	50	90*	70	90*
40	209.3	202.33	192.17	20	184	38	90*	50	90*	70	90*
41	214.8	207.38	197.22	20	189	38	90*	50	90*	70	90*
42	219.9	212.43	202.27	20	194	38	90*	50	90*	70	90*
43	224.9	217.48	207.32	20	199	38	90*	50	90*	70	90*
44	230.0	222.53	212.37	20	204	38	90*	50	90*	70	90*
45	235.0	227.58	217.42	20	209	38	90*	50	90*	70	90*
46	240.1	232.63	222.47	20	214	38	90*	50	90*	70	90*
47	245.1	237.68	227.52	20	219	38	90*	50	90*	70	90*
48	250.2	242.73	232.57	20	224	38	90*	50	90*	70	90*
49	255.2	247.78	237.62	20	229	38	105*	50	105*	70	105*
50	260.3	252.82	242.66	20	234	38	105*	50	105*	70	105*
51	265.3	257.87	247.71	20	239	38	105*	50	105*	70	105*
52	270.4	262.92	252.76	20	244	40	105*	50	105*	70	105*
53	275.4	267.97	257.81	20	249	40	105*	50	105*	70	105*
54	280.5	273.03	262.87	20	254	40	105*	50	105*	70	105*
55	285.5	278.08	267.92	20	259	40	105*	50	105*	70	105*
56	290.6	283.13	272.97	20	264	40	105*	50	105*	70	105*
57	296.0	288.18	278.02	20	269	40	105*	50	105*	70	105*
58	300.7	293.23	283.07	25	274	40	105*	50	105*	70	105*
59	305.7	298.28	288.12	25	280	40	105*	55	105*	70	105*
60	310.8	303.33	293.17	25	285	40	105*	55	105*	70	105*
62	321.4	313.43	303.27	25	295	40	105*	55	105*	70	105*
64	331.5	323.53	313.37	25	305	40	105*	55	105*	70	105*
65	336.5	328.58	318.42	25	310	40	105*	55	105*	70	105*
66	341.6	333.64	323.48	25	315	45	105*	55	105*	70	105*
68	351.7	343.74	333.58	25	325	45	105*	55	105*	70	105*
70	361.8	353.84	343.68	25	335	45	115*	55	115*	70	115*
72	371.9	363.94	353.78	25	345	45	115*	55	115*	70	115*
75	387.1	379.10	368.94	25	360	45	115*	55	115*	70	115*
76	392.1	384.15	373.99	25	365	45	115*	55	115*	70	115*
78	402.2	394.25	384.09	25	376	45	115*	55	115*	70	115*
80	412.3	404.36	394.20	25	386	45	115*	55	115*	70	115*
85	437.6	429.62	419.46	25	411	45	115*	55	115*	70	115*
90	462.8	454.88	444.72	25	436	45	125*	55	125*	70	125*
95	488.5	480.14	469.98	25	461	45	125*	55	125*	70	125*
100	513.4	505.40	495.24	30	487	45	125*	55	125*	70	125*
110	563.9	555.92	545.76	30	537	45	125*	55	125*	70	125*
114	584.1	576.13	565.97	30	557	45	125*	55	125*	70	125*
120	614.4	606.45	596.29	30	588	45	125*	55	125*	70	125*
125	639.7	631.71	621.55	30	613	45	125*	55	125*	70	125*

TYPE A

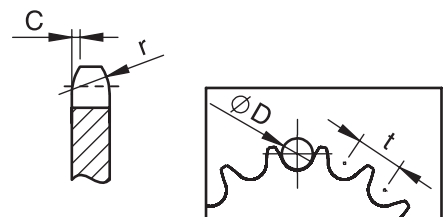
TYPE B



SPROCKETS	mm
r	16
C	1.6
B1	9.1
b1	9
B2	25.5
B3	42.1

CHAIN	mm
Pitch	15.875
Chain Spacing	9.65
Pulley Diameter $\varnothing D$	10.16

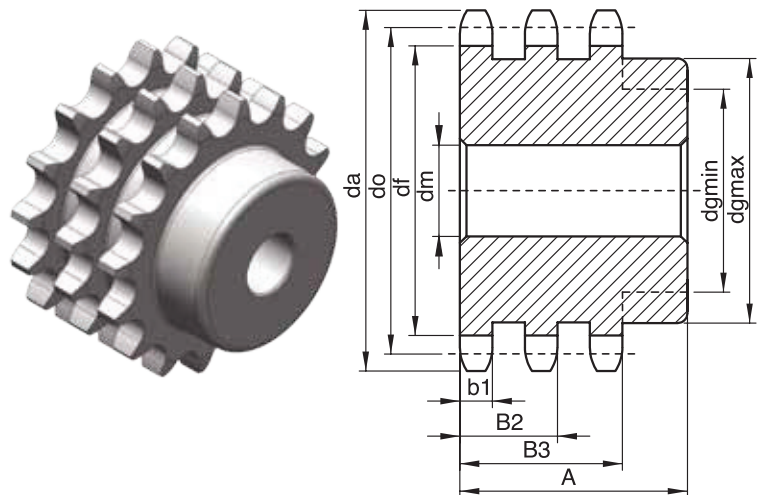
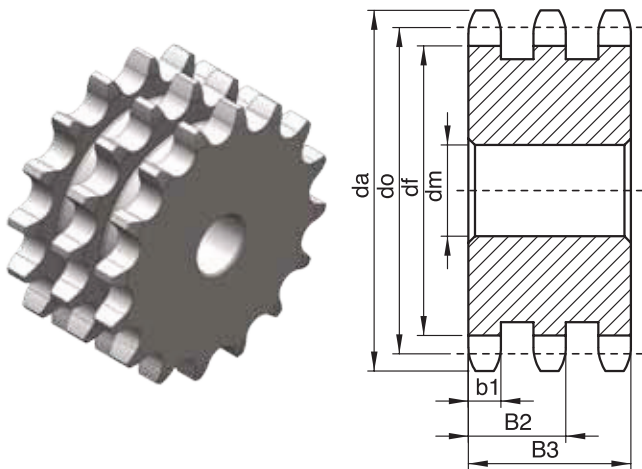
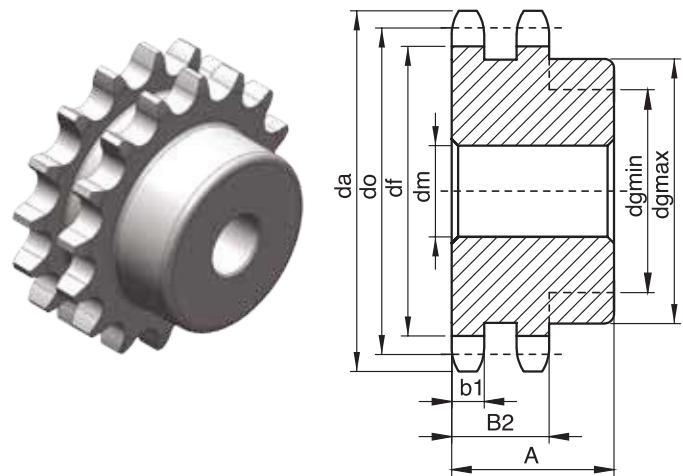
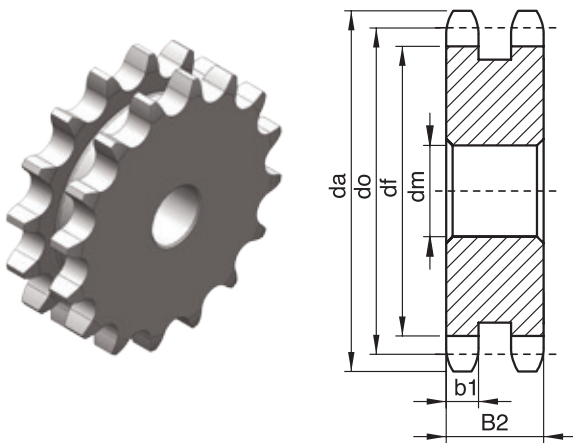
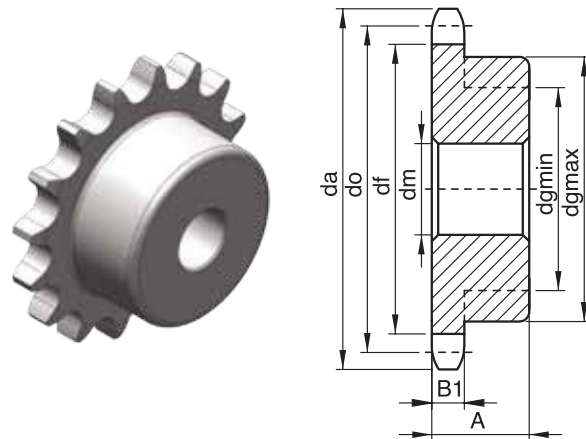
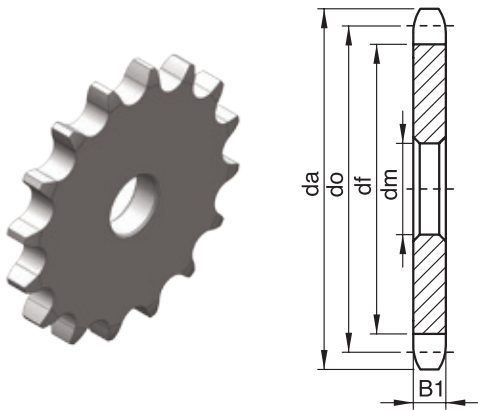
* Welded Hub



No Teeth Z	Outside Diameter (da)	Pitch Diameter (do)	Caliper Diameter (df)	Plain Bore (dm)	Hub Diameter (d _{gmax})	Single Row		Double Row		Three Rows	
						A	Hub Diameter (d _{gmin})	A	Hub Diameter (d _{gmin})	A	Hub Diameter (d _{gmin})
8	57.6	49.78	37.71	14	29	30	28	45	28	65	28
9	62.0	55.70	43.63	14	35	30	34	45	34	65	34
10	69.0	61.65	49.58	14	41	30	40	45	40	65	40
11	75.0	67.62	55.55	14	47	30	41	50	42	70	42
12	81.5	73.60	61.53	14	53	30	47	50	48	70	48
13	87.5	79.60	67.53	14	59	30	53	50	54	70	54
14	93.6	85.61	73.54	14	65	30	59	50	60	70	60
15	99.8	91.63	79.56	14	71	30	65	50	66	70	66
16	105.5	97.65	85.58	18	77	30	70	50	72	70	72
17	111.5	103.67	91.60	18	83	30	75	50	78	70	78
18	118.0	109.70	97.63	18	89	30	75	50	84	70	84
19	124.2	115.74	103.67	18	95	30	75	50	90	70	90
20	129.7	121.78	109.71	18	101	30	75	50	95	70	95
21	136.0	127.82	115.75	20	107	30	85	50	95	70	95
22	141.0	133.86	121.79	20	113	30	85	50	95	70	95
23	149.0	139.90	127.83	20	119	30	85	50	105	70	105
24	153.9	145.95	133.88	20	125	40	80*	60	80*	80	80*
25	160.0	151.99	139.92	20	131	40	80*	60	80*	80	80*
26	165.9	158.04	145.97	20	137	40	80*	60	80*	80	80*
27	172.3	164.09	152.02	20	143	40	80*	60	80*	80	80*
28	178.0	170.14	158.07	20	150	40	80*	60	80*	80	80*
29	184.1	176.19	164.12	20	156	40	80*	60	80*	80	80*
30	190.5	182.25	170.18	20	162	40	80*	60	80*	80	80*
31	196.3	188.30	176.23	20	168	40	80*	60	80*	80	80*
32	203.3	194.35	182.28	20	174	40	90*	60	90*	80	90*
33	209.3	200.41	188.34	20	180	40	90*	60	90*	80	90*
34	214.6	206.46	194.39	20	186	40	90*	60	90*	80	90*
35	221.0	212.52	200.45	20	192	40	90*	60	90*	80	90*
36	226.8	218.57	206.50	20	198	40	90*	60	90*	80	90*
37	232.9	224.63	212.56	20	204	40	90*	60	90*	80	90*
38	239.0	230.69	218.62	20	210	40	90*	60	90*	80	90*
39	245.1	236.74	224.67	20	216	40	90*	60	90*	80	90*
40	251.3	242.80	230.73	20	222	40	90*	60	90*	80	90*
41	257.3	248.86	236.79	20	228	40	90*	60	90*	80	90*
42	264.5	254.92	242.85	20	234	40	90*	60	90*	80	90*
43	270.5	260.98	248.91	20	240	40	90*	60	90*	80	90*
44	276.5	267.03	254.96	20	246	40	90*	60	90*	80	90*
45	282.5	273.09	261.02	20	252	40	90*	60	90*	80	90*
46	287.9	279.15	267.08	20	259	40	90*	60	90*	80	90*
47	294.0	285.21	273.14	20	265	40	90*	60	90*	80	90*
48	300.1	291.27	279.20	25	271	45	90*	60	90*	80	90*
49	306.2	297.33	285.26	25	277	45	105*	60	105*	80	105*
50	312.3	303.39	291.32	25	283	45	105*	60	105*	80	105*
51	318.4	309.45	297.38	25	289	45	105*	60	105*	80	105*
52	324.5	315.51	303.44	25	295	45	105*	60	105*	80	105*
53	330.5	321.57	309.50	25	301	45	105*	60	105*	80	105*
54	336.6	327.63	315.56	25	307	45	105*	60	105*	80	105*
55	342.7	333.69	321.62	25	313	45	105*	60	105*	80	105*
56	348.7	339.75	327.68	25	319	45	105*	60	105*	80	105*
57	355.4	345.81	333.74	25	325	45	115*	60	115*	80	115*
58	361.5	351.87	339.80	25	331	45	115*	60	115*	80	115*
59	367.5	357.93	345.86	25	337	45	115*	60	115*	80	115*
60	373.0	363.99	351.92	25	343	45	115*	60	115*	80	115*
62	385.1	376.12	364.05	25	355	45	115*	60	115*	80	115*
64	397.2	388.24	376.17	25	368	45	115*	60	115*	80	115*
65	403.2	394.30	382.23	25	374	45	125*	60	125*	80	125*
66	409.3	400.36	388.29	25	380	45	125*	60	125*	80	125*
68	421.4	412.49	400.42	25	392	45	125*	60	125*	80	125*
70	433.6	424.61	412.54	25	404	45	125*	60	125*	80	125*
72	447.0	436.73	424.66	25	416	45	125*	60	125*	80	125*
75	463.9	454.92	442.85	25	434	45	125*	60	125*	80	125*
76	469.9	460.98	448.91	25	440	45	125*	60	125*	80	125*
78	482.1	473.10	461.03	25	452	45	125*	60	125*	80	125*
80	494.2	485.23	473.16	25	465	45	125*	60	125*	80	125*
85	524.5	515.54	503.47	30	495	45	135*	60	135*	80	135*
90	554.8	545.85	533.78	30	525	45	135*	60	135*	80	135*
95	585.1	576.17	564.10	30	556	45	135*	60	135*	80	135*
100	615.4	606.48	594.41	30	586	50	135*	60	135*	80	135*
110	676.1	667.11	655.04	30	646	50	135*	60	135*	80	135*
114	700.6	691.36	679.29	30	671	50	135*	60	135*	80	135*
120	736.7	727.74	715.67	30	707	50	135*	60	135*	80	135*
125	767.0	758.06	745.99	30	737	50	135*	60	135*	80	135*

TYPE A

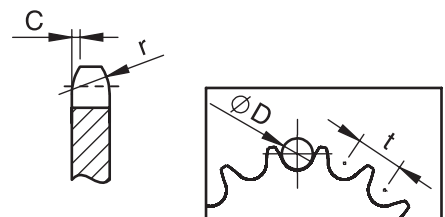
TYPE B



SPROCKETS	mm
r	19
C	2
B1	11.1
b1	10.8
B2	30.3
B3	49.8

CHAIN	mm
Pitch	19.05
Chain Spacing	11.68
Pulley Diameter $\varnothing D$	12.07

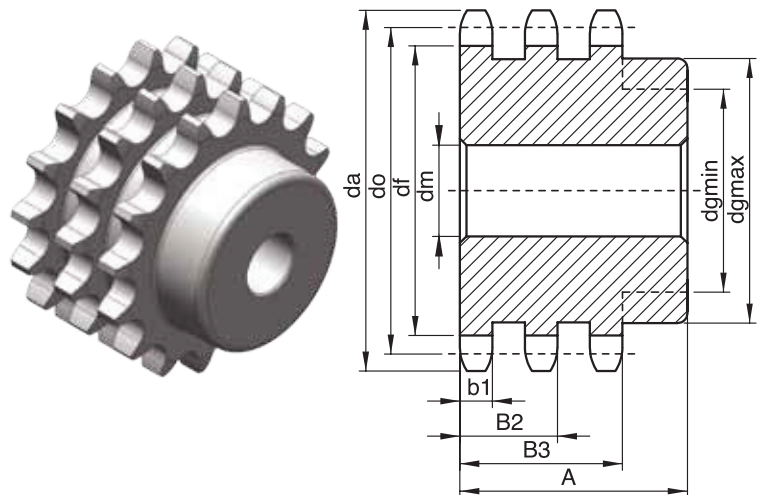
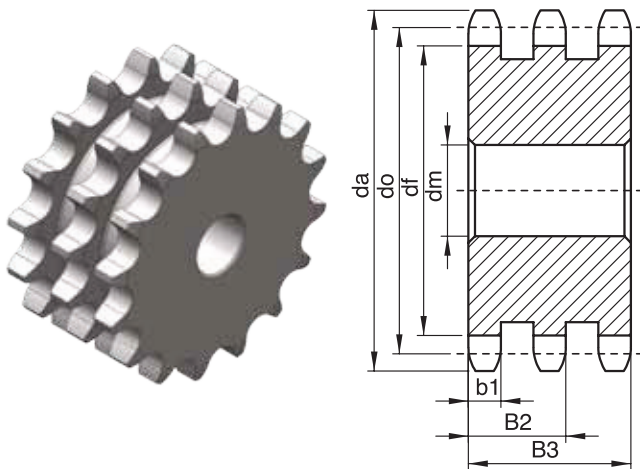
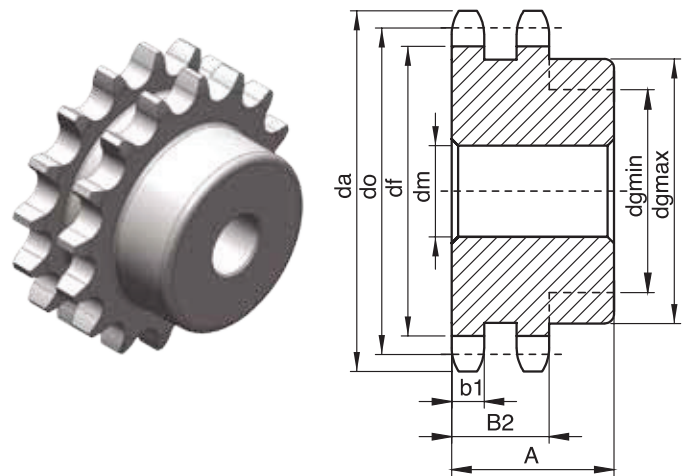
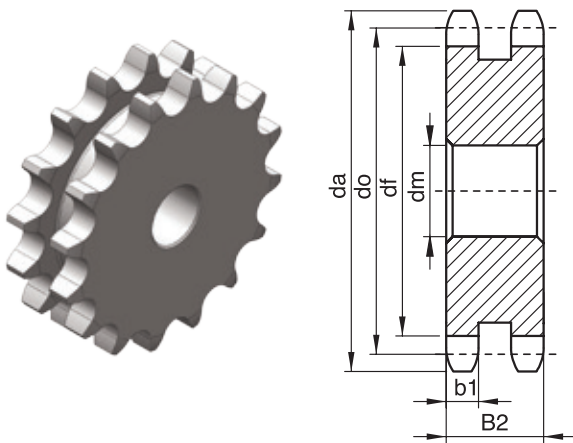
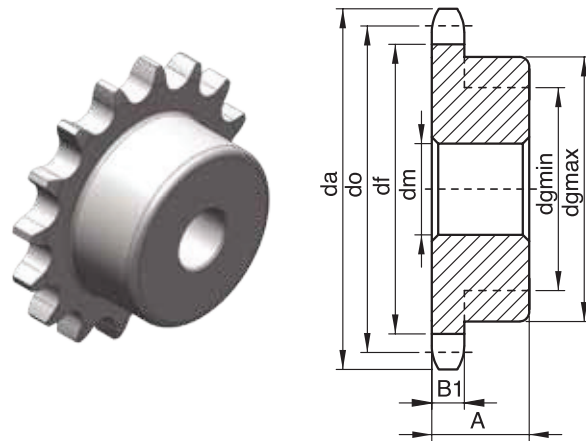
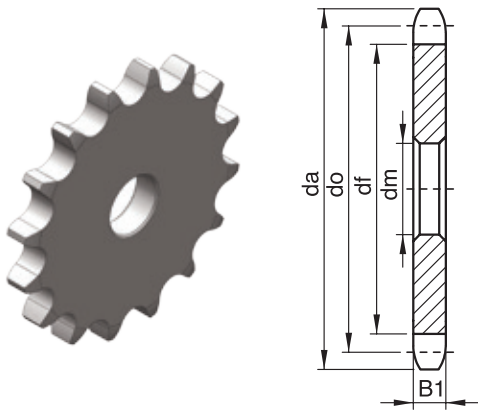
* Welded Hub



No Teeth Z	Outside Diameter (da)	Pitch Diameter (do)	Caliper Diameter (df)	Plain Bore (dm)	Hub Diameter (d _{gmax})	Single Row		Double Row		Three Rows	
						A	Hub Diameter (d _{gmin})	A	Hub Diameter (d _{gmin})	A	Hub Diameter (d _{gmin})
8	77.0	66.37	50.49	18	40	35	39	65	39	95	39
9	85.0	74.26	58.38	18	48	35	47	65	47	95	47
10	93.0	82.20	66.32	20	56	35	50	68	51	95	51
11	101.5	90.16	74.28	20	64	36	56	68	59	100	59
12	109.0	98.14	82.26	20	72	36	64	68	67	100	67
13	117.0	106.14	90.26	20	80	36	73	68	75	100	75
14	125.0	114.15	98.27	20	88	36	79	68	83	100	83
15	133.0	122.17	106.29	20	96	36	87	68	91	100	91
16	141.0	130.20	114.32	20	104	36	95	68	99	100	99
17	149.0	138.23	122.35	20	112	36	95	68	107	100	107
18	157.0	146.27	130.39	20	120	45	80*	75	80*	110	80*
19	165.2	154.32	138.44	20	128	45	80*	75	80*	110	80*
20	173.2	162.37	146.49	20	136	45	80*	75	80*	110	80*
21	181.2	170.42	154.54	20	144	45	80*	75	80*	110	80*
22	189.3	178.48	162.60	20	152	45	80*	75	80*	110	80*
23	197.5	186.54	170.66	20	160	45	80*	75	80*	110	80*
24	205.5	194.60	178.72	20	168	45	90*	75	90*	120	90*
25	213.5	202.66	186.78	20	176	45	90*	75	90*	120	90*
26	221.6	210.72	194.84	25	184	45	90*	75	90*	120	90*
27	229.6	218.79	202.91	25	192	45	90*	75	90*	120	90*
28	237.7	226.86	210.98	25	201	45	90*	75	90*	120	90*
29	245.8	234.93	219.05	25	209	45	90*	75	90*	120	90*
30	254.0	243.00	227.12	25	217	45	105*	75	105*	120	105*
31	262.0	251.07	235.19	25	225	45	105*	75	105*	120	105*
32	270.0	259.14	243.26	25	233	45	105*	75	105*	120	105*
33	278.5	267.21	251.33	25	241	45	105*	75	105*	120	105*
34	287.0	275.28	259.40	25	249	45	105*	75	105*	120	105*
35	296.2	283.36	267.48	25	257	45	105*	75	105*	120	105*
36	304.6	291.43	275.55	25	265	45	105*	75	105*	130	105*
37	312.6	299.51	283.63	25	273	45	115*	75	115*	130	115*
38	320.7	307.58	291.70	25	281	45	115*	75	115*	130	115*
39	328.8	315.66	299.78	25	289	45	115*	75	115*	130	115*
40	336.9	323.74	307.86	25	297	45	115*	75	115*	130	115*
41	345.0	331.81	315.93	25	306	50	115*	75	115*	130	115*
42	353.0	339.89	324.01	25	314	50	125*	75	125*	130	125*
43	361.1	347.97	332.09	25	322	50	125*	75	125*	130	125*
44	369.1	356.05	340.17	25	330	50	125*	75	125*	130	125*
45	377.1	364.12	348.24	25	338	50	125*	75	125*	130	125*
46	385.2	372.20	356.32	25	346	50	125*	75	125*	130	125*
47	393.2	380.28	364.40	25	354	50	125*	75	125*	130	125*
48	401.3	388.36	372.48	25	362	50	135*	75	135*	130	135*
49	409.3	396.44	380.56	25	370	50	135*	75	135*	130	135*
50	417.4	404.52	388.64	25	378	50	135*	75	135*	130	135*
51	425.5	412.60	396.72	25	386	50	135*	75	135*	130	135*
52	433.6	420.68	404.80	25	394	50	135*	75	135*	130	135*
53	441.7	428.76	412.88	25	402	50	135*	75	135*	130	135*
54	448.3	436.84	420.96	25	411	50	135*	75	135*	130	135*
55	457.9	444.92	429.04	25	419	50	145*	75	145*	130	145*
56	466.0	453.00	437.12	25	427	50	145*	75	145*	130	145*
57	474.0	461.08	445.20	25	435	50	145*	75	145*	130	145*
58	482.1	469.16	453.28	25	443	50	145*	75	145*	130	145*
59	490.2	477.24	461.36	25	451	50	145*	75	145*	130	145*
60	498.3	485.33	469.45	25	459	50	145*	75	145*	130	145*
62	514.5	501.49	485.61	30	475	60	150*	80	150*	130	150*
64	530.7	517.65	501.77	30	491	60	150*	80	150*	130	150*
65	538.8	525.73	509.85	30	499	60	150*	80	150*	130	150*
66	546.8	533.82	517.94	30	508	60	150*	80	150*	130	150*
68	562.9	549.98	534.10	30	524	60	150*	80	150*	130	150*
70	579.2	566.15	550.27	30	540	60	150*	80	150*	130	150*
72	595.4	582.31	566.43	30	556	60	150*	80	150*	130	150*
75	619.7	606.56	590.68	30	580	65	180*	80	180*	130	180*
76	627.0	614.64	598.76	30	588	65	180*	80	180*	130	180*
78	643.3	630.81	614.93	30	605	65	180*	80	180*	130	180*
80	660.0	646.97	631.09	30	621	65	180*	80	180*	130	180*
85	699.9	687.39	671.51	30	661	65	180*	80	180*	130	180*
90	740.3	727.80	711.92	35	702	65	200*	80	200*	130	200*
95	781.1	768.22	752.34	35	742	65	200*	80	200*	130	200*
100	821.1	808.64	792.76	35	782	65	200*	80	200*	130	200*
110	902.0	889.48	873.60	35	863	65	200*	80	200*	130	200*
120	934.3	921.81	905.93	35	896	65	200*	80	200*	130	200*
125	982.8	970.32	954.44	35	944	65	200*	80	200*	130	200*
	1023.3	1010.74	994.86	40	984	70	250*	85	250*	135	250*

TYPE A

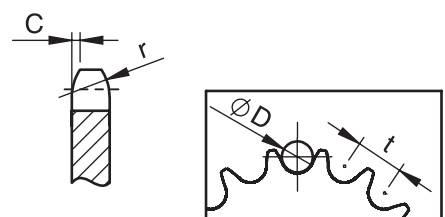
TYPE B



SPROCKETS	
r	26
C	2.5
B1	16.2
b1	15.8
B2	47.7
B3	79.6

CHAIN	mm
Pitch	25.4
Chain Spacing	17.02
Pulley Diameter Ø D	15.88

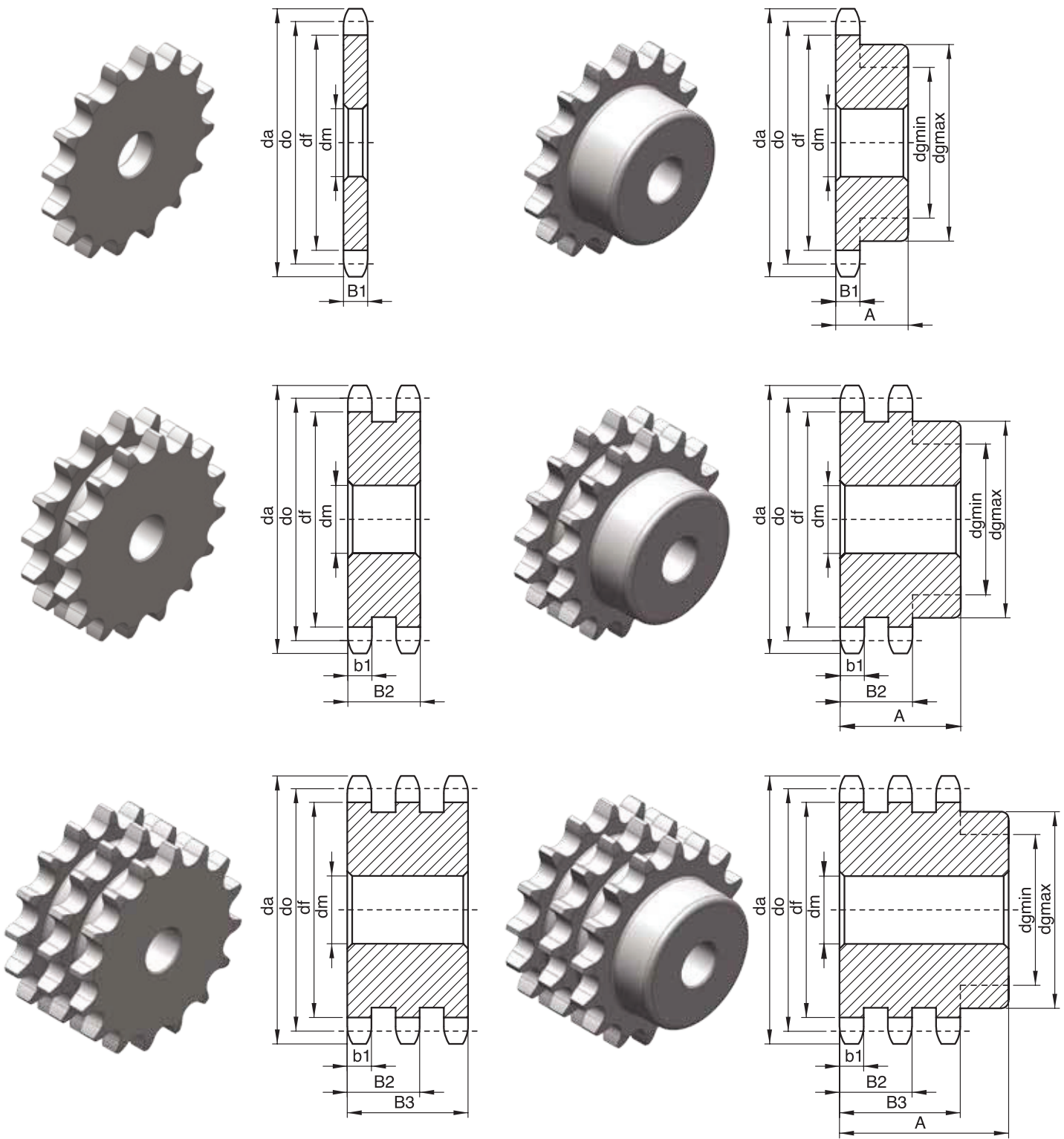
* Welded Hub



No Teeth Z	Outside Diameter (da)	Pitch Diameter (do)	Caliper Diameter (df)	Plain Bore (dm)	Hub Diameter (dgmax)	Single Row		Double Row		Three Rows	
						A	Hub Diameter (dgmin)	A	Hub Diameter (dgmin)	A	Hub Diameter (dgmin)
8	98.1	82.97	63.92	20	51	40	50	75	50	110	50
9	108.0	92.83	73.78	20	60	40	59	75	59	110	59
10	117.9	102.75	83.70	20	70	40	65	75	65	110	65
11	127.8	112.70	93.65	20	80	45	72	75	75	115	75
12	137.8	122.67	103.62	20	90	45	83	75	85	115	85
13	147.8	132.67	113.62	20	100	45	93	75	95	115	95
14	157.8	142.68	123.63	20	110	50	85*	85	85*	120	85*
15	167.9	152.71	133.66	20	120	50	85*	85	85*	120	85*
16	177.9	162.75	143.70	20	130	50	85*	85	85*	120	85*
17	187.9	172.79	153.74	25	140	50	85*	85	85*	120	85*
18	198.0	182.84	163.79	25	150	50	85*	85	85*	120	85*
19	208.1	192.90	173.85	25	160	50	90*	85	90*	125	90*
20	218.1	202.96	183.91	25	171	50	90*	85	90*	125	90*
21	228.2	213.03	193.98	25	181	50	90*	85	90*	125	90*
22	238.3	223.10	204.05	25	191	50	90*	85	90*	125	90*
23	248.3	233.17	214.12	25	201	50	90*	85	90*	125	90*
24	258.4	243.25	224.20	25	211	50	115*	85	115*	125	115*
25	268.5	253.32	234.27	25	221	50	115*	85	115*	125	115*
26	278.6	263.41	244.36	25	231	50	115*	85	115*	125	115*
27	288.6	273.49	254.44	25	241	50	115*	85	115*	125	115*
28	298.7	283.57	264.52	25	251	50	115*	85	115*	125	115*
29	308.8	293.66	274.61	30	261	55	125*	85	125*	130	125*
30	318.9	303.75	284.70	30	271	55	125*	85	125*	130	125*
31	329.0	313.83	294.78	30	281	55	125*	85	125*	130	125*
32	339.1	323.92	304.87	30	292	55	125*	85	125*	130	125*
33	349.2	334.01	314.96	30	302	55	125*	85	125*	130	125*
34	359.3	344.10	325.05	30	312	55	135*	85	135*	130	135*
35	369.4	354.20	335.15	30	322	55	135*	85	135*	130	135*
36	379.5	364.29	345.24	30	332	55	135*	85	135*	130	135*
37	389.5	374.38	355.33	30	342	55	135*	85	135*	130	135*
38	399.6	384.48	365.43	30	352	55	135*	85	135*	130	135*
39	409.7	394.57	375.52	30	362	55	145*	90	145*	130	145*
40	419.8	404.67	385.62	30	372	55	145*	90	145*	130	145*
41	429.9	414.77	395.72	30	382	55	145*	90	145*	130	145*
42	440.0	424.86	405.81	30	392	55	145*	90	145*	130	145*
43	450.1	434.96	415.91	30	403	55	145*	90	145*	130	145*
44	460.2	445.06	426.01	30	413	55	145*	90	145*	130	145*
45	470.3	455.15	436.10	30	423	55	145*	90	145*	130	145*
46	480.4	465.25	446.20	30	433	55	145*	90	145*	130	145*
47	490.5	475.35	456.30	30	443	55	145*	90	145*	130	145*
48	500.6	485.45	466.40	30	453	60	150*	100	150*	140	150*
49	510.7	495.55	476.50	30	463	60	150*	100	150*	140	150*
50	520.8	505.65	486.60	30	473	60	150*	100	150*	140	150*
51	530.9	515.75	496.70	30	483	60	150*	100	150*	140	150*
52	541.0	525.85	506.80	30	493	65	150*	100	150*	140	150*
53	551.1	535.95	516.90	30	504	65	150*	100	150*	140	150*
54	561.2	546.05	527.00	30	514	65	150*	100	150*	140	150*
55	571.3	556.15	537.10	30	524	65	150*	100	150*	140	150*
56	581.4	566.25	547.20	30	534	65	150*	100	150*	140	150*
57	591.5	576.35	557.30	30	544	65	150*	100	150*	140	150*
58	601.6	586.45	567.40	30	554	65	180*	105	180*	140	180*
59	611.7	596.56	577.51	30	564	65	180*	105	180*	140	180*
60	621.8	606.66	587.61	30	574	65	180*	105	180*	140	180*
62	642.0	626.86	607.81	30	594	65	180*	105	180*	140	180*
64	662.2	647.07	628.02	30	615	65	180*	105	180*	140	180*
65	672.3	657.17	638.12	30	625	65	180*	105	180*	140	180*
66	682.4	667.27	648.22	30	635	65	180*	105	180*	140	180*
68	702.6	687.48	668.43	35	655	65	200*	105	200*	140	200*
70	722.8	707.68	688.63	35	675	65	200*	105	200*	140	200*
72	743.1	727.89	708.84	35	695	65	200*	105	200*	140	200*
75	773.3	758.20	739.15	35	726	65	200*	105	200*	140	200*
76	783.3	768.30	749.25	35	736	75	200*	105	200*	140	200*
78	803.5	788.51	769.46	35	756	75	200*	105	200*	140	200*
80	823.9	808.71	789.66	35	776	75	200*	105	200*	140	200*
85	874.4	859.23	840.18	35	827	75	200*	105	200*	140	200*
90	924.9	909.76	890.71	35	877	75	200*	105	200*	140	200*
95	975.2	960.28	941.23	35	928	75	200*	105	200*	140	200*
100	1026.0	1010.80	991.75	40	978	80	250*	110	250*	145	250*
110	1127.0	1111.85	1092.80	40	1079	80	250*	110	250*	145	250*
114	1167.4	1152.27	1133.22	40	1120	80	250*	110	250*	145	250*
120	1228.0	1212.90	1193.85	40	1180	80	250*	110	250*	145	250*
125	1278.5	1263.43	1244.38	40	1231	80	250*	110	250*	145	250*

TYPE A

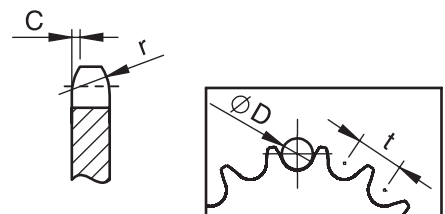
TYPE B



SPROCKETS	mm
r	32
C	3.5
B1	18.5
b1	18.2
B2	54.6
B3	91

CHAIN	mm
Pitch	31.75
Chain Spacing	19.56
Pulley Diameter $\varnothing D$	19.05

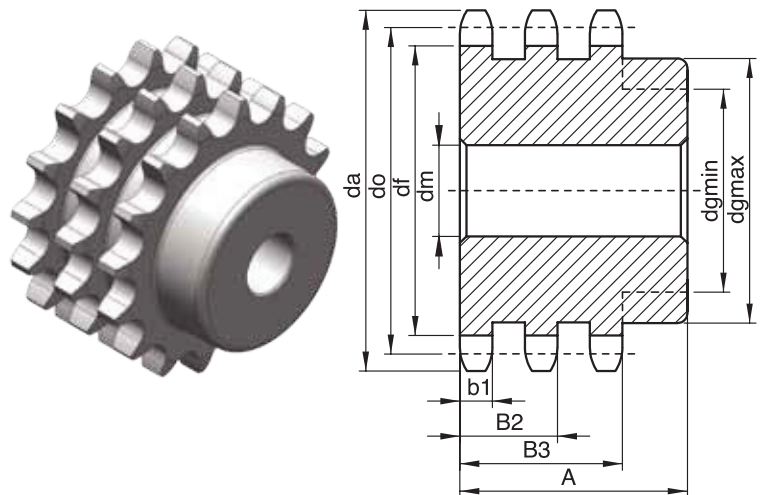
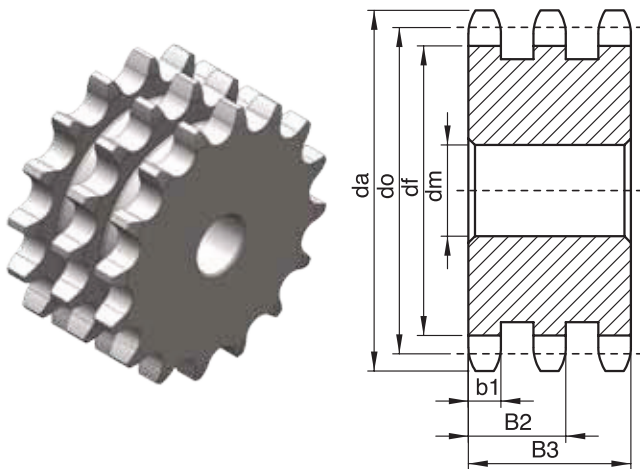
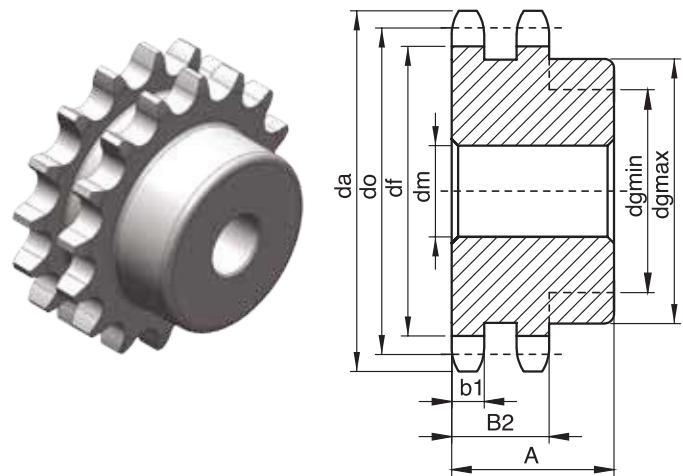
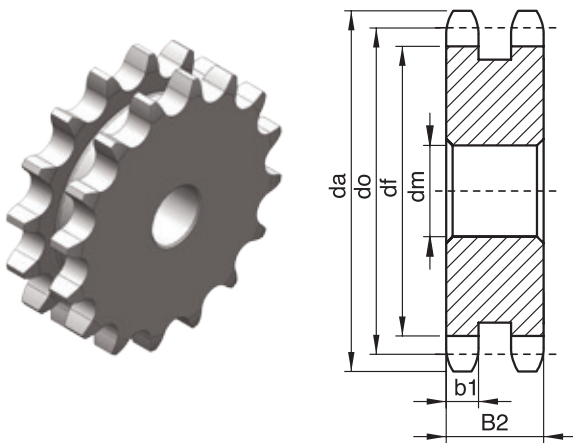
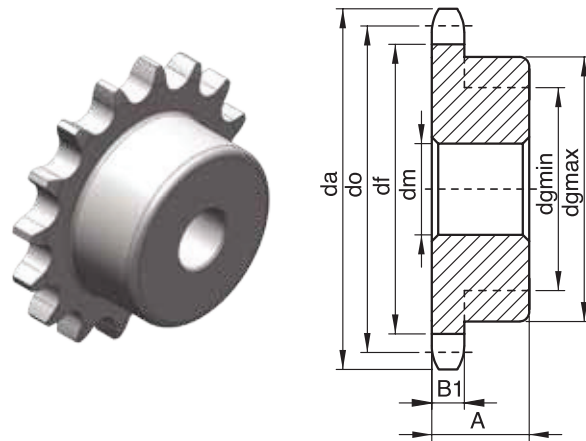
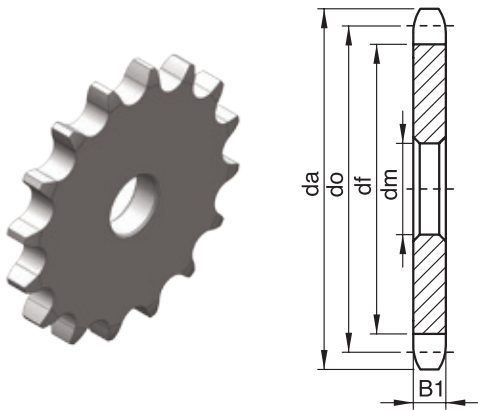
* Welded Hub



No Teeth Z	Outside Diameter (da)	Pitch Diameter (do)	Caliper Diameter (df)	Plain Bore (dm)	Hub Diameter (dgmax)	Single Row		Double Row		Three Rows	
						A	Hub Diameter (dgmin)	A	Hub Diameter (dgmin)	A	Hub Diameter (dgmin)
8	115.0	99.56	74.16	20	59	45	58	95	58	140	58
9	126.4	111.40	86.00	20	71	45	70	95	70	140	70
10	138.0	123.29	97.89	20	83	45	80	95	80	140	80
11	150.0	135.23	109.83	25	95	55	75*	100	75*	150	75*
12	162.0	147.21	121.81	25	107	55	85*	100	85*	150	85*
13	174.2	159.20	133.80	25	119	55	85*	100	85*	150	85*
14	186.2	171.22	145.82	25	131	55	95*	100	95*	150	95*
15	198.2	183.25	157.85	25	143	55	95*	100	95*	150	95*
16	210.3	195.29	169.89	25	155	55	105*	105	105*	150	105*
17	222.3	207.35	181.95	25	167	55	105*	105	105*	150	105*
18	234.3	219.41	194.01	25	179	55	115*	105	115*	150	115*
19	246.5	231.48	206.08	25	191	55	115*	105	115*	150	115*
20	258.6	243.55	218.15	25	203	55	125*	105	125*	150	125*
21	270.6	255.63	230.23	25	215	60	125*	105	125*	150	125*
22	282.7	267.72	242.32	25	227	60	125*	105	125*	150	125*
23	294.8	279.80	254.40	25	239	60	125*	105	125*	150	125*
24	306.8	291.90	266.50	30	251	60	135*	110	135*	155	135*
25	319.0	303.99	278.59	30	264	60	135*	110	135*	155	135*
26	331.0	316.09	290.69	30	276	60	135*	110	135*	155	135*
27	343.2	328.19	302.79	30	288	60	135*	110	135*	155	135*
28	355.2	340.29	314.89	30	300	60	145*	110	145*	155	145*
29	367.3	352.39	326.99	30	312	60	145*	110	145*	155	145*
30	379.5	364.49	339.09	30	324	60	145*	110	145*	155	145*
31	391.6	376.60	351.20	30	336	60	145*	110	145*	155	145*
32	403.7	388.71	363.31	30	348	60	180*	115	180*	160	180*
33	415.8	400.82	375.42	30	360	60	180*	115	180*	160	180*
34	427.8	412.93	387.53	30	373	60	180*	115	180*	160	180*
35	440.0	425.04	399.64	30	385	60	180*	115	180*	160	180*
36	452.0	437.15	411.75	30	397	60	180*	115	180*	160	180*
37	464.2	449.26	423.86	30	409	60	180*	115	180*	160	180*
38	476.2	461.37	435.97	30	421	60	180*	115	180*	160	180*
39	488.5	473.49	448.09	30	433	60	180*	115	180*	160	180*
40	500.6	485.60	460.20	30	445	60	200*	120	200*	165	200*
41	512.6	497.72	472.32	30	457	75	200*	120	200*	165	200*
42	524.7	509.83	484.43	30	469	75	200*	120	200*	165	200*
43	536.8	521.95	496.55	30	482	75	200*	120	200*	165	200*
44	549.0	534.07	508.67	30	494	75	200*	120	200*	165	200*
45	561.2	546.19	520.79	30	506	75	200*	120	200*	165	200*
46	573.3	558.30	532.90	30	518	75	200*	120	200*	165	200*
47	585.4	570.42	545.02	30	530	75	200*	120	200*	165	200*
48	597.4	582.54	557.14	30	542	75	200*	120	200*	165	200*
49	609.5	594.66	569.26	30	554	75	200*	120	200*	165	200*
50	621.7	606.78	581.38	30	566	75	200*	120	200*	165	200*
51	633.8	618.90	593.50	30	578	75	200*	120	200*	165	200*
52	646.0	631.02	605.62	30	591	75	200*	120	200*	165	200*
53	658.0	643.14	617.74	30	603	75	200*	120	200*	165	200*
54	670.2	655.26	629.86	30	615	75	200*	120	200*	165	200*
55	682.3	667.38	641.98	30	627	75	200*	120	200*	165	200*
56	694.4	679.50	654.10	30	639	75	200*	120	200*	165	200*
57	706.5	691.62	666.22	35	651	75	200*	120	200*	165	200*
58	718.6	703.75	678.35	35	663	75	200*	120	200*	165	200*
59	730.7	715.87	690.47	35	675	75	200*	120	200*	165	200*
60	742.8	727.99	702.59	35	688	75	200*	120	200*	165	200*
62	767.2	752.23	726.83	35	712	75	200*	120	200*	165	200*
64	791.3	776.48	751.08	35	736	75	200*	120	200*	165	200*
65	803.4	788.60	763.20	35	748	75	250*	120	250*	165	250*
66	815.6	800.72	775.32	35	760	75	250*	120	250*	165	250*
68	839.8	824.97	799.57	35	785	75	250*	120	250*	165	250*
70	864.2	849.22	823.82	35	809	75	250*	120	250*	165	250*
72	888.4	873.46	848.06	35	833	75	250*	120	250*	165	250*
75	924.8	909.84	884.44	35	869	75	250*	120	250*	165	250*
76	936.9	921.96	896.56	35	882	75	250*	120	250*	165	250*
78	961.0	946.21	920.81	35	906	75	250*	120	250*	165	250*
80	985.4	970.46	945.06	35	930	75	250*	120	250*	165	250*
85	1046.0	1031.08	1005.68	40	991	80	300*	125	300*	170	300*
90	1106.5	1091.71	1066.31	40	1051	80	300*	125	300*	170	300*
95	1167.3	1152.33	1126.93	40	1112	80	300*	125	300*	170	300*
100	1227.8	1212.96	1187.56	40	1173	80	300*	125	300*	170	300*
110	1349.0	1334.22	1308.82	40	1294	80	300*	125	300*	170	300*
114	1397.5	1382.72	1357.32	40	1342	80	300*	125	300*	170	300*
120	1471.0	1455.48	1430.08	40	1415	80	300*	125	300*	170	300*
125	1531.0	1516.11	1490.71	40	1476	80	300*	125	300*	170	300*

TYPE A

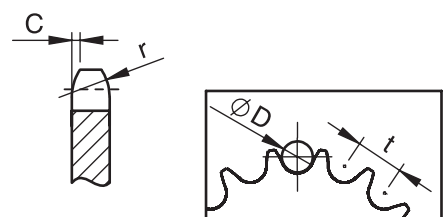
TYPE B



SPROCKETS	mm
r	38
C	4
B1	24.1
b1	23.6
B2	72
B3	120.3

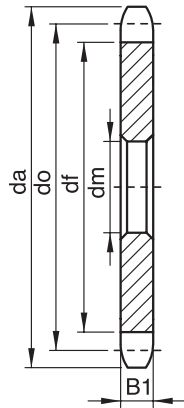
CHAIN	mm
Pitch	38.1
Chain Spacing	25.4
Pulley Diameter Ø D	25.4

* Welded Hub

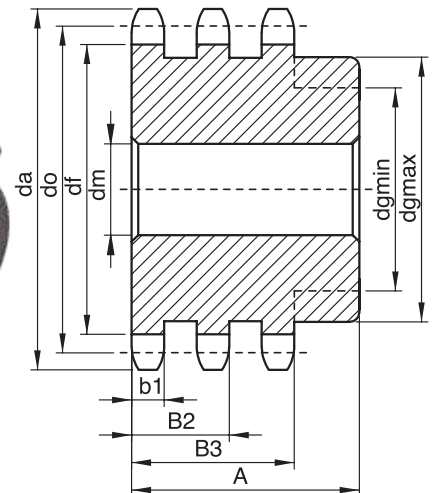
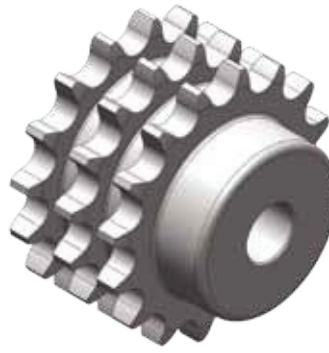
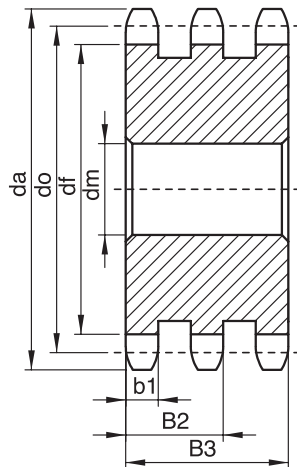
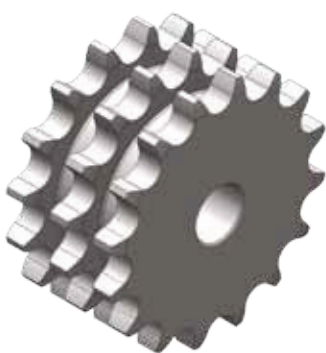
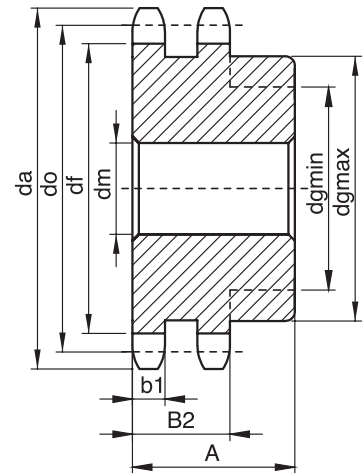
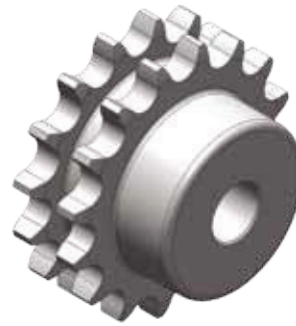
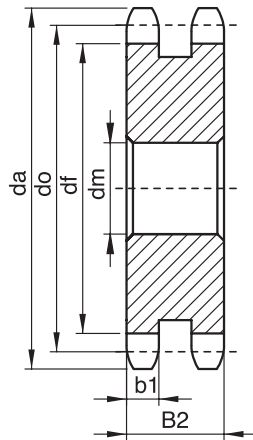
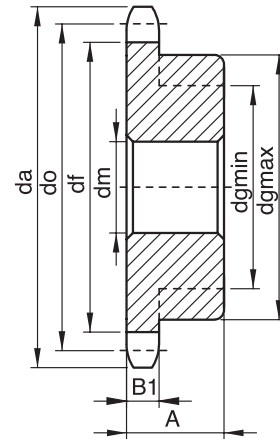


No Teeth Z	Outside Diameter (da)	Pitch Diameter (do)	Caliper Diameter (df)	Plain Bore (dm)	Hub Diameter (dgmax)	Single Row		Double Row		Three Rows	
						A	Hub Diameter (dgmin)	A	Hub Diameter (dgmin)	A	Hub Diameter (dgmin)
8	132.0	116.15	88.21	25	71	70	70	120	70	180	70
9	148.4	129.96	102.02	25	85	70	84	120	84	180	84
10	162.3	143.84	115.90	25	99	60	75*	120	75*	180	75*
11	176.3	157.77	129.83	25	113	60	90*	120	90*	180	90*
12	189.5	171.74	143.80	25	127	60	105*	120	105*	180	105*
13	204.2	185.74	157.80	25	141	60	105*	120	105*	180	105*
14	218.2	199.76	171.82	25	155	60	105*	120	105*	180	105*
15	232.3	213.79	185.85	25	169	60	105*	120	105*	180	105*
16	246.3	227.84	199.90	30	183	60	105*	120	105*	180	105*
17	260.3	241.91	213.97	30	197	65	115*	125	115*	185	115*
18	274.0	255.98	228.04	30	211	65	115*	125	115*	185	115*
19	289.0	270.06	242.12	30	225	65	115*	125	115*	185	115*
20	303.0	284.14	256.20	30	239	65	125*	125	125*	185	125*
21	317.0	298.24	270.30	30	253	65	125*	125	125*	185	125*
22	331.0	312.34	284.40	30	267	65	125*	125	125*	185	125*
23	345.0	326.44	298.50	30	281	65	125*	125	125*	185	125*
24	359.0	340.54	312.60	30	295	70	135*	130	135*	190	135*
25	373.0	354.65	326.71	30	310	70	135*	130	135*	190	135*
26	387.0	368.77	340.83	30	324	70	135*	130	135*	190	135*
27	401.4	382.88	354.94	30	338	70	145*	130	145*	190	145*
28	416.0	397.00	369.06	30	352	70	145*	130	145*	190	145*
29	430.0	411.12	383.18	30	366	70	145*	130	145*	190	145*
30	444.0	425.24	397.30	30	380	70	145*	130	145*	190	145*
31	458.0	439.37	411.43	30	394	70	180*	130	180*	190	180*
32	472.0	453.49	425.55	30	408	70	180*	130	180*	190	180*
33	486.0	467.62	439.68	30	423	70	180*	130	180*	190	180*
34	500.0	481.75	453.81	30	437	75	180*	135	180*	195	180*
35	514.0	495.88	467.94	30	451	75	200*	135	200*	195	200*
36	529.0	510.01	482.07	30	465	75	200*	135	200*	195	200*
37	543.0	524.14	496.20	30	479	75	200*	135	200*	195	200*
38	557.0	538.27	510.33	30	493	75	200*	135	200*	195	200*
39	571.0	552.40	524.46	30	507	75	200*	135	200*	195	200*
40	585.0	566.54	538.60	30	521	75	200*	135	200*	195	200*
41	599.0	580.67	552.73	30	536	80	200*	135	200*	195	200*
42	613.0	594.81	566.87	30	550	80	200*	135	200*	195	200*
43	628.0	608.94	581.00	30	564	80	200*	135	200*	195	200*
44	642.0	623.08	595.14	30	578	80	200*	135	200*	195	200*
45	656.0	637.22	609.28	30	592	80	200*	135	200*	195	200*
46	670.0	651.35	623.41	30	606	80	200*	135	200*	195	200*
47	685.0	665.49	637.55	30	620	80	200*	135	200*	195	200*
48	699.0	679.63	651.69	30	635	80	200*	135	200*	195	200*
49	713.0	693.77	665.83	35	649	80	200*	135	200*	195	200*
50	726.0	707.91	679.97	35	663	80	200*	135	200*	195	200*
51	740.0	722.05	694.11	35	677	80	200*	135	200*	195	200*
52	755.0	736.19	708.25	35	691	80	250*	135	250*	195	250*
53	769.0	750.33	722.39	35	705	80	250*	135	250*	195	250*
54	784.0	764.47	736.53	35	719	80	250*	135	250*	195	250*
55	798.0	778.61	750.67	35	734	80	250*	135	250*	195	250*
56	812.0	792.75	764.81	35	748	80	250*	135	250*	195	250*
57	825.0	806.89	778.95	35	762	80	250*	135	250*	195	250*
58	839.0	821.04	793.10	35	776	80	250*	135	250*	195	250*
59	853.0	835.18	807.24	35	790	80	250*	135	250*	195	250*
60	869.0	849.32	821.38	35	804	80	250*	135	250*	195	250*
62	898.0	877.61	849.67	35	833	80	250*	135	250*	195	250*
64	926.0	905.89	877.95	35	861	80	250*	135	250*	195	250*
65	940.0	920.03	892.09	35	875	80	250*	135	250*	195	250*
66	954.0	934.18	906.24	35	889	80	250*	135	250*	195	250*
68	983.0	962.47	934.53	35	917	80	250*	135	250*	195	250*
70	1011.0	990.75	962.81	40	946	85	300*	140	300*	200	300*
72	1039.0	1019.04	991.10	40	974	85	300*	140	300*	200	300*
75	1082.0	1061.48	1033.54	40	1016	85	300*	140	300*	200	300*
76	1095.0	1075.62	1047.68	40	1031	85	300*	140	300*	200	300*
78	1123.0	1103.91	1075.97	40	1059	85	300*	140	300*	200	300*
80	1151.0	1132.20	1104.26	40	1087	85	300*	140	300*	200	300*
85	1222.0	1202.93	1174.99	40	1158	85	300*	140	300*	200	300*
90	1294.0	1273.66	1245.72	40	1229	85	300*	140	300*	200	300*
95	1364.0	1344.39	1316.45	40	1299	85	300*	140	300*	200	300*
100	1435.0	1415.12	1387.18	40	1370	85	300*	140	300*	200	300*
110	1577.0	1556.59	1528.65	45	1512	85	300*	140	300*	200	300*
114	1633.0	1613.18	1585.24	45	1568	85	300*	140	300*	200	300*
120	1718.0	1698.06	1670.12	45	1653	85	300*	140	300*	200	300*
125	1789.0	1768.80	1740.86	45	1724	85	300*	140	300*	200	300*

TYPE A



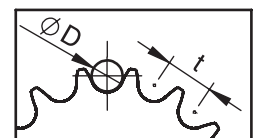
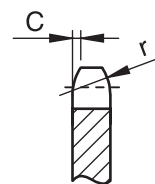
TYPE B



SPROCKETS	mm
r	44
C	5
B1	29.4
b1	28.8
B2	88.4
B3	148

CHAIN	mm
Pitch	44.45
Chain Spacing	30.99
Pulley Diameter Ø D	27.94

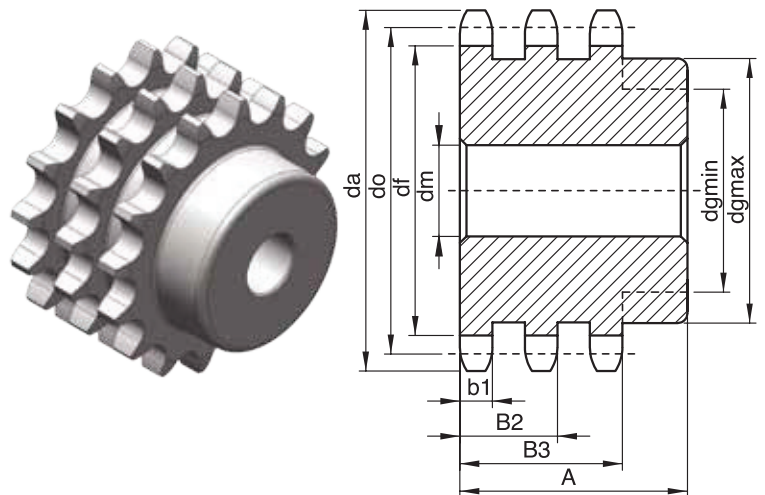
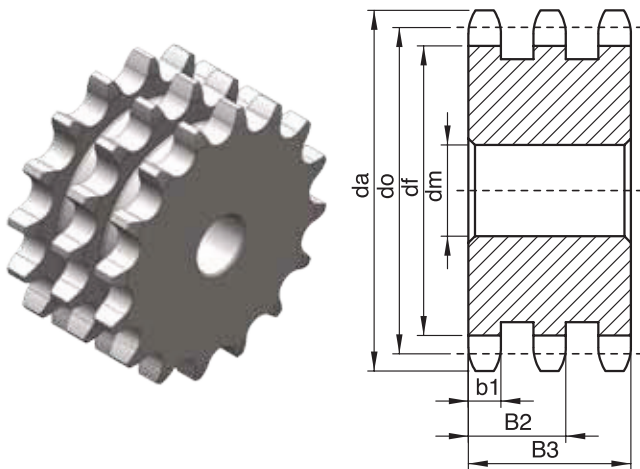
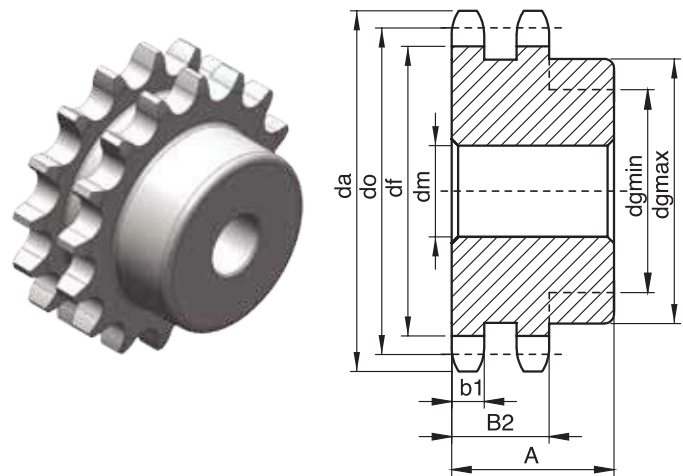
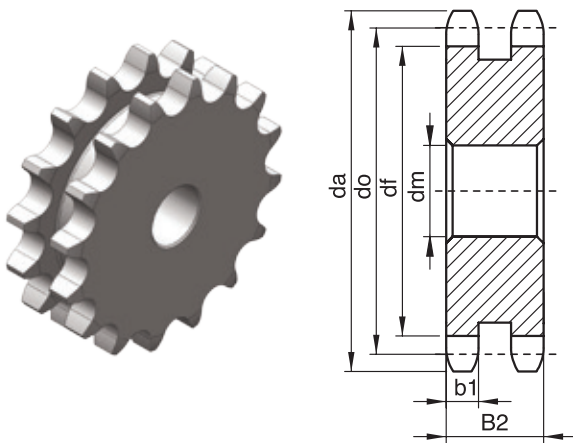
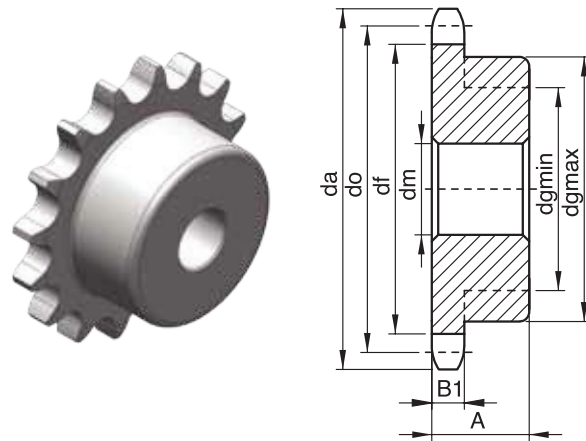
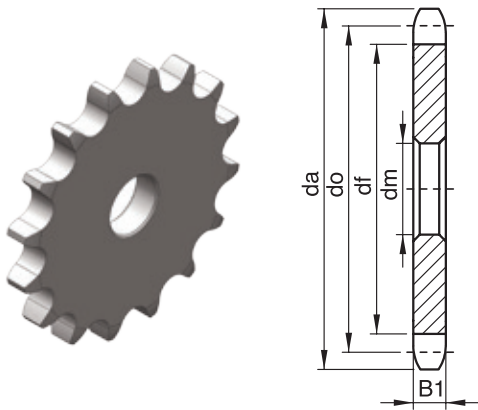
* Welded Hub



No Teeth Z	Outside Diameter (da)	Pitch Diameter (do)	Caliper Diameter (df)	Plain Bore (dm)	Hub Diameter (dgmax)	Single Row		Double Row		Three Rows	
						A	Hub Diameter (dgmin)	A	Hub Diameter (dgmin)	A	Hub Diameter (dgmin)
8	153.2	132.75	103.54	25	80	60	60*	120	60*	180	60*
9	169.0	148.53	119.32	25	96	60	75*	120	75*	180	75*
10	185.0	164.39	135.18	25	112	60	85*	120	85*	180	85*
11	200.8	180.31	151.10	30	128	60	95*	120	95*	180	95*
12	216.8	196.28	167.07	30	144	60	105*	120	105*	180	105*
13	232.8	212.27	183.06	30	160	60	115*	120	115*	180	115*
14	248.8	228.29	199.08	30	176	60	125*	120	125*	180	125*
15	264.8	244.33	215.12	30	192	65	125*	125	125*	185	125*
16	280.9	260.39	231.18	30	208	65	125*	125	125*	185	125*
17	296.9	276.46	247.25	30	224	65	125*	125	125*	185	125*
18	313.0	292.55	263.34	30	240	65	135*	125	135*	185	135*
19	329.1	308.64	279.43	30	256	65	135*	125	135*	185	135*
20	345.2	324.74	295.53	30	272	65	135*	125	135*	185	135*
21	361.3	340.84	311.63	30	289	65	145*	125	145*	185	145*
22	377.5	356.96	327.75	30	305	65	145*	125	145*	185	145*
23	393.6	373.07	343.86	30	321	65	145*	125	145*	185	145*
24	409.7	389.19	359.98	30	337	70	180*	130	180*	190	180*
25	425.8	405.32	376.11	30	353	70	180*	130	180*	190	180*
26	441.9	421.45	392.24	30	369	70	180*	130	180*	190	180*
27	458.1	437.58	408.37	30	385	70	180*	130	180*	190	180*
28	474.2	453.72	424.51	30	401	70	180*	130	180*	190	180*
29	490.4	469.85	440.64	30	418	70	180*	130	180*	190	180*
30	506.5	485.99	456.78	30	434	70	200*	130	200*	190	200*
31	523.0	502.13	472.92	30	450	70	200*	130	200*	190	200*
32	538.8	518.28	489.07	30	466	70	200*	130	200*	190	200*
33	556.0	534.42	505.21	30	482	70	200*	130	200*	190	200*
34	572.0	550.57	521.36	30	498	75	200*	135	200*	195	200*
35	589.5	566.72	537.51	30	514	75	200*	135	200*	195	200*
36	605.0	582.86	553.65	30	531	75	250*	135	250*	195	250*
37	621.0	599.01	569.80	30	547	75	250*	135	250*	195	250*
38	635.5	615.17	585.96	30	563	75	250*	135	250*	195	250*
39	654.0	631.32	602.11	30	579	75	250*	135	250*	195	250*
40	670.3	647.47	618.26	30	595	75	250*	135	250*	195	250*
41	686.0	663.63	634.42	30	611	75	250*	135	250*	195	250*
42	703.0	679.78	650.57	35	627	75	250*	135	250*	195	250*
43	719.0	695.94	666.73	35	644	75	250*	135	250*	195	250*
44	734.0	712.09	682.88	35	660	75	250*	135	250*	195	250*
45	751.0	728.25	699.04	35	676	75	250*	135	250*	195	250*
46	767.0	744.41	715.20	35	692	75	250*	135	250*	195	250*
47	783.0	760.56	731.35	35	708	75	250*	135	250*	195	250*
48	800.0	776.72	747.51	35	724	75	250*	135	250*	195	250*
49	816.0	792.88	763.67	35	741	75	250*	135	250*	195	250*
50	831.8	809.04	779.83	35	757	75	250*	135	250*	195	250*
51	848.0	825.20	795.99	35	773	75	250*	135	250*	195	250*
52	864.0	841.36	812.15	35	789	75	250*	135	250*	195	250*
53	880.0	857.52	828.31	35	805	75	250*	135	250*	195	250*
54	896.0	873.68	844.47	35	821	75	250*	135	250*	195	250*
55	913.0	889.84	860.63	35	838	75	250*	135	250*	195	250*
56	929.0	906.00	876.79	35	854	75	250*	135	250*	195	250*
57	945.0	922.16	892.95	35	870	75	250*	135	250*	195	250*
58	961.0	938.33	909.12	35	886	75	250*	135	250*	195	250*
59	977.0	954.49	925.28	35	902	75	250*	135	250*	195	250*
60	993.4	970.65	941.44	35	918	75	250*	135	250*	195	250*
62	1026.0	1002.98	973.77	40	951	80	300*	140	300*	200	300*
64	1058.0	1035.30	1006.09	40	983	80	300*	140	300*	200	300*
65	1074.0	1051.47	1022.26	40	999	80	300*	140	300*	200	300*
66	1090.0	1067.63	1038.42	40	1015	80	300*	140	300*	200	300*
68	1123.0	1099.96	1070.75	40	1048	80	300*	140	300*	200	300*
70	1155.0	1132.29	1103.08	40	1080	80	300*	140	300*	200	300*
72	1187.0	1164.62	1135.41	40	1112	80	300*	140	300*	200	300*
75	1236.0	1213.12	1183.91	40	1161	80	300*	140	300*	200	300*
76	1252.0	1229.28	1200.07	40	1177	80	300*	140	300*	200	300*
78	1284.0	1261.61	1232.40	40	1209	80	300*	140	300*	200	300*
80	1317.0	1293.94	1264.73	40	1242	80	300*	140	300*	200	300*
85	1398.0	1374.78	1345.57	40	1322	80	300*	140	300*	200	300*
90	1478.0	1455.61	1426.40	40	1403	80	300*	140	300*	200	300*
95	1559.0	1536.44	1507.23	45	1484	80	300*	140	300*	200	300*
100	1640.0	1617.28	1588.07	45	1565	80	300*	140	300*	200	300*
110	1802.0	1778.96	1749.75	45	1727	80	300*	140	300*	200	300*
114	1866.0	1843.63	1814.42	45	1791	80	300*	140	300*	200	300*
120	1963.0	1940.64	1911.43	45	1888	80	300*	140	300*	200	300*
125	2044.0	2021.48	1992.27	50	1969	85	300*	145	300*	205	300*

TYPE A

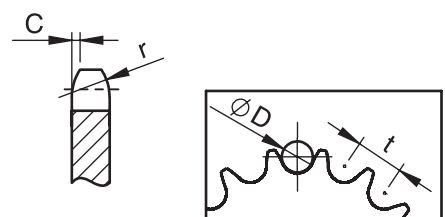
TYPE B



SPROCKETS	mm
r	51
C	5
B1	29.4
b1	28.8
B2	87.4
B3	146

CHAIN	mm
Pitch	50.8
Chain Spacing	30.99
Pulley Diameter Ø D	29.21

* Welded Hub





SPECIFIC
CHAINS

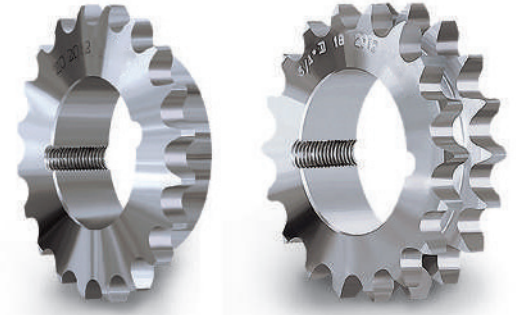
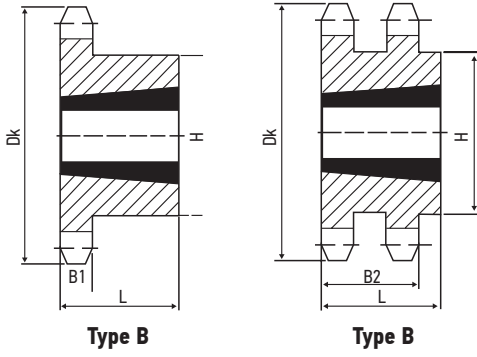
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CHAIN TYPE BUSH SPROCKET

3/8" 06 B (DIN 8187 ISO / R 606)



Pitch : 9.525 mm

B1: 5.3 mm

B2: 15.6 mm

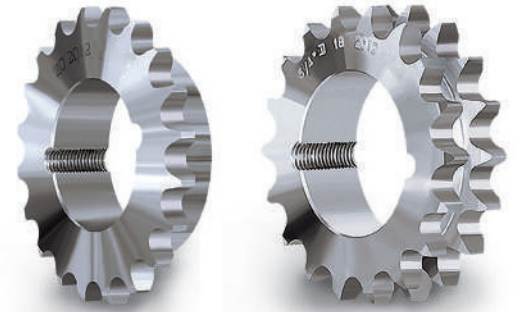
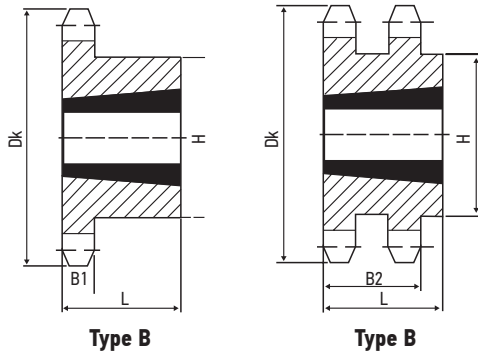
3/8" 06 B-1

Z	DK	TYPE	BUSH	H	L
16	52	B	1008	45+	22
17	54,5	B	1008	45+	22
18	58	B	1008	45	22
19	59,5	B	1008	45	22
20	64	B	1008	46	22
21	67	B	1008	46	22
22	69,5	B	1108	52	22
23	73	B	1210	58	25
24	74,5	B	1210	61	25
25	79	B	1210	63	25
26	82	B	1210	63	25
27	84,5	B	1210	63	25
28	88	B	1210	63	25
30	95	B	1210	63	25
32	101	B	1210	63	25
34	107	B	1210	63	25
35	110	B	1210	63	25
36	113	B	1210	63	25
38	119	B	1210	70	25
40	125,5	B	1210	70	25
42	129,5	B	1210	70	25
45	139	B	1210	70	25
48	149	B	1210	70	25
50	155,5	B	1210	70	25
52	161,5	B	1210	70	25
54	167	B	1210	70	25
57	176	B	1210	70	25
60	185	B	1210	70	25
65	200	B	1210	70	25
70	215	B	1210	70	25
75	231	B	1210	70	25
80	246	B	1210	70	25
85	261	B	1210	70	25

3/8" 06 B-2

Z	DK	TYPE	BUSH	H	L
16	52	B	1008	45+	22
17	54,5	B	1008	45+	22
18	58	B	1008	45	22
19	59,5	B	1008	45	22
20	64	B	1008	48	22
21	67	B	1008	48	22
22	69,5	B	1108	52	22
23	73	B	1210	59	25
24	74,5	B	1210	63	25
25	79	B	1210	64	25
26	82	B	1210	65	25
27	84,5	B	1210	70	25
28	88	B	1210	70	25
30	95	B	1210	75	25
32	101	B	1610	80	25
34	107	B	1610	80	25
35	110	B	1610	80	25
36	113	B	1610	80	25
38	119	B	1610	80	25
40	125,5	B	1610	80	25
42	129,5	B	1610	80	25
45	139	B	1610	80	25
48	149	B	1610	80	25
50	155,5	B	1610	80	25
52	161,5	B	1610	80	25
54	167	B	1610	80	25
57	176	B	1610	80	25
60	185	B	1610	80	25
65	200	B	1610	80	25
70	215	B	1610	80	25
75	231	B	1610	80	25
80	246	B	1610	90	25
85	261	B	1610	90	25

1/2" 08 B (DIN 8187 ISO / R 606)



Pitch : 1 2.7 mm

B1: 7.2 mm

B2: 21 mm

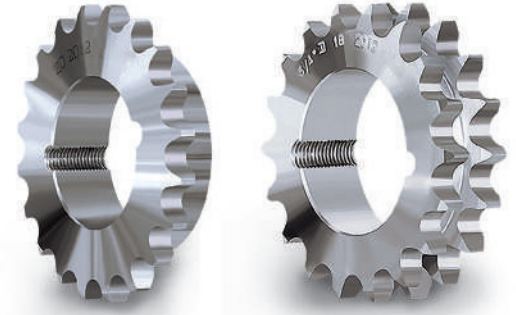
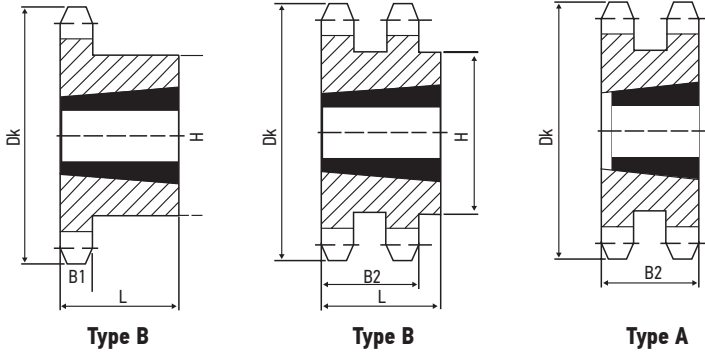
1/2" 08 B-1

Z	DK	TYPE	BUSH	H	L
14	62	B	1008	45	22
15	66	B	1008	45	22
16	69	B	1108	52	22
17	74	B	1210	56	25
18	78	B	1210	60	25
19	82	B	1210	63	25
20	86	B	1210	71	25
21	89	B	1610	71	25
22	94	B	1610	76	25
23	98	B	1610	76	25
24	102	B	1610	76	25
25	106	B	1610	76	25
26	109	B	1610	76	25
27	114	B	1610	76	25
28	118	B	2012	90	32
30	126	B	2012	90	32
32	134	B	2012	90	32
34	143	B	2012	90	32
35	147	B	2012	90	32
36	151	B	2012	90	32
38	159	B	2012	90	32
40	167	B	2012	90	32
42	175	B	2012	100	32
45	187	B	2012	100	32
48	199	B	2012	100	32
50	207	B	2012	100	32
52	215	B	2012	100	32
54	223	B	2012	100	32
57	235	B	2012	100	32
60	247	B	2012	100	32
65	268	B	2012	100	32
70	288	B	2012	100	32
75	308	B	2012	100	32
80	328	B	2012	100	32
85	349	B	2012	100	32

1/2" 08 B-2

Z	DK	TYPE	BUSH	H	L
14	62	B	1008	45	22
15	66	B	1008	45	22
16	69	B	1108	50	22
17	74	B	1210	56	25
18	78	B	1210	60	25
19	82	B	1210	63	25
20	86	B	1610	71	25
21	89	B	1610	71	25
22	94	B	1610	76	25
23	98	B	1610	79	25
24	102	B	1610	84	25
25	106	B	2012	87	32
26	109	B	2012	87	32
27	114	B	2012	87	32
28	118	B	2012	87	32
30	126	B	2012	90	32
32	134	B	2012	90	32
34	143	B	2012	90	32
35	147	B	2012	100	32
36	151	B	2012	100	32
38	159	B	2012	100	32
40	167	B	2012	100	32
42	175	B	2012	100	32
45	187	B	2012	100	32
48	199	B	2012	100	32
50	207	B	2012	100	32
52	215	B	2012	100	32
54	223	B	2012	100	32
57	235	B	2012	100	32
60	247	B	2012	100	32
65	268	B	2012	100	32
70	288	B	2012	100	32
75	308	B	2012	100	32
80	328	B	2012	100	32
85	349	B	2012	100	32

5/8" 10 B (DIN 8187 ISO / R 606)



Pitch : 15.88 mm

B1: 9.1 mm

B2: 25.6 mm

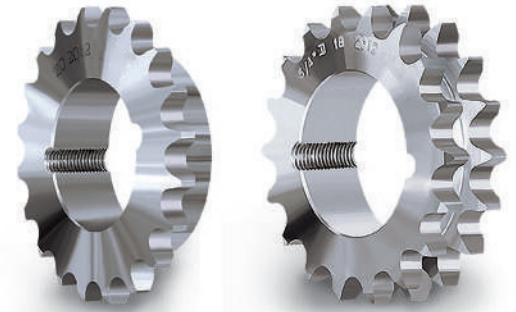
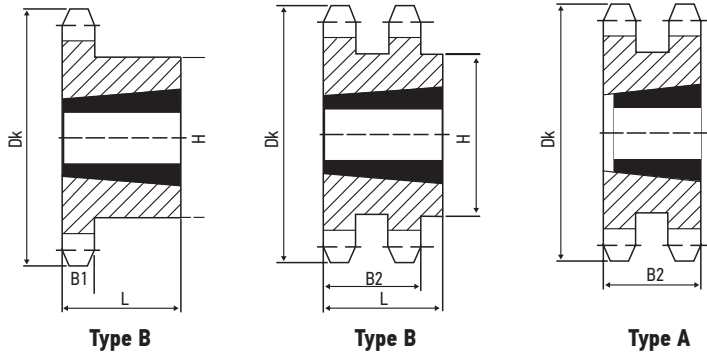
5/8" 10 B-1

Z	DK	TYPE	BUSH	H	L
12	68	B	1008	45	22
13	73	B	1008	47	22
14	78	B	1108	52	22
15	83	B	1210	60	25
16	88	B	1610	65	25
17	93	B	1610	70	25
18	98	B	1610	75	25
19	104	B	1610	75	25
20	108	B	1610	76	25
21	114	B	1610	76	25
22	119	B	1610	76	25
23	124	B	1610	76	25
24	129	B	2012	90	32
25	134	B	2012	90	32
26	139	B	2012	90	32
27	144	B	2012	90	32
28	149	B	2012	90	32
30	159	B	2012	90	32
32	169	B	2012	90	32
34	179	B	2012	90	32
35	184	B	2012	90	32
36	189	B	2012	90	32
38	199	B	2012	90	32
40	209	B	2012	90	32
42	219	B	2012	100	32
45	234	B	2012	100	32
48	250	B	2012	100	32
50	260	B	2012	100	32
52	270	B	2012	100	32
54	280	B	2012	100	32
57	295	B	2012	100	32
60	310	B	2012	100	32
65	335	B	2012	100	32
70	361	B	2012	100	32
75	386	B	2012	100	32
80	411	B	2012	110	32
85	436	B	2012	110	32

5/8" 10 B-2

Z	DK	TYPE	BUSH	H	L
12	68	A	1008	----	25,5
13	73	A	1008	----	25,5
14	78	A	1108	----	25,5
15	83	A	1210	----	25,5
16	88	A	1610	----	25,5
17	93	A	1610	----	25,5
18	98	A	1610	----	25,5
19	104	A	1610	----	25,5
20	108	A	1610	----	25,5
21	114	A	1610	----	25,5
22	119	A	1610	----	25,5
23	124	A	1610	----	25,5
24	129	B	2012	90	32
25	134	B	2012	90	32
26	139	B	2012	90	32
27	144	B	2012	90	32
28	149	B	2012	90	32
30	159	B	2012	90	32
32	169	B	2012	90	32
34	179	B	2012	90	32
35	184	B	2012	90	32
36	189	B	2517	110	45
38	199	B	2517	110	45
40	209	B	2517	110	45
42	219	B	2517	110	45
45	234	B	2517	110	45
48	250	B	2517	110	45
50	260	B	2517	110	45
52	270	B	2517	110	45
54	280	B	2517	110	45
57	295	B	2517	110	45
60	310	B	2517	110	45
65	335	B	2517	110	45
70	361	B	2517	110	45
75	386	B	2517	110	45
80	411	B	2517	110	45
85	436	B	2517	110	45

3/4" 12 B (DIN 8187 ISO / R 606)



Pitch : 19.05 mm

B1: 11.1 mm B2: 30.3 mm

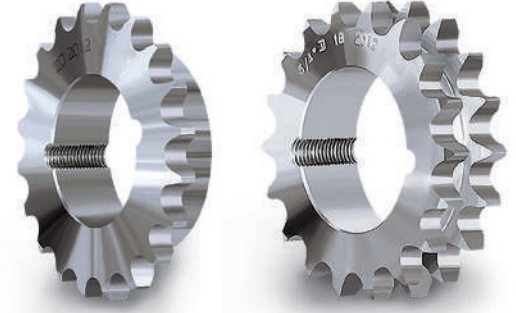
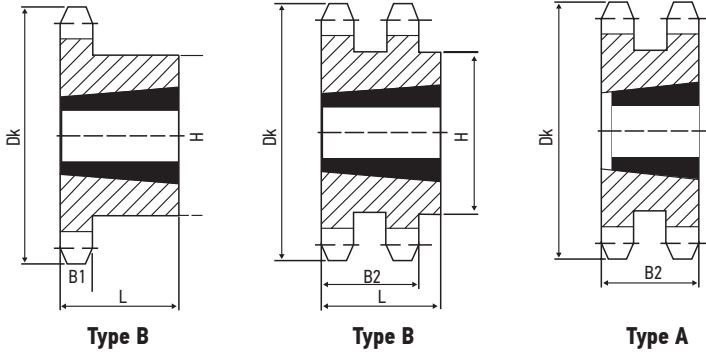
3/4" 12 B-1

Z	DK	TYPE	BUSH	H	L
11	76	B	1108	47	22
12	83	B	1108	52	22
13	88	B	1210	60	25
14	94	B	1610	70	25
15	100	B	1610	70	25
16	106	B	1610	75	25
17	113	B	1610	76	25
18	119	B	2012	90	32
19	124	B	2012	90	32
20	130,5	B	2012	95	32
21	136	B	2517	102	45
22	143	B	2517	102	45
23	149	B	2517	108	45
24	155	B	2517	108	45
25	161	B	2517	108	45
26	167	B	2517	108	45
27	173	B	2517	108	45
28	179	B	2517	108	45
30	191	B	2517	108	45
32	203	B	2517	108	45
34	215	B	2517	108	45
35	221	B	2517	108	45
36	228	B	2517	108	45
38	240	B	2517	108	45
40	252	B	2517	108	45
42	264	B	2517	108	45
45	282	B	2517	108	45
48	300	B	2517	108	45
50	312	B	2517	108	45
52	325	B	2517	108	45
54	337	B	2517	108	45
57	355	B	2517	108	45
60	374	B	2517	108	45
65	403	B	2517	108	45
70	433	B	2517	108	45
75	464	B	2517	108	45
80	494	B	2517	108	45
85	525	B	2517	108	45

3/4" 12 B-2

Z	DK	TYPE	BUSH	H	L
11	76	A	1210	----	30,3
12	83	A	1210	----	30,3
13	88	A	1210	----	30,3
14	94	A	1610	----	30,3
15	100	A	1610	----	30,3
16	106	A	1610	----	30,3
17	113	A	1610	----	30,3
18	119	B	2012	90	32
19	124	B	2012	90	32
20	130,5	B	2517	105	45
21	136	B	2517	108	45
22	143	B	2517	108	45
23	149	B	2517	108	45
24	155	B	2517	108	45
25	161	B	2517	108	45
26	167	B	2517	108	45
27	173	B	2517	108	45
28	179	B	2517	108	45
30	191	B	2517	108	45
32	203	B	2517	108	45
34	215	B	2517	108	45
35	221	B	2517	108	45
36	228	B	2517	108	45
38	240	B	3020	140	51
40	252	B	3020	140	51
42	264	B	3020	140	51
45	282	B	3020	140	51
48	300	B	3020	140	51
50	312	B	3020	140	51
52	325	B	3020	140	51
54	337	B	3020	140	51
57	355	B	3020	140	51
60	374	B	3020	140	51
65	403	B	3020	140	51
70	433	B	3020	140	51
75	464	B	3020	140	51
80	494	B	3020	140	51
85	525	B	3020	140	51

1" 16 B (DIN 8187 ISO / R 606)



Pitch : 25.4 mm

B1: 16.2 mm B2: 47.2 mm

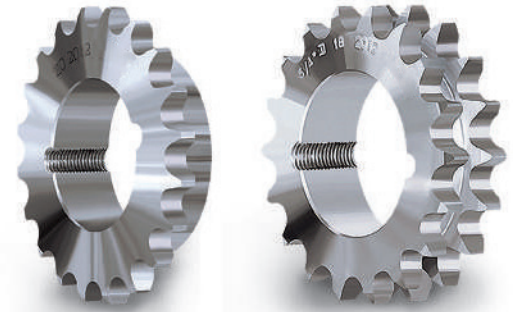
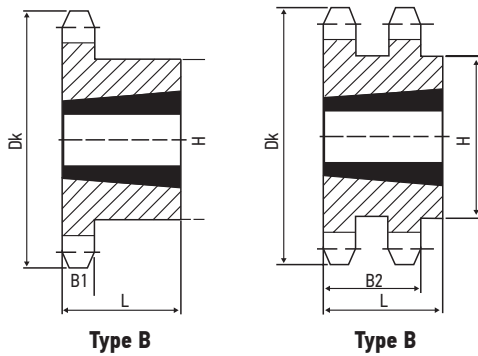
1" 16 B-1

Z	DK	TYPE	BUSH	H	L
10	94	B	1610	63	25
11	102	B	1610	63	25
12	110	B	1610	76	25
13	118	B	1610	78	25
14	126	B	1610	78	25
15	134	B	1610	78	25
16	142	B	2012	90	32
17	150,5	B	2012	90	32
18	158,5	B	2517	108	45
19	166,5	B	2517	108	45
20	174	B	2517	108	45
21	182	B	2517	108	45
22	190	B	2517	108	45
23	198	B	2517	108	45
24	207	B	2517	108	45
25	215	B	2517	108	45
26	223	B	2517	108	45
27	231	B	2517	108	45
28	239	B	2517	108	45
30	255	B	3020	140	51
32	271	B	3020	140	51
34	287	B	3020	140	51
35	295	B	3020	140	51
36	303	B	3020	140	51
38	320	B	3020	140	51
40	336	B	3020	140	51
42	352	B	3020	140	51
45	376	B	3020	140	51
48	400	B	3020	140	51
50	417	B	3020	140	51
52	433	B	3020	140	51
54	449	B	3020	140	51
57	473	B	3020	140	51
60	497	B	3020	140	51
65	538	B	3020	140	51
70	578	B	3020	140	51
75	619	B	3020	140	51
80	659	B	3020	140	51
85	699	B	3020	140	51

1" 16 B-2

Z	DK	TYPE	BUSH	H	L
10	94	A	1610	----	47,7
11	102	A	1610	----	47,7
12	110	A	1610	----	47,7
13	118	A	2012	----	47,7
14	126	A	2012	----	47,7
15	134	A	2517	----	47,7
16	142	A	2517	----	47,7
17	150,5	A	2517	----	47,7
18	158,5	A	2517	----	47,7
19	166,5	B	3020	140	51
20	174	B	3020	140	51
21	182	B	3020	140	51
22	190	B	3020	140	51
23	198	B	3020	140	51
24	207	B	3020	140	51
25	215	B	3020	140	51
26	223	B	3020	140	51
27	231	B	3020	140	51
28	239	B	3020	140	51
30	255	B	3020	140	51
32	271	B	3020	140	51
34	287	B	3020	140	51
35	295	B	3020	140	51
36	303	B	3020	140	51
38	320	B	3020	140	51
40	336	B	3020	140	51
42	352	B	3020	140	51
45	376	B	3525	175	63,5
48	400	B	3525	175	63,5
50	417	B	3525	175	63,5
52	433	B	3525	175	63,5
54	449	B	3525	175	63,5
57	473	B	3525	175	63,5
60	497	B	3525	175	63,5
65	538	B	3525	175	63,5
70	578	B	3525	175	63,5
75	619	B	3525	175	63,5
80	659	B	3525	175	63,5
85	699	B	3525	175	63,5

1" 1/4 B (DIN 8187 ISO / R 606)



Pitch : 31.75 mm

B1: 18.6 mm

B2: 54.6 mm

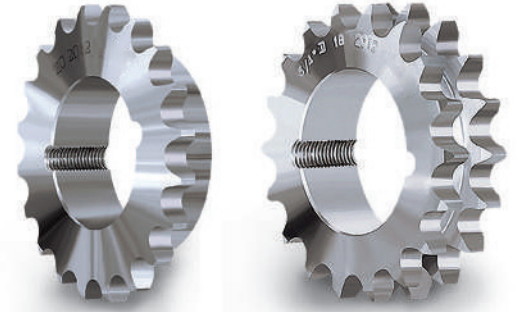
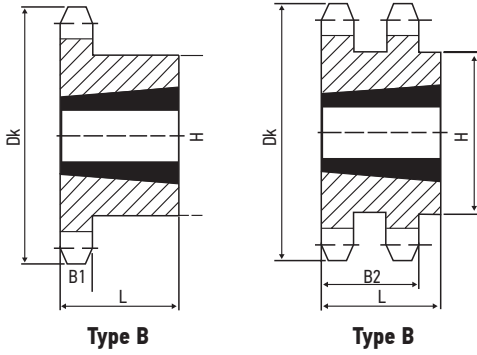
1" 1/4 20 B-1

Z	DK	TYPE	BUSH	H	L
11	127	B	1615	63	38
12	137	B	1615	70	38
13	147	B	2012	90	32
14	157	B	2012	90	32
15	167	B	2517	108	45
16	177	B	2517	108	45
17	187	B	2517	108	45
18	197	B	2517	108	45
19	207	B	2517	108	45
20	217	B	2517	108	45
21	227	B	2517	108	45
22	237	B	2517	108	45
23	247	B	2517	108	45
24	257	B	2517	108	45
25	267	B	2517	108	45
26	277	B	2517	108	45
27	288	B	2517	108	45
28	298	B	3020	150	51
30	318	B	3020	150	51
32	338	B	3020	150	51
34	358	B	3020	150	51
35	368	B	3020	150	51
36	378	B	3020	150	51
38	399	B	3020	150	51
40	419	B	3020	150	51
42	439	B	3020	160	51
45	469	B	3020	160	51
48	499	B	3020	160	51
50	520	B	3020	160	51
52	540	B	3020	160	51
54	560	B	3020	160	51
57	590	B	3020	160	51
60	621	B	3020	160	51
65	671	B	3020	160	51
70	722	B	3535	170	89
75	772	B	3535	170	89
80	823	B	3535	170	89
85	873	B	3535	170	89

1" 1/4 20 B-2

Z	DK	TYPE	BUSH	H	L
11	127	A	1615	----	54,6
12	137	A	1615	----	54,6
13	147	A	2012	----	54,6
14	157	A	2012	----	54,6
15	167	A	2517	----	54,6
16	177	A	2517	----	54,6
17	187	A	2517	----	54,6
18	197	A	2517	----	54,6
19	207	A	2517	----	54,6
20	217	A	2517	----	54,6
21	227	A	2517	----	54,6
22	237	A	2517	----	54,6
23	247	A	2517	----	54,6
24	257	A	2517	----	54,6
25	267	A	2517	----	54,6
26	277	A	2517	----	54,6
27	288	A	2517	----	54,6
28	298	A	3020	----	54,6
30	318	A	3020	----	54,6
32	338	A	3020	----	54,6
34	358	A	3020	----	54,6
35	368	A	3020	----	54,6
36	378	A	3020	----	54,6
38	399	A	3020	----	54,6
40	419	A	3020	----	54,6
42	439	A	3020	----	54,6
45	469	A	3020	----	54,6
48	499	A	3020	----	54,6
50	520	A	3020	----	54,6
52	540	A	3020	----	54,6
54	560	A	3020	----	54,6
57	590	A	3020	----	54,6
60	621	A	3020	----	54,6
65	671	A	3020	----	54,6
70	722	B	3535	180	89
75	772	B	3535	180	89
80	823	B	3535	180	89
85	873	B	3535	180	89

1" 1/2 B (DIN 8187 ISO / R 606)



Pitch : 38.1mm

B1: 24.1 mm

B2: 72 mm

1" 1/2 24 B-1

Z	DK	TYPE	BUSH	H	L
11	149	B	2012	92	32
12	161	B	2012	92	32
13	173	B	2517	108	45
14	185	B	2517	108	45
15	197	B	2517	108	45
16	209	B	3020	140	51
17	221	B	3020	140	51
18	233	B	3020	140	51
19	246	B	3020	140	51
20	258	B	3020	140	51
21	270	B	3020	140	51
22	282	B	3020	140	51
23	294	B	3020	140	51
24	306	B	3020	140	51
25	318	B	3020	140	51
26	330	B	3020	140	51
27	342	B	3020	140	51
28	354	B	3020	140	51
30	379	B	3020	140	51
32	403	B	3020	140	51
34	427	B	3020	140	51
35	439	B	3020	140	51
36	451	B	3020	140	51
38	475	B	3030	140	76
40	500	B	3030	140	76
42	524	B	3030	140	76
45	560	B	3030	140	76
48	597	B	3030	140	76
50	621	B	3030	140	76
52	645	B	3030	140	76
54	669	B	3535	170	89
57	706	B	3535	170	89
60	742	B	3535	170	89
65	803	B	3535	170	89
70	863	B	3535	170	89
75	924	B	3535	170	89
80	985	B	3535	170	89
85	1045	B	3535	170	89

1" 1/2 24 B-2

Z	DK	TYPE	BUSH	H	L
11	149	A	2012	----	72
12	161	A	2012	----	72
13	173	A	2517	----	72
14	185	A	2517	----	72
15	197	A	2517	----	72
16	209	A	3020	----	72
17	221	A	3020	----	72
18	233	A	3020	----	72
19	246	A	3020	----	72
20	258	A	3020	----	72
21	270	A	3020	----	72
22	282	A	3020	----	72
23	294	A	3020	----	72
24	306	A	3020	----	72
25	318	A	3020	----	72
26	330	A	3020	----	72
27	342	A	3020	----	72
28	354	A	3020	----	72
30	379	A	3020	----	72
32	403	B	3020	140	72
34	427	B	3020	140	72
35	439	B	3020	140	72
36	451	B	3020	140	72
38	475	B	3030	140	76
40	500	B	3030	140	76
42	524	B	3030	140	76
45	560	B	3030	140	76
48	597	B	3030	140	76
50	621	B	3030	140	76
52	645	B	3030	140	76
54	669	B	3535	170	76
57	706	B	3535	170	76
60	742	B	3535	170	76
65	803	B	3535	170	76
70	863	B	3535	170	76
75	924	B	3535	170	76
80	985	B	3535	170	76
85	1045	B	3535	170	76

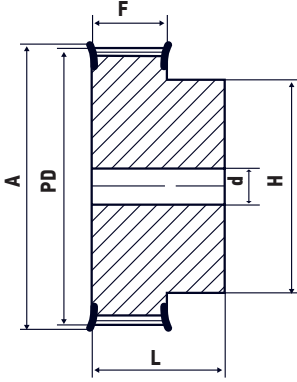
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TIMING GEAR

XL (SERIAL) (Withworth Pitch / Reference Hole)



XL-037

Pitch: 5,08 mm

Belt Width: 9,40 mm

CODE	PD
XL 037-10F	16,17
XL 037-11F	17,79
XL 037-12F	19,40
XL 037-13F	21,02
XL 037-14F	22,64
XL 037-15F	24,26
XL 037-16F	25,87
XL 037-17F	27,49
XL 037-18F	29,11
XL 037-19F	30,72
XL 037-20F	32,34
XL 037-21F	33,96
XL 037-22F	35,57
XL 037-23F	37,18
XL 037-24F	38,81
XL 037-25F	40,44

CODE	PD
XL 037 - 26 F	42,04
XL 037 - 27 F	43,66
XL 037 - 28 F	45,28
XL 037 - 29 F	46,89
XL 037 - 30 F	48,51
XL 037 - 31 F	50,12
XL 037 - 32 F	51,74
XL 037 - 33 F	53,36
XL 037 - 34	54,98
XL 037 - 35	56,60
XL 037 - 36	58,21
XL 037 - 38	61,45
XL 037 - 40	64,68
XL 037 - 42	67,91
XL 037 - 44	71,15
XL 037 - 45	72,77

CODE	PD
XL 037 - 46	74,42
XL 037 - 48	77,62
XL 037 - 50	80,83
XL 037 - 52	84,12
XL 037 - 54	87,31
XL 037 - 56	90,59
XL 037 - 58	93,83
XL 037 - 60	97,02
XL 037 - 64	103,48
XL 037 - 65	105,10
XL 037 - 68	110,01
XL 037 - 72	116,43
XL 037 - 78	126,12
XL 037 - 84	135,82
XL 037 - 90	145,52
XL 037 - 96	155,23

XL-037 AL

Pitch: 5,08 mm

Belt Width: 9,40 mm

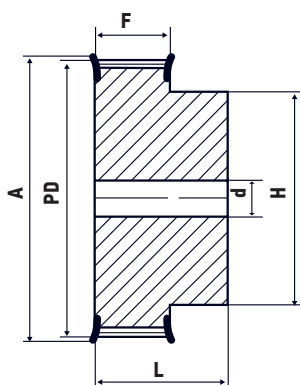
AL: Aluminum

CODE	PD
XL 037-10F - AL	16,17
XL 037-11F - AL	17,79
XL 037-12F - AL	19,40
XL 037-13F - AL	21,02
XL 037-14F - AL	22,64
XL 037-15F - AL	24,26
XL 037-16F - AL	25,87
XL 037-17F - AL	27,49
XL 037-18F - AL	29,11
XL 037-19F - AL	30,72
XL 037-20F - AL	32,34
XL 037-21F - AL	33,96
XL 037-22F - AL	35,57
XL 037-23F - AL	37,18
XL 037-24F - AL	38,81
XL 037-25F - AL	40,44

CODE	PD
XL 037-26F - AL	42,04
XL 037-27F - AL	43,66
XL 037-28F - AL	45,28
XL 037-29F - AL	46,89
XL 037-30F - AL	48,51
XL 037-31F - AL	50,12
XL 037-32F - AL	51,74
XL 037-33F - AL	53,36
XL 037-34 AL	54,98
XL 037-35 AL	56,60
XL 037-36 AL	58,21
XL 037-38 AL	61,45
XL 037-40 AL	64,68
XL 037-42 AL	67,91
XL 037-44 AL	71,15
XL 037-45 AL	72,77

CODE	PD
XL 037 - 46 AL	74,42
XL 037 - 48 AL	77,62
XL 037 - 50 AL	80,83
XL 037 - 52 AL	84,12
XL 037 - 54 AL	87,31
XL 037 - 56 AL	90,59
XL 037 - 58 AL	93,83
XL 037 - 60 AL	97,02
XL 037 - 64 AL	103,48
XL 037 - 65 AL	105,10
XL 037 - 68 AL	110,01
XL 037 - 72 AL	116,43
XL 037 - 78 AL	126,12
XL 037 - 84 AL	135,82
XL 037 - 90 AL	145,52
XL 037 - 96 AL	155,23

L (SERIAL) (Withworth Pitch / Reference Hole)



L-050

Pitch: 9,525 mm

Belt Width: 12,70 mm

CODE	PD
L 050 - 10 F	30,32
L 050 - 11 F	33,35
L 050 - 12 F	36,38
L 050 - 13 F	39,41
L 050 - 14 F	42,45
L 050 - 15 F	45,48
L 050 - 16 F	48,51
L 050 - 17 F	51,54
L 050 - 18 F	54,57
L 050 - 19 F	57,61
L 050 - 20 F	60,64
L 050 - 21 F	63,67
L 050 - 22 F	66,70
L 050 - 23 F	69,73
L 050 - 24 F	72,77
L 050 - 25 F	75,81

CODE	PD
L 050 - 26 F	78,83
L 050 - 27 F	81,86
L 050 - 28 F	84,89
L 050 - 29 F	87,93
L 050 - 30 F	90,96
L 050 - 31 F	93,99
L 050 - 32 F	97,02
L 050 - 33 F	100,05
L 050 - 34 F	103,08
L 050 - 35 F	106,12
L 050 - 36 F	109,15
L 050 - 38 F	115,27
L 050 - 40 F	121,28
L 050 - 42 F	127,34
L 050 - 44 F	133,41
L 050 - 45 F	136,44

CODE	PD
L 050 - 46 F	139,46
L 050 - 48 F	145,53
L 050 - 50	151,61
L 050 - 52	157,66
L 050 - 54	163,71
L 050 - 56	169,79
L 050 - 58	175,84
L 050 - 60	182,01
L 050 - 64	194,14
L 050 - 65	197,17
L 050 - 68	206,27
L 050 - 72	218,31
L 050 - 78	236,48
L 050 - 84	254,68
L 050 - 90	273,01
L 050 - 96	291,06

L-075

Pitch: 9,525 mm

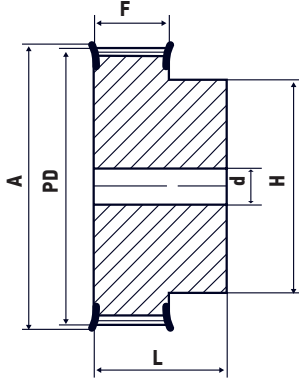
Belt Width: 19,05 mm

CODE	PD
L 075 - 10 F	30,32
L 075 - 11 F	33,35
L 075 - 12 F	36,38
L 075 - 13 F	39,41
L 075 - 14 F	42,45
L 075 - 15 F	45,48
L 075 - 16 F	48,51
L 075 - 17 F	51,54
L 075 - 18 F	54,57
L 075 - 19 F	57,61
L 075 - 20 F	60,64
L 075 - 21 F	63,67
L 075 - 22 F	66,70
L 075 - 23 F	69,73
L 075 - 24 F	72,77
L 075 - 25 F	75,81

CODE	PD
L 075 - 26 F	78,83
L 075 - 27 F	81,86
L 075 - 28 F	84,89
L 075 - 29 F	87,93
L 075 - 30 F	90,96
L 075 - 31 F	93,99
L 075 - 32 F	97,02
L 075 - 33 F	100,05
L 075 - 34 F	103,08
L 075 - 35 F	106,12
L 075 - 36 F	109,15
L 075 - 38 F	115,27
L 075 - 40 F	121,28
L 075 - 42 F	127,34
L 075 - 44 F	133,41
L 075 - 45 F	136,44

CODE	PD
L 075 - 46 F	139,46
L 075 - 48 F	145,53
L 075 - 50	151,61
L 075 - 52	157,66
L 075 - 54	163,71
L 075 - 56	169,79
L 075 - 58	175,84
L 075 - 60	182,01
L 075 - 64	194,14
L 075 - 65	197,17
L 075 - 68	206,27
L 075 - 72	218,31
L 075 - 78	236,48
L 075 - 84	254,68
L 075 - 90	273,01
L 075 - 96	291,06

L (SERIAL) (Withworth Pitch / Reference Hole)



L-100

Pitch: 9,525 mm

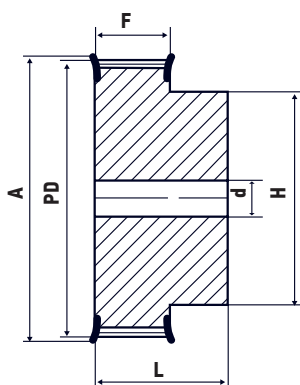
Belt Width: 25,40 mm

CODE	PD
L 100 - 10 F	30,32
L 100 - 11 F	33,35
L 100 - 12 F	36,38
L 100 - 13 F	39,41
L 100 - 14 F	42,45
L 100 - 15 F	45,48
L 100 - 16 F	48,51
L 100 - 17 F	51,54
L 100 - 18 F	54,57
L 100 - 19 F	57,61
L 100 - 20 F	60,64
L 100 - 21 F	63,67
L 100 - 22 F	66,70
L 100 - 23 F	69,73
L 100 - 24 F	72,77
L 100 - 25 F	75,81

CODE	PD
L 100 - 26 F	78,83
L 100 - 27 F	81,86
L 100 - 28 F	84,89
L 100 - 29 F	87,93
L 100 - 30 F	90,96
L 100 - 31 F	93,99
L 100 - 32 F	97,02
L 100 - 33 F	100,05
L 100 - 34 F	103,08
L 100 - 35 F	106,12
L 100 - 36 F	109,15
L 100 - 38 F	115,27
L 100 - 40 F	121,28
L 100 - 42 F	127,34
L 100 - 44 F	133,41
L 100 - 45 F	136,44

CODE	PD
L 100 - 46 F	139,46
L 100 - 48 F	145,53
L 100 - 50	151,61
L 100 - 52	157,66
L 100 - 54	163,71
L 100 - 56	169,79
L 100 - 58	175,84
L 100 - 60	182,01
L 100 - 64	194,14
L 100 - 65	197,17
L 100 - 68	206,27
L 100 - 72	218,31
L 100 - 78	236,48
L 100 - 84	254,68
L 100 - 90	273,01
L 100 - 96	291,06

H (SERIAL) (Withworth Pitch / Reference Hole)



H-075

Pitch: 12,70 mm

Belt Width: 19,05 mm

CODE	PD
H 075 - 10 F	40,42
H 075 - 11 F	44,46
H 075 - 12 F	48,51
H 075 - 13 F	52,55
H 075 - 14 F	56,61
H 075 - 15 F	60,64
H 075 - 16 F	64,67
H 075 - 17 F	68,72
H 075 - 18 F	72,77
H 075 - 19 F	76,81
H 075 - 20 F	80,85
H 075 - 21 F	84,89
H 075 - 22 F	88,94
H 075 - 23 F	92,98
H 075 - 24 F	97,03
H 075 - 25 F	101,06

CODE	PD
H 075 - 26 F	105,11
H 075 - 27 F	109,15
H 075 - 28 F	113,18
H 075 - 29 F	117,23
H 075 - 30 F	121,29
H 075 - 31 F	125,31
H 075 - 32 F	129,36
H 075 - 33 F	133,40
H 075 - 34 F	137,45
H 075 - 35 F	141,49
H 075 - 36 F	145,53
H 075 - 38 F	153,62
H 075 - 40 F	161,70
H 075 - 42 F	169,79
H 075 - 44 F	177,87
H 075 - 45 F	181,91

CODE	PD
H 075 - 46 F	185,95
H 075 - 48 F	194,03
H 075 - 50	202,13
H 075 - 52	210,21
H 075 - 54	218,29
H 075 - 56	226,37
H 075 - 58	234,47
H 075 - 60	242,55
H 075 - 64	258,71
H 075 - 65	262,76
H 075 - 68	275,03
H 075 - 72	291,06
H 075 - 78	315,30
H 075 - 84	339,57
H 075 - 90	363,81
H 075 - 96	388,08

H-100

Pitch: 12,70 mm

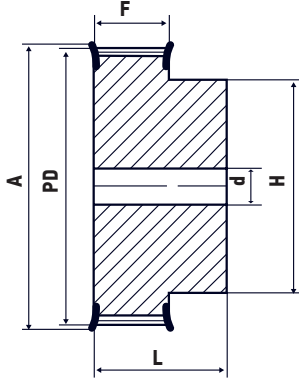
Belt Width: 25,40 mm

CODE	PD
H 100 - 10 F	40,42
H 100 - 11 F	44,46
H 100 - 12 F	48,51
H 100 - 13 F	52,55
H 100 - 14 F	56,61
H 100 - 15 F	60,64
H 100 - 16 F	64,67
H 100 - 17 F	68,72
H 100 - 18 F	72,77
H 100 - 19 F	76,81
H 100 - 20 F	80,85
H 100 - 21 F	84,89
H 100 - 22 F	88,94
H 100 - 23 F	92,98
H 100 - 24 F	97,03
H 100 - 25 F	101,06

CODE	PD
H 100 - 26 F	105,11
H 100 - 27 F	109,15
H 100 - 28 F	113,18
H 100 - 29 F	117,23
H 100 - 30 F	121,29
H 100 - 31 F	125,31
H 100 - 32 F	129,36
H 100 - 33 F	133,40
H 100 - 34 F	137,45
H 100 - 35 F	141,49
H 100 - 36 F	145,53
H 100 - 38 F	153,62
H 100 - 40 F	161,70
H 100 - 42 F	169,79
H 100 - 44 F	177,87
H 100 - 45 F	181,91

CODE	PD
H 100 - 46 F	185,95
H 100 - 48 F	194,03
H 100 - 50	202,13
H 100 - 52	210,21
H 100 - 54	218,29
H 100 - 56	226,37
H 100 - 58	234,47
H 100 - 60	242,55
H 100 - 64	258,71
H 100 - 65	262,76
H 100 - 68	275,03
H 100 - 72	291,06
H 100 - 78	315,30
H 100 - 84	339,57
H 100 - 90	363,81
H 100 - 96	388,08

H (SERIAL) (Withworth Pitch / Reference Hole)



H-150

Pitch: 12,70 mm

Belt Width: 38,10 mm

CODE	PD
H 150 - 10 F	40,42
H 150 - 11 F	44,46
H 150 - 12 F	48,51
H 150 - 13 F	52,55
H 150 - 14 F	56,61
H 150 - 15 F	60,64
H 150 - 16 F	64,67
H 150 - 17 F	68,72
H 150 - 18 F	72,77
H 150 - 19 F	76,81
H 150 - 20 F	80,85
H 150 - 21 F	84,89
H 150 - 22 F	88,94
H 150 - 23 F	92,98
H 150 - 24 F	97,03
H 150 - 25 F	101,06

CODE	PD
H 150 - 26 F	105,11
H 150 - 27 F	109,15
H 150 - 28 F	113,18
H 150 - 29 F	117,23
H 150 - 30 F	121,29
H 150 - 31 F	125,31
H 150 - 32 F	129,36
H 150 - 33 F	133,40
H 150 - 34 F	137,45
H 150 - 35 F	141,49
H 150 - 36 F	145,53
H 150 - 38 F	153,62
H 150 - 40 F	161,70
H 150 - 42 F	169,79
H 150 - 44 F	177,87
H 150 - 45 F	181,91

CODE	PD
H 150 - 46 F	185,95
H 150 - 48 F	194,03
H 150 - 50	202,13
H 150 - 52	210,21
H 150 - 54	218,29
H 150 - 56	226,37
H 150 - 58	234,47
H 150 - 60	242,55
H 150 - 64	258,71
H 150 - 65	262,76
H 150 - 68	275,03
H 150 - 72	291,06
H 150 - 78	315,30
H 150 - 84	339,57
H 150 - 90	363,81
H 150 - 96	388,08

H-200

Pitch: 12,70 mm

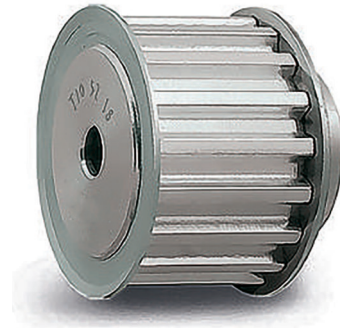
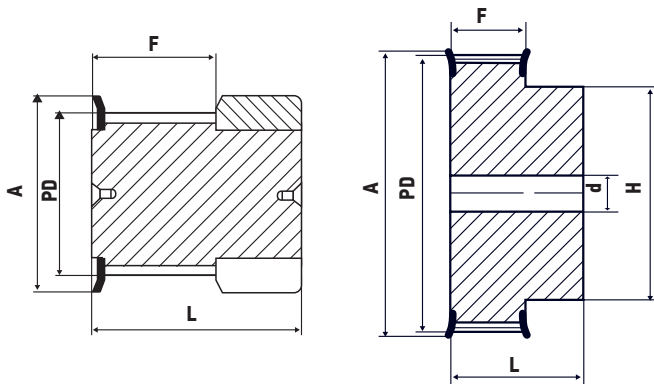
Belt Width: 50,08 mm

CODE	PD
H 200 - 10 F	40,42
H 200 - 11 F	44,46
H 200 - 12 F	48,51
H 200 - 13 F	52,55
H 200 - 14 F	56,61
H 200 - 15 F	60,64
H 200 - 16 F	64,67
H 200 - 17 F	68,72
H 200 - 18 F	72,77
H 200 - 19 F	76,81
H 200 - 20 F	80,85
H 200 - 21 F	84,89
H 200 - 22 F	88,94
H 200 - 23 F	92,98
H 200 - 24 F	97,03
H 200 - 25 F	101,06

CODE	PD
H 200 - 26 F	105,11
H 200 - 27 F	109,15
H 200 - 28 F	113,18
H 200 - 29 F	117,23
H 200 - 30 F	121,29
H 200 - 31 F	125,31
H 200 - 32 F	129,36
H 200 - 33 F	133,40
H 200 - 34 F	137,45
H 200 - 35 F	141,49
H 200 - 36 F	145,53
H 200 - 38 F	153,62
H 200 - 40 F	161,70
H 200 - 42 F	169,79
H 200 - 44 F	177,87
H 200 - 45 F	181,91

CODE	PD
H 200 - 46 F	185,95
H 200 - 48 F	194,03
H 200 - 50	202,13
H 200 - 52	210,21
H 200 - 54	218,29
H 200 - 56	226,37
H 200 - 58	234,47
H 200 - 60	242,55
H 200 - 64	258,71
H 200 - 65	262,76
H 200 - 68	275,03
H 200 - 72	291,06
H 200 - 78	315,30
H 200 - 84	339,57
H 200 - 90	363,81
H 200 - 96	388,08

3M (SERIAL) AL:ALUMINUM (Metric Pitch / Reference Hole)



3M-06 AL

Pitch: 3 mm
Belt Width: 6 mm

CODE	PD
3M 06 - 10 F - AL	9,55
3M 06 - 11 F - AL	10,50
3M 06 - 12 F - AL	11,46
3M 06 - 13 F - AL	12,41
3M 06 - 14 F - AL	13,37
3M 06 - 15 F - AL	14,32
3M 06 - 16 F - AL	15,28
3M 06 - 17 F - AL	16,23
3M 06 - 18 F - AL	17,19
3M 06 - 19 F - AL	18,14
3M 06 - 20 F - AL	19,10
3M 06 - 21 F - AL	20,05
3M 06 - 22 F - AL	21,01
3M 06 - 23 F - AL	21,96
3M 06 - 24 F - AL	22,92
3M 06 - 25 F - AL	23,87
3M 06 - 26 F - AL	24,83
3M 06 - 27 F - AL	25,78
3M 06 - 28 F - AL	26,74
3M 06 - 29 F - AL	27,69
3M 06 - 30 F - AL	28,65
3M 06 - 32 F - AL	30,56
3M 06 - 34 F - AL	32,46
3M 06 - 36 F - AL	34,38
3M 06 - 38 F - AL	36,28
3M 06 - 40 F - AL	38,20
3M 06 - 42 F - AL	40,10
3M 06 - 44 F - AL	42,02
3M 06 - 46 F - AL	43,92
3M 06 - 48 F - AL	45,84
3M 06 - 50 AL	47,74
3M 06 - 52 AL	49,65
3M 06 - 54 AL	51,56
3M 06 - 56 AL	53,47
3M 06 - 58 AL	55,38
3M 06 - 60 AL	57,30
3M 06 - 64 AL	61,12
3M 06 - 68 AL	64,94
3M 06 - 72 AL	68,75
3M 06 - 84 AL	80,21
3M 06 - 96 AL	91,67

3M-9 AL

Pitch: 3 mm
Belt Width: 9 mm

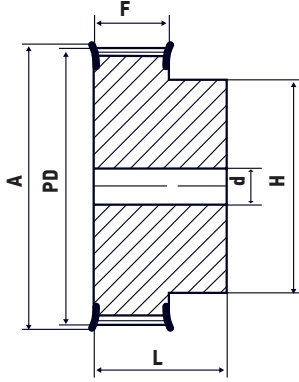
CODE	PD
3M 09 - 10 F - AL	9,55
3M 09 - 11 F - AL	10,50
3M 09 - 12 F - AL	11,46
3M 09 - 13 F - AL	12,41
3M 09 - 14 F - AL	13,37
3M 09 - 15 F - AL	14,32
3M 09 - 16 F - AL	15,28
3M 09 - 17 F - AL	16,23
3M 09 - 18 F - AL	17,19
3M 09 - 19 F - AL	18,14
3M 09 - 20 F - AL	19,10
3M 09 - 21 F - AL	20,05
3M 09 - 22 F - AL	21,01
3M 09 - 23 F - AL	21,96
3M 09 - 24 F - AL	22,92
3M 09 - 25 F - AL	23,87
3M 09 - 26 F - AL	24,83
3M 09 - 27 F - AL	25,78
3M 09 - 28 F - AL	26,74
3M 09 - 29 F - AL	27,69
3M 09 - 30 F - AL	28,65
3M 09 - 32 F - AL	30,56
3M 09 - 34 F - AL	32,46
3M 09 - 36 F - AL	34,38
3M 09 - 38 F - AL	36,28
3M 09 - 40 F - AL	38,20
3M 09 - 42 F - AL	40,10
3M 09 - 44 F - AL	42,02
3M 09 - 46 F - AL	43,92
3M 09 - 48 F - AL	45,84
3M 09 - 50 AL	47,74
3M 09 - 52 AL	49,65
3M 09 - 54 AL	51,56
3M 09 - 56 AL	53,47
3M 09 - 58 AL	55,38
3M 09 - 60 AL	57,30
3M 09 - 64 AL	61,12
3M 09 - 68 AL	64,94
3M 09 - 72 AL	68,75
3M 09 - 84 AL	80,21
3M 09 - 96 AL	91,67

3M-15 AL

Pitch: 3 mm
Belt Width: 15 mm

CODE	PD
3M 15 - 10 F - AL	9,55
3M 15 - 11 F - AL	10,50
3M 15 - 12 F - AL	11,46
3M 15 - 13 F - AL	12,41
3M 15 - 14 F - AL	13,37
3M 15 - 15 F - AL	14,32
3M 15 - 16 F - AL	15,28
3M 15 - 17 F - AL	16,23
3M 15 - 18 F - AL	17,19
3M 15 - 19 F - AL	18,14
3M 15 - 20 F - AL	19,10
3M 15 - 21 F - AL	20,05
3M 15 - 22 F - AL	21,01
3M 15 - 23 F - AL	21,96
3M 15 - 24 F - AL	22,92
3M 15 - 25 F - AL	23,87
3M 15 - 26 F - AL	24,83
3M 15 - 27 F - AL	25,78
3M 15 - 28 F - AL	26,74
3M 15 - 29 F - AL	27,69
3M 15 - 30 F - AL	28,65
3M 15 - 32 F - AL	30,56
3M 15 - 34 F - AL	32,46
3M 15 - 36 F - AL	34,38
3M 15 - 38 F - AL	36,28
3M 15 - 40 F - AL	38,20
3M 15 - 42 F - AL	40,10
3M 15 - 44 F - AL	42,02
3M 15 - 46 F - AL	43,92
3M 15 - 48 F - AL	45,84
3M 15 - 50 AL	47,74
3M 15 - 52 AL	49,65
3M 15 - 54 AL	51,56
3M 15 - 56 AL	53,47
3M 15 - 58 AL	55,38
3M 15 - 60 AL	57,30
3M 15 - 64 AL	61,12
3M 15 - 68 AL	64,94
3M 15 - 72 AL	68,75
3M 15 - 84 AL	80,21
3M 15 - 96 AL	91,67

5M (SERIAL) AL:ALUMINUM (Metric Pitch / Reference Hole)



5M-09 AL

Pitch: 5 mm
Belt Width: 9 mm

CODE	PD
5M 09 - 12 F - AL	19,10
5M 09 - 13 F - AL	20,69
5M 09 - 14 F - AL	22,28
5M 09 - 15 F - AL	23,87
5M 09 - 16 F - AL	25,46
5M 09 - 17 F - AL	27,05
5M 09 - 18 F - AL	28,65
5M 09 - 19 F - AL	30,24
5M 09 - 20 F - AL	31,83
5M 09 - 21 F - AL	33,42
5M 09 - 22 F - AL	35,01
5M 09 - 23 F - AL	36,60
5M 09 - 24 F - AL	38,20
5M 09 - 25 F - AL	39,78
5M 09 - 26 F - AL	41,38
5M 09 - 27 F - AL	42,97
5M 09 - 28 F - AL	44,56
5M 09 - 29 F - AL	46,15
5M 09 - 30 F - AL	47,75
5M 09 - 32 F - AL	50,93
5M 09 - 34 F - AL	54,11
5M 09 - 36 F - AL	57,29
5M 09 - 38 F - AL	60,47
5M 09 - 40 F - AL	63,66
5M 09 - 42 F - AL	66,84
5M 09 - 44 AL	70,03
5M 09 - 46 AL	73,20
5M 09 - 48 AL	76,39
5M 09 - 50 AL	79,57
5M 09 - 52 AL	82,75
5M 09 - 54 AL	85,94
5M 09 - 56 AL	89,12
5M 09 - 58 AL	92,30
5M 09 - 60 AL	95,49
5M 09 - 64 AL	101,85
5M 09 - 68 AL	108,22
5M 09 - 72 AL	114,59
5M 09 - 78 AL	124,14
5M 09 - 84 AL	133,68
5M 09 - 90 AL	143,24
5M 09 - 96 AL	152,78

5M-15 AL

Pitch: 5 mm
Belt Width: 15 mm

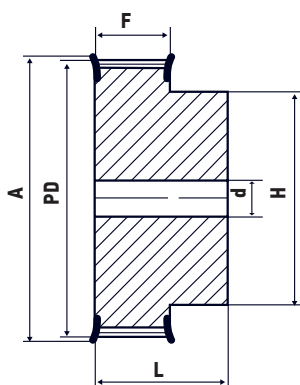
CODE	PD
5M 15 - 12 F - AL	19,10
5M 15 - 13 F - AL	20,69
5M 15 - 14 F - AL	22,28
5M 15 - 15 F - AL	23,87
5M 15 - 16 F - AL	25,46
5M 15 - 17 F - AL	27,05
5M 15 - 18 F - AL	28,65
5M 15 - 19 F - AL	30,24
5M 15 - 20 F - AL	31,83
5M 15 - 21 F - AL	33,42
5M 15 - 22 F - AL	35,01
5M 15 - 23 F - AL	36,60
5M 15 - 24 F - AL	38,20
5M 15 - 25 F - AL	39,78
5M 15 - 26 F - AL	41,38
5M 15 - 27 F - AL	42,97
5M 15 - 28 F - AL	44,56
5M 15 - 29 F - AL	46,15
5M 15 - 30 F - AL	47,75
5M 15 - 32 F - AL	50,93
5M 15 - 34 F - AL	54,11
5M 15 - 36 F - AL	57,29
5M 15 - 38 F - AL	60,47
5M 15 - 40 F - AL	63,66
5M 15 - 42 F - AL	66,84
5M 15 - 44 AL	70,03
5M 15 - 46 AL	73,20
5M 15 - 48 AL	76,39
5M 15 - 50 AL	79,57
5M 15 - 52 AL	82,75
5M 15 - 54 AL	85,94
5M 15 - 56 AL	89,12
5M 15 - 58 AL	92,30
5M 15 - 60 AL	95,49
5M 15 - 64 AL	101,85
5M 15 - 68 AL	108,22
5M 15 - 72 AL	114,59
5M 15 - 78 AL	124,14
5M 15 - 84 AL	133,68
5M 15 - 90 AL	143,24
5M 15 - 96 AL	152,78

5M-25 AL

Pitch: 5 mm
Belt Width: 25 mm

CODE	PD
5M 25 - 12 F - AL	19,10
5M 25 - 13 F - AL	20,69
5M 25 - 14 F - AL	22,28
5M 25 - 15 F - AL	23,87
5M 25 - 16 F - AL	25,46
5M 25 - 17 F - AL	27,05
5M 25 - 18 F - AL	28,65
5M 25 - 19 F - AL	30,24
5M 25 - 20 F - AL	31,83
5M 25 - 21 F - AL	33,42
5M 25 - 22 F - AL	35,01
5M 25 - 23 F - AL	36,60
5M 25 - 24 F - AL	38,20
5M 25 - 25 F - AL	39,78
5M 25 - 26 F - AL	41,38
5M 25 - 27 F - AL	42,97
5M 25 - 28 F - AL	44,56
5M 25 - 29 F - AL	46,15
5M 25 - 30 F - AL	47,75
5M 25 - 32 F - AL	50,93
5M 25 - 34 F - AL	54,11
5M 25 - 36 F - AL	57,29
5M 25 - 38 F - AL	60,47
5M 25 - 40 F - AL	63,66
5M 25 - 42 F - AL	66,84
5M 25 - 44 AL	70,03
5M 25 - 46 AL	73,20
5M 25 - 48 AL	76,39
5M 25 - 50 AL	79,57
5M 25 - 52 AL	82,75
5M 25 - 54 AL	85,94
5M 25 - 56 AL	89,12
5M 25 - 58 AL	92,30
5M 25 - 60 AL	95,49
5M 25 - 64 AL	101,85
5M 25 - 68 AL	108,22
5M 25 - 72 AL	114,59
5M 25 - 78 AL	124,14
5M 25 - 84 AL	133,68
5M 25 - 90 AL	143,24
5M 25 - 96 AL	152,78

5M (SERIAL) (Metric Pitch HTD / Reference Hole)



5M-09

Pitch: 5 mm
Belt Width: 9 mm

CODE	PD
5M 09 - 12 F	19,10
5M 09 - 13 F	20,69
5M 09 - 14 F	22,28
5M 09 - 15 F	23,87
5M 09 - 16 F	25,46
5M 09 - 17 F	27,05
5M 09 - 18 F	28,65
5M 09 - 19 F	30,24
5M 09 - 20 F	31,83
5M 09 - 21 F	33,42
5M 09 - 22 F	35,01
5M 09 - 23 F	36,60
5M 09 - 24 F	38,20
5M 09 - 25 F	39,78
5M 09 - 26 F	41,38
5M 09 - 27 F	42,97
5M 09 - 28 F	44,56
5M 09 - 29 F	46,15
5M 09 - 30 F	47,75
5M 09 - 32 F	50,93
5M 09 - 34 F	54,11
5M 09 - 36 F	57,29
5M 09 - 38 F	60,47
5M 09 - 40 F	63,66
5M 09 - 42 F	66,84
5M 09 - 44	70,03
5M 09 - 46	73,20
5M 09 - 48	76,39
5M 09 - 50	79,57
5M 09 - 52	82,75
5M 09 - 54	85,94
5M 09 - 56	89,12
5M 09 - 58	92,30
5M 09 - 60	95,49
5M 09 - 64	101,85
5M 09 - 68	108,22
5M 09 - 72	114,59
5M 09 - 78	124,14
5M 09 - 84	133,68
5M 09 - 90	143,24
5M 09 - 96	152,78

5M-15

Pitch: 5 mm
Belt Width: 15 mm

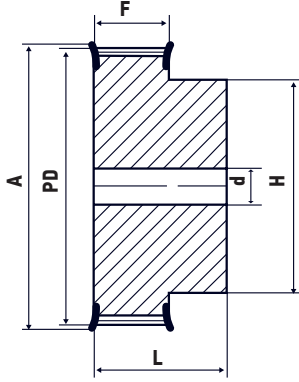
CODE	PD
5M 15 - 12 F	19,10
5M 15 - 13 F	20,69
5M 15 - 14 F	22,28
5M 15 - 15 F	23,87
5M 15 - 16 F	25,46
5M 15 - 17 F	27,05
5M 15 - 18 F	28,65
5M 15 - 19 F	30,24
5M 15 - 20 F	31,83
5M 15 - 21 F	33,42
5M 15 - 22 F	35,01
5M 15 - 23 F	36,60
5M 15 - 24 F	38,20
5M 15 - 25 F	39,78
5M 15 - 26 F	41,38
5M 15 - 27 F	42,97
5M 15 - 28 F	44,56
5M 15 - 29 F	46,15
5M 15 - 30 F	47,75
5M 15 - 32 F	50,93
5M 15 - 34 F	54,11
5M 15 - 36 F	57,29
5M 15 - 38 F	60,47
5M 15 - 40 F	63,66
5M 15 - 42 F	66,84
5M 15 - 44	70,03
5M 15 - 46	73,20
5M 15 - 48	76,39
5M 15 - 50	79,57
5M 15 - 52	82,75
5M 15 - 54	85,94
5M 15 - 56	89,12
5M 15 - 58	92,30
5M 15 - 60	95,49
5M 15 - 64	101,85
5M 15 - 68	108,22
5M 15 - 72	114,59
5M 15 - 78	124,14
5M 15 - 84	133,68
5M 15 - 90	143,24
5M 15 - 96	152,78

5M-25

Pitch: 5 mm
Belt Width: 25 mm

CODE	PD
5M 25 - 12 F	19,10
5M 25 - 13 F	20,69
5M 25 - 14 F	22,28
5M 25 - 15 F	23,87
5M 25 - 16 F	25,46
5M 25 - 17 F	27,05
5M 25 - 18 F	28,65
5M 25 - 19 F	30,24
5M 25 - 20 F	31,83
5M 25 - 21 F	33,42
5M 25 - 22 F	35,01
5M 25 - 23 F	36,60
5M 25 - 24 F	38,20
5M 25 - 25 F	39,78
5M 25 - 26 F	41,38
5M 25 - 27 F	42,97
5M 25 - 28 F	44,56
5M 25 - 29 F	46,15
5M 25 - 30 F	47,75
5M 25 - 32 F	50,93
5M 25 - 34 F	54,11
5M 25 - 36 F	57,29
5M 25 - 38 F	60,47
5M 25 - 40 F	63,66
5M 25 - 42 F	66,84
5M 25 - 44	70,03
5M 25 - 46	73,20
5M 25 - 48	76,39
5M 25 - 50	79,57
5M 25 - 52	82,75
5M 25 - 54	85,94
5M 25 - 56	89,12
5M 25 - 58	92,30
5M 25 - 60	95,49
5M 25 - 64	101,85
5M 25 - 68	108,22
5M 25 - 72	114,59
5M 25 - 78	124,14
5M 25 - 84	133,68
5M 25 - 90	143,24
5M 25 - 96	152,78

8M (SERIAL) (Metric Pitch HTD / Reference Hole)



8M-20

Pitch: 8 mm
Belt Width: 20 mm

CODE	PD
8M 20 - 12 F	30,56
8M 20 - 13 F	33,11
8M 20 - 14 F	35,64
8M 20 - 15 F	38,19
8M 20 - 16 F	40,74
8M 20 - 17 F	43,28
8M 20 - 18 F	45,83
8M 20 - 19 F	48,38
8M 20 - 20 F	50,92
8M 20 - 21 F	53,47
8M 20 - 22 F	56,02
8M 20 - 23 F	58,56
8M 20 - 24 F	61,12
8M 20 - 25 F	63,65
8M 20 - 26 F	66,21
8M 20 - 27 F	68,75
8M 20 - 28 F	71,30
8M 20 - 29 F	73,84
8M 20 - 30 F	76,39
8M 20 - 32 F	81,49
8M 20 - 34 F	86,58
8M 20 - 36 F	91,67
8M 20 - 38 F	96,77
8M 20 - 40 F	101,86
8M 20 - 42 F	106,94
8M 20 - 44 F	112,05
8M 20 - 46 F	117,13
8M 20 - 48 F	122,23
8M 20 - 50 F	127,32
8M 20 - 52 F	132,41
8M 20 - 54 F	137,50
8M 20 - 56 F	142,59
8M 20 - 58 F	147,59
8M 20 - 60 F	152,78
8M 20 - 64 F	162,97
8M 20 - 68 F	173,15
8M 20 - 72 F	183,35
8M 20 - 78 F	198,62
8M 20 - 84	213,89
8M 20 - 90	229,18
8M 20 - 96	244,45

8M-30

Pitch: 8 mm
Belt Width: 30 mm

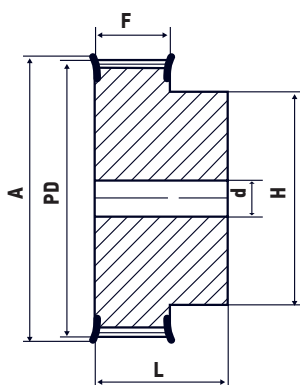
CODE	PD
8M 30 - 12 F	30,56
8M 30 - 13 F	33,11
8M 30 - 14 F	35,64
8M 30 - 15 F	38,19
8M 30 - 16 F	40,74
8M 30 - 17 F	43,28
8M 30 - 18 F	45,83
8M 30 - 19 F	48,38
8M 30 - 20 F	50,92
8M 30 - 21 F	53,47
8M 30 - 22 F	56,02
8M 30 - 23 F	58,56
8M 30 - 24 F	61,12
8M 30 - 25 F	63,65
8M 30 - 26 F	66,21
8M 30 - 27 F	68,75
8M 30 - 28 F	71,30
8M 30 - 29 F	73,84
8M 30 - 30 F	76,39
8M 30 - 32 F	81,49
8M 30 - 34 F	86,58
8M 30 - 36 F	91,67
8M 30 - 38 F	96,77
8M 30 - 40 F	101,86
8M 30 - 42 F	106,94
8M 30 - 44 F	112,05
8M 30 - 46 F	117,13
8M 30 - 48 F	122,23
8M 30 - 50 F	127,32
8M 30 - 52 F	132,41
8M 30 - 54 F	137,50
8M 30 - 56 F	142,59
8M 30 - 58 F	147,59
8M 30 - 60 F	152,78
8M 30 - 64 F	162,97
8M 30 - 68 F	173,15
8M 30 - 72 F	183,35
8M 30 - 78 F	198,62
8M 30 - 84	213,89
8M 30 - 90	229,18
8M 30 - 96	244,45

8M-50

Pitch: 8 mm
Belt Width: 50 mm

CODE	PD
8M 50 - 12 F	30,56
8M 50 - 13 F	33,11
8M 50 - 14 F	35,64
8M 50 - 15 F	38,19
8M 50 - 16 F	40,74
8M 50 - 17 F	43,28
8M 50 - 18 F	45,83
8M 50 - 19 F	48,38
8M 50 - 20 F	50,92
8M 50 - 21 F	53,47
8M 50 - 22 F	56,02
8M 50 - 23 F	58,56
8M 50 - 24 F	61,12
8M 50 - 25 F	63,65
8M 50 - 26 F	66,21
8M 50 - 27 F	68,75
8M 50 - 28 F	71,30
8M 50 - 29 F	73,84
8M 50 - 30 F	76,39
8M 50 - 32 F	81,49
8M 50 - 34 F	86,58
8M 50 - 36 F	91,67
8M 50 - 38 F	96,77
8M 50 - 40 F	101,86
8M 50 - 42 F	106,94
8M 50 - 44 F	112,05
8M 50 - 46 F	117,13
8M 50 - 48 F	122,23
8M 50 - 50 F	127,32
8M 50 - 52 F	132,41
8M 50 - 54 F	137,50
8M 50 - 56 F	142,59
8M 50 - 58 F	147,59
8M 50 - 60 F	152,78
8M 50 - 64 F	162,97
8M 50 - 68 F	173,15
8M 50 - 72 F	183,35
8M 50 - 78 F	198,62
8M 50 - 84	213,89
8M 50 - 90	229,18
8M 50 - 96	244,45

14M (SERIAL) (Metric Pitch HTD / Reference Hole)



14M-40

Pitch: 14 mm
Belt Width: 40 mm

CODE	PD
14M 40 - 20F	89,13
14M 40 - 21F	93,58
14M 40 - 22F	98,04
14M 40 - 23F	102,50
14M 40 - 24F	106,95
14M 40 - 25F	111,41
14M 40 - 26F	115,86
14M 40 - 27F	120,32
14M 40 - 28F	124,78
14M 40 - 29F	129,23
14M 40 - 30F	133,69
14M 40 - 32F	142,60
14M 40 - 34F	151,52
14M 40 - 36F	160,43
14M 40 - 38F	169,34
14M 40 - 40F	178,25
14M 40 - 42F	187,16
14M 40 - 44F	196,08
14M 40 - 46F	204,99
14M 40 - 48F	213,90
14M 40 - 50F	222,81
14M 40 - 52F	231,73
14M 40 - 54F	240,64
14M 40 - 56F	249,55
14M 40 - 58F	258,46
14M 40 - 60F	267,38
14M 40 - 64 F	285,20
14M 40 - 68	303,02
14M 40 - 72	320,86
14M 40 - 78	347,59
14M 40 - 84	374,32
14M 40 - 90	401,06
14M 40 - 96	427,80

14M-55

Pitch: 14 mm
Belt Width: 55 mm

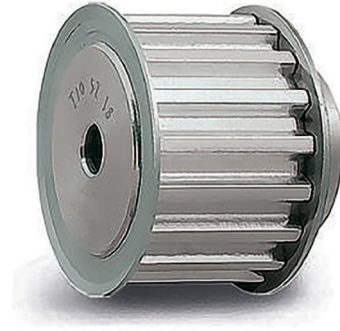
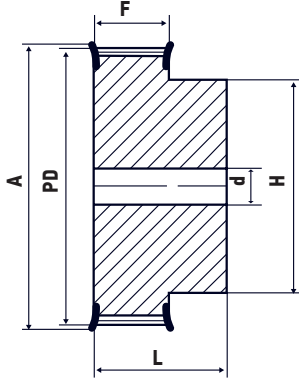
CODE	PD
14M 55 - 20F	89,13
14M 55 - 21F	93,58
14M 55 - 22F	98,04
14M 55 - 23F	102,50
14M 55 - 24F	106,95
14M 55 - 25F	111,41
14M 55 - 26F	115,86
14M 55 - 27F	120,32
14M 55 - 28F	124,78
14M 55 - 29F	129,23
14M 55 - 30F	133,69
14M 55 - 32F	142,60
14M 55 - 34F	151,52
14M 55 - 36F	160,43
14M 55 - 38F	169,34
14M 55 - 40F	178,25
14M 55 - 42F	187,16
14M 55 - 44F	196,08
14M 55 - 46F	204,99
14M 55 - 48F	213,90
14M 55 - 50F	222,81
14M 55 - 52F	231,73
14M 55 - 54F	240,64
14M 55 - 56F	249,55
14M 55 - 58F	258,46
14M 55 - 60F	267,38
14M 55 - 64F	285,20
14M 55 - 68	303,02
14M 55 - 72	320,86
14M 55 - 78	347,59
14M 55 - 84	374,32
14M 55 - 90	401,06
14M 55 - 96	427,80

14M-85

Pitch: 14 mm
Belt Width: 85 mm

CODE	PD
14M 85 - 20F	89,13
14M 85 - 21F	93,58
14M 85 - 22F	98,04
14M 85 - 23F	102,50
14M 85 - 24F	106,95
14M 85 - 25F	111,41
14M 85 - 26F	115,86
14M 85 - 27F	120,32
14M 85 - 28F	124,78
14M 85 - 29F	129,23
14M 85 - 30F	133,69
14M 85 - 32F	142,60
14M 85 - 34F	151,52
14M 85 - 36F	160,43
14M 85 - 38F	169,34
14M 85 - 40F	178,25
14M 85 - 42F	187,16
14M 85 - 44F	196,08
14M 85 - 46F	204,99
14M 85 - 48F	213,90
14M 85 - 50F	222,81
14M 85 - 52F	231,73
14M 85 - 54F	240,64
14M 85 - 56F	249,55
14M 85 - 58F	258,46
14M 85 - 60F	267,38
14M 85 - 64F	285,20
14M 85 - 68 1	303,02
4M 85 - 72	320,86
14M 85 - 78	347,59
14M 85 - 84	374,32
14M 85 - 90	401,06
14M 85 - 96	427,80

T5 (SERIAL) AL:ALUMINUM (Metric Pitch / Reference Hole)



T5-10 AL

Pitch: 5 mm
Belt Width: 10 mm

CODE	PD
T5 10 - 10 F - AL	15,92
T5 10 - 11 F - AL	17,51
T5 10 - 12 F - AL	19,10
T5 10 - 13 F - AL	20,69
T5 10 - 14 F - AL	22,29
T5 10 - 15 F - AL	23,88
T5 10 - 16 F - AL	25,47
T5 10 - 17 F - AL	27,05
T5 10 - 18 F - AL	28,65
T5 10 - 19 F - AL	30,25
T5 10 - 20 F - AL	31,83
T5 10 - 21 F - AL	33,42
T5 10 - 22 F - AL	35,01
T5 10 - 23 F - AL	36,60
T5 10 - 24 F - AL	38,21
T5 10 - 25 F - AL	39,80
T5 10 - 26 F - AL	41,45
T5 10 - 27 F - AL	42,98
T5 10 - 28 F - AL	44,56
T5 10 - 29 F - AL	46,15
T5 10 - 30 F - AL	47,76
T5 10 - 32 F - AL	50,94
T5 10 - 34 F - AL	54,11
T5 10 - 36 F - AL	57,31
T5 10 - 38 F - AL	60,47
T5 10 - 40 F - AL	63,66
T5 10 - 44 AL	70,03
T5 10 - 48 AL	76,39
T5 10 - 60 AL	95,49
T5 10 - 72 AL	114,59
T5 10 - 84 AL	133,68
T5 10 - 96 AL	152,78

T5-16 AL

Pitch: 5 mm
Belt Width: 16 mm

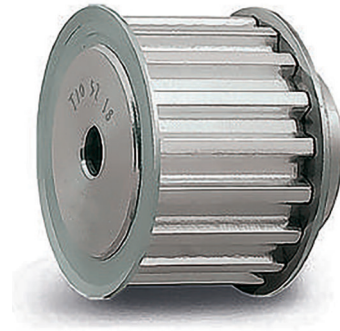
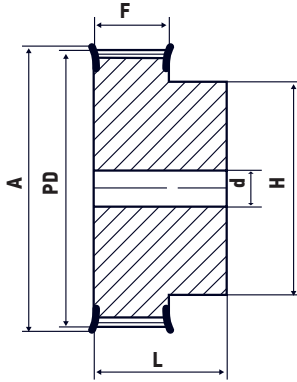
CODE	PD
T5 16 - 10 F - AL	15,92
T5 16 - 11 F - AL	17,51
T5 16 - 12 F - AL	19,10
T5 16 - 13 F - AL	20,69
T5 16 - 14 F - AL	22,29
T5 16 - 15 F - AL	23,88
T5 16 - 16 F - AL	25,47
T5 16 - 17 F - AL	27,05
T5 16 - 18 F - AL	28,65
T5 16 - 19 F - AL	30,25
T5 16 - 20 F - AL	31,83
T5 16 - 21 F - AL	33,42
T5 16 - 22 F - AL	35,01
T5 16 - 23 F - AL	36,60
T5 16 - 24 F - AL	38,21
T5 16 - 25 F - AL	39,80
T5 16 - 26 F - AL	41,45
T5 16 - 27 F - AL	42,98
T5 16 - 28 F - AL	44,56
T5 16 - 29 F - AL	46,15
T5 16 - 30 F - AL	47,76
T5 16 - 32 F - AL	50,94
T5 16 - 34 F - AL	54,11
T5 16 - 36 F - AL	57,31
T5 16 - 38 F - AL	60,47
T5 16 - 40 F - AL	63,66
T5 16 - 44 AL	70,03
T5 16 - 48 AL	76,39
T5 16 - 60 AL	95,49
T5 16 - 72 AL	114,59
T5 16 - 84 AL	133,68
T5 16 - 96 AL	152,78

T5-25 AL

Pitch: 5 mm
Belt Width: 25 mm

CODE	PD
T5 25 - 10 F - AL	15,92
T5 25 - 11 F - AL	17,51
T5 25 - 12 F - AL	19,10
T5 25 - 13 F - AL	20,69
T5 25 - 14 F - AL	22,29
T5 25 - 15 F - AL	23,88
T5 25 - 16 F - AL	25,47
T5 25 - 17 F - AL	27,05
T5 25 - 18 F - AL	28,65
T5 25 - 19 F - AL	30,25
T5 25 - 20 F - AL	31,83
T5 25 - 21 F - AL	33,42
T5 25 - 22 F - AL	35,01
T5 25 - 23 F - AL	36,60
T5 25 - 24 F - AL	38,21
T5 25 - 25 F - AL	39,80
T5 25 - 26 F - AL	41,45
T5 25 - 27 F - AL	42,98
T5 25 - 28 F - AL	44,56
T5 25 - 29 F - AL	46,15
T5 25 - 30 F - AL	47,76
T5 25 - 32 F - AL	50,94
T5 25 - 34 F - AL	54,11
T5 25 - 36 F - AL	57,31
T5 25 - 38 F - AL	60,47
T5 25 - 40 F - AL	63,66
T5 25 - 44 AL	70,03
T5 25 - 48 AL	76,39
T5 25 - 60 AL	95,49
T5 25 - 72 AL	114,59
T5 25 - 84 AL	133,68
T5 25 - 96 AL	152,78

T10 (SERIAL) AL:ALUMINUM (Metric Pitch / Reference Hole)



T10-16 AL

Pitch: 10 mm
Belt Width: 16mm

CODE	PD
T10 16 - 12 F - AL	38,20
T10 16 - 13 F - AL	41,38
T10 16 - 14 F - AL	44,56
T10 16 - 15 F - AL	47,75
T10 16 - 16 F - AL	50,93
T10 16 - 17 F - AL	54,11
T10 16 - 18 F - AL	57,29
T10 16 - 19 F - AL	60,48
T10 16 - 20 F - AL	63,66
T10 16 - 21 F - AL	66,85
T10 16 - 22 F - AL	70,03
T10 16 - 24 F - AL	76,39
T10 16 - 26 F - AL	82,76
T10 16 - 28 F - AL	89,13
T10 16 - 30 F - AL	95,49
T10 16 - 32 F - AL	101,86
T10 16 - 34 F - AL	108,22
T10 16 - 36 F - AL	114,59
T10 16 - 38 F - AL	120,96
T10 16 - 40 F - AL	127,32
T10 16 - 44 AL	140,06
T10 16 - 48 AL	152,78
T10 16 - 60 AL	190,98
T10 16 - 72 AL	229,18
T10 16 - 84 AL	267,37
T10 16 - 96 AL	305,57

T10-25 AL

Pitch: 10 mm
Belt Width: 25 mm

CODE	PD
T10 25 - 12 F - AL	38,20
T10 25 - 13 F - AL	41,38
T10 25 - 14 F - AL	44,56
T10 25 - 15 F - AL	47,75
T10 25 - 16 F - AL	50,93
T10 25 - 17 F - AL	54,11
T10 25 - 18 F - AL	57,29
T10 25 - 19 F - AL	60,48
T10 25 - 20 F - AL	63,66
T10 25 - 21 F - AL	66,85
T10 25 - 22 F - AL	70,03
T10 25 - 24 F - AL	76,39
T10 25 - 26 F - AL	82,76
T10 25 - 28 F - AL	89,13
T10 25 - 30 F - AL	95,49
T10 25 - 32 F - AL	101,86
T10 25 - 34 F - AL	108,22
T10 25 - 36 F - AL	114,59
T10 25 - 38 F - AL	120,96
T10 25 - 40 F - AL	127,32
T10 25 - 44 AL	140,06
T10 25 - 48 AL	152,78
T10 25 - 60 AL	190,98
T10 25 - 72 AL	229,18
T10 25 - 84 AL	267,37
T10 25 - 96 AL	305,57

T10-32 AL

Pitch: 10 mm
Belt Width: 32 mm

CODE	PD
T10 32 - 12 F - AL	38,20
T10 32 - 13 F - AL	41,38
T10 32 - 14 F - AL	44,56
T10 32 - 15 F - AL	47,75
T10 32 - 16 F - AL	50,93
T10 32 - 17 F - AL	54,11
T10 32 - 18 F - AL	57,29
T10 32 - 19 F - AL	60,48
T10 32 - 20 F - AL	63,66
T10 32 - 21 F - AL	66,85
T10 32 - 22 F - AL	70,03
T10 32 - 24 F - AL	76,39
T10 32 - 26 F - AL	82,76
T10 32 - 28 F - AL	89,13
T10 32 - 30 F - AL	95,49
T10 32 - 32 F - AL	101,86
T10 32 - 34 F - AL	108,22
T10 32 - 36 F - AL	114,59
T10 32 - 38 F - AL	120,96
T10 32 - 40 F - AL	127,32
T10 32 - 44 AL	140,06
T10 32 - 48 AL	152,78
T10 32 - 60 AL	190,98
T10 32 - 72 AL	229,18
T10 32 - 84 AL	267,37
T10 32 - 96 AL	305,57

T10-50 AL

Pitch: 10 mm

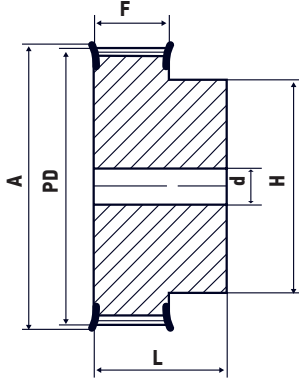
CODE	PD
T10 50 - 12 F - AL	38,20
T10 50 - 13 F - AL	41,38
T10 50 - 14 F - AL	44,56
T10 50 - 15 F - AL	47,75
T10 50 - 16 F - AL	50,93
T10 50 - 17 F - AL	54,11
T10 50 - 18 F - AL	57,29
T10 50 - 19 F - AL	60,48
T10 50 - 20 F - AL	63,66

Belt Width: 50 mm

CODE	PD
T10 50 - 21 F - AL	66,85
T10 50 - 22 F - AL	70,03
T10 50 - 24 F - AL	76,39
T10 50 - 26 F - AL	82,76
T10 50 - 28 F - AL	89,13
T10 50 - 30 F - AL	95,49
T10 50 - 32 F - AL	101,86
T10 50 - 34 F - AL	108,22
T10 50 - 36 F - AL	114,59

CODE	PD
T10 50 - 38 F - AL	120,96
T10 50 - 40 F - AL	127,32
T10 50 - 44 AL	140,06
T10 50 - 48 AL	152,78
T10 50 - 60 AL	190,98
T10 50 - 72 AL	229,18
T10 50 - 84 AL	267,37
T10 50 - 96 AL	305,57

AT5 (SERIAL) AL:ALUMINUM (Metric Pitch / Reference Hole)



AT5-10 AL

Pitch: 5 mm
Belt Width: 10 mm

CODE	PD
AT5 10 - 10 F - AL	15,92
AT5 10 - 11 F - AL	17,51
AT5 10 - 12 F - AL	19,10
AT5 10 - 13 F - AL	20,69
AT5 10 - 14 F - AL	22,29
AT5 10 - 15 F - AL	23,88
AT5 10 - 16 F - AL	25,47
AT5 10 - 17 F - AL	27,05
AT5 10 - 18 F - AL	28,65
AT5 10 - 19 F - AL	30,25
AT5 10 - 20 F - AL	31,83
AT5 10 - 21 F - AL	33,42
AT5 10 - 22 F - AL	35,01
AT5 10 - 23 F - AL	36,60
AT5 10 - 24 F - AL	38,21
AT5 10 - 25 F - AL	39,80
AT5 10 - 26 F - AL	41,45
AT5 10 - 27 F - AL	42,98
AT5 10 - 28 F - AL	44,56
AT5 10 - 29 F - AL	46,15
AT5 10 - 30 F - AL	47,76
AT5 10 - 32 F - AL	50,94
AT5 10 - 34 F - AL	54,11
AT5 10 - 36 F - AL	57,31
AT5 10 - 38 F - AL	60,47
AT5 10 - 40 F - AL	63,66
AT5 10 - 44 AL	70,03
AT5 10 - 48 AL	76,39
AT5 10 - 60 AL	95,49
AT5 10 - 72 AL	114,59
AT5 10 - 84 AL	133,68
AT5 10 - 96 AL	152,78

AT5-16 AL

Pitch: 5 mm
Belt Width: 16 mm

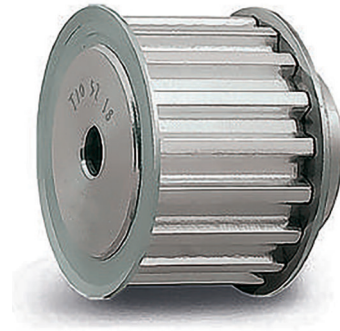
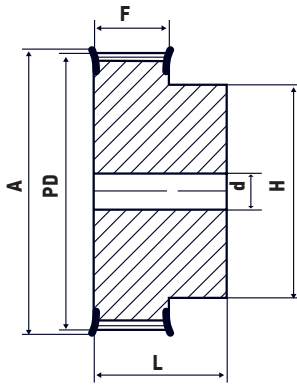
CODE	PD
AT5 16 - 10 F - AL	15,92
AT5 16 - 11 F - AL	17,51
AT5 16 - 12 F - AL	19,10
AT5 16 - 13 F - AL	20,69
AT5 16 - 14 F - AL	22,29
AT5 16 - 15 F - AL	23,88
AT5 16 - 16 F - AL	25,47
AT5 16 - 17 F - AL	27,05
AT5 16 - 18 F - AL	28,65
AT5 16 - 19 F - AL	30,25
AT5 16 - 20 F - AL	31,83
AT5 16 - 21 F - AL	33,42
AT5 16 - 22 F - AL	35,01
AT5 16 - 23 F - AL	36,60
AT5 16 - 24 F - AL	38,21
AT5 16 - 25 F - AL	39,80
AT5 16 - 26 F - AL	41,45
AT5 16 - 27 F - AL	42,98
AT5 16 - 28 F - AL	44,56
AT5 16 - 29 F - AL	46,15
AT5 16 - 30 F - AL	47,76
AT5 16 - 32 F - AL	50,94
AT5 16 - 34 F - AL	54,11
AT5 16 - 36 F - AL	57,31
AT5 16 - 38 F - AL	60,47
AT5 16 - 40 F - AL	63,66
AT5 16 - 44 AL	70,03
AT5 16 - 48 AL	76,39
AT5 16 - 60 AL	95,49
AT5 16 - 72 AL	114,59
AT5 16 - 84 AL	133,68
AT5 16 - 96 AL	152,78

AT5-25 AL

Pitch: 5 mm
Belt Width: 25 mm

CODE	PD
AT5 25 - 10 F - AL	15,92
AT5 25 - 11 F - AL	17,51
AT5 25 - 12 F - AL	19,10
AT5 25 - 13 F - AL	20,69
AT5 25 - 14 F - AL	22,29
AT5 25 - 15 F - AL	23,88
AT5 25 - 16 F - AL	25,47
AT5 25 - 17 F - AL	27,05
AT5 25 - 18 F - AL	28,65
AT5 25 - 19 F - AL	30,25
AT5 25 - 20 F - AL	31,83
AT5 25 - 21 F - AL	33,42
AT5 25 - 22 F - AL	35,01
AT5 25 - 23 F - AL	36,60
AT5 25 - 24 F - AL	38,21
AT5 25 - 25 F - AL	39,80
AT5 25 - 26 F - AL	41,45
AT5 25 - 27 F - AL	42,98
AT5 25 - 28 F - AL	44,56
AT5 25 - 29 F - AL	46,15
AT5 25 - 30 F - AL	47,76
AT5 25 - 32 F - AL	50,94
AT5 25 - 34 F - AL	54,11
AT5 25 - 36 F - AL	57,31
AT5 25 - 38 F - AL	60,47
AT5 25 - 40 F - AL	63,66
AT5 25 - 44 AL	70,03
AT5 25 - 48 AL	76,39
AT5 25 - 60 AL	95,49
AT5 25 - 72 AL	114,59
AT5 25 - 84 AL	133,68
AT5 25 - 96 AL	152,78

AT10 (SERIAL) AL:ALUMINUM (Metric Pitch / Reference Hole)



AT10-16 AL

Pitch: 10 mm
Belt Width: 16mm

CODE	PD
AT10 16 - 12 F - AL	38,20
AT10 16 - 13 F - AL	41,38
AT10 16 - 14 F - AL	44,56
AT10 16 - 15 F - AL	47,75
AT10 16 - 16 F - AL	50,93
AT10 16 - 17 F - AL	54,11
AT10 16 - 18 F - AL	57,29
AT10 16 - 19 F - AL	60,48
AT10 16 - 20 F - AL	63,66
AT10 16 - 21 F - AL	66,85
AT10 16 - 22 F - AL	70,03
AT10 16 - 24 F - AL	76,39
AT10 16 - 26 F - AL	82,76
AT10 16 - 28 F - AL	89,13
AT10 16 - 30 F - AL	95,49
AT10 16 - 32 F - AL	101,86
AT10 16 - 34 F - AL	108,22
AT10 16 - 36 F - AL	114,59
AT10 16 - 38 F - AL	120,96
AT10 16 - 40 F - AL	127,32
AT10 16 - 44 AL	140,06
AT10 16 - 48 AL	152,78
AT10 16 - 60 AL	190,98
AT10 16 - 72 AL	229,18
AT10 16 - 84 AL	267,37
AT10 16 - 96 AL	305,57

AT10-25 AL

Pitch: 10 mm
Belt Width: 25 mm

CODE	PD
AT10 25 - 12 F - AL	38,20
AT10 25 - 13 F - AL	41,38
AT10 25 - 14 F - AL	44,56
AT10 25 - 15 F - AL	47,75
AT10 25 - 16 F - AL	50,93
AT10 25 - 17 F - AL	54,11
AT10 25 - 18 F - AL	57,29
AT10 25 - 19 F - AL	60,48
AT10 25 - 20 F - AL	63,66
AT10 25 - 21 F - AL	66,85
AT10 25 - 22 F - AL	70,03
AT10 25 - 24 F - AL	76,39
AT10 25 - 26 F - AL	82,76
AT10 25 - 28 F - AL	89,13
AT10 25 - 30 F - AL	95,49
AT10 25 - 32 F - AL	101,86
AT10 25 - 34 F - AL	108,22
AT10 25 - 36 F - AL	114,59
AT10 25 - 38 F - AL	120,96
AT10 25 - 40 F - AL	127,32
AT10 25 - 44 AL	140,06
AT10 25 - 48 AL	152,78
AT10 25 - 60 AL	190,98
AT10 25 - 72 AL	229,18
AT10 25 - 84 AL	267,37
AT10 25 - 96 AL	305,57

AT10-32 AL

Pitch: 10 mm
Belt Width: 32 mm

CODE	PD
AT10 32 - 12 F - AL	38,20
AT10 32 - 13 F - AL	41,38
AT10 32 - 14 F - AL	44,56
AT10 32 - 15 F - AL	47,75
AT10 32 - 16 F - AL	50,93
AT10 32 - 17 F - AL	54,11
AT10 32 - 18 F - AL	57,29
AT10 32 - 19 F - AL	60,48
AT10 32 - 20 F - AL	63,66
AT10 32 - 21 F - AL	66,85
AT10 32 - 22 F - AL	70,03
AT10 32 - 24 F - AL	76,39
AT10 32 - 26 F - AL	82,76
AT10 32 - 28 F - AL	89,13
AT10 32 - 30 F - AL	95,49
AT10 32 - 32 F - AL	101,86
AT10 32 - 34 F - AL	108,22
AT10 32 - 36 F - AL	114,59
AT10 32 - 38 F - AL	120,96
AT10 32 - 40 F - AL	127,32
AT10 32 - 44 AL	140,06
AT10 32 - 48 AL	152,78
AT10 32 - 60 AL	190,98
AT10 32 - 72 AL	229,18
AT10 32 - 84 AL	267,37
AT10 32 - 96 AL	305,57

AT10-50 AL

Pitch: 10 mm

CODE	PD
AT10 50 - 12 F - AL	38,20
AT10 50 - 13 F - AL	41,38
AT10 50 - 14 F - AL	44,56
AT10 50 - 15 F - AL	47,75
AT10 50 - 16 F - AL	50,93
AT10 50 - 17 F - AL	54,11
AT10 50 - 18 F - AL	57,29
AT10 50 - 19 F - AL	60,48
AT10 50 - 20 F - AL	63,66

Belt Width: 52 mm

CODE	PD
AT10 50 - 21 F - AL	66,85
AT10 50 - 22 F - AL	70,03
AT10 50 - 24 F - AL	76,39
AT10 50 - 26 F - AL	82,76
AT10 50 - 28 F - AL	89,13
AT10 50 - 30 F - AL	95,49
AT10 50 - 32 F - AL	101,86
AT10 50 - 34 F - AL	108,22
AT10 50 - 36 F - AL	114,59

CODE	PD
AT10 50 - 38 F - AL	120,96
AT10 50 - 40 F - AL	127,32
AT10 50 - 44 AL	140,06
AT10 50 - 48 AL	152,78
AT10 50 - 60 AL	190,98
AT10 50 - 72 AL	229,18
AT10 50 - 84 AL	267,37
AT10 50 - 96 AL	305,57



BELTS

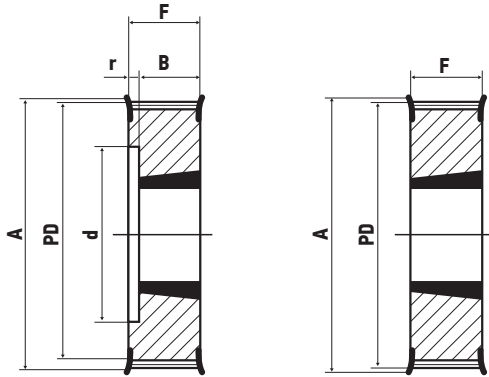
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B-L (SERIAL) Withworth Pitch



B-L-050

Pitch: 9,525 mm
Belt Width: 12,70 mm

CODE	BUSH	PD
BL 050 - 18 F	1008	54,57
BL 050 - 19 F	1008	57,61
BL 050 - 20F	1108	60,64
BL 050 - 21F	1108	63,67
BL 050 - 22F	1108	66,70
BL 050 - 23F	1108	69,73
BL 050 - 24F	1108	72,77
BL 050 - 25F	1108	75,81
BL 050 - 26F	1108	78,83
BL 050 - 27F	1108	81,86
BL 050 - 28F	1108	84,89
BL 050 - 29F	1108	87,93
BL 050 - 30F	1108	90,96
BL 050 - 31F	1108	93,99
BL 050 - 32F	1108	97,02
BL 050 - 33F	1108	100,05
BL 050 - 34F	1108	103,08
BL 050 - 35F	1108	106,12
BL 050 - 36F	1108	109,15
BL 050 - 38F	1610	115,27
BL 050 - 40F	1610	121,28
BL 050 - 42F	1610	127,34
BL 050 - 44F	1610	133,41
BL 050 - 45F	1610	136,44
BL 050 - 46F	1610	139,46
BL 050 - 48F	1610	145,53
BL 050 - 50	1610	151,61
BL 050 - 52	1610	157,66
BL 050 - 54	1610	163,71
BL 050 - 56	1610	169,79
BL 050 - 58	1610	175,84
BL 050 - 60	1610	182,01
BL 050 - 64	1610	194,14
BL 050 - 65	1610	197,17
BL 050 - 68	1610	206,27
BL 050 - 72	1610	218,31
BL 050 - 78	1610	236,48
BL 050 - 84	1610	254,67
BL 050 - 90	2012	273,01
BL 050 - 96	2012	291,06

B-L-075

Pitch: 9,525 mm
Belt Width: 19,05 mm

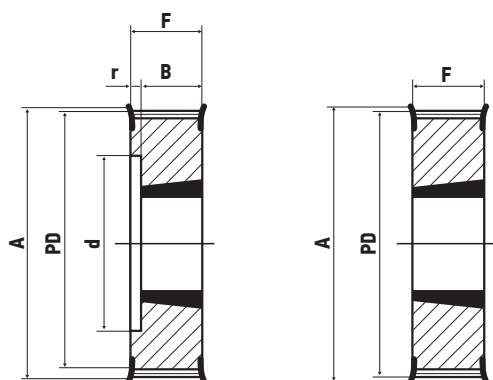
CODE	BUSH	PD
BL 075 - 18 F	1008	54,57
BL 075 - 19 F	1008	57,61
BL 075 - 20F	1108	60,64
BL 075 - 21F	1108	63,67
BL 075 - 22F	1108	66,70
BL 075 - 23F	1108	69,73
BL 075 - 24F	1108	72,77
BL 075 - 25F	1108	75,81
BL 075 - 26F	1108	78,83
BL 075 - 27F	1108	81,86
BL 075 - 28F	1108	84,89
BL 075 - 29F	1108	87,93
BL 075 - 30F	1108	90,96
BL 075 - 31F	1108	93,99
BL 075 - 32F	1108	97,02
BL 075 - 33F	1108	100,05
BL 075 - 34F	1108	103,08
BL 075 - 35F	1108	106,12
BL 075 - 36F	1108	109,15
BL 075 - 38F	1610	115,27
BL 075 - 40F	1610	121,28
BL 075 - 42F	1610	127,34
BL 075 - 44F	1610	133,41
BL 075 - 45F	1610	136,44
BL 075 - 46F	1610	139,46
BL 075 - 48F	1610	145,53
BL 075 - 50	1610	151,61
BL 075 - 52	1610	157,66
BL 075 - 54	1610	163,71
BL 075 - 56	1610	169,79
BL 075 - 58	1610	175,84
BL 075 - 60	1610	182,01
BL 075 - 64	1610	194,14
BL 075 - 65	1610	197,17
BL 075 - 68	1610	206,27
BL 075 - 72	1610	218,31
BL 075 - 78	1610	236,48
BL 075 - 84	1610	254,67
BL 075 - 90	2012	273,01
BL 075 - 96	2012	291,06

B-L-100

Pitch: 9,525 mm
Belt Width: 25,40 mm

CODE	BUSH	PD
BL 075 - 18 F	1008	54,57
BL 075 - 19 F	1008	57,61
BL 075 - 20F	1108	60,64
BL 075 - 21F	1108	63,67
BL 075 - 22F	1108	66,70
BL 075 - 23F	1108	69,73
BL 075 - 24F	1108	72,77
BL 075 - 25F	1108	75,81
BL 075 - 26F	1108	78,83
BL 075 - 27F	1108	81,86
BL 075 - 28F	1108	84,89
BL 075 - 29F	1108	87,93
BL 075 - 30F	1210	90,96
BL 075 - 31F	1210	93,99
BL 075 - 32F	1210	97,02
BL 075 - 33F	1210	100,05
BL 075 - 34F	1210	103,08
BL 075 - 35F	1210	106,12
BL 075 - 36F	1610	109,15
BL 075 - 38F	1610	115,27
BL 075 - 40F	1610	121,28
BL 075 - 42F	1610	127,34
BL 075 - 44F	1610	133,41
BL 075 - 45F	1610	136,44
BL 075 - 46F	1610	139,46
BL 075 - 48F	1610	145,53
BL 075 - 50	1610	151,61
BL 075 - 52	1610	157,66
BL 075 - 54	1610	163,71
BL 075 - 56	1610	169,79
BL 075 - 58	1610	175,84
BL 075 - 60	1610	182,01
BL 075 - 64	1610	194,14
BL 075 - 65	1610	197,17
BL 075 - 68	2012	206,27
BL 075 - 72	2012	218,31
BL 075 - 78	2012	236,48
BL 075 - 84	2012	254,67
BL 075 - 90	2012	273,01
BL 075 - 96	2012	291,06

B-H (SERIAL) Withworth Pitch



B-H-100

Pitch: 12,70 mm
Belt Width: 25,40mm

CODE	BUSH	PD
BH 100 - 14F	1108	56,61
BH 100 - 15F	1108	60,64
BH 100 - 16F	1108	64,67
BH 100 - 17F	1108	68,72
BH 100 - 18F	1210	72,77
BH 100 - 19F	1210	76,81
BH 100 - 20F	1210	80,85
BH 100 - 21F	1210	84,89
BH 100 - 22F	1210	88,94
BH 100 - 23F	1610	92,98
BH 100 - 24F	1610	97,03
BH 100 - 25F	1610	101,06
BH 100 - 26F	1610	105,11
BH 100 - 27F	1610	109,15
BH 100 - 28F	1610	113,18
BH 100 - 29F	1610	117,23
BH 100 - 30F	1610	121,29
BH 100 - 31F	1610	125,31
BH 100 - 32F	1610	129,36
BH 100 - 34F	1610	137,45
BH 100 - 36F	1610	145,53
BH 100 - 38F	1610	153,62
BH 100 - 40F	1610	161,70
BH 100 - 42F	1610	169,79
BH 100 - 44F	2012	177,87
BH 100 - 46F	2012	185,95
BH 100 - 48F	2012	194,03
BH100 - 50	2012	202,13
BH100 - 52	2012	210,21
BH100 - 54	2012	218,29
BH100 - 56	2012	226,37
BH100 - 58	2012	234,47
BH100 - 60	2012	242,55
BH100 - 64	2012	258,71
BH100 - 68	2012	275,03
BH100 - 72	2012	291,06
BH100 - 78	2012	315,30
BH100 - 84	2012	339,57
BH100 - 90	2517	363,81
BH100 - 96	2517	388,08

B-H-150

Pitch: 12,70 mm
Belt Width: 38,10 mm

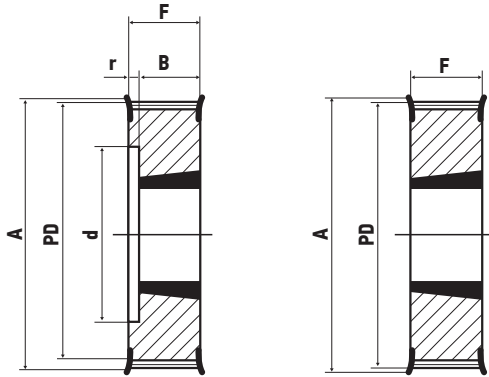
CODE	BUSH	PD
BH150 - 14F	1108	56,61
BH150 - 15F	1108	60,64
BH150 - 16F	1108	64,67
BH150 - 17F	1108	68,72
BH150 - 18F	1210	72,77
BH150 - 19F	1210	76,81
BH150 - 20F	1210	80,85
BH150 - 21F	1210	84,89
BH150 - 22F	1210	88,94
BH150 - 23F	1610	92,98
BH150 - 24F	1610	97,03
BH150 - 25F	1610	101,06
BH150 - 26F	1610	105,11
BH150 - 27F	1610	109,15
BH150 - 28F	1610	113,18
BH150 - 29F	1610	117,23
BH150 - 30F	1610	121,29
BH150 - 31F	1610	125,31
BH150 - 32F	1610	129,36
BH150 - 34F	1610	137,45
BH150 - 36F	1610	145,53
BH150 - 38F	1610	153,62
BH150 - 40F	1610	161,70
BH150 - 42F	1610	169,79
BH150 - 44F	2012	177,87
BH150 - 46F	2012	185,95
BH150 - 48F	2012	194,03
BH150 - 50	2012	202,13
BH150 - 52	2012	210,21
BH150 - 54	2012	218,29
BH150 - 56	2012	226,37
BH150 - 58	2012	234,47
BH150 - 60	2012	242,55
BH150 - 64	2012	258,71
BH150 - 68	2012	275,03
BH150 - 72	2012	291,06
BH150 - 78	2012	315,30
BH150 - 84	2012	339,57
BH150 - 90	2517	363,81
BH150 - 96	2517	388,08

B-H-200

Pitch: 12,70 mm
Belt Width: 50,80 mm

CODE	BUSH	PD
BH 200 - 14F	1108	56,61
BH 200 - 15F	1108	60,64
BH 200 - 16F	1108	64,67
BH 200 - 17F	1108	68,72
BH 200 - 18F	1210	72,77
BH 200 - 19F	1210	76,81
BH 200 - 20F	1610	80,85
BH 200 - 21F	1610	84,89
BH 200 - 22F	1610	88,94
BH 200 - 23F	1610	92,98
BH 200 - 24F	1610	97,03
BH 200 - 25F	1610	101,06
BH 200 - 26F	1610	105,11
BH 200 - 27F	1610	109,15
BH 200 - 28F	1610	113,18
BH 200 - 29F	1610	117,23
BH 200 - 30F	1610	121,29
BH 200 - 31F	1610	125,31
BH 200 - 32F	2012	129,36
BH 200 - 34F	2012	137,45
BH 200 - 36F	2012	145,53
BH 200 - 38F	2012	153,62
BH 200 - 40F	2012	161,70
BH 200 - 42F	2012	169,79
BH 200 - 44F	2012	177,87
BH 200 - 46F	2012	185,95
BH 200 - 48F	2517	194,03
BH 200 - 50	2517	202,13
BH 200 - 52	2517	210,21
BH 200 - 54	2517	218,29
BH 200 - 56	2517	226,37
BH 200 - 58	2517	234,47
BH 200 - 60	2517	242,55
BH 200 - 64	2517	258,71
BH 200 - 68	2517	275,03
BH 200 - 72	2517	291,06
BH 200 - 78	2517	315,30
BH 200 - 84	2517	339,57
BH 200 - 90	2517	363,81
BH 200 - 96	2517	388,08

B-5M (SERIAL) Metric Pitch HTD



B-5M-09

Pitch: 5 mm
Belt Width: 9 mm

CODE	BUSH	PD
B 5M 09 - 34F	1008	54,11
B 5M 09 - 36F	1108	57,29
B 5M 09 - 38F	1108	60,47
B 5M 09 - 40F	1108	63,66
B 5M 09 - 42F	1108	66,84
B 5M 09 - 44F	1108	70,03
B 5M 09 - 46F	1108	73,20
B 5M 09 - 48F	1210	76,39
B 5M 09 - 50F	1210	79,57
B 5M 09 - 52F	1210	82,75
B 5M 09 - 54F	1210	85,94
B 5M 09 - 56F	1210	89,12
B 5M 09 - 58F	1210	92,30
B 5M 09 - 60F	1210	95,49
B 5M 09 - 64F	1210	101,85
B 5M 09 - 68F	1610	108,22
B 5M 09 - 72F	1610	114,59
B 5M 09 - 78F	1610	124,14
B 5M 09 - 84	1610	138,68
B 5M 09 - 90	1610	143,24
B 5M 09 - 96	2012	152,78

B-5M-15

Pitch: 5 mm
Belt Width: 15 mm

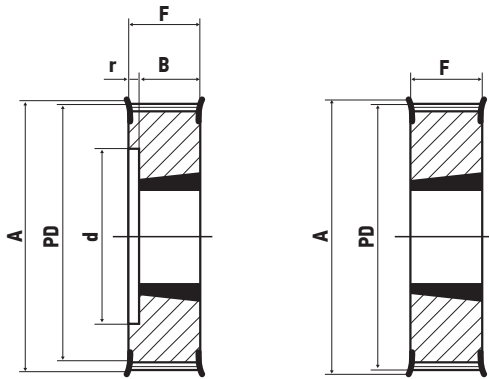
CODE	BUSH	PD
B 5M 15 - 34F	1008	54,11
B 5M 15 - 36F	1108	57,29
B 5M 15 - 38F	1108	60,47
B 5M 15 - 40F	1108	63,66
B 5M 15 - 42F	1108	66,84
B 5M 15 - 44F	1108	70,03
B 5M 15 - 46F	1108	73,20
B 5M 15 - 48F	1210	76,39
B 5M 15 - 50F	1210	79,57
B 5M 15 - 52F	1210	82,75
B 5M 15 - 54F	1210	85,94
B 5M 15 - 56F	1210	89,12
B 5M 15 - 58F	1210	92,30
B 5M 15 - 60F	1210	95,49
B 5M 15 - 64F	1210	101,85
B 5M 15 - 68F	1610	108,22
B 5M 15 - 72F	1610	114,59
B 5M 15 - 78F	1610	124,14
B 5M 15 - 84	1610	138,68
B 5M 15 - 90	1610	143,24
B 5M 15 - 96	2012	152,78

B-5M-25

Pitch: 5 mm
Belt Width: 25 mm

CODE	BUSH	PD
B 5M 25- 34F	1008	54,11
B 5M 25- 36F	1108	57,29
B 5M 25- 38F	1108	60,47
B 5M 25- 40F	1108	63,66
B 5M 25- 42F	1108	66,84
B 5M 25- 44F	1108	70,03
B 5M 25- 46F	1108	73,20
B 5M 25- 48F	1210	76,39
B 5M 25- 50F	1210	79,57
B 5M 25- 52F	1210	82,75
B 5M 25- 54F	1210	85,94
B 5M 25- 56F	1210	89,12
B 5M 25- 58F	1210	92,30
B 5M 25- 60F	1210	95,49
B 5M 25- 64F	1210	101,85
B 5M 25- 68F	1610	108,22
B 5M 25- 72F	1610	114,59
B 5M 25- 78F	1610	124,14
B 5M 25- 84	1610	138,68
B 5M 25- 90	1610	143,24
B 5M 25- 96	2012	152,78

B-8M (SERIAL) Withworth Pitch



B-8M-20

Pitch: 8 mm
Belt Width: 20 mm

CODE	BUSH	PD
B 8M 20 - 20F	1008	50,92
B 8M 20 - 21F	1008	53,47
B 8M 20 - 22F	1008	56,02
B 8M 20 - 23F	1008	58,56
B 8M 20 - 24F	1108	61,12
B 8M 20 - 25F	1108	63,66
B 8M 20 - 26F	1108	66,21
B 8M 20 - 27F	1108	68,75
B 8M 20 - 28F	1108	71,30
B 8M 20 - 29F	1108	73,84
B 8M 20 - 30F	1210	76,39
B 8M 20 - 32F	1210	81,49
B 8M 20 - 34F	1610	86,58
B 8M 20 - 36F	1610	91,67
B 8M 20 - 38F	1610	96,77
B 8M 20 - 40F	1610	101,86
B 8M 20 - 42F	1610	106,95
B 8M 20 - 44F	2012	112,05
B8M20 - 46F	2012	117,13
B8M20 - 48F	2012	122,23
B8M 20 - 50F	2012	127,32
B8M 20 - 52F	2012	132,41
B8M 20 - 54F	2012	137,50
B8M 20 - 56F	2012	142,60
B8M 20 - 58F	2012	147,69
B8M 20 - 60F	2012	152,78
B8M 20 - 64F	2012	162,97
B 8M 20 - 68F	2012	173,15
B 8M 20 - 72F	2012	183,35
B 8M 20 - 78	2012	203,72
B 8M 20 - 84	2517	213,89
B 8M 20 - 90	2517	229,12
B 8M 20 - 96	2517	244,45

B-8M-30

Pitch: 8 mm
Belt Width: 30 mm

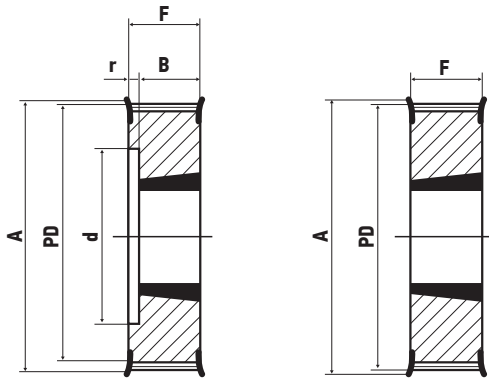
CODE	BUSH	PD
B 8M 30 - 20F	1008	50,92
B 8M 30 - 21F	1008	53,47
B 8M 30 - 22F	1008	56,02
B 8M 30 - 23F	1108	58,56
B 8M 30 - 24F	1108	61,12
B 8M 30 - 25F	1108	63,66
B 8M 30 - 26F	1108	66,21
B 8M 30 - 27F	1108	68,75
B 8M 30 - 28F	1108	71,30
B 8M 30 - 29F	1210	73,84
B 8M 30 - 30F	1210	76,39
B 8M 30 - 32F	1610	81,49
B 8M 30 - 34F	1610	86,58
B 8M 30 - 36F	1610	91,67
B 8M 30 - 38F	1610	96,77
B 8M 30 - 40F	1610	101,86
B 8M 30 - 42F	1610	106,95
B 8M 30 - 44F	2012	112,05
B 8M 30 - 46F	2012	117,13
B 8M 30 - 48F	2012	122,23
B 8M 30 - 50F	2012	127,32
B 8M 30 - 52F	2012	132,41
B 8M 30 - 54F	2012	137,50
B 8M 30 - 56F	2012	142,60
B 8M 30 - 58F	2012	147,69
B 8M 30 - 60F	2012	152,78
B 8M 30 - 64F	2517	162,97
B 8M 30 - 68F	2517	173,15
B 8M 30 - 72F	2517	183,35
B 8M 30 - 78	2517	203,72
B 8M 30 - 84	2517	213,89
B 8M 30 - 90	2517	229,12
B 8M 30 - 96	2517	244,45

B-8M-50

Pitch: 8 mm
Belt Width: 50 mm

CODE	BUSH	PD
B 8M 50 - 20F	1008	50,92
B 8M 50 - 21F	1008	53,47
B 8M 50 - 22F	1008	56,02
B 8M 50 - 23F	1108	58,56
B 8M 50 - 24F	1108	61,12
B 8M 50 - 25F	1108	63,66
B 8M 50 - 26F	1108	66,21
B 8M 50 - 27F	1108	68,75
B 8M 50 - 28F	1108	71,30
B 8M 50 - 29F	1210	73,84
B 8M 50 - 30F	1210	76,39
B 8M 50 - 32F	1610	81,49
B 8M 50 - 34F	1610	86,58
B 8M 50 - 36F	1610	91,67
B 8M 50 - 38F	1610	96,77
B 8M 50 - 40F	2012	101,86
B 8M 50 - 42F	2012	106,95
B 8M 50 - 44F	2012	112,05
B 8M 50 - 46F	2012	117,13
B 8M 50 - 48F	2012	122,23
B 8M 50 - 50F	2012	127,32
B 8M 50 - 52F	2012	132,41
B 8M 50 - 54F	2012	137,50
B 8M 50 - 56F	2517	142,60
B 8M 50 - 58F	2517	147,69
B 8M 50 - 60F	2517	152,78
B 8M 50 - 64F	2517	162,97
B 8M 50 - 68F	2517	173,15
B 8M 50 - 72F	2517	183,35
B 8M 50 - 78	2517	203,72
B 8M 50 - 84	2517	213,89
B 8M 50 - 90	3020	229,12
B 8M 50 - 96	3020	244,45

B-14M (SERIAL) Withworth pitch



B-14M-40

Pitch: 14 mm
Belt Width: 40 mm

CODE	BUSH	PD
B 14 M40 - 23F	1215	102,50
B 14 M40 - 24F	1215	106,95
B 14 M40 - 25F	1615	111,41
B 14 M40 - 26F	1615	115,86
B 14 M40 - 27F	2012	120,32
B 14 M40 - 28F	2012	124,78
B 14 M40 - 29F	2012	129,23
B 14 M40 - 30F	2012	133,69
B 14 M40 - 32F	2012	142,60
B 14 M40 - 34F	2517	151,52
B 14 M40 - 36F	2517	160,43
B 14 M40 - 38F	2517	169,34
B 14 M40 - 40F	2517	178,25
B 14 M40 - 42F	2517	187,16
B 14 M40 - 44F	3020	196,08
B 14 M40 - 46F	3020	204,99
B 14 M40 - 48F	3020	213,90
B 14 M40 - 50F	3020	222,81
B 14 M40 - 52F	3020	231,73
B 14 M40 - 54F	3020	240,64
B 14 M40 - 56F	3020	249,55
B 14 M40 - 58F	3020	258,46
B 14 M40 - 60F	3020	267,38
B 14 M40 - 64F	3020	285,20
B 14M 40 - 68	3020	303,02
B 14 M40 - 72	3020	320,86
B 14M 40 - 78	3020	347,59
B 14M 40 - 84	3020	374,32
B 14M 40 - 90	3020	401,06
B 14 M40 - 96	3020	427,80

B-14M-55

Pitch: 14 mm
Belt Width: 55 mm

CODE	BUSH	PD
B 14M 55 - 23F	1215	102,50
B 14M 55 - 24F	1215	106,95
B 14M 55 - 25F	1615	111,41
B 14M 55 - 26F	1615	115,86
B 14M 55 - 27F	2012	120,32
B 14M 55 - 28F	2012	124,78
B 14M 55 - 29F	2012	129,23
B 14M 55 - 30F	2012	133,69
B 14M 55 - 32F	2012	142,60
B 14M 55 - 34F	2517	151,52
B 14M 55 - 36F	2517	160,43
B 14M 55 - 38F	2517	169,34
B 14M 55 - 40F	2517	178,25
B 14M 55 - 42F	2517	187,16
B 14M 55 - 44F	3020	196,08
B 14M 55 - 46F	3020	204,99
B 14M 55 - 48F	3020	213,90
B 14M 55 - 50F	3020	222,81
B 14M 55 - 52F	3020	231,73
B 14M 55 - 54F	3020	240,64
B 14M 55 - 56F	3020	249,55
B 14M 55 - 58F	3020	258,46
B 14M 55 - 60F	3020	267,38
B 14M 55 - 64F	3020	285,20
B14M 55 - 68	3020	303,02
B 14M 55 - 72	3020	320,86
B 14M 55 - 78	3020	347,59
B 14M 55 - 84	3020	374,32
B 14M 55 - 90	3020	401,06
B 14M 55 - 96	3020	427,80

B-14M-85

Pitch: 14 mm
Belt Width: 85 mm

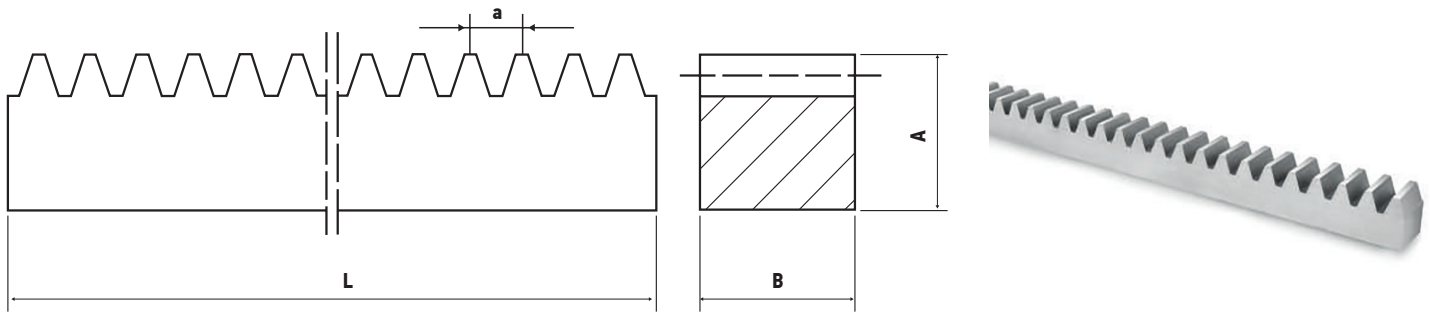
CODE	BUSH	PD
B 14M 85 - 23F	1215	102,50
B 14M 85 - 24F	1215	106,95
B 14M 85 - 25F	1615	111,41
B 14M 85 - 26F	1615	115,86
B 14M 85 - 27F	2012	120,32
B 14M 85 - 28F	2012	124,78
B 14M 85 - 29F	2012	129,23
B 14M 85 - 30F	2012	133,69
B 14M 85 - 32F	2517	142,60
B 14M 85 - 34F	2517	151,52
B 14M 85 - 36F	3020	160,43
B 14M 85 - 38F	3020	169,34
B 14M 85 - 40F	3020	178,25
B 14M 85 - 42F	3020	187,16
B 14M 85 - 44F	3020	196,08
B 14M 85 - 46F	3020	204,99
B 14M 85 - 48F	3020	213,90
B 14M 85 - 50F	3535	222,81
B 14M 85 - 52F	3535	231,73
B 14M 85 - 54F	3535	240,64
B 14M 85 - 56F	3535	249,55
B 14M 85 - 58F	3535	258,46
B 14M 85 - 60F	3535	267,38
B 14M 85 - 64F	3535	285,20
B 14M 85 - 68	3535	303,02
B 14M 85 - 72	3535	320,86
B 14M 85 - 78	3535	347,59
B 14M 85 - 84	3535	374,32
B 14M 85 - 90	3535	401,06
B 14M 85 - 96	3535	427,80

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RACK AND MODULE GEAR



MODULE ANGLE : 20° - MATERIAL : C 1040

AxB (mm)	1 MODULE	1,5 MODULE	2 MODULE	2,5 MODULE	3 MODULE	4 MODULE	5 MODULE	6 MODULE	7 MODULE	8 MODULE
18 X 18	100,00	100,00	100,00	100,00						
20 X 20	125,00	125,00	125,00	125,00	125,00					
22 X 22	150,00	150,00	150,00	150,00	150,00	150,00				
25 X 25	190,00	190,00	190,00	190,00	190,00	190,00	190,00			
30 X 30		270,00	270,00	270,00	270,00	270,00	270,00	270,00		
35 X 35			365,00	365,00	365,00	365,00	365,00	365,00	365,00	
40 X 40				475,00	475,00	475,00	475,00	475,00	475,00	475,00
45 X 45					600,00	600,00	600,00	600,00	600,00	600,00
50 X 50						740,00	740,00	740,00	740,00	740,00
55 X 55							900,00	900,00	900,00	900,00
60 X 60								1,070,00	1,070,00	1,070,00

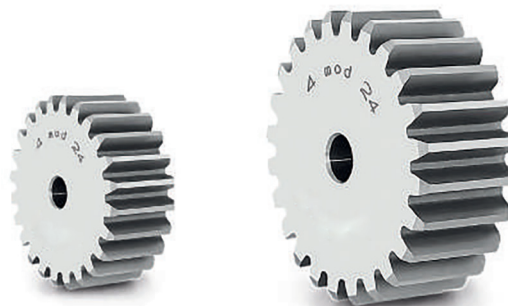
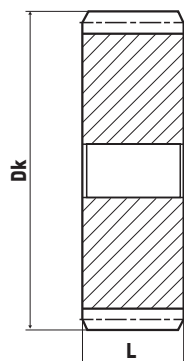
AxB (mm)	1 MODULE	1,5 MODULE	2 MODULE	2,5 MODULE	3 MODULE	4 MODULE	5 MODULE	6 MODULE	7 MODULE	8 MODULE
25 X 10	80,00	80,00	80,00	80,00	80,00	80,00	80,00			
30 X 15		140,00	140,00	140,00	140,00	140,00	140,00	140,00		
30 X 20		190,00	190,00	190,00	190,00	190,00	190,00	190,00		
40 X 20				250,00	250,00	250,00	250,00	250,00	250,00	250,00
50 X 20						310,00	310,00	310,00	310,00	310,00
50 X 30						465,00	465,00	465,00	465,00	465,00
60 X 20								375,00	375,00	375,00
60 X 30								565,00	565,00	565,00

MODULE	PITCH
1M	3,14 mm
1,5 M	4,71 mm
2M	6,28 mm
2,5 M	7,83 mm
3M	9,42 mm
4M	12,56 mm
5M	15,70 mm
6M	18,84 mm
7M	21,98 mm
8M	25,12 mm

- *** Our Rack and Rack Materials are produced by Hot forging.
- *** Our Helix Racks Are Made To Order
- *** Maximum 20 Modules, Up to 6 Meters Specially Manufactured.

MODULE ANGLE : 20° - MATERIAL : C 1040

FLAT MODULE GEAR Hubless



1 MODULE

Z	L: 15 mm
	Dk
12	14
13	15
14	16
15	17
16	18
17	19
18	20
19	21
20	22
21	23
22	24
23	25
24	26
25	27
26	28
27	29
28	30
29	31
30	32
32	34
34	36
36	38
38	40
40	42
42	44
44	46
46	48
48	50
50	52
52	54
54	56
56	58
58	60
60	62
65	67
70	72
75	77
80	82
85	87

1,5 MODULE

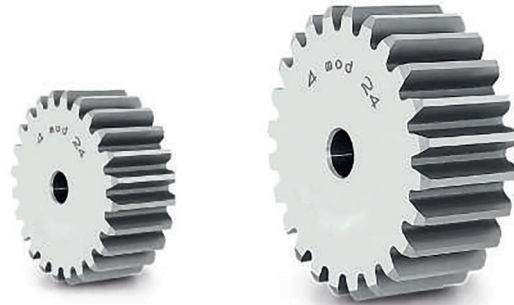
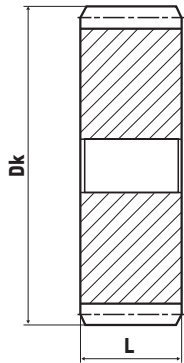
Z	L: 17 mm
	Dk
12	21
13	22,5
14	24
15	25,5
16	27
17	28,5
18	30
19	31,5
20	33
21	34,5
22	36
23	37,5
24	39
25	40,5
26	42
27	43,5
28	45
29	46,5
30	48
32	51
34	54
36	57
38	60
40	63
42	66
44	69
46	72
48	75
50	78
52	81
54	84
56	87
58	90
60	93
65	100,5
70	108
75	115,5
80	123
85	130,5

2 MODULE

Z	L: 20 mm
	Dk
12	28
13	30
14	32
15	34
16	36
17	38
18	40
19	42
20	44
21	46
22	48
23	50
24	52
25	54
26	56
27	58
28	60
29	62
30	64
32	68
34	72
36	76
38	80
40	84
42	88
44	92
46	96
48	100
50	104
52	108
54	112
56	116
58	120
60	124
65	134
70	144
75	154
80	164
85	174

MODULE ANGLE : 20° - MATERIAL : C 1040

FLAT MODULE GEAR Hubless



2,5 MODULE

Z	L: 25 mm
	Dk
12	35
13	37,5
14	40
15	42,5
16	45
17	47,5
18	50
19	52,5
20	55
21	57,5
22	60
23	62,5
24	65
25	67,5
26	70
27	72,5
28	75
29	77,5
30	80
32	85
34	90
36	95
38	100
40	105
42	110
44	115
46	120
48	125
50	130
52	135
54	140
56	145
58	150
60	155
65	167,5
70	180
75	192,5
80	205
85	217,5

3 MODULE

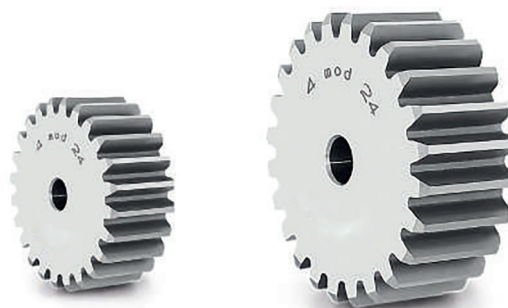
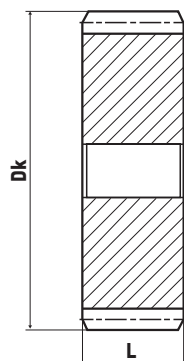
Z	L: 30 mm
	Dk
12	42
13	45
14	48
15	51
16	54
17	57
18	60
19	63
20	66
21	69
22	72
23	75
24	78
25	81
26	84
27	87
28	90
29	93
30	96
32	102
34	108
36	114
38	120
40	126
42	132
44	138
46	144
48	150
50	156
52	162
54	168
56	174
58	180
60	186
65	201
70	216
75	231
80	246
85	261

4 MODULE

Z	L: 40 mm
	Dk
12	56
13	60
14	64
15	68
16	72
17	76
18	80
19	84
20	88
21	92
22	96
23	100
24	104
25	108
26	112
27	116
28	120
29	124
30	128
32	136
34	144
36	152
38	160
40	168
42	176
44	184
46	192
48	200
50	208
52	216
54	224
56	232
58	240
60	248
65	268
70	288
75	308
80	328
85	348

MODULE ANGLE : 20° - MATERIAL : C 1040

FLAT MODULE GEAR Hubless



5 MODULE

Z	L: 50 mm
	Dk
12	70
13	75
14	80
15	85
16	90
17	95
18	100
19	105
20	110
21	115
22	120
23	125
24	130
25	135
26	140
27	145
28	150
29	155
30	160
32	170
34	180
36	190
38	200
40	210
42	220
44	230
46	240
48	250
50	260
52	270
54	280
56	290
58	300
60	310
65	335
70	360
75	385
80	410
85	435

6 MODULE

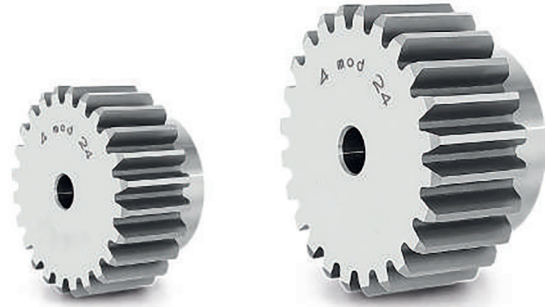
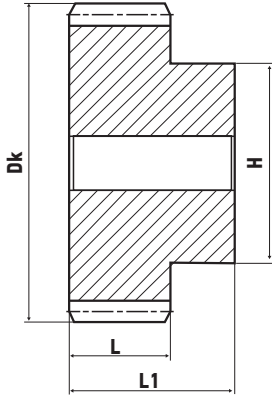
Z	L: 60 mm
	Dk
12	84
13	90
14	96
15	102
16	108
17	114
18	120
19	126
20	132
21	138
22	144
23	150
24	156
25	162
26	168
27	174
28	180
29	186
30	192
32	204
34	216
36	228
38	240
40	252
42	264
44	276
46	288
48	300
50	312
52	324
54	336
56	348
58	360
60	372
65	402
70	432
75	462
80	492
85	522

8 MODULE

Z	L: 80 mm
	Dk
12	112
13	120
14	128
15	136
16	144
17	152
18	160
19	168
20	176
21	184
22	192
23	200
24	208
25	216
26	224
27	232
28	240
29	248
30	256
32	272
34	288
36	304
38	320
40	336
42	352
44	368
46	384
48	400
50	416
52	432
54	448
56	464
58	480
60	496
65	536
70	576
75	616
80	656
85	696

MODULE ANGLE : 20° - MATERIAL : C 1040

FLAT MODULE GEAR With Hub



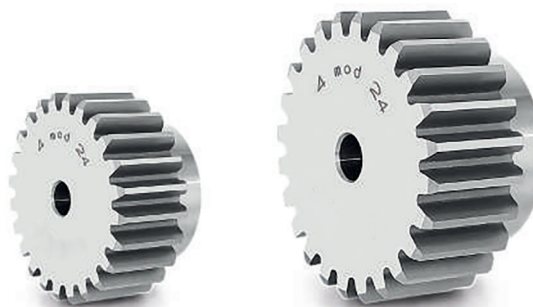
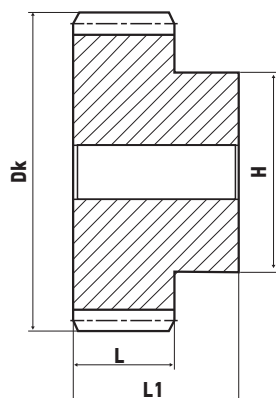
1 MODULE	L: 15 mm
	L1: 25 mm
Z	Dk
12	14
13	15
14	16
15	17
16	18
17	19
18	20
19	21
20	22
21	23
22	24
23	25
24	26
25	27
26	28
27	29
28	30
29	31
30	32
32	34
34	36
36	38
38	40
40	42
42	44
44	46
46	48
48	50
50	52
52	54
54	56
56	58
58	60
60	62
65	67
70	72
75	77
80	82
85	87

1,5 MODULE	L: 17 mm
	L1: 30 mm
Z	Dk
12	21
13	22,5
14	24
15	25,5
16	27
17	28,5
18	30
19	31,5
20	33
21	34,5
22	36
23	37,5
24	39
25	40,5
26	42
27	43,5
28	45
29	46,5
30	48
32	51
34	54
36	57
38	60
40	63
42	66
44	69
46	72
48	75
50	78
52	81
54	84
56	87
58	90
60	93
65	100,5
70	108
75	115,5
80	123
85	130,5

2 MODULE	L: 20 mm
	L1: 35 mm
Z	Dk
12	28
13	30
14	32
15	34
16	36
17	38
18	40
19	42
20	44
21	46
22	48
23	50
24	52
25	54
26	56
27	58
28	60
29	62
30	64
32	68
34	72
36	76
38	80
40	84
42	88
44	92
46	96
48	100
50	104
52	108
54	112
56	116
58	120
60	124
65	134
70	144
75	154
80	164
85	174

MODULE ANGLE : 20° - MATERIAL : C 1040

FLAT MODULE GEAR With Hub



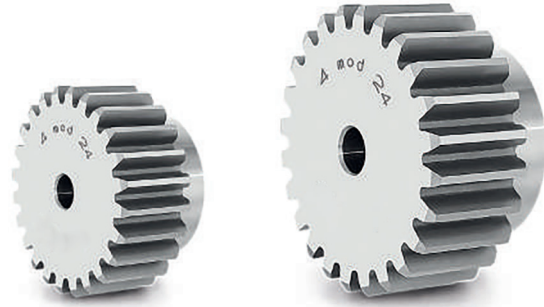
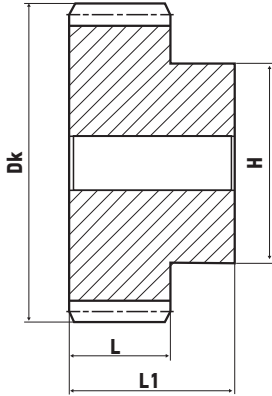
2,5 MODULE	L: 25 mm
	L1: 45 mm
Z	Dk
12	35
13	37,5
14	40
15	42,5
16	45
17	47,5
18	50
19	52,5
20	55
21	57,5
22	60
23	62,5
24	65
25	67,5
26	70
27	72,5
28	75
29	77,5
30	80
32	85
34	90
36	95
38	100
40	105
42	110
44	115
46	120
48	125
50	130
52	135
54	140
56	145
58	150
60	155
65	167,5
70	180
75	192,5
80	205
85	217,5

3 MODULE	L: 30 mm
	L1: 50 mm
Z	Dk
12	42
13	45
14	48
15	51
16	54
17	57
18	60
19	63
20	66
21	69
22	72
23	75
24	78
25	81
26	84
27	87
28	90
29	93
30	96
32	102
34	108
36	114
38	120
40	126
42	132
44	138
46	144
48	150
50	156
52	162
54	168
56	174
58	180
60	186
65	201
70	216
75	231
80	246
85	261

4 MODULE	L: 40 mm
	L1: 60 mm
Z	Dk
12	56
13	60
14	64
15	68
16	72
17	76
18	80
19	84
20	88
21	92
22	96
23	100
24	104
25	108
26	112
27	116
28	120
29	124
30	128
32	136
34	144
36	152
38	160
40	168
42	176
44	184
46	192
48	200
50	208
52	216
54	224
56	232
58	240
60	248
65	268
70	288
75	308
80	328
85	348

MODULE ANGLE : 20° - MATERIAL : C 1040

FLAT MODULE GEAR With Hub



5 MODULE	L: 50 mm
	L1: 70 mm
Z	Dk
12	70
13	75
14	80
15	85
16	90
17	95
18	100
19	105
20	110
21	115
22	120
23	125
24	130
25	135
26	140
27	145
28	150
29	155
30	160
32	170
34	180
36	190
38	200
40	210
42	220
44	230
46	240
48	250
50	260
52	270
54	280
56	290
58	300
60	310
65	335
70	360
75	385
80	410
85	435

6 MODULE	L: 60 mm
	L1: 80 mm
Z	Dk
12	84
13	90
14	96
15	102
16	108
17	114
18	120
19	126
20	132
21	138
22	144
23	150
24	156
25	162
26	168
27	174
28	180
29	186
30	192
32	204
34	216
36	228
38	240
40	252
42	264
44	276
46	288
48	300
50	312
52	324
54	336
56	348
58	360
60	372
65	402
70	432
75	462
80	492
85	522

8 MODULE	L: 80 mm
	L1: 100 mm
Z	Dk
12	112
13	120
14	128
15	136
16	144
17	152
18	160
19	168
20	176
21	184
22	192
23	200
24	208
25	216
26	224
27	232
28	240
29	248
30	256
32	272
34	288
36	304
38	320
40	336
42	352
44	368
46	384
48	400
50	416
52	432
54	448
56	464
58	480
60	496
65	536
70	576
75	616
80	656
85	696

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PULLEYS

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SPZ PULLEY



SPZ / 1

PULLEY DIAMETER (Ø)	BUSH NUMBER
SPZ-1-50	1008
SPZ-1-56	1008
SPZ-1-60	1008
SPZ-1-63	1108
SPZ-1-67	1108
SPZ-1-71	1108
SPZ-1-75	1108
SPZ-1-80	1210
SPZ-1-85	1210
SPZ-1-90	1210
SPZ-1-95	1210
SPZ-1-100	1210
SPZ-1-106	1610
SPZ-1-112	1610
SPZ-1-118	1610
SPZ-1-125	1610
SPZ-1-132	1610
SPZ-1-140	1610
SPZ-1-150	1610
SPZ-1-160	1610
SPZ-1-170	1610
SPZ-1-180	1610
SPZ-1-190	1610
SPZ-1-200	2012
SPZ-1-212	2012
SPZ-1-224	2012
SPZ-1-236	---
SPZ-1-250	2012
SPZ-1-280	2012
SPZ-1-300	2012

SPZ / 2

PULLEY DIAMETER (Ø)	BUSH NUMBER
SPZ-2-50	1008
SPZ-2-56	1008
SPZ-2-60	1108
SPZ-2-63	1108
SPZ-2-67	1108
SPZ-2-71	1108
SPZ-2-75	1210
SPZ-2-80	1210
SPZ-2-85	1610
SPZ-2-90	1610
SPZ-2-95	1610
SPZ-2-100	1610
SPZ-2-106	1610
SPZ-2-112	1610
SPZ-2-118	1610
SPZ-2-125	1610
SPZ-2-132	1610
SPZ-2-140	1610
SPZ-2-150	2012
SPZ-2-160	2012
SPZ-2-170	2012
SPZ-2-180	2012
SPZ-2-190	2012
SPZ-2-200	2012
SPZ-2-212	2012
SPZ-2-224	2012
SPZ-2-236	---
SPZ-2-250	2012
SPZ-2-280	2012
SPZ-2-300	2012

SPZ PULLEY



SPZ / 3

PULLEY DIAMETER (Ø)	BUSH NUMBER
SPZ-3-63	1108
SPZ-3-67	1108
SPZ-3-71	1108
SPZ-3-75	1210
SPZ-3-80	1210
SPZ-3-85	1610
SPZ-3-90	1610
SPZ-3-95	1610
SPZ-3-100	1610
SPZ-3-106	1610
SPZ-3-112	2012
SPZ-3-118	2012
SPZ-3-125	2012
SPZ-3-132	2012
SPZ-3-140	2012
SPZ-3-150	2012
SPZ-3-160	2012
SPZ-3-170	2012
SPZ-3-180	2012
SPZ-3-190	2012
SPZ-3-200	2012
SPZ-3-212	2012
SPZ-3-224	2012
SPZ-3-236	---
SPZ-3-250	2012
SPZ-3-280	2517
SPZ-3-300	2517

SPZ / 4

PULLEY DIAMETER (Ø)	BUSH NUMBER
---	---
---	---
---	---
---	---
SPZ-4-80	1210
SPZ-4-85	1610
SPZ-4-90	1610
SPZ-4-95	1610
SPZ-4-100	1610
SPZ-4-106	1610
SPZ-4-112	2012
SPZ-4-118	2012
SPZ-4-125	2012
SPZ-4-132	2012
SPZ-4-140	2517
SPZ-4-150	2517
SPZ-4-160	2517
SPZ-4-170	2517
SPZ-4-180	2517
SPZ-4-190	2517
SPZ-4-200	2517
SPZ-4-212	2517
SPZ-4-224	2517
SPZ-4-236	---
SPZ-4-250	2517
SPZ-4-280	2517
SPZ-4-300	2517

SPA PULLEY



SPA / 1

PULLEY DIAMETER (Ø)	BUSH NUMBER
SPA-1-063	1008
SPA-1-067	1108
SPA-1-071	1108
SPA-1-075	1108
SPA-1-080	1210
SPA-1-085	1210
SPA-1-090	1210
SPA-1-095	1210
SPA-1-100	1610
SPA-1-106	1610
SPA-1-112	1610
SPA-1-118	1610
SPA-1-125	1610
SPA-1-132	1610
SPA-1-140	1610
SPA-1-150	1610
SPA-1-160	1610
SPA-1-170	1610
SPA-1-180	1610
SPA-1-190	1610
SPA-1-200	2012
SPA-1-212	2012
SPA-1-224	2012
SPA-1-236	2012
SPA-1-250	2012
SPA-1-280	2012
SPA-1-300	2012
SPA-1-315	2012
SPA-1-355	2012
SPA-1-400	2012
SPA-1-450	2012
SPA-1-500	2517

SPA / 2

PULLEY DIAMETER (Ø)	BUSH NUMBER
SPA-2-063	1008
SPA-2-067	1108
SPA-2-071	1108
SPA-2-075	1108
SPA-2-080	1210
SPA-2-085	1210
SPA-2-090	1610
SPA-2-095	1610
SPA-2-100	1610
SPA-2-106	1610
SPA-2-112	1610
SPA-2-118	1610
SPA-2-125	1610
SPA-2-132	2012
SPA-2-140	2012
SPA-2-150	2012
SPA-2-160	2012
SPA-2-170	2012
SPA-2-180	2012
SPA-2-190	2012
SPA-2-200	2517
SPA-2-212	2517
SPA-2-224	2517
SPA-2-236	2517
SPA-2-250	2517
SPA-2-280	2517
SPA-2-300	2517
SPA-2-315	2517
SPA-2-355	2517
SPA-2-400	2517
SPA-2-450	2517
SPA-2-500	2517

SPA PULLEY



SPA / 3

PULLEY DIAMETER (Ø)	BUSH NUMBER
SPA-3-071	1108
SPA-3-075	1108
SPA-3-080	1210
SPA-3-085	1210
SPA-3-090	1610
SPA-3-095	1610
SPA-3-100	1610
SPA-3-106	1610
SPA-3-112	2012
SPA-3-118	2012
SPA-3-125	2012
SPA-3-132	2012
SPA-3-140	2517
SPA-3-150	2517
SPA-3-160	2517
SPA-3-170	2517
SPA-3-180	2517
SPA-3-190	2517
SPA-3-200	2517
SPA-3-212	2517
SPA-3-224	2517
SPA-3-236	2517
SPA-3-250	2517
SPA-3-280	2517
SPA-3-300	3020
SPA-3-315	3020
SPA-3-355	3020
SPA-3-400	3020
SPA-3-450	3020
SPA-3-500	3020

SPA / 4

PULLEY DIAMETER (Ø)	BUSH NUMBER
SPA-4-071	---
SPA-4-075	---
SPA-4-080	---
SPA-4-085	---
SPA-4-090	1610
SPA-4-095	1615
SPA-4-100	1615
SPA-4-106	2012
SPA-4-112	2012
SPA-4-118	2012
SPA-4-125	2012
SPA-4-132	2517
SPA-4-140	2517
SPA-4-150	2517
SPA-4-160	2517
SPA-4-170	2517
SPA-4-180	2517
SPA-4-190	2517
SPA-4-200	3020
SPA-4-212	3020
SPA-4-224	3020
SPA-4-236	3020
SPA-4-250	3020
SPA-4-280	3020
SPA-4-300	3020
SPA-4-315	3020
SPA-4-355	3020
SPA-4-400	3020
SPA-4-450	3020
SPA-4-500	3535

SPA PULLEY



SPA / 5

PULLEY DIAMETER (Ø)	BUSH NUMBER
SPA-5-100	1615
SPA-5-106	2012
SPA-5-112	2012
SPA-5-118	2012
SPA-5-125	2012
SPA-5-132	2517
SPA-5-140	2517
SPA-5-150	2517
SPA-5-160	2517
SPA-5-170	2517
SPA-5-180	3020
SPA-5-190	3020
SPA-5-200	3020
SPA-5-212	3020
SPA-5-224	3020
SPA-5-250	3020
SPA-5-280	3535
SPA-5-300	3535
SPA-5-315	3535
SPA-5-355	3535
SPA-5-400	3535
SPA-5-450	3535
SPA-5-500	3535

SPA / 6

PULLEY DIAMETER (Ø)	BUSH NUMBER
---	---
SPA-6-106	2012
SPA-6-112	2012
SPA-6-118	2012
SPA-6-125	2012
SPA-6-132	2517
SPA-6-140	2517
SPA-6-150	2517
SPA-6-160	2517
SPA-6-170	---
SPA-6-180	3020
SPA-6-190	---
SPA-6-200	3020
SPA-6-212	---
SPA-6-224	3020
SPA-6-250	3020
SPA-6-280	3535
SPA-6-300	3535
SPA-6-315	3535
SPA-6-355	3535
SPA-6-400	3535
SPA-6-450	3535
SPA-6-500	3535

SPB PULLEY



SPB / 1

PULLEY DIAMETER (Ø)	BUSH NUMBER
SPB-1-100	1610
SPB-1-106	1610
SPB-1-112	1610
SPB-1-118	1610
SPB-1-125	1610
SPB-1-132	1610
SPB-1-140	1610
SPB-1-150	1610
SPB-1-160	1610
SPB-1-170	1610
SPB-1-180	1610
SPB-1-190	2012
SPB-1-200	2012
SPB-1-212	2012
SPB-1-224	2012
SPB-1-236	2012
SPB-1-250	2012
SPB-1-280	2012
SPB-1-300	2012
SPB-1-315	2012

SPB / 2

PULLEY DIAMETER (Ø)	BUSH NUMBER
SPB-2-100	1610
SPB-2-106	1610
SPB-2-112	1610
SPB-2-118	1610
SPB-2-125	2012
SPB-2-132	2012
SPB-2-140	2012
SPB-2-150	2012
SPB-2-160	2012
SPB-2-170	2012
SPB-2-180	2517
SPB-2-190	2517
SPB-2-200	2517
SPB-2-212	2517
SPB-2-224	2517
SPB-2-236	2517
SPB-2-250	2517
SPB-2-280	2517
SPB-2-300	2517
SPB-2-315	2517
SPB-2-335	2517
SPB-2-355	3020
SPB-2-400	3020
SPB-2-450	3020
SPB-2-500	3020
SPB-2-560	---
SPB-2-630	3030

SPB PULLEY



SPB / 3

PULLEY DIAMETER (Ø)	BUSH NUMBER
SPB-3-100	1610
SPB-3-106	1610
SPB-3-112	1610
SPB-3-118	1610
SPB-3-125	2012
SPB-3-132	2012
SPB-3-140	2012
SPB-3-150	2517
SPB-3-160	2517
SPB-3-170	2517
SPB-3-180	2517
SPB-3-190	2517
SPB-3-200	2517
SPB-3-212	2517
SPB-3-224	2517
SPB-3-236	2517
SPB-3-250	3020
SPB-3-280	3020
SPB-3-300	3020
SPB-3-315	3020
SPB-3-335	3020
SPB-3-355	3020
SPB-3-400	3535
SPB-3-450	3535
SPB-3-500	3535
SPB-3-560	---
SPB-3-630	3535

SPB / 4

PULLEY DIAMETER (Ø)	BUSH NUMBER
SPB-4-100	1210
SPB-4-106	1610
SPB-4-112	1610
SPB-4-118	1610
SPB-4-125	2012
SPB-4-132	2012
SPB-4-140	2517
SPB-4-150	2517
SPB-4-160	2517
SPB-4-170	2517
SPB-4-180	2517
SPB-4-190	2517
SPB-4-200	3020
SPB-4-212	3020
SPB-4-224	3020
SPB-4-236	3020
SPB-4-250	3020
SPB-4-280	3020
SPB-4-300	3020
SPB-4-315	3535
SPB-4-335	3535
SPB-4-355	3535
SPB-4-400	3535
SPB-4-450	3535
SPB-4-500	3535
SPB-4-560	3535
SPB-3-630	3535

SPB PULLEY



SPB / 5

PULLEY DIAMETER (Ø)	BUSH NUMBER
SPB-5-125	2012
SPB-5-132	2517
SPB-5-140	2517
SPB-5-150	2517
SPB-5-160	2517
SPB-5-170	3020
SPB-5-180	3020
SPB-5-190	3020
SPB-5-200	3020
SPB-5-212	3020
SPB-5-224	3020
SPB-5-236	3535
SPB-5-250	3535
SPB-5-280	3535
SPB-5-300	3535
SPB-5-315	3535
SPB-5-335	3535
SPB-5-355	3535
SPB-5-400	3535
SPB-5-450	3535
SPB-5-500	3535
SPB-5-560	4040
SPB-5-630	4040

SPB / 6

PULLEY DIAMETER (Ø)	BUSH NUMBER
SPB-6-125	2012
---	---
SPB-6-140	2517
SPB-6-150	2517
SPB-6-160	3020
SPB-6-170	3020
SPB-6-180	3020
SPB-6-190	3020
SPB-6-200	3020
SPB-6-212	3535
SPB-6-224	3535
SPB-6-236	3535
SPB-6-250	3535
SPB-6-280	3535
SPB-6-300	3535
SPB-6-315	3535
SPB-6-335	3535
SPB-6-355	3535
SPB-6-400	3535
SPB-6-450	4040
SPB-6-500	4040

SPC PULLEY



SPC / 3

PULLEY DIAMETER (Ø)	BUSH NUMBER
SPC-3-200	2517
SPC-3-212	3020
SPC-3-224	3020
SPC-3-236	3020
SPC-3-250	3020
SPC-3-265	3535
SPC-3-280	3535
SPC-3-300	3535
SPC-3-315	3535
SPC-3-335	3535
SPC-3-355	3535
SPC-3-375	3535
SPC-3-400	3535
SPC-3-425	3535
SPC-3-450	3535
SPC-3-475	3535
SPC-3-500	3535
SPC-3-530	3535
SPC-3-560	3535
SPC-3-630	4040
SPC-3-710	4040
SPC-3-800	4545
SPC-3-1000	5050
SPC-3-1250	5050

SPC / 4

PULLEY DIAMETER (Ø)	BUSH NUMBER
SPC-4-200	3020
SPC-4-212	3020
SPC-4-224	3535
SPC-4-236	3535
SPC-4-250	3535
SPC-4-265	3535
SPC-4-280	3535
SPC-4-300	3535
SPC-4-315	3535
SPC-4-335	3535
SPC-4-355	3535
SPC-4-375	3535
SPC-4-400	3535
SPC-4-425	3535
SPC-4-450	3535
SPC-4-475	3535
SPC-4-500	3535
SPC-4-530	4040
SPC-4-560	4040
SPC-4-630	4545
SPC-4-710	5050
SPC-4-800	5050
SPC-4-1000	5050
SPC-4-1250	5050

SPC PULLEY



SPC / 5

PULLEY DIAMETER (Ø)	BUSH NUMBER
SPC-5-200	3535
SPC-5-212	3535
SPC-5-224	3535
SPC-5-236	3535
SPC-5-250	3535
SPC-5-265	3535
SPC-5-280	3535
SPC-5-300	3535
SPC-5-315	3535
SPC-5-335	3535
SPC-5-355	3535
SPC-5-375	3535
SPC-5-400	3535
SPC-5-425	3535
SPC-5-450	4040
SPC-5-475	4040
SPC-5-500	4040
SPC-5-530	4545
SPC-5-560	4545
SPC-5-630	5050
SPC-5-710	5050
SPC-5-800	5050
SPC-5-1000	5050
SPC-5-1250	5050

SPC / 6

PULLEY DIAMETER (Ø)	BUSH NUMBER
SPC-6-200	3535
SPC-6-212	3535
SPC-6-224	3535
SPC-6-236	3535
SPC-6-250	3535
SPC-6-265	3535
SPC-6-280	3535
SPC-6-300	3535
SPC-6-315	3535
SPC-6-335	3535
SPC-6-355	3535
SPC-6-375	4040
SPC-6-400	4040
SPC-6-425	4545
SPC-6-450	4545
SPC-6-475	4545
SPC-6-500	4545
SPC-6-530	4545
SPC-6-560	5050
SPC-6-630	5050
SPC-6-710	5050
SPC-6-800	5050
SPC-6-1000	5050
SPC-6-1250	5050

SPC PULLEY



SPC / 8

PULLEY DIAMETER (Ø)	BUSH NUMBER
SPC-8-200	3535
SPC-8-212	3535
SPC-8-224	3535
SPC-8-236	3535
SPC-8-250	3535
SPC-8-265	3535
SPC-8-280	3535
SPC-8-300	4040
SPC-8-315	4040
SPC-8-335	4040
SPC-8-355	4040
SPC-8-375	4545
SPC-8-400	4545
SPC-8-425	4545
SPC-8-450	5050
SPC-8-475	5050
SPC-8-500	5050
SPC*8-530	5050
SPC-8-560	5050
SPC-8-630	5050
SPC-8-710	5050
SPC-8-800	5050
SPC-8-1000	5050
SPC-8-1250	5050

SPC / 10

PULLEY DIAMETER (Ø)	BUSH NUMBER
---	---
---	---
---	---
---	---
---	---
SPC-10-250	4040
SPC-10-265	4040
SPC-10-280	4040
SPC-10-300	4545
SPC-10-315	4545
SPC-10-335	4545
SPC-10-355	4545
SPC-10-375	4545
SPC-10-400	5050
SPC-10-425	---
SPC-10-450	5050
SPC-10-475	---
SPC-10-500	5050
SPC-10-530	5050
SPC-10-560	5050
SPC-10-630	5050
SPC-10-710	5050
SPC-10-800	5050
SPC-10-1000	5050
SPC-10-1250	5050

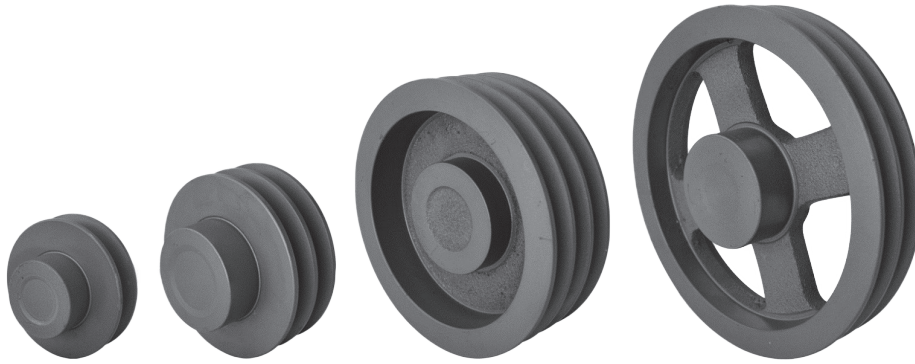
CONICAL BUSHINGS



Conical Bushings

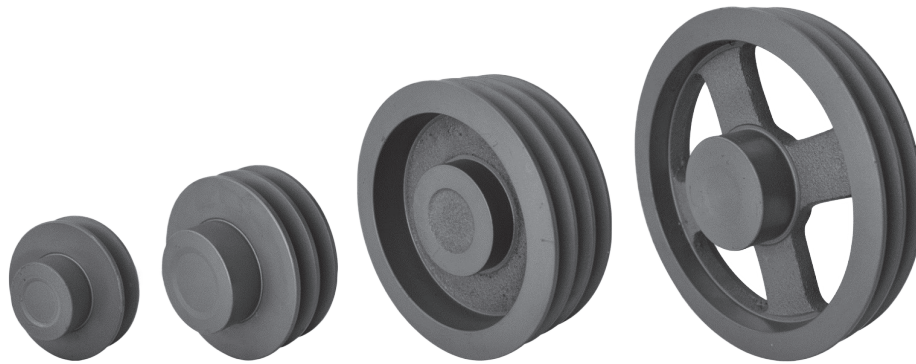
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1008	9	10	11	12	14	16	18	19	20	22	24	25				
1108	9	10	11	12	14	16	18	19	20	22	24	25	28			
1210	12	14	16	18	19	20	22	24	25	28	30					
1610	14	16	18	19	20	22	24	25	28	30	32	35	38	40	42	
2012	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50
2517	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55	60
3020	25	28	30	32	35	38	40	42	45	48	50	55	60	65	70	75
3535	35	38	40	42	45	48	50	55	60	65	70	75	80	85	90	
4040	40	42	45	48	50	55	60	65	70	75	80	85	90	95	100	
4545	45	48	50	55	60	65	70	75	80	85	90	95	100	110		
5050	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125

13-17 V PULLEYS




PULLEY DIAMETER (Ø)	DIMENSION (mm)					
	13-17 mm	13-17 mm	13-17 mm	13-17 mm	17 mm	17 mm
50	Single	Dual	----	----	----	----
60	Single	Dual	Triple	----	----	----
70	Single	Dual	Triple	----	----	----
75	Single	Dual	Triple	Quaternary	----	----
80	Single	Dual	Triple	Quaternary	----	----
90	Single	Dual	Triple	Quaternary	----	----
100	Single	Dual	Triple	Quaternary	Quinary	Six
110	Single	Dual	Triple	Quaternary	Quinary	Six
120	Single	Dual	Triple	Quaternary	Quinary	Six
125	Single	Dual	Triple	Quaternary	Quinary	Six
130	Single	Dual	Triple	Quaternary	Quinary	Six
140	Single	Dual	Triple	Quaternary	Quinary	Six
150	Single	Dual	Triple	Quaternary	Quinary	Six
160	Single	Dual	Triple	Quaternary	Quinary	Six
170	Single	Dual	Triple	Quaternary	Quinary	Six
175	Single	Dual	Triple	Quaternary	Quinary	Six
180	Single	Dual	Triple	Quaternary	Quinary	Six
190	Single	Dual	Triple	Quaternary	Quinary	Six
200	Single	Dual	Triple	Quaternary	Quinary	Six
225	Single	Dual	Triple	Quaternary	Quinary	Six
250	Single	Dual	Triple	Quaternary	Quinary	Six
275	Single	Dual	Triple	Quaternary	Quinary	Six
300	Single	Dual	Triple	Quaternary	Quinary	Six
325	Single	Dual	Triple	Quaternary	Quinary	Six
350	Single	Dual	Triple	Quaternary	Quinary	Six
375	Single	Dual	Triple	Quaternary	Quinary	Six
400	Single	Dual	Triple	Quaternary	Quinary	Six
450	Single	Dual	Triple	Quaternary	Quinary	Six
500	Single	Dual	Triple	Quaternary	Quinary	Six
550	Single	Dual	Triple	Quaternary	Quinary	Six
600	Single	Dual	Triple	Quaternary	Quinary	Six
650	----	Dual	Triple	Quaternary	Quinary	Six
700	----	Dual	Triple	Quaternary	Quinary	Six
800	----	----	----	Quaternary	Quinary	Six

22 V PULLEYS



PULLEY DIAMETER (Ø)	DIMENSION (mm)				
	22 mm	22 mm	22 mm	22 mm	22 mm
100	Single	Dual	Triple	Quaternary	Quinary
110	Single	Dual	Triple	Quaternary	Quinary
125	Single	Dual	Triple	Quaternary	Quinary
140	Single	Dual	Triple	Quaternary	Quinary
150	Single	Dual	Triple	Quaternary	Quinary
160	Single	Dual	Triple	Quaternary	Quinary
175	Single	Dual	Triple	Quaternary	Quinary
200	Single	Dual	Triple	Quaternary	Quinary
225	Single	Dual	Triple	Quaternary	Quinary
240	Single	Dual	Triple	Quaternary	Quinary
250	Single	Dual	Triple	Quaternary	Quinary
260	Single	Dual	Triple	Quaternary	Quinary
275	Single	Dual	Triple	Quaternary	Quinary
280	Single	Dual	Triple	Quaternary	Quinary
300	Single	Dual	Triple	Quaternary	Quinary
325	Single	Dual	Triple	Quaternary	Quinary
350	Single	Dual	Triple	Quaternary	Quinary
375	Single	Dual	Triple	Quaternary	Quinary
400	Single	Dual	Triple	Quaternary	Quinary
450	----	Dual	Triple	Quaternary	Quinary
500	----	Dual	Triple	Quaternary	Quinary
550	----	Dual	Triple	Quaternary	Quinary
600	----	Dual	Triple	Quaternary	Quinary
650	----	----	Triple	Quaternary	Quinary
700	----	----	Triple	Quaternary	Quinary
800	----	----	Triple	Quaternary	Quinary

SN 500 - SERIAL PILLOW BLOCK HOUSING

	SHAFT DIAMETER (Ø)	SERIAL NUMBER	SHAFT DIAMETER (Ø)	SERIAL NUMBER	SHAFT DIAMETER (Ø)	SERIAL NUMBER
	20	SN 505	55	SN 512	90	SN 520
	25	SN 506	60	SN 513	100	SN 522
	30	SN 507	65	SN 515	110	SN 524
	35	SN 508	70	SN 516	115	SN 526
	40	SN 509	75	SN 517	125	SN 528
	45	SN 510	80	SN 518	135	SN 530
	50	SN 511	85	SN 519	140	SN 532



SNA 500 – 600 SERIAL PILLOW BLOCK HOUSING

SHAFT DIAMETER (Ø)	SERIAL NUMBER	SHAFT DIAMETER (Ø)	SERIAL NUMBER
20	SNA-505	20	
25	SNA-506	25	SNA-605
30	SNA-507	30	SNA-606
35	SNA-508		SNA-607
40	SNA-509	35	
45	SNA-510	40	SNA-608
50	SNA-511	45	SNA-609
55	SNA-512	50	SNA-610
60	SNA-513	55	SNA-611
65	SNA-515	60	SNA-612
70	SNA-516		SNA-613
75	SNA-517	65	
80	SNA-518	70	SNA-615
85	SNA-519	75	SNA-616
90	SNA-520	80	SNA-617
		85	SNA-618
100	SNA-522	90	SNA-619
110	SNA-524		SNA-620
115	SNA-526		
125	SNA-528		
135	SNA-530		
140	SNA-532		

SNA 500 – 600 SERIAL SPARE GASKET

SHAFT DIAMETER (Ø)	SERIAL NUMBER	SHAFT DIAMETER (Ø)	SERIAL NUMBER
	SNA-505		
	SNA-506		SNA-605
	SNA-507		SNA-606
	SNA-508		SNA-607
	SNA-509		
	SNA-510		SNA-608
	SNA-511		SNA-609
	SNA-512		SNA-610
	SNA-513		SNA-611
	SNA-515		SNA-612
	SNA-516		SNA-613
	SNA-517		
	SNA-518		SNA-615
	SNA-519		SNA-616
	SNA-520		SNA-617
			SNA-618
	SNA-522		SNA-619
	SNA-524		SNA-620
	SNA-526		
	SNA-528		
	SNA-530		
	SNA-532		



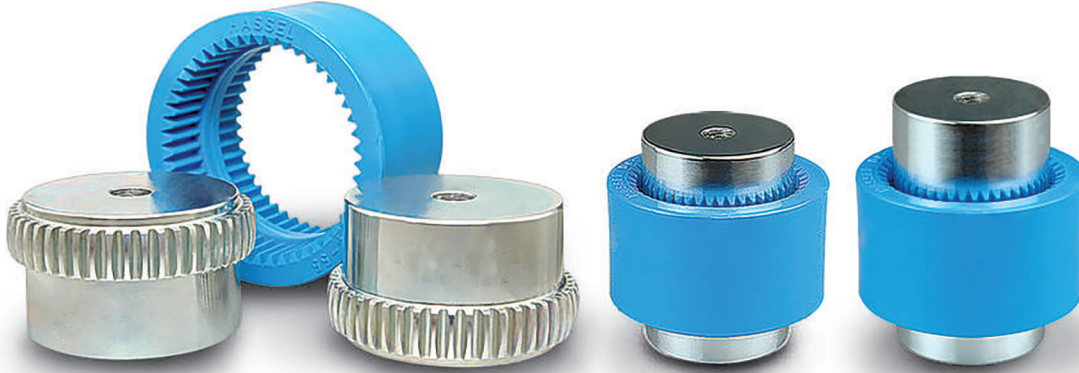
LOCATING RINGS

DIAMETER (Ø)	DIAMETER (Ø)
52x3,5	230x13
62x6	240x10
72x5,5	250x15
80x8	260x10
85x3,5	270x10
90x9	270x16,5
100x9,5	280x10
110x10	280x17
120x10	290x10
130x12,5	290x17
140x12,5	300x10
150x12,5	310x10
160x12,5	320x10
170x12,5	340x10
180x10	360x10
180x12	360x12
200x10	370x10
200x13,5	400x10
210x10	400x22
215x14	420x10
225x10	440x10

OLDHAM COUPLING

OLDHAM COUPLING DIAMETER (Ø)	SPARE TYRE OF COUPLING DIAMETER (Ø)
65	65
80	80
95	95
110	110
125	125
140	140
160	160
180	180
200	200
225	225
250	250

ELASTIC GEAR COUPLINGS



ELASTIC GEAR COUPLINGS (CLUTCH)

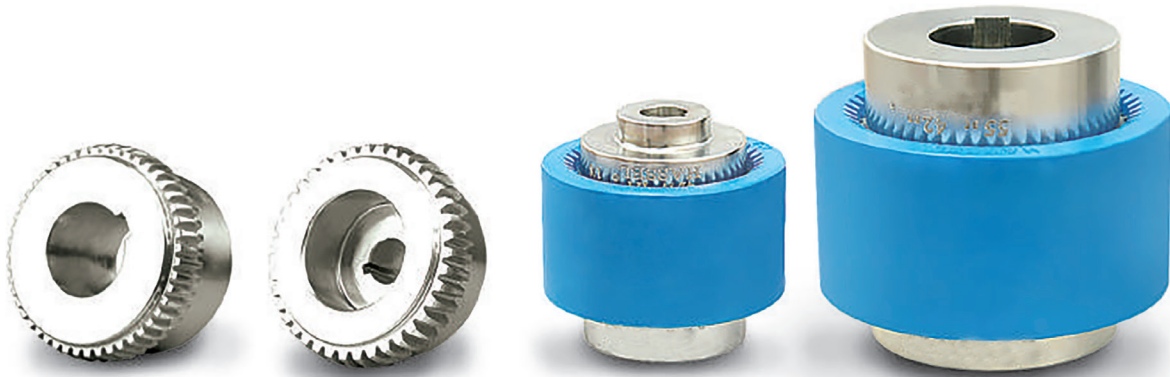
CODE
14 DÇ (PL)
14 DÇ (ÇL)
24 DÇ
28 DÇ
32 DÇ
38 DÇ
42 DÇ
48 DÇ
55 DÇ
60 DÇ

ELASTIC LONG GEAR COUPLINGS (TOOL)

CODE
14 DÇ (ÇL)
24 DÇ
28 DÇ
32 DÇ
38 DÇ
42 DÇ
48 DÇ
55 DÇ
60 DÇ
60 DÇ

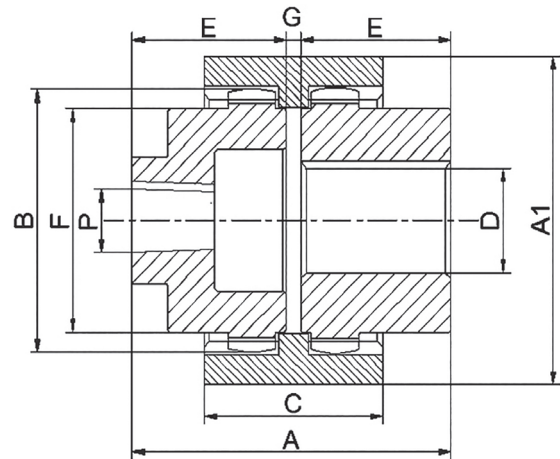
DIMENSIONS	MACHINED COUPLING DIMENSIONS												KW	HP	
	A	A1	B	F	E	C	G	ENGINE (D)			PUMP (P)				
14 DÇP	44	40	33	23	21	28	1							0,25-0,37	0,35-0,50
14 DÇ	51	40	33	24	24	28	3				14	0P1	1P1	0,25-0,37	0,35-0,50
24 DÇ	58	54	44	35	28	34	2		14	19	24	0P1	1P1	1.1-1.5	1,5-2
28 DÇ	82	68	56	45	40	40	2	14	19	24	28	1P1	2P1	2,2-4	3-5,5
32 DÇ	83	76	59	49	40	45	3		19	24	28	1P1	2P1	2,2-4	3-5,5
38 DÇ	85	84	68	57	42	48	2		24	28	38	1P1	2P1	5,5-7,5	7,5-10
42 DÇ	86	88	71	60	42	50	2	24	28	38	42	1P1	2P1	11,-5	15-20
48 DÇ	100	100	78	65	47	51	3	28	38	42	48	1P1	2P1	18,5-22	25-30
55 DÇ	114	120	98	85	55	63	3	38	42	48	55	1P1	2P1	30	40
60 D	138	140	111	98	68	71	2	42	48	55	60	1P1	2P1	37-45	50-60

MACHINED ELASTIC GEAR COUPLINGS



MACHINED ELASTIC GEAR COUPLINGS

CODE	FINISHED PUMP SIZE	FINISHED ENGINE ML SIZE
14 DÇ (ÇL)	0P1 - 1P1	14
24 DÇ	0P1 - 1P1	14 - 19 - 24
28 DÇ	0P1 - 1P1 - 2P1	14 - 19 - 24 - 28
32 DÇ	1P1 - 2P1	19 - 24 - 28
38 DÇ	1P1 - 2P1	24 - 28 - 38
42 DÇ	1P1 - 2P1	24 - 28 - 38 - 42
48 DÇ	1P1 - 2P1	28 - 38 - 42 - 48
55 DÇ	1P1 - 2P1	38 - 42 - 48 - 55
60 DÇ	1P1 - 2P1	42 - 48 - 55 - 60



DIMENSIONS	MACHINED COUPLING DIMENSIONS												KW	HP	
	A	A1	B	F	E	C	G	ENGINE (D)			PUMP (P)				
14 DÇP	44	40	33	23	21	28	1							0,25-0,37	0,35-0,50
14 DÇ	51	40	33	24	24	28	3				14	0P1	1P1	0,25-0,37	0,35-0,50
24 DÇ	58	54	44	35	28	34	2		14	19	24	0P1	1P1	1.1-1.5	1,5-2
28 DÇ	82	68	56	45	40	40	2	14	19	24	28	1P1	2P1	2,2-4	3-5,5
32 DÇ	83	76	59	49	40	45	3		19	24	28	1P1	2P1	2,2-4	3-5,5
38 DÇ	85	84	68	57	42	48	2		24	28	38	1P1	2P1	5,5-7,5	7,5-10
42 DÇ	86	88	71	60	42	50	2	24	28	38	42	1P1	2P1	11,-5	15-20
48 DÇ	100	100	78	65	47	51	3	28	38	42	48	1P1	2P1	18,5-22	25-30
55 DÇ	114	120	98	85	55	63	3	38	42	48	55	1P1	2P1	30	40
60 D	138	140	111	98	68	71	2	42	48	55	60	1P1	2P1	37-45	50-60

5	6	8	10
5 * 5 * 10	6 * 6 * 10	8 * 7 * 10	10 * 8 * 10
5 * 5 * 15	6 * 6 * 15	8 * 7 * 15	10 * 8 * 15
5 * 5 * 20	6 * 6 * 20	8 * 7 * 20	10 * 8 * 20
5 * 5 * 25	6 * 6 * 25	8 * 7 * 25	10 * 8 * 25
5 * 5 * 30	6 * 6 * 30	8 * 7 * 30	10 * 8 * 30
5 * 5 * 35	6 * 6 * 35	8 * 7 * 35	10 * 8 * 35
5 * 5 * 40	6 * 6 * 40	8 * 7 * 40	10 * 8 * 40
5 * 5 * 45	6 * 6 * 45	8 * 7 * 45	10 * 8 * 45
5 * 5 * 50	6 * 6 * 50	8 * 7 * 50	10 * 8 * 50
5 * 5 * 55	6 * 6 * 55	8 * 7 * 55	10 * 8 * 55
5 * 5 * 60	6 * 6 * 60	8 * 7 * 60	10 * 8 * 60
5 * 5 * 65	6 * 6 * 65	8 * 7 * 65	10 * 8 * 65
5 * 5 * 70	6 * 6 * 70	8 * 7 * 70	10 * 8 * 70
5 * 5 * 75	6 * 6 * 75	8 * 7 * 75	10 * 8 * 75
5 * 5 * 80	6 * 6 * 80	8 * 7 * 80	10 * 8 * 80
5 * 5 * 85	6 * 6 * 85	8 * 7 * 85	10 * 8 * 85
5 * 5 * 90	6 * 6 * 90	8 * 7 * 90	10 * 8 * 90
5 * 5 * 95	6 * 6 * 95	8 * 7 * 95	10 * 8 * 95
5 * 5 * 100	6 * 6 * 100	8 * 7 * 100	10 * 8 * 100
5 * 5 * 120	6 * 6 * 120	8 * 7 * 120	10 * 8 * 120
5 * 5 * 150	6 * 6 * 150	8 * 7 * 150	10 * 8 * 150
5 * 5 * 250	6 * 6 * 250	8 * 7 * 250	10 * 8 * 250
5 * 5 * 100	6 * 6 * 1000	8 * 7 * 1000	10 * 8 * 1000



12	14	16	18	20
12 * 8 * 20	14 * 9 * 20	16 * 10 * 20	18 * 11 * 20	20 * 12 * 20
12 * 8 * 25	14 * 9 * 25	16 * 10 * 25	18 * 11 * 25	20 * 12 * 25
12 * 8 * 30	14 * 9 * 30	16 * 10 * 30	18 * 11 * 30	20 * 12 * 30
12 * 8 * 35	14 * 9 * 35	16 * 10 * 35	18 * 11 * 35	20 * 12 * 35
12 * 8 * 40	14 * 9 * 40	16 * 10 * 40	18 * 11 * 40	20 * 12 * 40
12 * 8 * 45	14 * 9 * 45	16 * 10 * 45	18 * 11 * 45	20 * 12 * 45
12 * 8 * 50	14 * 9 * 50	16 * 10 * 50	18 * 11 * 50	20 * 12 * 50
12 * 8 * 55	14 * 9 * 55	16 * 10 * 55	18 * 11 * 55	20 * 12 * 55
12 * 8 * 60	14 * 9 * 60	16 * 10 * 60	18 * 11 * 60	20 * 12 * 60
12 * 8 * 65	14 * 9 * 65	16 * 10 * 65	18 * 11 * 65	20 * 12 * 65
12 * 8 * 70	14 * 9 * 70	16 * 10 * 70	18 * 11 * 70	20 * 12 * 70
12 * 8 * 75	14 * 9 * 75	16 * 10 * 75	18 * 11 * 75	20 * 12 * 75
12 * 8 * 80	14 * 9 * 80	16 * 10 * 80	18 * 11 * 80	20 * 12 * 80
12 * 8 * 85	14 * 9 * 85	16 * 10 * 85	18 * 11 * 85	20 * 12 * 85
12 * 8 * 90	14 * 9 * 90	16 * 10 * 90	18 * 11 * 90	20 * 12 * 90
12 * 8 * 95	14 * 9 * 95	16 * 10 * 95	18 * 11 * 95	20 * 12 * 95
12 * 8 * 100	14 * 9 * 100	16 * 10 * 100	18 * 11 * 100	20 * 12 * 100
12 * 8 * 120	14 * 9 * 120	16 * 10 * 120	18 * 11 * 120	20 * 12 * 120
12 * 8 * 150	14 * 9 * 150	16 * 10 * 150	18 * 11 * 150	20 * 12 * 150
12 * 8 * 250	14 * 9 * 250	16 * 10 * 250	18 * 11 * 250	20 * 12 * 250
12 * 8 * 1000	14 * 9 * 1000	16 * 10 * 1000	18 * 11 * 1000	20 * 12 * 1000

hard chrome plated shafts and carbon steel material are used in the hydraulic industry, in construction machines, on the lifts, hydraulic cylinder and on vehicle equipment. After grinding the carbon steel surface, chrome plating is done and then the surface smoothness is brought to the f7 tolerance with superfinish. Hard chrome plated spindles are chrome plated at 20-25 microns at point. NSS Salt corrosion tested to the desired standards is checked. Our raw materials with spectrometer production after analysis is taken. Eddy in production Current crack control check is done. Diction Hardened Chrome Plated Shaft or Hard Chrome Plated Two types as shaft product has.





FILİBE RULMAN

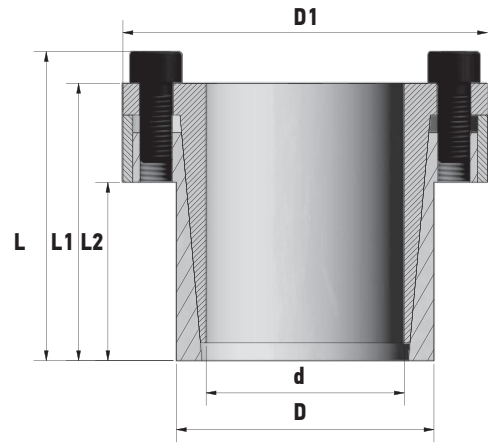
MAKİNA İMALAT İTHALAT İHRACAT LTD.ŞTİ.

www.filiberulman.com

**STANDART SERIAL
CONICAL LOCKS**

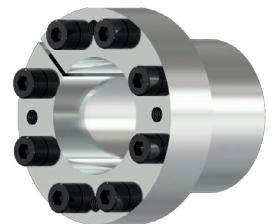
STANDART SERIAL CONICAL LOCKS **CTL 100**

- Self centering,
- Ideal for medium and high torque requiring. Check CTL 100M for smaller diameters.
- H8-h8, Ra≤3,2



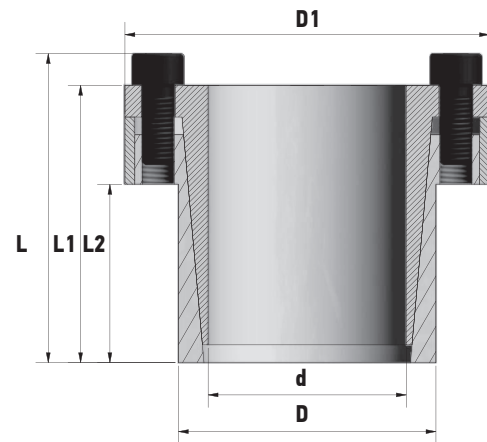
100 ORDER CODE	DIMENSIONS						JOINING ELEMENTS			ACHIEVEMENTS					WEIGHT
	d	D	D1	L2	L1	L	DIN 912		Ma	Mt	Fass	Ph	Ps	kg	
	mm	mm	mm	mm	mm	mm	Ad.	12.9 Type	Nm	Nm	kN	N/mm ²	N/mm ²		
CTL100 - 22	22	32	54	25	45	51	4	M6	17	250	22	115	80	0,34	
CTL100 - 24	24	34	56	25	45	51	4	M6	17	270	22	105	75	0,36	
CTL100 - 25	25	34	56	25	45	51	4	M6	17	280	22	100	75	0,35	
CTL100 - 28	28	39	61	25	45	51	6	M6	17	465	33	135	97	0,48	
CTL100 - 30	30	41	62	25	45	51	6	M6	17	510	33	127	90	0,48	
CTL100 - 32	32	43	65	25	45	51	6	M6	17	540	33	120	90	0,47	
CTL100 - 35	35	47	69	32	52	58	6	M6	17	790	45	105	80	0,58	
CTL100 - 38	38	50	72	32	52	58	8	M6	17	860	45	100	75	0,61	
CTL100 - 40	40	53	75	32	52	58	8	M6	17	900	45	95	70	0,68	
CTL100 - 42	42	55	78	32	52	58	8	M6	17	950	45	90	70	0,76	
CTL100 - 45	45	59	86	45	70	78	8	M8	41	1.890	84	110	85	1,2	
CTL100 - 48	48	62	87	45	70	78	8	M8	41	2.010	84	105	80	1,2	
CTL100 - 50	50	65	92	45	70	78	8	M8	41	2.100	84	100	75	1,4	
CTL100 - 55	55	71	98	55	80	88	9	M8	41	2.600	94	85	65	1,6	
CTL100 - 60	60	77	104	55	80	88	9	M8	41	2.840	94	75	60	1,8	
CTL100 - 65	65	84	111	55	80	88	9	M8	41	3.070	94	70	55	2,1	
CTL100 - 70	70	90	119	65	96	106	9	M10	83	5.250	150	90	70	3	
CTL100 - 75	75	95	126	65	96	106	10	M10	83	5.600	150	80	65	3,0	
CTL100 - 80	80	100	131	65	96	106	12	M10	83	8.020	200	100	80	3,5	
CTL100 - 85	85	106	137	65	96	106	12	M10	83	8.500	200	95	75	3,6	
CTL100 - 90	90	112	144	65	96	106	12	M10	83	9.000	200	90	75	3,9	
CTL100 - 95	95	120	149	65	96	106	14	M10	83	11.000	230	100	80	4,4	
CTL100 - 100	100	125	154	65	96	106	18	M10	83	15.000	300	120	95	4,6	
CTL100 - 110	110	140	180	90	128	140	12	M12	145	16.000	290	80	65	8,7	
CTL100 - 120	120	155	198	90	128	140	12	M12	145	17.500	290	70	55	10,6	
CTL100 - 130	130	165	208	90	128	140	16	M12	145	25.000	384	90	70	11,3	

- d** Inner Diameter
- D** Outer Diameter
- D1** Output Shaft
- L** Total Length
- L1** Length Excluding Bolts
- L2** Surface Contact Length
- Mt** Max. Transferable Torque (Fass=0 kN)
- Fass** Max. Transferable axial load (Mt=0 Nm)
- Ps** Shaft Contact Pressure
- Ph** Core Diameter Contact Pressure
- Ma** Screw Tightening Torque



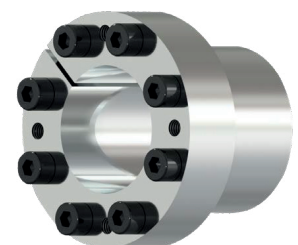
STANDART SERIAL CONICAL LOCKS **CTL 100M**

- Self centering,
- Ideal for low torque requiring. Check CTL 100 for bigger diameters.
- H8-h8, Ra≤3,2



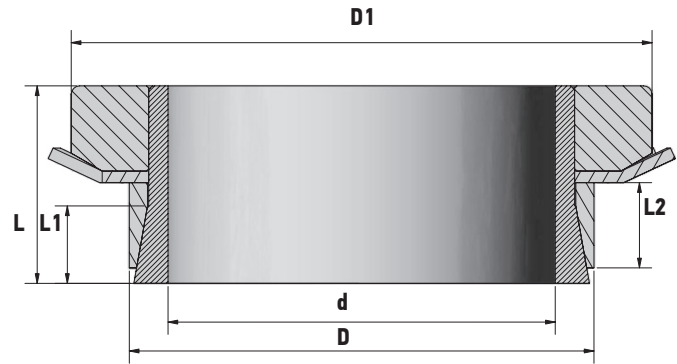
100M ORDER CODE	DIMENSIONS						JOINING ELEMENTS			ACHIEVEMENTS				WEIGHT
	d	D	D1	L2	L1	L	DIN 912		Ma	Mt	Fass	Ph	Ps	kg
	mm	mm	mm	mm	mm	mm	Ad.	12.9 Type	Nm	Nm	kN	N/mm ²	N/mm ²	
CTL100M - 6	6	14	25	10	21	24	3	M3	2	12	4	185	80	0,04
CTL100M - 7	7	15	27	12	25	29	3	M4	5	25	7	235	110	0,06
CTL100M - 8	8	15	27	12	25	29	3	M4	5	29	7	205	110	0,05
CTL100M - 9	9	16	28	14	26	30	4	M4	5	44	10	205	115	0,06
CTL100M - 10	10	16	28	14	26	30	4	M4	5	49	10	185	115	0,06
CTL100M - 11	11	18	32	14	26	30	4	M4	5	53	10	170	105	0,07
CTL100M - 12	12	18	32	14	26	30	4	M4	5	58	10	160	105	0,07
CTL100M - 13	13	23	38	14	26	30	4	M4	5	63	10	140	80	0,11
CTL100M - 14	14	23	38	14	26	30	4	M4	5	68	10	130	80	0,1
CTL100M - 15	15	24	45	16	36	42	3	M6	17	127	17	185	115	0,22
CTL100M - 16	16	24	45	16	36	42	3	M6	17	136	17	175	115	0,22
CTL100M - 17	17	26	47	18	38	44	4	M6	17	180	22	190	125	0,25
CTL100M - 18	18	26	47	18	38	44	4	M6	17	200	22	180	125	0,24
CTL100M - 19	19	27	49	18	38	44	4	M6	17	210	22	170	120	0,26
CTL100M - 20	20	28	50	18	38	44	4	M6	17	220	22	160	115	0,27

- d** Inner Diameter
- D** Outer Diameter
- D1** Output Shaft
- L** Total Length
- L1** Length Excluding Bolts
- L2** Surface Contact Length
- Mt** Max. Transferable Torque (Fass=0 kN)
- Fass** Max. Transferable axial load (Mt=0 Nm)
- Ps** Shaft Contact Pressure
- Ph** Core Diameter Contact Pressure
- Ma** Screw Tightening Torque



STANDART SERIAL CONICAL LOCKS **CTL 110**

- Self centering,
- Ideal for low torque requiring.
- H8-h8, Ra≤3,2



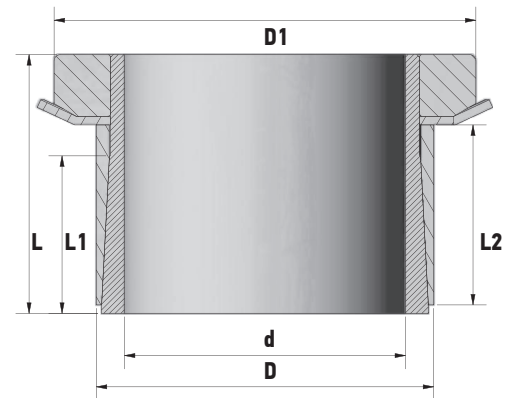
110 ORDER CODE	DIMENSIONS						JOINING ELEMENTS		ACHIEVEMENTS				WEIGHT
	d	D	D1	L2	L1	L	NUT	Ma	Mt	Fass	Ph	Ps	
	mm	mm	mm	mm	mm	mm		Nm	Nm	kN	N/mm ²	N/mm ²	kg
CTL110 - 14	14	25	32	6,5	8,5	16,5	KM4	96	59	8	246	138	0,05
CTL110 - 15	15	25	32	6,5	8,5	16,5	KM4	79	59	8	189	113	0,05
CTL110 - 16	16	25	32	6,5	8,5	16,5	KM4	61	43	5	137	88	0,048
CTL110 - 17	17	25	32	6,5	8,5	16,5	KM4	47	35	4	98	67	0,042
CTL110 - 18	18	30	38	7	8,5	17	KM5	166	112	12	262	157	0,08
CTL110 - 19	19	30	38	7	8,5	17	KM5	140	99	10	209	132	0,075
CTL110 - 20	20	30	38	7	8,5	17	KM5	112	84	8	159	106	0,07
CTL110 - 22	22	35	45	7	8,5	17	KM6	220	143	13	224	141	0,1
CTL110 - 24	24	35	45	7	8,5	17	KM6	206	124	10	192	132	0,094
CTL110 - 25	25	35	45	7	8,5	17	KM6	164	97	8	138	99	0,09
CTL110 - 28	28	40	52	8	10	20	KM7	341	206	15	206	144	0,137
CTL110 - 30	30	40	52	8	10	20	KM7	226	172	11	127	95	0,13
CTL110 - 32	32	45	58	9	11	22	KM8	524	361	23	245	174	0,192
CTL110 - 35	35	45	58	9	11	22	KM8	298	225	13	127	99	0,17
CTL110 - 38	38	50	65	9	11	23	KM9	577	350	18	168	128	0,22
CTL110 - 40	40	50	65	9	11	23	KM9	379	285	14	105	84	0,24
CTL110 - 42	42	55	70	10	11	25,5	KM10	833	571	27	202	154	0,3
CTL110 - 45	45	55	70	10	11	25,5	KM10	469	344	15	106	87	0,27
CTL110 - 48	48	60	75	10	11	25,5	KM11	797	566	24	153	123	0,29
CTL110 - 50	50	60	75	10	11	25,5	KM11	495	431	17	91	76	0,28
CTL110 - 55	55	65	80	12	14	28,5	KM12	592	544	20	94	79	0,33
CTL110 - 60	60	70	85	12	14	29,5	KM13	697	760	25	93	80	0,39

- d** Inner Diameter
- D** Outer Diameter
- D1** KM Nut Outer Diameter
- L** Total Length
- L1** Length Excluding Bolts
- L2** Surface Contact Length
- Ma** Screw Tightening Torque
- Mt** Max. Transferable Torque (Fass=0 kN)
- Fass** Max. Transferable axial load (Mt=0 Nm)
- Ph** Core Diameter Contact Pressure
- Ps** Shaft Contact Pressure



STANDART SERIAL CONICAL LOCKS **CTL 111**

- Self centering,
- Ideal for low torque requiring.
- H8-h8,Ra≤3,2



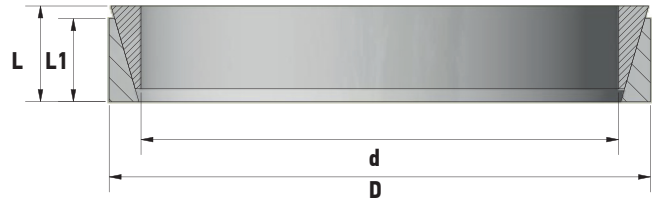
111 ORDER CODE	DIMENSIONS						JOINING ELEMENTS		ACHIEVEMENTS				WEIGHT
	d	D	D1	L2	L1	L	NUT	Ma	Mt	Fass	Ph	Ps	
	mm	mm	mm	mm	mm	mm		Nm	Nm	kN	N/mm ²	N/mm ²	kg
CTL111 - 14	14	25	32	17	21	29	KM4	90	104	15	148	83	0,08
CTL111 - 15	15	25	32	17	21	29	KM4	90	100	13	139	83	0,08
CTL111 - 16	16	25	32	17	21	29	KM4	70	76	10	92	59	0,07
CTL111 - 17	17	25	32	20	20	31	KM4	60	60	7	63	43	0,06
CTL111 - 18	18	30	38	18	22	31	KM5	190	200	22	184	110	0,12
CTL111 - 19	19	30	38	18	22	31	KM5	150	170	18	138	87	0,12
CTL111 - 20	20	30	38	18	22	31	KM5	110	130	13	96	64	0,11
CTL111 - 22	22	35	45	22	25	35	KM6	290	317	29	158	99	0,18
CTL111 - 24	24	35	45	22	25	35	KM6	230	274	23	115	79	0,16
CTL111 - 25	25	35	45	22	25	35	KM6	170	210	17	81	58	0,15
CTL111 - 28	28	40	52	22	25	35	KM7	390	460	33	144	101	0,21
CTL111 - 30	30	40	52	22	25	35	KM7	240	310	21	83	62	0,19
CTL111 - 32	32	45	58	28	31	42	KM8	520	690	43	128	91	0,3
CTL111 - 35	35	45	58	28	31	42	KM8	320	460	26	72	56	0,26
CTL111 - 38	38	50	65	28	32	44	KM9	660	850	45	122	93	0,36
CTL111 - 40	40	50	65	28	32	44	KM9	440	650	32	77	62	0,33
CTL111 - 42	42	55	70	28	32	45	KM10	850	1150	55	129	98	0,44
CTL111 - 45	45	55	70	28	32	45	KM10	550	780	35	78	64	0,39
CTL111 - 48	48	60	75	28	32	46	KM11	850	1250	52	102	82	0,47
CTL111 - 50	50	60	75	28	32	46	KM11	660	850	34	76	63	0,42
CTL111 - 55	55	65	80	28	32	47	KM12	650	950	35	63	53	0,46
CTL111 - 60	60	70	85	28	36	52	KM13	950	1400	47	77	66	0,55

- d** Inner Diameter
- D** Outer Diameter
- D1** KM Nut Outer Diameter
- L** Total Length
- L1** KM Nut Outer diameter
- L2** Surface Contact Length
- Ma** Screw Tightening Torque
- Mt** Max. Transferable Torque (Fass=0 kN)
- Fass** Max. Transferable axial load (Mt=0 Nm)
- Ph** Core Diameter Contact Pressure
- Ps** Shaft Contact Pressure



STANDART SERIAL CONICAL LOCKS CTL 150

- Not-Self centering,
- İdeal for low torque requiring.
- H6-h7<Ø40mm, H8-h8>Ø40mm, Ra≤3,2



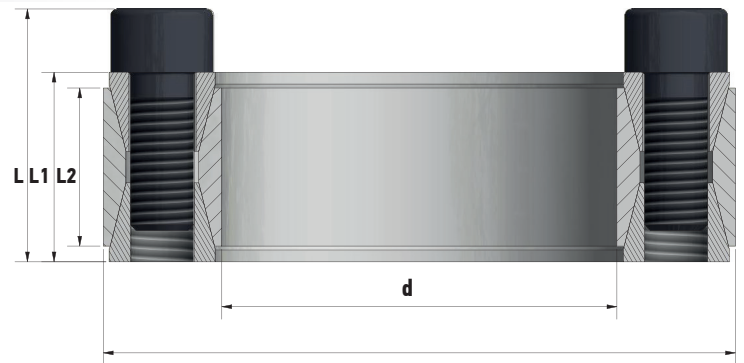
150	DIMENSIONS				ACHIEVEMENTS						FLANŞ DIMENSIYONLARI					WEIGHT	
	d	D	L	L1	Pt	Pa	Mt	Fass	Ps	Ph	d1	D1	1	2	3		4
ORDER CODE	mm	mm	mm	mm	N	N	Nm	kN	N/mm ²	N/mm ²	mm	mm	mm	mm	mm	mm	
CTL 150 - 6	6	9	4,5	3,7	-	3800	2	0,84	115	75	6,1	8,9	2,5	2,5	3	4	0,002
CTL 150 - 7	7	10	4,5	3,7	-	3900	3	0,86	105	70	6,1	9,9	2,5	2,5	3	4	0,002
CTL 150 - 8	8	11	4,5	3,7	-	5300	5	1,17	120	90	8,1	10,9	2,5	2,5	3	4	0,002
CTL 150 - 9	9	12	4,5	3,7	7650	15600	8	1,76	140	105	9,1	11,9	2,5	2,5	3	4	0,002
CTL 150 - 10	10	13	4,5	3,7	7000	15600	10	1,91	135	105	10,1	12,9	2,5	2,5	3	4	0,002
CTL 150 - 12	12	15	4,5	3,7	7000	15600	11	1,9	115	90	12,1	14,9	2,5	2,5	3	4	0,002
CTL 150 - 13	13	16	4,5	3,7	6500	15600	13	2,02	110	90	13,1	15,9	2,5	2,5	3	4	0,004
CTL 150 - 14	14	18	6,3	5,3	11000	25400	22	3,18	115	90	14,1	17,9	3,5	3,5	4,5	5,5	0,005
CTL 150 - 15	15	19	6,3	5,3	10800	25400	24	3,24	110	85	15,1	18,9	3,5	3,5	4,5	5,5	0,005
CTL 150 - 16	16	20	6,3	5,3	10000	25400	27	3,42	105	85	16,1	19,9	3,5	3,5	4,5	5,5	0,006
CTL 150 - 17	17	21	6,3	5,3	9600	25400	30	3,51	105	85	17,1	20,9	3,5	3,5	4,5	5,5	0,006
CTL 150 - 18	18	22	6,3	5,3	9150	25400	32	3,61	100	80	18,1	21,9	3,5	3,5	4,5	5,5	0,007
CTL 150 - 19	19	24	6,3	5,3	12500	36000	49	5,22	140	110	19,2	23,8	3,5	3,5	4,5	5,5	0,007
CTL 150 - 20	20	25	6,3	5,3	12000	36000	53	5,33	135	105	20,2	24,8	3,5	3,5	4,5	5,5	0,009
CTL 150 - 22	22	26	6,3	5,3	900	36000	66	6	135	115	22,5	25,8	3,5	3,5	4,5	5,5	0,007
CTL 150 - 24	24	28	6,3	5,3	8400	36000	73	6,13	130	110	24,2	27,8	3,5	3,5	4,5	5,5	0,008
CTL 150 - 25	25	30	6,3	5,3	10000	36000	72	5,77	115	95	25,2	29,8	3,5	3,5	4,5	5,5	0,009
CTL 150 - 28	28	32	6,3	5,3	7500	36000	88	6,33	115	100	28,2	31,8	3,5	3,5	4,5	5,5	0,01
CTL 150 - 30	30	35	6,3	5,3	8600	36000	91	6,08	100	85	30,2	34,8	3,5	3,5	4,5	5,5	0,011
CTL 150 - 32	32	36	6,3	5,3	7900	45000	131	8,24	130	115	32,2	35,8	3,5	3,5	4,5	5,5	0,011
CTL 150 - 35	35	40	7	6	10000	54000	171	9,77	125	110	35,2	39,8	3,5	3,5	4,5	5,5	0,016
CTL 150 - 36	36	42	7	6	11700	54000	169	9,39	115	100	36,2	41,8	3,5	3,5	4,5	5,5	0,019
CTL 150 - 38	38	44	7	6	11000	54000	181	9,55	110	95	38,2	43,8	3,5	3,5	4,5	5,5	0,021
CTL 150 - 40	40	45	8	6,6	13900	66000	231	11,57	115	105	40,2	44,8	3,5	4,5	5,5	6,5	0,021
CTL 150 - 42	42	48	8	6,6	15550	66000	235	11,22	110	95	42,2	47,8	3,5	4,5	5,5	6,5	0,026
CTL 150 - 45	45	52	10	8,6	28300	99000	353	15,71	105	95	45,2	51,8	3,5	4,5	5,5	6,5	0,045
CTL 150 - 48	48	55	10	8,6	24700	132000	572	23,84	155	135	48,2	54,8	3,5	4,5	5,5	6,5	0,045
CTL 150 - 50	50	57	10	8,6	23600	132000	602	24,08	150	130	50,2	56,8	3,5	4,5	5,5	6,5	0,045
CTL 150 - 55	55	62	10	8,6	21700	132000	670	24,35	140	125	55,2	61,8	3,5	4,5	5,5	6,5	0,049
CTL 150 - 56	56	64	12	10,4	29500	157200	790	28,2	130	115	56,2	63,8	3,5	4,5	5,5	7	0,07
CTL 150 - 60	60	68	12	10,4	27500	157200	860	28,6	125	110	60,2	67,8	3,5	4,5	5,5	7	0,07
CTL 150 - 63	63	71	12	10,4	26500	157200	910	28,8	120	105	63,2	70,8	3,5	4,5	5,5	7	0,08
CTL 150 - 65	65	73	12	10,4	25500	157200	950	29,2	115	100	65,2	72,8	3,5	4,5	5,5	7	0,09
CTL 150 - 70	70	79	14	12,2	31000	209600	1380	39,4	125	110	70,3	78,7	3,5	5	6,5	7,5	0,115
CTL 150 - 71	71	80	14	12,2	31000	209600	1400	39,4	120	110	71,3	79,7	3,5	5	6,5	7,5	0,11
CTL 150 - 75	75	84	14	12,2	34700	209600	1450	38,6	115	100	75,3	83,7	3,5	5	6,5	7,5	0,12
CTL 150 - 80	80	91	17	15	48000	290000	2200	55	125	105	80,3	90,7	7	6	6,5	8	0,21
CTL 150 - 85	85	96	17	15	45500	305000	2400	56,4	120	105	85,3	95,7	4	6	6,5	8	0,21
CTL 150 - 90	90	101	17	15	43600	320000	2730	60,5	120	105	90,3	100,7	4	6	6,5	8	0,22

- d Inner Diameter
- D Outer Diameter
- L Total Length
- L1 Surface Contact Length
- Mt Maximum Transferable Torque (Fass=0 kN)
- Fass Max. Transferable axial load (Mt=0 Nm)
- Ph Core Diameter Contact Pressure
- Ps Shaft Contact Pressure
- Pt Pre-Tensioning Force
- Pa Total Force



STANDART SERIAL CONICAL LOCKS **CTL 200**

- Not-Self centering,
- Ideal for medium and high torque requiring.
- H11-h11, Ra≤3,2



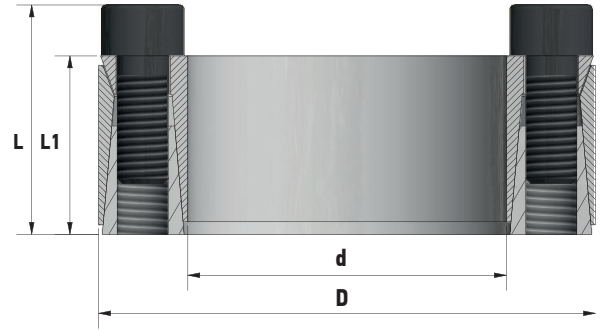
200 ORDER CODE	DIMENSIONS					JOINING ELEMENTS			ACHIEVEMENTS				WEIGHT
	d	D	L2	L1	L	DIN 912		Ma	Mt	Fass	Ps	Ph	kg
	mm	mm	mm	mm	mm	Ad	12.9 Type	Nm	Nm	kN	N/mm ²	N/mm ²	
CTL200 - 18	18	47	17	20	26	8	M6	17	300	33	290	110	0,2
CTL200 - 19	19	47	17	20	26	8	M6	17	310	33	275	110	0,2
CTL200 - 20	20	47	17	20	26	8	M6	17	330	33	260	110	0,2
CTL200 - 22	22	47	17	20	26	8	M6	17	360	33	235	110	0,2
CTL200 - 24	24	50	17	20	26	8	M6	17	390	33	215	105	0,3
CTL200 - 25	25	50	17	20	26	8	M6	17	410	33	205	105	0,3
CTL200 - 28	28	55	17	20	26	10	M6	17	570	41	230	115	0,3
CTL200 - 30	30	55	17	20	26	10	M6	17	610	41	215	115	0,3
CTL200 - 32	32	60	17	20	26	12	M6	17	780	49	240	130	0,3
CTL200 - 35	35	60	17	20	26	12	M6	17	850	49	220	125	0,3
CTL200 - 38	38	65	17	20	26	14	M6	17	1.070	57	235	135	0,4
CTL200 - 40	40	65	17	20	26	14	M6	17	1.120	56	220	135	0,3
CTL200 - 42	42	75	20	24	32	12	M8	41	1.860	89	280	155	0,6
CTL200 - 45	45	75	20	24	32	12	M8	41	1.990	89	260	155	0,6
CTL200 - 48	48	80	20	24	32	12	M8	41	2.120	88	245	145	0,6
CTL200 - 50	50	80	20	24	32	12	M8	41	2.200	88	235	145	0,6
CTL200 - 55	55	85	20	24	32	14	M8	41	2.810	102	245	160	0,6
CTL200 - 60	60	90	20	24	32	14	M8	41	3.050	102	225	150	0,7
CTL200 - 65	65	95	20	24	32	16	M8	41	3.770	116	235	160	0,7
CTL200 - 70	70	110	24	28	38	14	M10	83	5.600	160	255	160	1,3
CTL200 - 75	75	115	24	28	38	14	M10	83	5.970	159	235	155	1,3
CTL200 - 80	80	120	24	28	38	14	M10	83	6.330	158	220	145	1,4
CTL200 - 85	85	125	24	28	38	16	M10	83	7.660	180	235	160	1,4
CTL200 - 90	90	130	24	28	38	16	M10	83	8.080	180	220	155	1,5
CTL200 - 95	95	135	24	28	38	18	M10	83	9.560	201	235	165	1,6
CTL200 - 100	100	145	26	33	45	14	M12	145	11.300	227	230	160	2,2
CTL200 - 110	110	155	26	33	45	14	M12	145	12.400	226	210	150	2,5
CTL200 - 120	120	165	26	33	45	16	M12	145	15.400	258	220	160	2,6
CTL200 - 130	130	180	34	38	50	20	M12	145	20.800	320	190	140	3,8
CTL200 - 140	140	190	34	38	50	22	M12	145	24.500	351	195	145	3,9
CTL200 - 150	150	200	34	38	50	24	M12	145	28.500	381	200	150	4,0
CTL200 - 160	160	210	34	38	50	26	M12	145	32.900	411	200	155	4,3
CTL200 - 170	170	225	38	44	58	22	M14	230	40.400	476	195	150	5,8
CTL200 - 180	180	235	38	44	58	24	M14	230	46.500	518	200	155	6,0
CTL200 - 190	190	250	46	52	66	28	M14	230	57.200	602	185	140	8,5
CTL200 - 200	200	260	46	52	66	30	M14	230	64.200	643	185	145	8,6
CTL200 - 220	220	285	50	56	72	26	M16	355	84.500	769	185	145	11
CTL200 - 240	240	305	50	56	72	30	M16	355	106.000	884	195	155	12
CTL200 - 260	260	325	50	56	72	34	M16	355	129.300	995	205	160	13
CTL200 - 300	280	355	60	66	84	32	M18	485	157.200	1.123	275	140	19
CTL200 - 300	300	375	60	66	84	36	M18	485	188.200	1.255	185	150	20
CTL200 - 320	320	405	72	78	98	32	M20	690	231.000	1.445	178	141	30
CTL200 - 340	340	425	72	78	98	36	M20	690	274.500	1.615	175	140	30
CTL200 - 360	360	455	84	90	112	36	M22	930	360.300	2.002	175	140	42
CTL200 - 380	380	475	84	90	112	36	M22	930	378.700	1.994	165	135	44
CTL200 - 400	400	495	84	90	112	36	M22	930	397.000	1.985	155	125	46

- d Inner Diameter
- D Outer Diameter
- D1 Output Shaft
- L Total Length
- L1 Length Excluding Bolts
- L2 Surface Contact Length
- Mt Maximum Transferable Torque (Fass=0 kN)
- Fass Max. Transferable axial load (Mt=0 Nm)
- Ps Shaft Contact Pressure
- Ph Core Diameter Contact Pressure
- Ma Screw Tightening Torque



STANDART SERIAL CONICAL LOCKS **CTL 210**

- Self centering,
- Ideal for low and medium torque requiring.
- H8-h8, Ra≤3,2



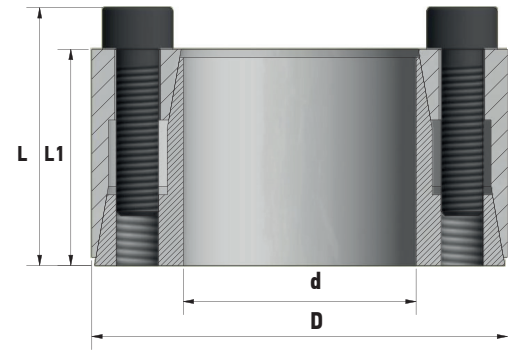
210 ORDER CODE	DIMENSIONS				JOINING ELEMENTS			ACHIEVEMENTS				WEIGHT kg
	d	D	L1	L	DIN 912		Ma	Mt	Fass	Ps	Ph	
	mm	mm	mm	mm	Ad	12.9 Type	Nm	Nm	kN	N/mm ²	N/mm ²	
CTL 210 - 16	16	32	17	21	4	M4	5	82	10	150	75	0,07
CTL 210 - 18	18	40	18	24	4	M6	17	211	23	240	108	0,125
CTL 210 - 19	19	41	18	24	4	M6	17	223	23	228	106	0,125
CTL 210 - 20	20	42	18	24	4	M6	17	235	23	216	103	0,13
CTL 210 - 22	22	44	18	24	4	M6	17	258	23	197	98	0,14
CTL 210 - 24	24	46	18	24	6	M6	17	423	35	270	141	0,15
CTL 210 - 25	25	47	18	24	6	M6	17	440	35	260	138	0,16
CTL 210 - 28	28	50	18	24	6	M6	17	493	35	232	130	0,17
CTL 210 - 30	30	52	18	24	6	M6	17	528	35	216	125	0,175
CTL 210 - 32	32	54	18	24	6	M6	17	564	35	203	120	0,185
CTL 210 - 35	35	57	22	28	8	M6	17	822	47	202	124	0,25
CTL 210 - 36	36	58	22	28	8	M6	17	845	47	197	122	0,25
CTL 210 - 38	38	60	22	28	8	M6	17	892	47	186	118	0,26
CTL 210 - 40	40	62	22	28	8	M6	17	939	47	177	114	0,27
CTL 210 - 42	42	70	28	36	8	M8	41	1.784	85	240	144	0,5
CTL 210 - 45	45	73	28	36	8	M8	41	1.911	85	224	138	0,52
CTL 210 - 48	48	76	28	36	8	M8	41	2.039	85	210	132	0,55
CTL 210 - 50	50	78	28	36	8	M8	41	2.124	85	201	129	0,57
CTL 210 - 60	55	83	28	36	9	M8	41	2.628	96	206	136	0,62
CTL 210 - 60	60	88	28	36	9	M8	41	2.897	96	189	129	0,65
CTL 210 - 65	65	93	28	36	9	M8	41	3.106	96	174	122	0,69
CTL 210 - 70	70	105	35	45	9	M10	81	5.287	151	204	136	1,2
CTL 210 - 75	75	110	35	45	9	M10	81	5.664	151	191	130	1,26
CTL 210 - 80	80	115	35	45	9	M10	81	6.042	151	179	124	1,35
CTL 210 - 85	85	120	35	45	10	M10	81	7.133	168	187	132	1,4
CTL 210 - 90	90	125	35	45	10	M10	81	7.553	168	177	127	1,46
CTL 210 - 100	100	138	35	45	10	M10	81	8.392	168	159	115	1,75

- d** Inner Diameter
- D** Outer Diameter
- D1** Output Shaft
- L** Total Length
- L1** Surface Contact Length
- Ma** Screw Tightening Torque
- Mt** Max. Transferable Torque (Fass=0 kN)
- Fass** Max. Transferable axial load (Mt=0 Nm)
- Ph** Core Diameter Contact Pressure
- Ps** Shaft Contact Pressure



STANDART SERIAL CONICAL LOCKS **CTL 250**

- Self centering,
- Ideal for low and medium torque requiring.
- H8-h8, Ra≤3,2



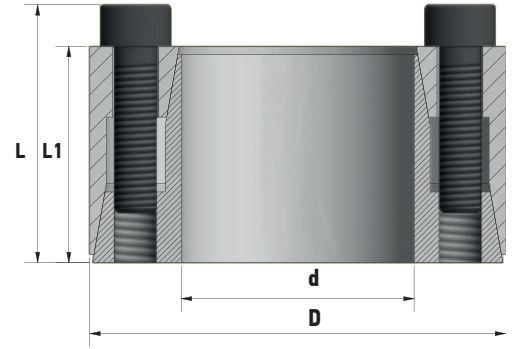
250 ORDER CODE	DIMENSIONS				JOINING ELEMENTS			ACHIEVEMENTS				WEIGHT kg
	d	D	L1	L	DIN 912		Ma	Mt	Fass	Ph	Ps	
	mm	mm	mm	mm	Ad	12.9 Type	Nm	Nm	kN	N/mm ²	N/mm ²	
CTL250 - 20	20	47	29	35	4	M6	17	280	28	154	65	0,3
CTL250 - 22	22	47	29	35	4	M6	17	310	28	140	65	0,3
CTL250 - 24	24	50	29	35	4	M6	17	400	33	154	74	0,3
CTL250 - 25	25	50	29	35	4	M6	17	420	33	148	74	0,3
CTL250 - 28	28	55	29	35	6	M6	17	470	33	132	67	0,4
CTL250 - 30	30	55	29	35	6	M6	17	500	33	123	67	0,3
CTL250 - 32	32	55	29	35	6	M6	17	710	45	154	82	0,4
CTL250 - 35	35	60	31	37	8	M6	17	780	45	141	82	0,4
CTL250 - 38	38	65	31	37	8	M6	17	850	45	130	76	0,4
CTL250 - 40	40	65	31	37	8	M6	17	890	45	123	76	0,4
CTL250 - 42	42	75	36	44	6	M8	41	1.500	72,0	152	85	0,7
CTL250 - 45	45	75	36	44	6	M8	41	1.600	72,0	142	85	0,7
CTL250 - 48	48	80	36	44	8	M8	41	1.700	72,0	133	80	0,8
CTL250 - 50	50	80	36	44	8	M8	41	1.800	72,0	127	80	0,8
CTL250 - 55	55	85	36	44	8	M8	41	2.300	82	132	86	0,5
CTL250 - 60	60	90	36	44	8	M8	41	2.500	82	121	81	0,9
CTL250 - 65	65	95	36	44	9	M8	41	3.000	93	126	86	0,9
CTL250 - 70	70	110	48	58	8	M10	83	4.700	135	128	81	1,8
CTL250 - 75	75	115	48	58	8	M10	83	5.100	135	119	78	1,9
CTL250 - 80	80	120	48	58	8	M10	83	5.400	135	112	75	2
CTL250 - 85	85	125	48	58	9	M10	83	6.500	152	119	81	2,1
CTL250 - 90	90	130	48	58	9	M10	83	6.800	152	112	78	2,2
CTL250 - 95	95	135	48	58	10	M10	83	8.000	169	118	83	2,3
CTL250 - 100	100	145	56	68	8	M12	145	10.100	202	107	74	3,4
CTL250 - 110	110	155	56	68	8	M12	145	11.100	202,0	97	69	3,7
CTL250 - 120	120	165	56	68	9	M12	145	13.600	227,0	100	73	4
CTL250 - 130	130	180	68	80	10	M12	145	19.700	303,0	101	73	5,9

- d** Inner Diameter
- D** Outer Diameter
- D1** Output Shaft
- L** Total Length
- L1** Surface Contact Length
- Mt** Max. Transferable Torque (Fass=0 kN)
- Fass** Max. Transferable axial load (Mt=0 Nm)
- Ph** Core Diameter Contact Pressure
- Ps** Shaft Contact Pressure



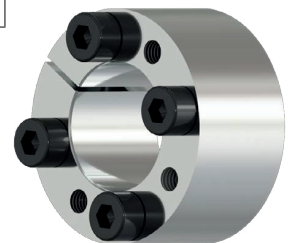
STANDART SERIAL CONICAL LOCKS **CTL 250M**

- Self centering,
- Ideal for low torque requiring. Check CTL250 for bigger diameters.
- H8-h8,Ra_z3,2



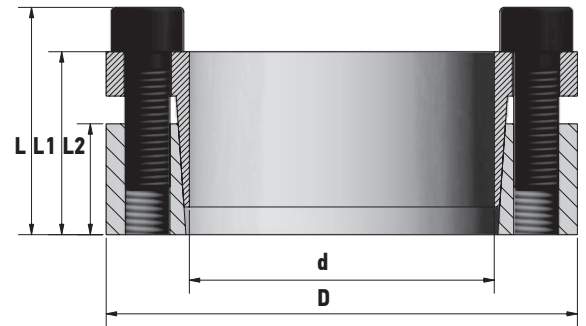
250M ORDER CODE	DIMENSIONS				JOINING ELEMENTS			ACHIEVEMENTS				WEIGHT kg
	d mm	D mm	L1 mm	L mm	DIN 912		Ma Nm	Mt Nm	Fass kN	Ps N/mm ²	Ph N/mm ²	
CTL 250 M - 5	5	16	11	13,5	3	M2,5	1,2	7	2,80	205	64	0,011
CTL 250 M - 6	6	16	11	13,5	3	M2,5	1,2	8	2,80	171	64	0,012
CTL 250 M - 6,35	6,35	16	11	13,5	3	M2,5	1,2	9	2,80	161	64	0,012
CTL 250 M - 7	7	17	11	13,5	3	M2,5	1,2	10	2,80	146	60	0,013
CTL 250 M - 8	8	18	11	13,5	3	M2,5	1,2	11	2,80	128	57	0,015
CTL 250 M - 9	9	20	13	15,5	4	M2,5	1,2	17	3,70	135	61	0,02
CTL 250 M - 9,53	9,53	20	13	15,5	4	M2,5	1,2	18	3,70	127	61	0,02
CTL 250 M - 10	10	20	13	15,5	4	M2,5	1,2	19	3,70	121	61	0,019
CTL 250 M - 11	11	22	13	15,5	4	M2,5	1,2	21	3,70	110	55	0,024
CTL 250 M - 12	12	22	13	15,5	4	M2,5	1,2	22	3,70	101	55	0,022
CTL 250 M - 12,7	12,7	22	13	15,5	4	M2,5	1,2	24	4,00	104	56	0,022
CTL 250 M - 14	14	26	17	20	4	M3	2,2	40	5,70	99	53	0,039
CTL 250 M - 15	15	28	17	20	4	M3	2,2	43	5,70	93	50	0,044
CTL 250 M - 16	16	32	17	21	4	M4	4,9	75	9,50	145	73	0,067
CTL 250 M - 17	17	35	21	25	4	M4	4,9	80	9,50	117	57	0,09
CTL 250 M - 18	18	35	21	25	4	M4	4,9	85	9,50	111	57	0,087
CTL 250 M - 19	19	35	21	25	4	M4	4,9	90	9,50	105	57	0,083
CTL 250 M - 20	20	38	21	26	4	M5	10	155	16,00	162	85	0,1
CTL 250 M - 22	22	40	21	26	4	M5	10	170	16,00	148	81	0,11
CTL 250 M - 24	24	47	26	32	4	M6	17	265	22,00	149	76	0,2
CTL 250 M - 25	25	47	26	32	4	M6	17	275	22,00	143	76	0,19
CTL 250 M - 25,4	25,4	47	26	32	4	M6	17	280	28,00	141	76	0,18
CTL 250 M - 28	28	50	26	32	6	M6	17	460	33,00	192	107	0,22

- d** Inner Diameter
- D** Outer Diameter
- D1** Output Shaft
- L** Total Length
- L1** Length Excluding Bolts
- Mt** Maximum Transferable Torque (Fass=0 kN)
- Fass** Max. Transferable axial load (Mt=0 Nm)
- Ph** Core Diameter Contact Pressure
- Ps** Shaft Contact Pressure



STANDART SERIAL CONICAL LOCKS **CTL 300**

- Self centering
- Ideal for medium and high torque requiring.
- H8-h8, Ra≤3,2



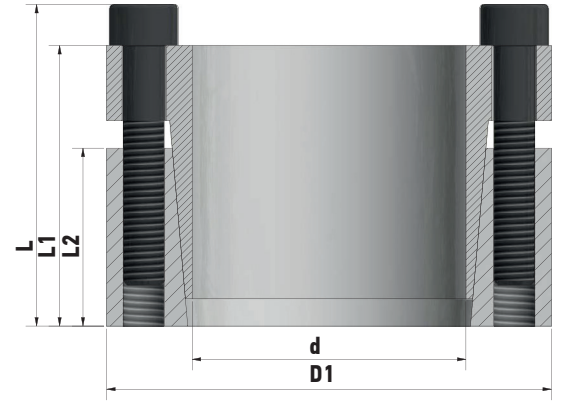
300 ORDER CODE	DIMENSIONS					JOINING ELEMENTS			ACHIEVEMENTS				WEIGHT
	d	D	L2	L1	L	DIN 912		Ma	Mt	Fass	Ph	Ps	kg
	mm	mm	mm	mm	mm	Ad.	12.9 Type	Nm	Nm	kN	N/mm ²	N/mm ²	
CTL300 - 14	14	32	14	21	25	4	M4	5	100	15	209	91	0,09
CTL300 - 15	15	32	14	21	25	4	M4	5	110	15	195	91	0,09
CTL300 - 16	16	32	14	21	25	4	M4	5	120	15	183	91	0,08
CTL300 - 18	18	47	17	28	34	6	M6	14	330	38	326	125	0,30
CTL300 - 19	19	47	17	28	34	6	M6	14	350	38	308	125	0,30
CTL300 - 20	20	47	17	28	34	6	M6	14	450	45	352	150	0,30
CTL300 - 22	22	47	17	28	34	6	M6	14	490	45	320	150	0,30
CTL300 - 24	24	50	17	28	34	6	M6	14	540	45	293	141	0,30
CTL300 - 25	25	50	17	28	34	6	M6	14	560	45	281	141	0,30
CTL300 - 28	28	55	17	28	34	6	M6	14	630	45	251	128	0,40
CTL300 - 30	30	55	17	28	34	6	M6	14	670	45	234	128	0,30
CTL300 - 32	32	60	17	28	34	8	M6	14	960	60	293	156	0,40
CTL300 - 35	35	60	17	28	34	8	M6	14	1.050	60	268	156	0,40
CTL300 - 38	38	65	17	28	34	8	M6	14	1.140	60	247	144	0,40
CTL300 - 40	40	65	17	28	34	8	M6	14	1.200	60	234	144	0,40
CTL300 - 42	42	75	20	33	41	8	M8	35	2.410	115	363	204	0,80
CTL300 - 45	45	75	20	33	41	8	M8	35	2.580	115	339	204	0,60
CTL300 - 48	48	80	20	33	41	8	M8	35	2.760	115	318	191	0,80
CTL300 - 50	50	80	20	33	41	8	M8	35	2.870	115	305	191	0,80
CTL300 - 55	55	85	20	33	41	8	M8	35	3.160	129	278	180	0,80
CTL300 - 60	60	90	20	33	41	8	M8	35	3.450	129	254	170	0,80
CTL300 - 65	65	95	20	33	41	10	M8	35	4.650	143	264	181	0,90
CTL300 - 70	70	110	24	40	50	8	M10	70	6.300	181	285	181	1,80
CTL300 - 75	75	115	24	40	50	8	M10	70	6.750	181	266	173	1,80
CTL300 - 80	80	120	24	40	50	8	M10	70	7.200	181	249	166	1,80
CTL300 - 85	85	125	24	40	50	10	M10	70	9.600	226	293	200	2,00
CTL300 - 90	90	130	24	40	50	10	M10	70	10.150	226	277	192	2,10
CTL300 - 95	95	135	24	40	50	10	M10	70	10.700	226	263	185	2,10
CTL300 - 100	100	145	26	44	56	8	M12	125	13.450	269	274	189	2,60
CTL300 - 110	110	155	26	44	56	8	M12	125	14.750	269	249	177	3,00
CTL300 - 120	120	165	26	44	56	10	M12	125	20.100	335	187	187	3,20
CTL300 - 130	130	180	34	54	66	12	M12	125	26.200	403	242	175	4,80
CTL300 - 140	140	190	34	54	68	10	M14	190	30.800	440	163	163	5,20
CTL300 - 150	150	200	34	54	68	10	M14	190	33.100	442	230	172	5,40
CTL300 - 160	160	210	34	54	68	12	M14	190	42.400	530	258	197	5,70
CTL300 - 170	170	225	44	64	78	12	M14	190	45.050	530	188	142	8,00
CTL300 - 180	180	235	44	64	78	12	M14	190	47.700	530	177	136	8,30
CTL300 - 190	190	250	44	64	78	16	M14	190	66.900	704	160	160	9,60
CTL300 - 200	200	260	44	64	78	16	M14	190	70.000	701	154	154	10,50
CTL300 - 220	220	285	50	73	89	12	M16	295	80.970	736	178	137	13,30
CTL300 - 240	240	305	50	73	89	15	M16	295	110.420	920	203	160	14,20
CTL300 - 260	260	325	50	73	89	18	M16	295	143.550	1.104	225	180	15,30
CTL300 - 280	280	355	60	85	103	16	M18	405	166.210	1.187	187	148	22,70
CTL300 - 300	300	375	60	85	103	18	M18	405	200.340	1.335	197	157	24,30
CTL300 - 320	320	405	74	102	122	18	M20	580	279.000	1.750	196	155	34,10
CTL300 - 340	340	425	74	102	122	21	M20	580	346.000	2.040	215	172	36,00
CTL300 - 360	360	455	86	116	138	18	M22	780	388.000	2.160	185	146	49,40
CTL300 - 380	380	475	86	116	138	21	M22	780	478.000	2.520	204	163	51,90
CTL300 - 400	400	495	86	116	138	21	M22	780	503.000	2.520	194	157	55,30

- d** Inner Diameter
- D** Outer Diameter
- D1** Output Shaft
- L** Total Length
- L1** Length Excluding Bolts
- L2** Surface Contact Length
- Ma** Screw Tightening Torque
- Mt** Screw Tightening Torque
- Mt** Maximum Transferable Torque (Fass=0 kN)
- Fass** Max. Transferable axial load (Mt=0 Nm)
- Ph** Core Diameter Contact Pressure
- Ps** Shaft Contact Pressure



STANDART SERIAL CONICAL LOCKS **CTL 301**

- Self centering,
- Ideal for medium and high torque requiring.
- H8-h8,Ra≤3,2



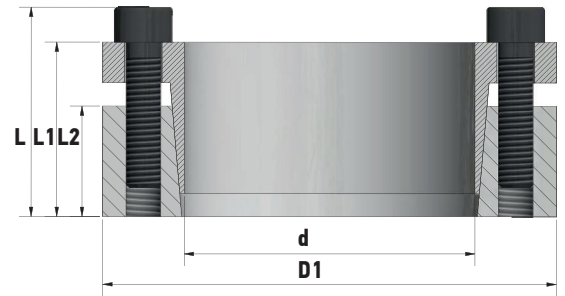
301 ORDER CODE	DIMENSIONS					JOINING ELEMENTS			ACHIEVEMENTS				WEIGHT
	d	D	L2	L1	L	DIN 912		Ma	Mt	Fass	Ps	Ph	
	mm	mm	mm	mm	mm	Ad	12.9 Type	Nm	Nm	kN	N/mm ²	N/mm ²	kg
CTL 301 - 18	18	47	26	41	47	6	M6	17	490	55	310	119	0,5
CTL 301 - 19	19	47	26	41	47	6	M6	17	510	55	294	119	0,5
CTL 301 - 20	20	47	26	41	47	6	M6	17	540	55	279	119	0,5
CTL 301 - 22	22	47	26	41	47	6	M6	17	600	55	254	119	0,5
CTL 301 - 24	24	50	26	41	47	6	M6	17	650	55	233	112	0,5
CTL 301 - 25	25	50	26	41	47	6	M6	17	680	55	223	112	0,5
CTL 301 - 28	28	55	26	41	47	6	M6	17	760	55	199	102	0,6
CTL 301 - 30	30	55	26	41	47	6	M6	17	820	55	186	102	0,6
CTL 301 - 32	32	60	26	41	47	8	M6	17	1.160	73	233	124	0,7
CTL 301 - 35	35	60	26	41	47	8	M6	17	1.270	73	213	124	0,6
CTL 301 - 38	38	65	26	41	47	8	M6	17	1.380	73	196	115	0,8
CTL 301 - 40	40	65	26	41	47	8	M6	17	1.450	73	186	115	0,6
CTL 301 - 42	42	75	30	49	57	6	M8	41	2.120	101	213	119	1,2
CTL 301 - 45	45	75	30	49	57	6	M8	41	2.270	101	199	119	1,1
CTL 301 - 48	48	80	30	49	57	8	M8	41	3.230	135	248	149	1,3
CTL 301 - 50	50	80	30	49	57	8	M8	41	3.370	135	238	149	1,1
CTL 301 - 55	55	85	30	49	57	8	M8	41	3.700	135	217	140	1,2
CTL 301 - 60	60	90	30	49	57	8	M8	41	4.040	135	199	132	1,3
CTL 301 - 65	65	95	30	49	57	8	M8	41	4.380	135	183	125	1,4
CTL 301 - 70	70	110	40	59	69	8	M10	83	7.490	214	203	129	2,5
CTL 301 - 75	75	115	40	59	69	8	M10	83	8.020	214	189	123	2,6
CTL 301 - 80	80	120	40	59	69	8	M10	83	8.560	214	177	118	2,8
CTL 301 - 85	85	125	40	59	69	10	M10	83	11.370	268	209	142	2,8
CTL 301 - 75	90	130	40	59	69	10	M10	83	12.040	268	197	136	3
CTL 301 - 95	95	135	40	59	69	10	M10	83	12.700	268	187	131	3
CTL 301 - 100	100	145	46	68	80	8	M12	145	15.580	312	180	124	5,5
CTL 301 - 110	110	155	46	68	80	8	M12	145	17.140	312	163	116	4,8
CTL 301 - 120	120	165	46	68	80	10	M12	145	23.370	390	187	136	5,5
CTL 301 - 130	130	180	46	68	80	12	M12	145	30.380	467	207	150	6
CTL 301 - 140	140	190	50	76	90	10	M14	230	37.410	535	203	149	7,5
CTL 301 - 150	150	200	50	76	90	12	M14	230	48.100	641	227	170	7,7
CTL 301 - 160	160	210	50	76	90	12	M14	230	51.300	641	213	162	8
CTL 301 - 170	170	225	50	76	90	14	M14	230	63.600	748	234	176	9,8
CTL 301 - 180	180	235	50	76	90	14	M14	230	67.350	748	221	169	9,8
CTL 301 - 190	190	250	50	76	90	16	M14	230	76.150	802	224	170	10,57
CTL 301 - 200	200	260	50	76	90	16	M14	230	85.500	855	227	175	11,24
CTL 301 - 220	220	285	64	98	114	12	M16	355	98.050	891	168	130	14,8
CTL 301 - 240	240	305	64	98	114	16	M16	355	133.700	1.114	192	151	15,7
CTL 301 - 260	260	325	64	98	114	18	M16	355	185.000	1.001	279	223	17
CTL 301 - 280	280	355	75	121	139	16	M18	485	207.000	1.128	245	193	36
CTL 301 - 300	300	375	75	121	139	18	M18	485	259.000	1.264	257	206	37

- d** Inner Diameter
- D** Outer Diameter
- D1** Output Shaft
- L** Total Length
- L1** Length Excluding Bolts
- L2** Surface Contact Length
- Ma** Screw Tightening Torque
- Mt** Max. Transferable Torque (Fass=0 kN)
- Fass** Max. Transferable axial load (Mt=0 Nm)
- Ph** Core Diameter Contact Pressure
- Ps** Shaft Contact Pressure



STANDART SERIAL CONICAL LOCKS **CTL 302**

- Self centering,
- Ideal for low and medium torque requiring.
- H8-h8, Ra≤3,2



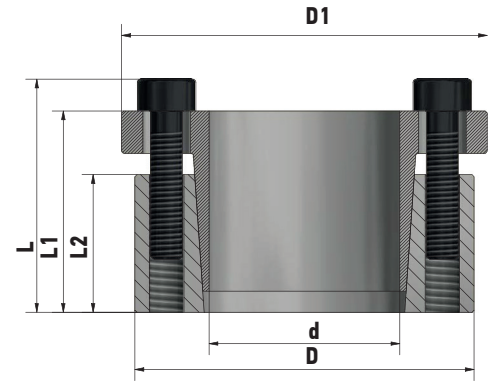
302 ORDER CODE	DIMENSIONS					JOINING ELEMENTS			ACHIEVEMENTS				WEIGHT
	d	D	L2	L1	L	DIN 912		Ma	Mt	Fass	Ps	Ph	
	mm	mm	mm	mm	mm	Ad	12.9 Type	Nm	Nm	kN	N/mm ²	N/mm ²	kg
CTL 302 - 18	18	40	12	20	24	6	M4		210	23,7	233	131	0,2
CTL 302 - 19	19	41				6	M4		220	23,7	221	128	0,2
CTL 302 - 20	20	42				7	M4		270	27,7	245	146	0,2
CTL 302 - 22	22	44				7	M4		300	27,7	223	139	0,2
CTL 302 - 24	24	46				7	M4		330	27,7	204	133	0,2
CTL 302 - 25	25	47				7	M4		340	27,7	196	130	0,2
CTL 302 - 28	28	50				9	M4		500	35,6	225	157	0,2
CTL 302 - 30	30	52				9	M4		530	35,6	210	151	0,2
CTL 302 - 32	32	54				9	M4		570	35,6	197	146	0,2
CTL 302 - 35	35	57	16	24	28	10	M4		690	39,5	158	115	0,3
CTL 302 - 36	36	58				10	M4		710	39,5	153	113	0,3
CTL 302 - 38	38	60				11	M4		830	43,5	160	120	0,3
CTL 302 - 40	40	62				11	M4		870	43,5	152	116	0,4
CTL 302 - 42	42	70	19	30	36	8	M6		1.530	73	200	146	0,6
CTL 302 - 45	45	73				8	M6		1.640	73	187	140	0,6
CTL 302 - 48	48	76				8	M6		1.750	73	175	134	0,6
CTL 302 - 50	50	78				8	M6		1.820	73	168	131	0,6
CTL 302 - 55	55	83				8	M6		2.000	73	153	123	0,7
CTL 302 - 56	56	84				8	M6		2.040	73	150	121	0,7
CTL 302 - 60	60	88				9	M6		2.460	82,1	158	130	0,7
CTL 302 - 63	63	91				9	M6		2.580	82,1	150	126	0,9
CTL 302 - 65	65	93				9	M6		2.660	82,1	146	123	1
CTL 302 - 70	70	105	23	37	45	8	M8		4.720	134,8	183	148	1,5
CTL 302 - 75	75	110				8	M8		5.050	134,8	170	141	1,5
CTL 302 - 80	80	115				8	M8		5.390	134,8	160	135	1,7
CTL 302 - 85	85	120				8	M8		5.730	134,8	150	130	2
CTL 302 - 90	90	125				10	M8		7.580	168,5	177	156	2,3

- d** Inner Diameter
- D** Outer Diameter
- D1** Output Shaft
- L** Total Length
- L1** Length Excluding Bolts
- L2** Surface Contact Length
- Ma** Screw Tightening Torque
- Mt** Max. Transferable Torque (Fass=0 kN)
- Fass** Max. Transferable axial load (Mt=0 Nm)
- Ph** Core Diameter Contact Pressure
- Ps** Shaft Contact Pressure



STANDART SERIAL CONICAL LOCKS **CTL 303M**

- Self centering,
- Ideal for low torque requiring.
- H8-h8,Ra≤3,2



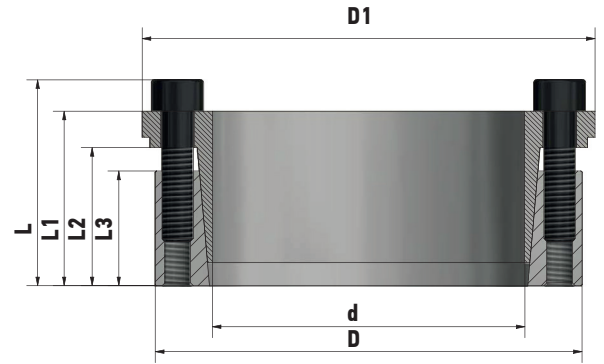
303M ORDER CODE	DIMENSIONS						JOINING ELEMENTS			ACHIEVEMENTS				WEIGHT
	d	D	D1	L2	L1	L	DIN 912		Ma	Mt	Fass	Ph	Ps	
	mm	mm	mm	mm	mm	mm	Ad	12.9 Type	Nm	Nm	kN	N/mm ²	N/mm ²	kg
CTL303M - 6	6	18	20	9,3	11	13,5	3	M2,5	1,2	9	3	184	69	0,012
CTL303M - 6,35	6,35	18	20	9,3	11	13,5	3	M2,5	1,2	10	3	173	69	0,012
CTL303M - 8	8	21	23,5	9,3	11	13,5	3	M2,5	1,2	11	3	157	65	0,013
CTL303M - 10	10	23	25,5	9,6	11	13,5	3	M2,5	1,2	12	3	138	61	0,015
CTL303M - 11	11	24	26,5	10	13	15,5	4	M2,5	1,2	18	4	138	62	0,020
CTL303M - 12	12	26	28,5	10	13	15,5	4	M2,5	1,2	19	4	130	62	0,020
CTL303M - 14	14	28	30,5	11	13	15,5	4	M2,5	1,2	20	4	124	62	0,019
CTL303M - 15	15	29	33	12	13	15,5	4	M2,5	1,2	22	4	113	56	0,024
CTL303M - 16	16	30	33	12	13	15,5	4	M2,5	1,2	24	4	104	56	0,022
CTL303M - 17	17	31	33,5	12	13	15,5	4	M2,5	1,2	24	4	104	56	0,022
CTL303M - 18	18	32	34,5	13	17	20	4	M3	2,1	42	6	99	53	0,039

- d** Inner Diameter
- D** Outer Diameter
- D1** Output Shaft
- L** Total Length
- L1** Length Excluding Bolts
- L2** Surface Contact Length
- Mt** Max. Transferable Torque (Fass=0 kN)
- Fass** Max. Transferable axial load (Mt=0 Nm)
- Ps** Shaft Contact Pressure
- Ph** Core Diameter Contact Pressure
- Ma** Screw Tightening Torque



STANDART SERIAL CONICAL LOCKS **CTL 304M**

- Self centering,
- Ideal for low torque requiring.
- H8-h8, Ra≤3,2



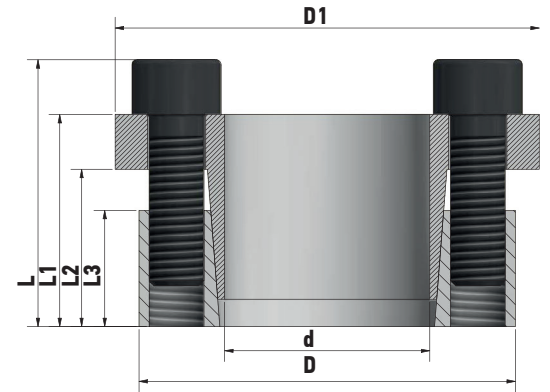
304M ORDER CODE	DIMENSIONS					JOINING ELEMENTS			ACHIEVEMENTS			
	d	D	D1	L1	L	DIN 912		Ma	Mt	Fass	Ph	Ps
	mm	mm	mm	mm	mm	Ad	12.9 Type	Nm	Nm	kN	N/mm ²	N/mm ²
CTL 304M - 5	5	16	18,5	8,0	13,0	4	M3x10	1,90	7	2,8	249	81
CTL 304M - 6	6	19	21,5	9,0	14,3		M4x12		14	4,67	318	102
CTL 304M - 8	8	21	23,5	9,3	14,6				22	5,6	239	107
CTL 304M - 10	10	23	25,5	9,5	14,8				25	5,6	186	96
CTL 304M - 11	11	24	26,5		15,8	30		5,6	170	92		
CTL 304M - 12	12	26	28,5	10,5	18,0	6	M4x15	3,90	50	8,41	233	115
CTL 304M - 14	14	28	30,5						65	9,46	225	120
CTL 304M - 15	15	29	31,5	11,5	19,0				70	9,46	186	106
CTL 304M - 16	16	30	33	12,0	19,6				75	9,46	166	98
CTL 304M - 17	17	31	33,5	12,5	20,1	8	M5x18	8,80	110	12,6	197	121
CTL 304M - 18	18	32	34,5						115	12,6	186	118
CTL 304M - 19	19	33	35,5						120	12,6	177	114
CTL 304M - 20	20	38	42						15,3	24,1	220	21,6
CTL 304M - 22	22	40	44	290	26	256	159					
CTL 304M - 24	24	42	46	17,3	26,6	10	M5x18	8,80	320	26	217	142
CTL 304M - 25	25	43	47						350	27,2	216	137
CTL 304M - 28	28	46	50						380	27	192	127
CTL 304M - 30	30	48	52						410	27	179	122
CTL 304M - 32	32	50	54	18,3	27,6	12	M6x20	15,70	440	27	156	110
CTL 304M - 35	35	57	62						19,5	30,0	720	41,1
CTL 304M - 38	38	60	65	20,0	30,5				770	40,2	178	125
CTL 304M - 40	40	62	67	20,5	31,0				810	40,2	164	118
CTL 304M - 42	42	64	69			850	40,2	156	114			
CTL 304M - 45	45	67	72	21,0	31,5	1200	52,9	186	140			
CTL 304M - 48	48	70	75			1200	48,2	159	123			
CTL 304M - 50	50	72	77	21,5	32,5	1500	56,3	173	136			
CTL 304M - 55	55	77	83			1600	56,3	158	127			
CTL 304M - 60	60	82	87	22,0	33,5	1900	60,3	150	125			
CTL 304M - 65	65	87	92			2000	60,3	139	118			
CTL 304M - 70	70	97	103	24,0	36,1	14	M8x25	37,30	3400	94,8	187	152

- Inner Diameter
- Outer Diameter
- Output Shaft
- Total Length
- Length Excluding Bolts
- Surface Contact Length
- Max. Transferable Torque (Fass=0 kN)
- Max. Transferable axial load (Mt=0 Nm)
- Shaft Contact Pressure
- Core Diameter Contact Pressure
- Screw Tightening Torque



STANDART SERIAL CONICAL LOCKS **CTL 310**

- Self centering,
- Ideal for low and medium torque requiring.
- H8-h8,Ra≤3,2



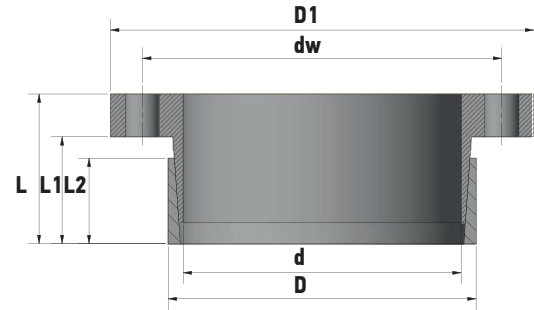
310 ORDER CODE	DIMENSIONS							JOINING ELEMENTS			ACHIEVEMENTS				WEIGHT											
	d	D	D1	L3	L2	L1	L	DIN 912		Ma	Mt	Fass	Ps	Ph												
	mm	mm	mm	mm	mm	mm	mm	Ad.	12.9 Type	Nm	Nm	kN	N/mm ²	N/mm ²	kg											
CTL311 - 14	14	55	62	17	22	31	39	4	M8	41	287	41	457	117	0,6											
CTL311 - 16	16										329		401		0,6											
CTL311 - 18	18										370		356		0,5											
CTL311 - 19	19										390		337		0,5											
CTL311 - 20	20										410		320		0,5											
CTL311 - 22	22										451		291		0,5											
CTL311 - 24	24										492		267		0,5											
CTL311 - 25	25										513		256		0,5											
CTL311 - 28	28										575		229		0,4											
CTL311 - 30	30										616		214		0,4											
CTL312 - 24	24	65	72	17	22	31	39	5	M8	41	616	51	334	123	0,7											
CTL312 - 25	25										641		320		0,7											
CTL312 - 28	28										718		286		0,6											
CTL312 - 30	30										770		267		0,6											
CTL312 - 32	32										821		250		0,6											
CTL312 - 35	35										898		229		0,5											
CTL312 - 38	38										975		211		0,5											
CTL312 - 40	40										1.026		200		0,5											
CTL312 - 30	30										80		88		20	25	34	42	7	M8	41	1.077	72	317	119	1
CTL312 - 32	32																					1.150		298		1
CTL312 - 35	35	1.257	272	1																						
CTL312 - 38	38	1.364	251	1																						
CTL313 - 40	40	1.436	238	0,9																						
CTL313 - 42	42	1.510	227	0,9																						
CTL313 - 45	45	1.616	212	0,8																						
CTL313 - 48	48	1.725	198	0,8																						
CTL313 - 50	50	1.800	191	0,8																						

- d** Inner Diameter
- D** Outer Diameter
- D1** Output Shaft
- L** Total Length
- L1** Length Excluding Bolts
- L2** Surface Contact Length
- Ma** Screw Tightening Torque
- Mt** Max. Transferable Torque (Fass=0 kN)
- Fass** Max. Transferable axial load (Mt=0 Nm)
- Ps** Shaft Contact Pressure
- Ph** Core Diameter
- Ps** Contact Pressure



STANDART SERIAL CONICAL LOCKS **CTL 330**

- Self centering,
- Ideal for low and medium torque requiring.
- H8-h8,Ra≤3,2



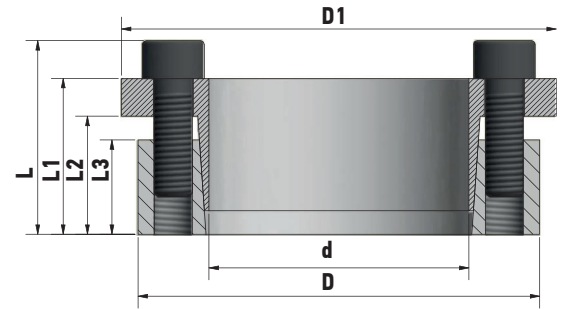
330 ORDER CODE	DIMENSIONS							JOINING ELEMENTS			ACHIEVEMENTS				WEIGHT
	d	D	dw	D1	L2	L1	L	DIN 912		Ma	Mt	Fass	Ps	Ph	kg
	mm	mm	mm	mm	mm	mm	mm	Ad	12.9 Type	Nm	Nm	kN	N/mm ²	N/mm ²	
CTL 330 - 14	14										105		180		0,09
CTL 330 - 15	15										115		170		0,09
CTL 330 - 16	16	25	33	42	16	20	26	4	M4	4,9	120	15	158	100	0,08
CTL 330 - 18	18										135		140		0,08
CTL 330 - 19	19										145		133		0,07
CTL 330 - 20	20										250		211		0,12
CTL 330 - 22	22	30	39	50	16	20	26	4	M5	10	275	25	190	141	0,11
CTL 330 - 24	24										300		175		0,10
CTL 330 - 25	25										315		168		0,15
CTL 330 - 28	28	36	45	55	16	20	26	4	M5	10	350	25	150	116	0,13
CTL 330 - 30	30										375		140		0,12
CTL 330 - 32	32										315		130		0,17
CTL 330 - 35	35	42	51	62	16	20	28	4	M5	10	350	25	120	100	0,15
CTL 330 - 36	36										375		116		0,14
CTL 330 - 38	38	44	54	66	16	20	28	4	M6	17	670	35	153	134	0,17
CTL 330 - 40	40										705		148		0,21
CTL 330 - 42	42	48	58	70	16	25	35	4	M6	17	740	35	141	122	0,19
CTL 330 - 45	45										1.440		188		0,37
CTL 330 - 48	48	55	67	82	20	25	35	4	M8	41	1.540	64	176	155	0,32
CTL 330 - 50	50										1.600		171		0,46
CTL 330 - 55	55	62	74	89	20	25	35	4	M8	41	1.760	64	155	137	0,36
CTL 330 - 60	60										1.920		143		0,53
CTL 330 - 65	65	72	84	99	20	25	35	4	M8	41	2.080	64	132	118	0,42

- d** Inner Diameter
- D** Outer Diameter
- D1** Output Shaft
- dw** Bolt Axis Diameter
- L** Total Length
- L1** Length Excluding Bolts
- L2** Surface Contact Length
- Ma** Screw Tightening Torque
- Mt** Max. Transferable Torque (Fass=0 kN)
- Fass** Max. Transferable axial load (Mt=0 Nm)
- Ph** Core Diameter Contact Pressure
- Ps** Shaft Contact Pressure



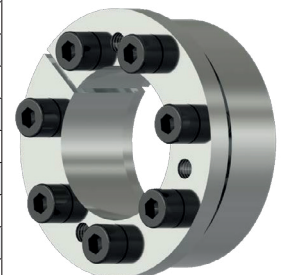
STANDART SERIAL CONICAL LOCKS **CTL 350F**

- Self centering,
 - Ideal for medium and high torque requiring.
- Check CTL-350 FM for smaller diameters.
- H8-h8,Ra_s3,2



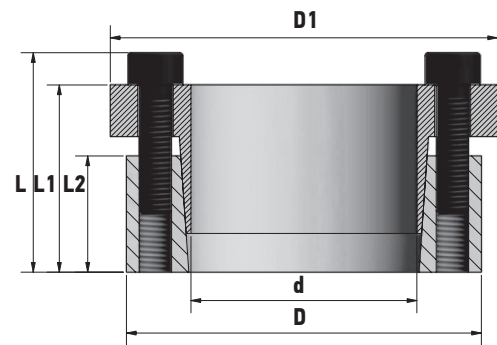
350F ORDER CODE	DIMENSIONS							JOINING ELEMENTS			ACHIEVEMENTS				WEIGHT
	d	D	D1	L3	L2	L1	L	DIN 912		Ma	Mt	Fass	Ps	Ph	kg
	mm	mm	mm	mm	mm	mm	mm	Ad.	12.9 Type	Nm	Nm	kN	N/mm ²	N/mm ²	
CTL 350F - 18	18	47	54	17	22	28	34	6	M6	14	320	36	314	120	0,3
CTL 350F - 19	19	47	54	17	22	28	34	6	M6	14	340	36	297	120	0,3
CTL 350F - 20	20	47	54	17	22	28	34	6	M6	17	340	34	266	113	0,3
CTL 350F - 22	22	47	54	17	22	28	34	6	M6	17	370	34	242	113	0,3
CTL 350F - 24	24	50	57	17	22	28	34	6	M6	17	400	34	222	106	0,3
CTL 350F - 25	25	50	57	17	22	28	34	6	M6	17	420	34	213	106	0,3
CTL 350F - 28	28	55	62	17	22	28	34	6	M6	17	470	34	190	97	0,4
CTL 350F - 30	30	55	62	17	22	28	34	6	M6	17	510	34	177	97	0,4
CTL 350F - 32	32	60	67	17	22	28	34	8	M6	17	720	45	222	118	0,4
CTL 350F - 35	35	60	67	17	22	28	34	8	M6	17	790	45	203	118	0,4
CTL 350F - 38	38	65	72	17	22	28	34	8	M6	17	860	45	187	109	0,5
CTL 350F - 40	40	65	72	17	22	28	34	8	M6	17	900	45	177	109	0,5
CTL 350F - 42	42	75	82	20	25	33	41	8	M8	41	1.760	84	265	149	0,8
CTL 350F - 45	45	75	82	20	25	33	41	8	M8	41	1.890	84	248	149	0,7
CTL 350F - 48	48	80	87	20	25	33	41	8	M8	41	2.010	84	232	139	0,8
CTL 350F - 50	50	80	87	20	25	33	41	8	M8	41	2.100	84	223	139	0,8
CTL 350F - 55	55	85	92	20	25	33	41	8	M8	41	2.310	84	203	131	0,9
CTL 350F - 60	60	90	97	20	25	33	41	8	M8	41	2.520	84	186	124	0,9
CTL 350F - 65	65	95	102	20	25	33	41	10	M8	41	3.400	104	132	132	1
CTL 350F - 70	70	110	117	24	30	40	50	8	M10	83	4.670	133	211	134	1,9
CTL 350F - 75	75	115	122	24	30	40	50	8	M10	83	5.000	133	197	128	2
CTL 350F - 80	80	120	127	24	30	40	50	8	M10	83	5.330	133	184	123	2
CTL 350F - 85	85	125	132	24	30	40	50	10	M10	83	7.080	167	217	147	2
CTL 350F - 90	90	130	137	24	30	40	50	10	M10	83	7.500	167	205	142	2,2
CTL 350F - 95	95	135	142	24	30	40	50	10	M10	83	7.900	167	194	2,3	2,3
CTL 350F - 100	100	145	152	26	32	44	56	8	M12	145	9.700	194	198	137	3
CTL 350F - 110	110	155	162	26	32	44	56	8	M12	145	10.700	194	180	128	3,2
CTL 350F - 120	120	165	172	26	32	44	56	10	M12	145	14.500	241	135	3,4	3,4
CTL 350F - 130	130	180	187	34	40	54	66	12	M12	230	18.950	291	175	126	5,2
CTL 350F - 140	140	190	197	34	40	54	68	10	M14	230	23.300	333	123	5,4	5,4
CTL 350F - 150	150	200	207	34	40	54	68	10	M14	230	25.000	333	173	130	5,7
CTL 350F - 160	160	210	217	34	40	54	68	12	M14	230	32.000	400	195	149	6
CTL 350F - 170	170	225	232	44	50	64	78	12	M14	230	34.000	400	142	107	8,3
CTL 350F - 180	180	235	242	44	50	64	78	12	M14	230	36.000	400	134	103	8,8
CTL 350F - 190	190	250	257	44	50	64	78	16	M14	230	47.500	500	159	121	10
CTL 350F - 200	200	260	267	44	50	64	78	16	M14	230	50.000	500	151	116	10,5
CTL 350F - 220	220	285	292	50	56	75	91	12	M16	355	55.000	500	143	110	11
CTL 350F - 240	240	305	312	50	56	73	89	15	M16	355	75.000	625	138	108	11,8
CTL 350F - 260	260	325	332	50	56	73	89	18	M16	355	99.000	760	170	136	12,8
CTL 350F - 280	280	355	362	60	66	85	103	16	M18	490	115.000	820	148	117	13,6
CTL 350F - 300	300	375	382	60	66	85	103	18	M18	490	130.000	865	155	124	15
CTL 350F - 320	320	405	412	74	81	102	122	18	M20	690	175.000	1.090	154	121	15,8
CTL 350F - 340	340	425	432	74	81	102	122	21	M20	690	230.000	1.350	167	133	17,6
CTL 350F - 360	360	455	462	86	94	116	138	18	M22	930	265.000	1.472	142	112	18,9
CTL 350F - 380	380	475	482	86	94	116	138	21	M22	930	315.000	1.660	156	125	20,5
CTL 350F - 400	400	495	502	86	94	116	138	21	M22	930	340.000	1.700	150	121	21,2

- d** Inner Diameter
- D** Outer Diameter
- D1** Output Shaft
- L** Total Length
- L1** Length Excluding Bolts
- L2** Surface Contact Length
- Ma** Screw Tightening Torque
- Mt** Max. Transferable Torque (Fass=0 kN)
- Fass** Max. Transferable axial load (Mt=0 Nm)
- Ph** Core Diameter Contact Pressure
- Ps** Shaft Contact Pressure



STANDART SERIAL CONICAL LOCKS **CTL 350FM**

- Self centering,
 - Ideal for low torque requiring.
- Check CTL-350F for bigger diameters. • H8-h8, Ra≤3,2



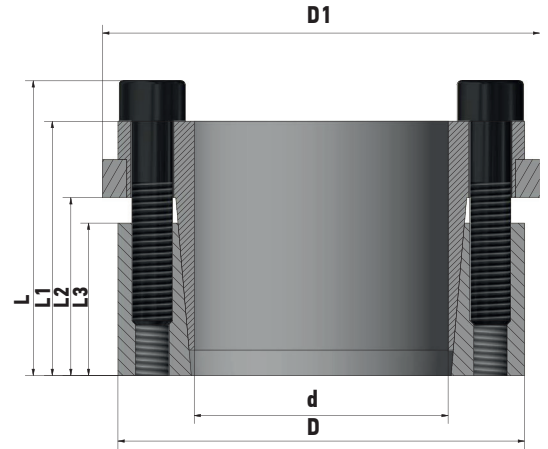
350FM ORDER CODE	DIMENSIONS							JOINING ELEMENTS			ACHIEVEMENTS			
	d	D	D1	L3	L2	L1	L	DIN 912		Ma	Mt	Fass	Ps	Ph
	mm	mm	mm	mm	mm	mm	mm	Ad	12.9 Type	Nm	Nm	kN	N/mm ²	N/mm ²
CTL350FM - 6	6	22	25	11	13	17	21	4	M4	5	22	7,3	323	88
CTL350FM - 7	7	22	25	11	13	17	21	4	M4	5	26	7,3	277	88
CTL350FM - 8	8	22	25	11	13	17	21	4	M4	5	29	7,3	242	88
CTL350FM - 9	9	25	28	11	13	17	21	4	M4	5	33	7,3	215	77
CTL350FM - 10	10	25	28	11	13	17	21	4	M4	5	37	7,3	194	77
CTL350FM - 11	11	27	30	11	13	17	21	4	M4	5	54	9,7	235	96
CTL350FM - 12	12	27	30	11	13	17	21	4	M4	5	58	9,7	215	96
CTL350FM - 14	14	30	33	13	15	19	23	4	M4	5	102	14,6	231	108
CTL350FM - 15	15	30	33	13	15	19	23	4	M4	5	110	14,6	215	108
CTL350FM - 16	16	30	33	13	15	19	23	4	M4	5	117	14,6	202	108
CTL350FM - 17	17	34	37	13	15	19	23	4	M4	5	124	14,6	190	95
CTL350FM - 18	18	34	37	13	16	20	24	4	M4	5	131	14,6	179	95
CTL350FM - 19	19	34	37	13	16	20	24	4	M4	5	139	14,6	170	95
CTL350FM - 20	20	40	45	16	19	24	29	4	M5	10	235	23,5	207	104
CTL350FM - 22	22	40	45	16	19	24	29	4	M5	10	258	23,5	189	104
CTL350FM - 24	24	43	48	16	19	24	29	4	M5	10	375	31,5	230	129
CTL350FM - 25	25	43	48	16	19	24	29	4	M5	10	391	31,5	221	129
CTL350FM - 28	28	50	55	18	21	26	31	4	M5	10	547	39,1	218	122
CTL350FM - 30	30	50	55	18	21	26	31	4	M5	10	586	39,1	203	122
CTL350FM - 32	32	55	60	18	21	26	31	4	M5	10	625	39,1	191	111
CTL350FM - 35	35	55	60	18	21	26	31	4	M5	10	684	39,1	174	111

- d Inner Diameter
- D Outer Diameter
- D1 Output Shaft
- L Total Length
- L1 Length Excluding Bolts
- L2 Surface Contact Length
- Mt Max. Transferable Torque (Fass=0 kN)
- Fass Max. Transferable axial load (Mt=0 Nm)
- Ps Shaft Contact Pressure
- Ph Core Diameter Contact Pressure
- Ma Screw Tightening Torque



STANDART SERIAL CONICAL LOCKS **CTL 351**

- Self centering,
- Ideal for medium and high torque requiring.
- H8-h8,Ra≤3,2



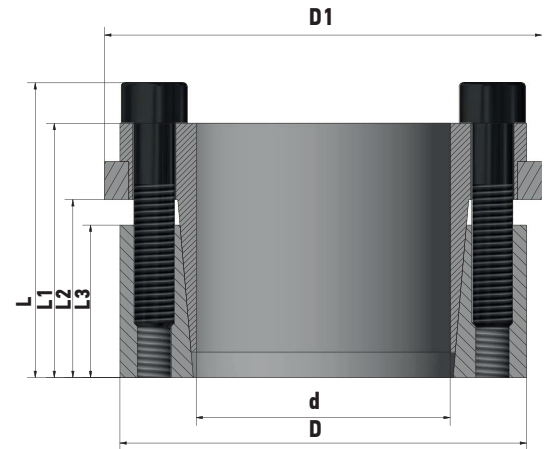
351 ORDER CODE	DIMENSIONS							JOINING ELEMENTS			ACHIEVEMENTS					WEIGHT
	d	D	D1	L3	L2	L1	L	DIN 912		Ma	Mt	Fass	Ps	Ph		
	mm	mm	mm	mm	mm	mm	mm	Ad.	12.9 Type	Nm	Nm	kN	N/mm ²	N/mm ²	kg	
CTL351 - 18	18	47	53	26	30	41	47	6	M6	17	310	35	198	76	0,5	
CTL351 - 19	19	47	53	26	30	41	47	6	M6	17	330	35	187	76	0,5	
CTL351 - 20	20	47	53	26	30	41	47	6	M6	17	350	35	178	76	0,5	
CTL351 - 22	22	47	53	26	30	41	47	6	M6	17	380	35	162	76	0,5	
CTL351 - 24	24	50	56	26	30	41	47	6	M6	17	420	35	148	71	0,5	
CTL351 - 25	25	50	56	26	30	41	47	6	M6	17	440	35	142	71	0,5	
CTL351 - 28	28	55	61	26	30	41	47	6	M6	17	490	35	127	65	0,6	
CTL351 - 30	30	55	61	26	30	41	47	6	M6	17	520	35	119	65	0,6	
CTL351 - 32	32	60	66	26	30	41	47	8	M6	17	700	47	148	79	0,7	
CTL351 - 35	35	60	66	26	30	41	47	8	M6	17	800	47	136	79	0,6	
CTL351 - 38	38	65	71	26	30	41	47	8	M6	17	900	47	125	73	0,8	
CTL351 - 40	40	65	71	26	30	41	47	8	M6	17	900	47	119	73	0,6	
CTL351 - 42	42	75	81	30	35	49	57	6	M8	41	1.400	60	136	76	1,2	
CTL351 - 45	45	75	81	30	35	49	57	6	M8	41	1.500	60	127	76	1,1	
CTL351 - 48	48	80	86	30	35	49	57	8	M8	41	1.500	60	119	71	1,3	
CTL351 - 50	50	80	86	30	35	49	57	8	M8	41	1.600	60	114	71	1,1	
CTL351 - 55	55	85	91	30	35	49	57	8	M8	41	2.400	90	138	89	1,2	
CTL351 - 60	60	90	96	30	35	49	57	8	M8	41	2.600	90	127	84	1,3	
CTL351 - 65	65	95	102	30	35	49	57	8	M8	41	2.800	90	117	80	1,4	
CTL351- 70	70	110	117	40	45	59	69	8	M10	83	4.300	120	117	74	2,5	
CTL351 - 75	75	115	122	40	45	59	69	8	M10	83	4.600	120	109	71	2,6	
CTL351 - 80	80	120	127	40	45	59	69	8	M10	83	4.900	120	102	68	2,8	
CTL351 - 85	85	125	132	40	45	59	69	10	M10	83	6.000	140	110	75	2,8	
CTL351 - 90	90	130	137	40	45	59	69	10	M10	83	6.400	140	104	72	3	
CTL351 - 95	95	135	142	40	45	59	69	10	M10	83	8.400	180	123	87	3	
CTL351 - 100	100	145	153	46	52	68	80	8	M12	145	9.200	180	106	73	5,5	
CTL351 - 110	110	155	163	46	52	68	80	8	M12	145	10.100	180	97	69	4,8	
CTL351 - 120	120	165	173	46	52	68	80	10	M12	145	12.600	210	101	74	5,5	
CTL351 - 130	130	180	188	46	52	68	80	12	M12	145	17.100	260	117	84	6	
CTL351 - 140	140	190	199	50	57	76	90	10	M14	230	19.800	280	105	78	7,5	
CTL351 - 150	150	200	209	50	57	76	90	12	M14	230	26.600	350	123	92	7,7	
CTL351 - 160	160	210	219	50	57	76	90	12	M14	230	28.400	350	115	88	8	
CTL351 - 170	170	225	234	50	57	76	90	14	M14	230	36.100	430	130	98	9,8	
CTL351 - 180	180	235	244	50	57	76	90	14	M14	230	38.300	430	123	94	9,8	
CTL351 - 190	190	250	259	50	57	76	90	16	M14	230	50.500	530	146	111	14	
CTL351 - 200	200	260	269	50	57	76	90	16	M14	230	53.200	530	138	106	17	
CTL351 - 220	220	285	294	64	72	98	114	12	M16	355	64.000	580	110	85	18	
CTL351 - 240	240	305	314	64	72	98	114	16	M16	355	87.000	700	126	99	19	
CTL351 - 260	260	325	334	64	72	98	114	18	M16	355	114.000	900	139	111	22	
CTL351 - 280	280	355	364	75	83	121	139	16	M18	485	127.000	900	115	91	33	
CTL351 - 300	300	375	384	75	83	121	139	18	M18	485	159.000	1.100	125	100	35	

- d Inner Diameter
- D Outer Diameter
- D1 Output Shaft
- L Total Length
- L1 Length Excluding Bolts
- L2 Surface Contact Length
- Mt Max. Transferable Torque (Fass=0 kN)
- Fass Max. Transferable axial load (Mt=0 Nm)
- Ps Shaft Contact Pressure
- Ph Core Diameter Contact Pressure
- Ma Screw Tightening Torque



STANDART SERIAL CONICAL LOCKS **CTL 351F**

- Self centering,
- Ideal for medium and high torque requiring.
- H8-h8,Ra≤3,2



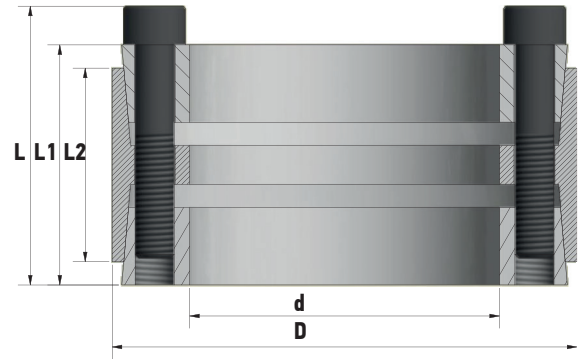
351F ORDER CODE	DIMENSIONS							JOINING ELEMENTS			ACHIEVEMENTS					WEIGHT
	d	D	D1	L3	L2	L1	L	DIN 912		Ma	Mt	Fass	Ps	Ph	kg	
	mm	mm	mm	mm	mm	mm	mm	Ad.	12.9 Type	Nm	Nm	kN	N/mm ²	N/mm ²		
CTL351F - 18	18	47	53	26	30	41	47	6	M6	17	370	34	160	75	0,5	
CTL351F - 19	19	47	53	26	30	41	47	6	M6	17	370	34	160	75	0,5	
CTL351F - 20	20	47	53	26	30	41	47	6	M6	17	340	34	175	75	0,5	
CTL351F - 22	22	47	53	26	30	41	47	6	M6	17	370	34	160	75	0,5	
CTL351F - 24	24	50	56	26	30	41	47	6	M6	17	400	34	145	70	0,5	
CTL351F - 25	25	50	56	26	30	41	47	6	M6	17	420	34	140	70	0,5	
CTL351F - 28	28	55	61	26	30	41	47	6	M6	17	470	34	125	65	0,6	
CTL351F - 30	30	55	61	26	30	41	47	6	M6	17	510	34	115	65	0,6	
CTL351F - 32	32	60	66	26	30	41	47	8	M6	17	720	45	145	80	0,7	
CTL351F - 35	35	60	66	26	30	41	47	8	M6	17	790	45	135	80	0,6	
CTL351F - 38	38	65	71	26	30	41	47	8	M6	17	860	45	125	70	0,8	
CTL351F - 40	40	65	71	26	30	41	47	8	M6	17	900	45	120	70	0,6	
CTL351F - 42	42	75	81	30	35	49	57	6	M8	41	1.320	63	135	75	1,2	
CTL351F - 45	45	75	81	30	35	49	57	6	M8	41	1.410	63	125	75	1,1	
CTL351F - 48	48	80	86	30	35	49	57	8	M8	41	1.510	63	120	70	1,3	
CTL351F - 50	50	80	86	30	35	49	57	8	M8	41	1.570	63	110	70	1,1	
CTL351F - 55	55	85	91	30	35	49	57	8	M8	41	2.310	84	135	90	1,2	
CTL351F - 60	60	90	96	30	35	49	57	8	M8	41	2.520	84	124	85	1,3	
CTL351F - 65	65	95	102	30	35	49	57	8	M8	41	2.730	84	115	80	1,4	
CTL351F - 70	70	110	117	40	45	59	69	8	M10	83	4.650	133	125	80	2,5	
CTL351F - 75	75	115	122	40	45	59	69	8	M10	83	5.000	133	120	80	2,6	
CTL351F - 80	80	120	127	40	45	59	69	8	M10	83	5.330	133	110	75	2,8	
CTL351F - 85	85	125	132	40	45	59	69	10	M10	83	7.080	167	130	90	2,8	
CTL351F - 90	90	130	137	40	45	59	69	10	M10	83	7.500	167	125	85	3	
CTL351F - 95	95	135	142	40	45	59	69	10	M10	83	7.900	167	115	85	3	
CTL351F - 100	100	145	153	46	52	68	80	8	M12	145	9.700	194	115	80	5,5	
CTL351F - 110	110	155	163	46	52	68	80	8	M12	145	10.650	194	100	75	4,8	
CTL351F - 120	120	165	173	46	52	68	80	10	M12	145	14.550	243	120	85	5,5	
CTL351F - 130	130	180	188	46	52	68	80	12	M12	145	18.950	291	130	95	6	
CTL351F - 140	140	190	199	50	57	76	90	8	M14	230	18.650	267	100	75	7,5	
CTL351F - 150	150	200	209	50	57	76	90	12	M14	230	25.000	333	120	90	7,7	
CTL351F - 160	160	210	219	50	57	76	90	12	M14	230	26.650	333	110	85	8	
CTL351F - 170	170	225	234	50	57	76	90	14	M14	230	34.000	400	125	95	9,8	
CTL351F - 180	180	235	244	50	57	76	90	14	M14	230	36.000	400	120	90	9,8	
CTL351F - 190	190	250	259	50	57	76	90	16	M14	230	47.500	500	140	120	10	
CTL351F - 200	200	260	269	50	57	76	90	16	M14	230	50.000	500	150	115	10,5	
CTL351F - 220	220	285	294	64	72	98	114	12	M16	355	65.100	592	111	86	14,8	
CTL351F - 240	240	305	314	64	72	98	114	16	M16	355	88.700	740	128	101	15,7	
CTL351F - 260	260	325	334	64	72	98	114	18	M16	355	115.400	887	141	113	17	
CTL351F - 280	280	355	364	75	83	121	139	16	M18	485	132.900	949	120	95	36	
CTL351F - 300	300	375	384	75	83	121	139	18	M18	485	160.200	1.068	126	101	37	

- d** Inner Diameter
- D** Outer Diameter
- D1** Output Shaft
- L** Total Length
- L1** Length Excluding Bolts
- L2** Surface Contact Length
- Mt** Max. Transferable Torque (Fass=0 kN)
- Fass** Max. Transferable axial load (Mt=0 Nm)
- Ps** Shaft Contact Pressure
- Ph** Core Diameter Contact Pressure
- Ma** Screw Tightening Torque



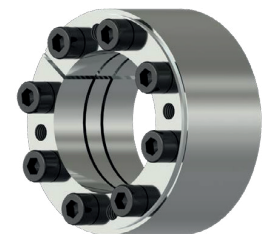
STANDART SERIAL CONICAL LOCKS **CTL 400**

- Self centering,
- Ideal for high torque requiring.
- H8-h8,Ra≤3,2



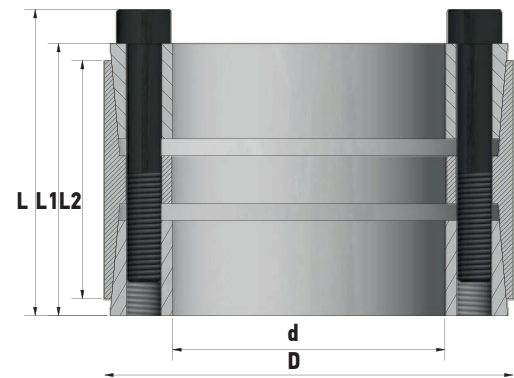
400 ORDER CODE	DIMENSIONS					JOINING ELEMENTS			ACHIEVEMENTS					WEIGHT kg
	d	D	L2	L1	L	DIN 912		Ma	Mt	Fass	Ps	Ph		
	mm	mm	mm	mm	mm	Ad.	12.9 Type	Nm	Nm	kN	N/mm ²	N/mm ²		
CTL400 - 70	70	110	50	62	72	8	M10	83	7.090	203	192	109	2,30	
CTL400 - 75	75	115	50	62	72	10	M10	83	7.800	253	184	120	2,40	
CTL400 - 80	80	120	50	62	72	10	M10	83	10.130	253	210	124	2,50	
CTL400 - 85	85	125	50	62	72	10	M10	83	11.100	261	203	138	2,60	
CTL400 - 90	90	130	50	62	72	12	M10	83	12.540	279	205	126	2,70	
CTL400- 95	95	135	50	62	72	12	M10	83	13.600	286	200	141	3,15	
CTL400 - 100	100	145	60	72	84	10	M12	145	18.440	369	204	125	4,10	
CTL400 - 110	110	155	60	72	84	10	M12	145	20.200	369	185	117	4,40	
CTL400 - 120	120	165	60	72	84	12	M12	145	24.300	406	187	121	4,80	
CTL400- 130	130	180	65	82	94	14	M12	145	33.500	516	199	129	6,30	
CTL400- 140	140	190	65	82	94	16	M12	145	38.700	553	198	131	6,60	
CTL400- 150	150	200	65	82	94	16	M12	145	41.400	553	185	124	7,80	
CTL400 - 160	160	210	65	82	94	16	M12	145	47.200	590	185	126	7,40	
CTL400- 170	170	225	78	93	107	16	M14	230	64.500	759	185	126	10,70	
CTL400- 180	180	235	78	93	107	16	M14	230	68.300	759	175	121	11,30	
CTL400- 190	190	250	88	105	119	16	M14	230	76.900	810	153	106	14,60	
CTL400 - 200	200	260	88	105	119	18	M14	230	91.100	911	163	115	15,30	
CTL400 - 220	220	285	96	111	127	16	M16	355	116.000	1.055	159	112	20,20	
CTL400 - 240	240	305	96	111	127	20	M16	355	168.800	1.407	194	139	21,80	
CTL400- 260	260	325	96	111	127	22	M16	355	182.000	1.407	179	130	23,40	
CTL400 - 280	280	355	96	111	131	16	M20	690	230.000	1.647	205	143	30,00	
CTL400 - 300	300	375	96	111	131	16	M20	690	263.000	1.757	204	145	31,20	
CTL400 - 320	320	405	124	136	156	20	M20	690	351.000	2.196	175	126	48,00	
CTL400 - 340	340	425	124	136	156	20	M20	690	373.000	2.196	165	120	51,00	
CTL400 - 360	360	455	140	155	177	20	M22	930	492.000	2.734	171	124	69,00	
CTL400 - 380	380	475	140	155	177	20	M22	930	519.000	2.734	162	118	73,00	
CTL400- 400	400	495	140	155	177	22	M22	930	601.000	3.007	169	125	76,00	
CTL400- 420	420	515	140	155	177	24	M22	930	680.000	3.250	176	140	80,00	

- d Inner Diameter
- D Outer Diameter
- L Total Length
- L1 Length Excluding Bolts
- L2 Surface Contact Length
- Mt Max. Transferable Torque (Fass=0 kN)
- Fass Max. Transferable axial load (Mt=0 Nm)
- Ps Shaft Contact Pressure
- Ph Core Diameter Contact Pressure
- Ma Screw Tightening Torque



STANDART SERIAL CONICAL LOCKS **CTL 401**

- Self centering,
- Ideal for very high torque requiring.
- H8-h8,Ra≤3,2



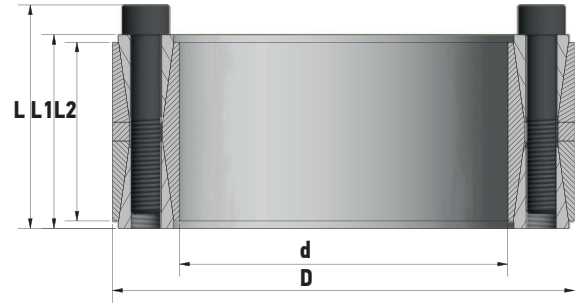
401 ORDER CODE	DIMENSIONS					JOINING ELEMENTS			ACHIEVEMENTS				WEIGHT kg
	d	D	L2	L1	L	DIN 912		Ma	Mt	Fass	Ps	Ph	
	mm	mm	mm	mm	mm	Ad.	12.9 Type	Nm	Nm	kN	N/mm ²	N/mm ²	
CTL401 - 24	24	50	32	40	46	6	M6	17	650	55	182	91	0,50
CTL401 - 24 SD	24	55	32	40	46	6	M6	17	800	67	308	134	0,50
CTL401 - 25	25	50	32	40	46	6	M6	17	650	67	182	91	0,50
CTL401 - 25 SD	25	55	32	40	46	6	M6	17	840	67	295	134	0,50
CTL401 - 28	28	55	32	40	46	6	M6	17	940	67	264	134	0,60
CTL401 - 30	30	55	32	40	46	6	M6	17	1.000	67	246	134	0,60
CTL401 - 32	32	60	44	54	60	8	M6	17	1.200	78	190	101	0,70
CTL401 - 35	35	60	44	54	60	8	M6	17	1.400	78	174	101	0,70
CTL401 - 38	38	65	44	54	60	8	M6	41	1.850	90	199	100	0,70
CTL401 - 38 SD	38	75	44	54	62	8	M8	41	2.700	144	296	150	0,70
CTL401 - 40	40	65	44	54	60	8	M6	41	2.000	90	189	117	0,70
CTL401 - 40 SD	40	75	44	54	62	8	M8	41	2.900	144	281	150	0,70
CTL401 - 42	42	75	44	54	62	8	M8	41	3.000	144	268	150	1,00
CTL401 - 45	45	75	44	54	62	8	M8	41	3.200	144	250	150	0,90
CTL401 - 48	48	80	56	66	74	8	M8	41	4.000	165	207	124	1,40
CTL401 - 50	50	80	56	66	74	8	M8	41	4.100	165	198	124	1,30
CTL401 - 55	55	85	56	66	74	10	M8	41	5.100	185	203	131	1,50
CTL401 - 60	60	90	56	66	74	10	M8	41	6.200	206	208	138	1,60
CTL401 - 65	65	95	56	66	74	10	M8	41	6.700	206	191	131	1,80
CTL401 - 70	70	110	70	80	90	10	M10	83	11.800	338	229	145	3,00
CTL401 - 75	75	115	70	80	90	10	M10	83	12.700	338	213	139	3,30
CTL401 - 80	80	120	70	80	90	12	M10	83	14.900	372	220	147	3,50
CTL401 - 85	85	125	70	80	90	12	M10	83	15.800	372	207	141	3,70
CTL401 - 90	90	130	70	80	90	12	M10	83	18.200	405	213	148	3,80
CTL401 - 95	95	135	70	80	90	12	M10	83	19.300	405	202	142	5,00
CTL401 - 100	100	145	90	102	114	12	M12	145	27.700	555	210	145	6,00
CTL401-1 10	110	155	90	102	114	12	M12	145	33.300	605	209	148	6,20
CTL401-1 20	120	165	90	102	114	12	M12	145	42.400	706	223	162	7,20
CTL401-1 30	130	180	104	116	130	12	M14	230	53.700	826	201	145	10,00
CTL401-1 40	140	190	104	116	130	14	M14	230	67.400	963	217	160	10,20
CTL401-1 50	150	200	104	116	130	16	M14	230	77.400	1.030	217	163	10,80
CTL401-1 60	160	210	104	116	130	16	M14	230	88.100	1.100	217	166	11,50
CTL401-1 70	170	225	134	149	165	14	M16	355	111.000	1.310	186	141	17,00
CTL401-1 80	180	235	134	149	165	16	M16	355	126.000	1.410	188	144	18,50
CTL401-1 90	190	250	134	149	165	16	M16	355	142.000	1.500	190	145	21,50
CTL401-2 00	200	260	134	149	165	16	M16	355	150.000	1.500	181	139	22,00
CTL401-2 20	220	285	134	150	166	18	M16	355	185.000	1.690	185	143	26,59
CTL401-2 40	240	305	134	150	166	20	M16	355	225.000	1.870	188	148	28,71
CTL401-2 60	260	325	134	150	166	22	M16	690	256.000	1.970	182	146	31,23
CTL401-2 80	280	355	165	177	197	18	M20	690	370.000	2.640	190	150	46,77
CTL401-3 00	300	375	165	177	197	20	M20	690	440.000	2.940	197	157	49,72
CTL401-3 20	320	405	165	177	197	20	M20	690	493.000	3.080	194	153	60,52
CTL401-3 40	340	425	165	177	197	22	M20	690	549.000	3.230	191	153	63,2
CTL401-3 60	360	455	190	203	225	21	M22	930	680.000	3.780	183	145	68,78
CTL401-3 80	380	475	190	203	225	22	M22	930	752.000	3.960	182	145	91,04
CTL401-4 00	400	495	190	203	225	24	M22	930	864.000	4.320	188	152	95,3

- d Inner Diameter
- D Outer Diameter
- D1 Output Shaft
- L Total Length
- L1 Length Excluding Bolts
- L2 Surface Contact Length
- Mt Max. Transferable Torque (Fass=0 kN)
- Fass Max. Transferable axial load (Mt=0 Nm)
- Ps Shaft Contact Pressure
- Ph Core Diameter Contact Pressure
- Ma Screw Tightening Torque



STANDART SERIAL CONICAL LOCKS **CTL 410**

- Self centering,
- Ideal for very high torque requiring.
- H8-h8, Ra_s≤3,2



410 ORDER CODE	DIMENSIONS					JOINING ELEMENTS			ACHIEVEMENTS				WEIGHT kg
	d	D	L2	L1	L	DIN 912		Ma	Mt	Fass	Ps	Ph	
	mm	mm	mm	mm	mm	Ad.	12.9 Type	Nm	Nm	kN	N/mm ²	N/mm ²	
CTL410 - 100	100	145	60	65	75	9	M10	83	6.575	132	91	63	4,10
CTL410 - 110	110	155	60	65	75	10	M10	83	8.037	146	92	65	4,40
CTL410 - 120	120	165	60	65	75	12	M10	83	10.521	175	101	74	4,80
CTL410 - 130	130	180	68	74	84	15	M10	83	14.247	219	101	73	6,50
CTL410 - 140	140	190	68	74	84	15	M10	83	15.343	219	94	69	7,00
CTL410 - 150	150	200	68	74	84	16	M10	83	17.543	234	94	70	7,40
CTL410 - 160	160	210	68	74	84	18	M10	83	21.041	263	99	75	7,80
CTL410 - 170	170	225	75	81	93	15	M12	145	27.352	322	105	80	10,00
CTL410 - 180	180	235	75	81	93	16	M12	145	30.892	343	106	81	10,60
CTL410 - 190	190	250	88	94	106	18	M12	145	36.684	386	96	73	14,30
CTL410 - 200	200	260	88	94	106	20	M12	145	42.906	429	101	78	15,00
CTL410 - 220	220	285	98	104	116	21	M12	145	49.556	451	89	69	19,80
CTL410 - 240	240	305	98	104	116	24	M12	145	61.784	515	93	73	21,40
CTL410 - 260	260	325	98	104	116	27	M12	145	75.300	579	97	77	23,00
CTL410 - 280	280	355	120	126	140	28	M14	230	115.034	822	106	84	35,20
CTL410 - 300	300	375	120	126	140	28	M14	230	123.250	822	99	80	37,40
CTL410 - 320	320	405	135	142	158	28	M16	355	179.962	1.125	110	87	51,30
CTL410 - 340	340	425	135	142	158	28	M16	355	191.209	1.125	103	83	54,10
CTL410 - 360	360	455	158	165	183	24	M18	485	209.622	1.165	84	67	75,40
CTL410 - 380	380	475	158	165	183	27	M18	485	248.927	1.310	90	72	79,00
CTL410 - 400	400	495	158	165	183	32	M18	485	310.552	1.553	101	82	82,80
CTL410 - 420	420	515	158	165	183	32	M18	485	326.079	1.553	96	78	86,50
CTL410 - 440	440	545	172	180	200	27	M20	690	372.775	1.694	91	74	110,00

- d Inner Diameter
- D Outer Diameter
- D1 Output Shaft
- L Total Length
- L1 Length Excluding Bolts
- L2 Surface Contact Length
- Mt Max. Transferable Torque (Fass=0 kN)
- Fass Max. Transferable axial load (Mt=0 Nm)
- Ps Shaft Contact Pressure
- Ph Core Diameter Contact Pressure
- Ma Screw Tightening Torque



STANDART SERIAL CONICAL LOCKS **CTL 411**

- Self centering,
- Ideal for high and extreme torque requiring.
- H8-h8,Ra≤3,2



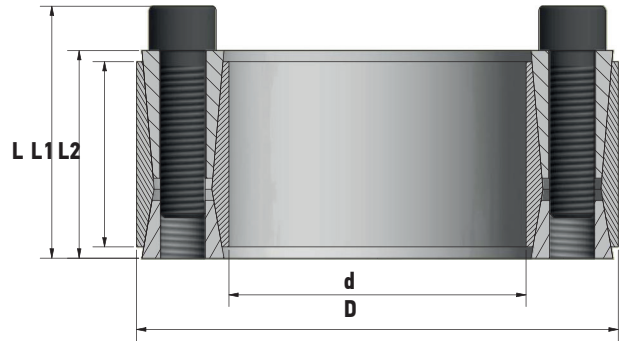
411 ORDER CODE	DIMENSIONS					JOINING ELEMENTS			ACHIEVEMENTS				WEIGHT
	d	D	L2	L1	L	DIN 912		Ma	Mt	Fass	Ps	Ph	kg
	mm	mm	mm	mm	mm	Ad.	12.9 Type	Nm	Nm	kN	N/mm ²	N/mm ²	
CTL411 - 100	100	145	60	65	77	10	M12	145	14.244	285	198	136	4,10
CTL411 - 110	110	155	60	65	77	10	M12	145	15.668	285	180	127	4,40
CTL411 - 120	120	165	60	65	77	12	M12	145	20.511	342	198	144	4,80
CTL411 - 130	130	180	68	74	86	15	M12	145	27.775	427	197	142	6,50
CTL411 - 140	140	190	68	74	86	18	M12	145	35.894	513	220	162	7,00
CTL411 - 150	150	200	68	74	86	18	M12	145	38.485	513	205	154	7,40
CTL411 - 160	160	210	68	74	86	21	M12	145	47.858	598	224	171	7,80
CTL411 - 170	170	225	75	81	95	18	M14	230	59.620	701	222	168	10,00
CTL411 - 180	180	235	75	81	95	18	M14	230	63.127	701	210	161	10,60
CTL411 - 190	190	250	88	94	108	20	M14	230	74.038	779	186	141	14,30
CTL411 - 200	200	260	88	94	108	24	M14	230	93.522	935	211	163	15,00
CTL411 - 220	220	285	98	104	120	18	M16	355	105.606	960	189	146	19,80
CTL411 - 240	240	305	98	104	120	24	M16	355	153.624	1.280	231	182	21,40
CTL411 - 260	260	325	98	104	120	25	M16	355	173.360	1.334	222	178	23,00
CTL411 - 280	280	355	120	126	144	24	M18	485	216.499	1.546	200	158	35,20
CTL411 - 300	300	375	120	126	144	25	M18	485	241.629	1.611	195	156	37,40
CTL411 - 320	320	405	135	142	162	25	M20	690	333.337	2.083	199	157	51,30
CTL411 - 340	340	425	135	142	162	25	M20	690	354.170	2.083	187	150	54,10
CTL411 - 360	360	455	158	165	187	25	M22	930	463.312	2.574	186	147	75,40
CTL411 - 380	380	475	158	165	187	25	M22	930	489.052	2.574	176	141	79,00
CTL411 - 400	400	495	158	165	187	25	M22	930	514.791	2.574	167	135	82,80
CTL411 - 420	420	515	158	165	187	30	M22	930	648.637	3.089	191	156	86,50
CTL411 - 440	440	545	172	180	204	30	M24	1200	799.628	3.635	192	155	110,00

- d** Inner Diameter
- D** Outer Diameter
- L** Total Length
- L1** Length Excluding Bolts
- L2** Surface Contact Length
- Mt** Max. Transferable Torque (Fass=0 kN)
- Fass** Max. Transferable axial load (Mt=0 Nm)
- Ps** Shaft Contact Pressure
- Ph** Core Diameter Contact Pressure
- Ma** Screw Tightening Torque



STANDART SERIAL CONICAL LOCKS **CTL 450**

- Self centering,
- Ideal for very high torque requiring.
- H8-h8,Ra_z3,2



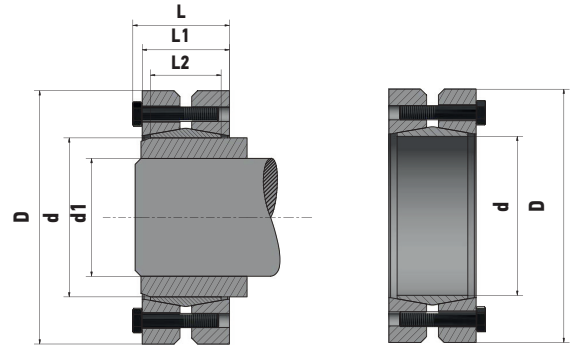
450 ORDER CODE	DIMENSIONS					JOINING ELEMENTS			ACHIEVEMENTS				WEIGHT kg
	d	D	L2	L1	L	DIN 912		Ma	Mt	Fass	Ps	Ph	
	mm	mm	mm	mm	mm	Ad.	12.9 Type	Nm	Nm	kN	N/mm ²	N/mm ²	
CTL450 - 70	70	120	56	62	74	8	M12	145	6.850	197	200	117	3,30
CTL450 - 80	80	130	56	62	74	12	M12	145	11.650	291	263	162	3,70
CTL450 - 90	90	140	56	62	74	12	M12	145	13.000	290	234	150	4,00
CTL450 - 100	100	160	74	80	94	12	M14	230	19.700	394	213	133	7,20
CTL450 - 110	110	170	74	80	94	14	M14	230	26.600	484	242	157	7,70
CTL450 - 120	120	180	74	80	94	15	M14	230	28.900	482	222	148	8,30
CTL450 - 130	130	190	74	80	94	15	M14	230	31.200	480	205	140	8,80
CTL450 - 140	140	200	74	80	94	17	M14	230	40.200	574	227	159	9,30
CTL450 - 150	150	210	74	80	94	18	M14	230	42.900	572	212	152	10,00
CTL450 - 160	160	230	88	94	110	17	M16	355	64.000	800	227	158	14,90
CTL450 - 170	170	240	88	94	110	18	M16	355	67.800	798	214	152	15,70
CTL450 - 180	180	250	88	94	110	20	M16	355	83.000	922	235	170	16,40
CTL450 - 190	190	260	88	94	110	21	M16	355	88.000	926	223	163	17,20
CTL450 - 200	200	270	88	94	110	23	M16	355	105.000	1.050	242	179	18,80
CTL450 - 220	220	300	110	116	134	21	M18	485	123.000	1.120	189	138	27,70
CTL450 - 240	240	320	110	116	134	24	M18	485	153.000	1.280	198	148	29,80
CTL450 - 260	260	340	110	116	134	26	M18	485	186.000	1.430	205	157	32,00
CTL450 - 280	280	370	130	136	156	24	M20	690	230.000	1.650	192	145	46,00
CTL450 - 300	300	390	130	136	156	24	M20	690	245.000	1.650	179	138	49,00

- d** Inner Diameter
- D** Outer Diameter
- L** Total Length
- L1** Length Excluding Bolts
- L2** Surface Contact Length
- Mt** Max. Transferable Torque (Fass=0 kN)
- Fass** Max. Transferable axial load (Mt=0 Nm)
- Ps** Shaft Contact Pressure
- Ph** Core Diameter Contact Pressure
- Ma** Screw Tightening Torque



STANDART SERIAL CONICAL LOCKS **CTL 601**

- Self centering,
- Ideal for high and extreme torque requiring.
- H8-h8,Ra≤3,2



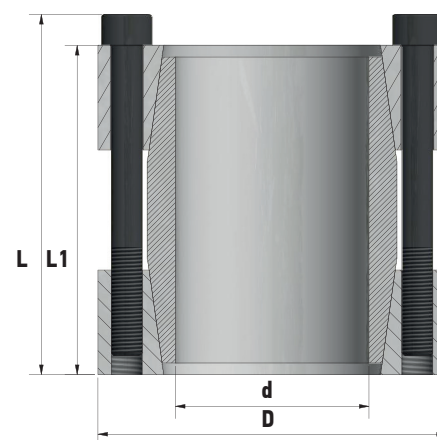
601 ORDER CODE	DIMENSIONS						JOINING ELEMENTS			ACHIEVEMENTS			WEIGHT
	d1	d	D	L2	L1	L	DIN 931		Ma	Mt	Fass	Ps	kg
	mm	mm	mm	mm	mm	mm	Ad	10.9 Type	Nm	Nm	kN	N/mm ²	
CTL 601-40x80	30	40	80	25	32	37,3	4	M8	30	900	60	182	0,83
	32									30	61	172	
CTL 601-44x85	34	44	85	28	34	39,3	5	M8	30	1.224	72	172	1
	36									30	84	190	
CTL 601-50x95	40	50	95	30	39	44,3	7	M8	30	2.268	113	215	1,4
	42									30	127	229	
CTL 601-55x105	45	55	105	30	39	44,3	7	M8	30	2.631	117	197	1,7
	48									30	132	209	
CTL 601-62x115	50	62	115	30	39	44,3	7	M8	30	3.000	120	168	2
	55									30	129	178	
CTL 601-68x120	55	68	120	30	39	44,3	8	M8	30	3.610	131	181	2,1
	60									30	135	170	
CTL 601-75x145	60	75	145	36	46	52,4	7	M10	59	5.500	183	179	3,3
	65									6.452	199	193	
CTL 601-80x145	65	80	145	36	46	52,4	7	M10	59	6.250	192	174	3,6
	70									7.212	206	186	
CTL 601-90x160	70	90	160	40	50	56,4	8	M10	59	7.210	206	152	4,8
	75									8.012	214	162	
CTL 601100x170	65	100	170	44	54	60,4	10	M10	59	5.843	180	143	5,4
	70									7.487	214	158	
	75									9.302	248	171	
CTL 601110x185	75	110	185	50	60	66,4	12	M10	59	9.335	249	151	7,1
	80									11.394	285	162	
	85									12.546	295	158	
CTL601120x210	80	120	210	55	65	72,5	10	M12	100	11.200	280	133	10
	85									13.500	318	146	
	90									15.863	353	162	
CTL 601125x215	85	125	215	55	65	72,5	10	M12	100	11.529	271	132	11
	90									14.950	332	144	
	95									16.911	356	155	
CTL 601140x230	95	140	230	60	74	81,5	12	M12	100	17.530	369	137	13
	100									20.150	403	146	
	105									22.537	429	155	
CTL 601155x265	105	155	265	66	80	87,5	15	M12	100	24.500	467	149	20
	110									28.030	510	156	
	115									31.950	556	164	
CTL 601-65x290	115	165	290	72	88	98	10	M16	250	41.022	713	196	27
	120									46.261	771	203	
	125									50.444	807	204	
CTL 601175x300	125	175	300	72	88	98	10	M16	250	45.251	724	183	28
	130									50.549	778	189	
	135									56.242	833	195	
CTL 601185x330	135	185	330	92	112	122	14	M16	250	72.602	1.076	197	46
	140									80.458	1.149	203	
	145									88.433	1.220	208	
CTL 601-200x350	145	200	350	92	112	122	15	M16	250	84.182	1.161	198	51
	150									92.500	1.233	202	
	155									100.566	1.298	207	
CTL 601-220x370	160	220	370	114	134	144	20	M16	250	126.368	1.580	197	66
	165									137.119	1.662	201	
	170									148.451	1.746	205	
CTL 601-240x405	170	240	405	120	144	156,5	15	M20	490	154.740	1.820	203	85
	180									176.044	1.956	206	
	190									202.813	2.135	213	
CTL 601-260x430	190	260	430	136	160	172,5	18	M20	490	216.905	2.283	201	104
	200									247.512	2.475	207	
	210									280.792	2.674	213	
CTL 601-280x460	210	280	460	148	172	184,5	21	M20	490	294.091	2.801	205	128
	220									330.639	3.006	210	
	230									369.985	3.217	215	
CTL 601-300x485	230	300	485	152	176	186,5	22	M20	490	349.939	3.043	198	143
	240									388.727	3.239	202	
	250									425.972	3.408	204	
CTL 601-320x520	240	320	520	160	184	196,5	24	M20	490	386.904	3.224	191	170
	250									424.214	3.394	193	
	260									468.339	3.603	197	

- d** Inner Diameter
- D** Outer Diameter
- d1** Shaft Diameter
- L** Total Length
- L1** Length Excluding Bolts
- L2** Surface Contact Length
- Mt** Max. Transferable Torque (Fass=0 kN)
- Fass** Max. Transferable axial load (Mt=0 Nm)
- Ps** Shaft Contact Pressure
- Ph** Core Diameter Contact Pressure
- Ma** Screw Tightening Torque

FİLİBE RULMAN
MAKİNA İMALAT İTHALAT İHRACAT LTD.ŞTİ.

SOLID COUPLINGS CTL 500

- Self centering,
- Ideal for medium torque requiring. It is used to connect 2 shafts of the same or different diameter, without axial misalignment between them.
- H8-h8, Ra≤3,2

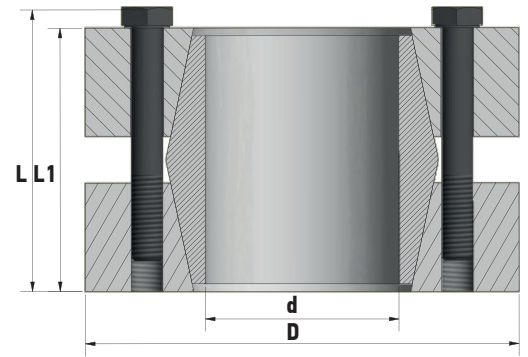


500 ORDER CODE	DIMENSIONS				JOINING ELEMENTS			ACHIEVEMENTS				WEIGHT kg
	d	D	L1	L	DIN 912		Ma	Mt	Fass	Ps		
	mm	mm	mm	mm	Ad.	12.9 Type	Nm	Nm	kN	N/mm ²		
CTL500 - 17	17	50	50	56	4	M6	17	200	23	251	0,5	
CTL500 - 18	18	50	50	56	4	M6	17	210	23	237	0,5	
CTL500 - 19	19	50	50	56	4	M6	17	220	23	225	0,5	
CTL500 - 20	20	50	50	56	4	M6	17	230	23	213	0,5	
CTL500 - 22	22	55	60	66	6	M6	17	380	35	247	0,6	
CTL500 - 24	24	55	60	66	6	M6	17	420	35	227	0,6	
CTL500 - 25	25	55	60	66	6	M6	17	440	35	218	0,6	
CTL500 - 28	28	60	60	66	6	M6	17	490	35	194	0,7	
CTL500 - 30	30	60	60	66	6	M6	17	520	35	181	0,7	
CTL500 - 32	32	65	60	66	6	M6	17	560	35	170	1,3	
CTL500 - 35	35	75	75	83	4	M8	41	660	38	146	1,3	
CTL500 - 38	38	75	75	83	4	M8	41	710	38	134	1,3	
CTL500 - 40	40	75	75	83	4	M8	41	750	38	128	1,3	
CTL500 - 42	42	78	75	83	4	M8	41	790	38	121	2,8	
CTL500 - 45	45	85	85	93	6	M8	41	1.300	56	150	2,5	
CTL500 - 48	48	90	85	93	6	M8	41	1.400	56	141	2,4	
CTL500 - 50	50	90	85	93	6	M8	41	1.400	56	135	2,3	
CTL500 - 55	55	95	85	93	8	M8	41	2.100	75	164	3,3	
CTL500 - 60	60	100	85	93	8	M8	41	2.300	75	150	3,2	
CTL500 - 65	65	105	85	93	8	M8	41	2.400	75	139	3	
CTL500 - 70	70	115	100	110	6	M10	83	3.200	93	138	5,4	
CTL500 - 75	75	120	100	110	6	M10	83	3.500	93	128	5	
CTL500 - 80	80	125	100	110	8	M10	83	4.900	120	161	4,7	
CTL500 - 85	85	130	100	110	8	M10	83	5.200	120	151	5,9	
CTL500 - 90	90	135	100	110	8	M10	83	5.600	120	143	6	

- d** Inner Diameter
- D** Outer Diameter
- L** Total Length
- L1** Surface Contact Length
- Mt** Max. Transferable Torque (Fass=0 kN)
- Fass** Max. Transferable axial load (Mt=0 Nm)
- Ps** Shaft Contact Pressure
- Ph** Core Diameter Contact Pressure
- Ma** Screw Tightening Torque

SOLID COUPLINGS CTL 501

- Self centering,
- Ideal for medium and high torque requiring. It is used to connect 2 shafts of the same or different diameter, without axial misalignment between them.
- H8-h8, Ra≤3,2

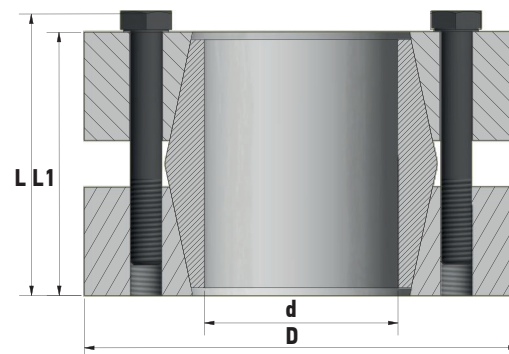


501 ORDER CODE	DIMENSIONS				JOINING ELEMENTS			ACHIEVEMENTS				WEIGHT
	d	D	L1	L	DIN 931		Ma	Mt	Fass	Ps	kg	
	mm	mm	mm	mm	Ad.	10.9 Type	Nm	Nm	kN	N/mm ²		
CTL501 - 22	22	60	40	44	6	M6	12	400	36	273	0,6	
CTL501 - 24	24	60	40	44	6	M6	12	440	36	250	0,6	
CTL501 - 25	25	66	44	48	8	M6	12	630	51	299	0,8	
CTL501 - 28	28	66	44	48	8	M6	12	710	51	267	0,8	
CTL501 - 29	29	66	44	48	8	M6	12	740	51	258	0,7	
CTL501 - 30	30	76	48	52	8	M6	12	870	58	256	1,2	
CTL501 - 32	32	76	48	52	8	M6	12	930	58	240	1,2	
CTL501 - 35	35	76	48	52	8	M6	12	1000	58	220	1,2	
CTL501 - 36	36	96	56	62	8	M8	30	1800	97	312	1,2	
CTL501 - 40	40	96	56	62	8	M8	30	1900	97	281	2,3	
CTL501 - 44	44	96	56	62	8	M8	30	2100	97	256	2,1	
CTL501 - 50	50	112	68	74	10	M8	30	3500	140	264	3,6	
CTL501 - 51	51	112	68	74	10	M8	30	3600	140	259	3,6	
CTL501 - 54	54	112	68	74	10	M8	30	3800	140	244	3,6	
CTL501 - 55	55	120	78	84	12	M8	30	4600	170	244	4,7	
CTL501 - 60	60	120	78	84	12	M8	30	5000	170	224	4,4	
CTL501 - 63	63	120	78	84	12	M8	30	5300	170	213	4,3	
CTL501 - 65	65	148	88	95	12	M10	60	8600	260	284	8,4	
CTL501 - 68	68	148	88	95	12	M10	60	9000	260	272	8,1	
CTL501 - 70	70	148	88	95	12	M10	60	9300	260	264	8,1	
CTL501 - 73	73	148	88	95	12	M10	60	9700	260	253	7,9	
CTL501 - 74	74	170	104	112	10	M12	100	11600	310	262	12,8	
CTL501 - 76	76	170	104	112	10	M12	100	12000	310	256	12,7	
CTL501 - 80	80	170	104	112	10	M12	100	12600	310	243	12,3	
CTL501 - 85	85	170	104	112	10	M12	100	13400	310	228	11,8	
CTL501 - 86	86	185	116	124	12	M12	100	16200	380	238	16,8	
CTL501 - 90	90	185	116	124	12	M12	100	17000	380	227	16,3	
CTL501 - 92	92	185	116	124	12	M12	100	17400	380	222	16,1	
CTL501 - 96	96	185	116	124	12	M12	100	18100	380	213	15,6	
CTL501 - 100	100	197	126	134	16	M12	100	23600	470	232	19,6	
CTL501 - 106	106	197	126	134	16	M12	100	25000	470	219	18,7	
CTL501 - 108	108	197	126	134	16	M12	100	25500	470	215	18,4	
CTL501 - 110	110	197	126	134	16	M12	100	26000	470	211	18,1	
CTL501 - 120	120	230	152	162	12	M16	250	43600	730	251	31,5	
CTL501 - 130	130	230	152	162	12	M16	250	47200	730	231	29,4	

- d** Inner Diameter
- D** Outer Diameter
- L** Total Length
- L1** Length Excluding Bolts
- Mt** Max. Transferable Torque (Fass=0 kN)
- Fass** Max. Transferable axial load (Mt=0 Nm)
- Ps** Shaft Contact Pressure
- Ph** Core Diameter Contact Pressure
- Ma** Screw Tightening Torque

SOLID COUPLINGS CTL 501M

- Self centering,
- Ideal for medium and high torque requiring. It is used to connect 2 shafts of the same or different diameter, without axial misalignment between them.
- H8-h8, Ra≤3,2

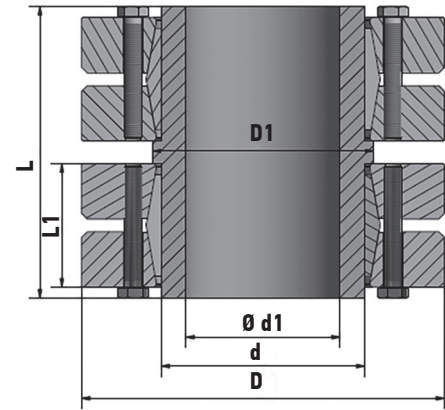


501M ORDER CODE	DIMENSIONS				JOINING ELEMENTS			ACHIEVEMENTS				WEIGHT
	d	D	L1	L	DIN 931		Ma	Mt	Fass	Ps		
	mm	mm	mm	mm	Ad.	10.9 Type	Nm	Nm	kN	N/mm ²	kg	
CTL501M - 6	6	35	19	22,5	3	M5	4	27	9	491	0,11	
CTL501M - 7	7	35	19	22,5	3	M5	4	31	9	421	0,11	
CTL501M - 8	8	35	19	22,5	3	M5	4	36	9	368	0,11	
CTL501M - 9	9	39	23	26,5	3	M5	4	50	11	327	0,17	
CTL501M - 10	10	39	23	26,5	4	M5	4	55	11	294	0,17	
CTL501M - 11	11	39	23	26,5	4	M5	4	61	11	268	1,17	
CTL501M - 12	12	44	30	33,5	4	M5	4	80	13	226	0,29	
CTL501M - 13	13	44	30	33,5	4	M5	4	87	13	209	0,29	
CTL501M - 14	14	44	30	33,5	4	M5	4	93	13	194	0,29	
CTL501M - 15	15	52	34	38	4	M6	12	160	22	275	0,4	
CTL501M - 16	16	52	34	38	4	M6	12	170	22	258	0,4	
CTL501M - 17	17	52	34	38	4	M6	12	180	22	242	0,4	
CTL501M - 18	18	52	34	38	4	M6	12	200	22	229	0,4	
CTL501M - 19	19	52	34	38	4	M6	12	210	22	217	0,4	
CTL501M - 20	20	60	40	44	6	M6	12	360	36	301	0,6	

- d** Inner Diameter
- D** Outer Diameter
- L** Total Length
- L1** Length Excluding Bolts
- Mt** Max. Transferable Torque (Fass=0 kN)
- Fass** Max. Transferable axial load (Mt=0 Nm)
- Ps** Shaft Contact Pressure
- Ph** Core Diameter Contact Pressure
- Ma** Screw Tightening Torque

SOLID COUPLINGS CTL 550

- Self centering,
- Ideal for medium and high torque requiring. It is used to connect 2 shafts of the same or different diameter, without axial misalignment between them.
- H8-h8, Ra≤3,2



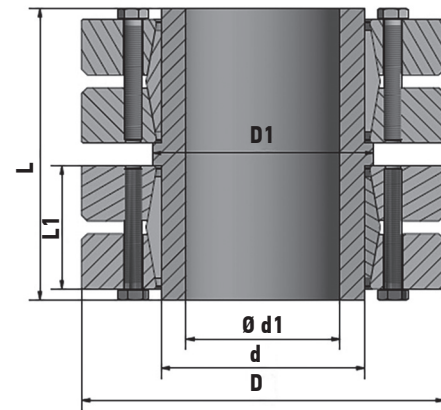
550 ORDER CODE	DIMENSIONS					JOINING ELEMENTS			ACHIEVEMENTS		WEIGHT kg
	Ø d1 mm	SHRINK DISC CTL 600 dxD	L mm	D1 mm	L1 mm	DIN 931 Ad	Ma 10.9 Type Nm	Mt Nm	Fass kN		
CTL 550 - 24	19	24x50	51	28	22,5	6	M5	4	258	27	0,44
	20								310	31	
	21								368	35	
CTL 550 - 30	24	30x60	55	34	24	6	M5	4	316	26	0,68
	25								371	30	
	26								430	33	
CTL 550 - 36	28	36x72	68	40	27,5	5	M6	12	515	37	1,10
	30								655	44	
	31								662	43	
CTL 550 - 44	34	44x80	73	49	29,5	7	M6	12	798	47	1,50
	35								899	51	
	36								1.003	56	
CTL 550 - 50	38	50x90	82	55	32	8	M6	12	985	52	2,10
	40								1.207	60	
	42								1.442	69	
CTL 550 - 55	42	55x100	88	60	34,5	8	M6	12	1.088	52	2,80
	45								1.423	63	
	48								1.817	76	
CTL 550 - 62	48	62x110	93	68	34,5	10	M6	12	1.782	74	3,40
	50								2.047	82	
	52								2.160	83	
CTL 550 - 68	50	68x115	103	74	34,5	10	M6	12	1.630	65	3,8
	55								2.034	74	
	60								2.857	95	
CTL 550 - 75	55	75x138	121,6	81	37,8	7	M8	30	2.593	94	6,1
	60								3.521	117	
	65								4.597	141	
CTL 550 - 80	60	80x145	131,6	86	37,8	7	M8	30	2.987	100	6,8
	65								3.947	121	
	70								5.035	144	
CTL 550 - 90	65	90x155	140,6	96	44,3	10	M8	30	4.541	140	9,7
	70								5.784	165	
	75								7.159	191	
CTL 550 - 100	70	100x170	160,6	106	49,3	12	M8	30	5.603	160	14,0
	75								6.978	186	
	80								8.561	214	
CTL 550 - 110	75	110x185	180,8	116	56,4	9	M10	59	6.847	183	19,0
	80								8.449	211	
	85								9.228	217	
CTL 550 - 115	80	115x200	183,8	131	56,4	10	M10	59	8.778	219	23,0
	85								9.528	224	
	90								11.608	258	
CTL 550 - 120	85	120x200	183,8	131	56,4	10	M10	59	8.512	200	22,0
	90								10.397	231	
	95								12.537	264	
CTL 550 - 125	85	125x215	200,8	136	60,4	12	M10	59	9.938	234	28,0
	90								12.039	268	
	95								14.330	302	

- Ø d1 Shaft Diameter
- D Outer Diameter
- D1 Output Shaft
- d Shrink Disc Inner Diameter
- L Total Length
- L1 Shrink Disc Length
- Ma Screw Tightening Torque
- Mt Max. Transferable Torque (Fass=0 kN)
- Fass Max. Transferable axial load (Mt=0 Nm)



SOLID COUPLINGS CTL 551

- Self centering,
- Ideal for high torque requiring. It is used to connect 2 shafts of the same or different diameter, without axial misalignment between them.
- H8-h8, Ra≤3,2



551 ORDER CODE	DIMENSIONS					JOINING ELEMENTS			ACHIEVEMENTS		WEIGHT kg
	Ø d1 mm	SHRINK DISC CTL 601 dxD	L mm	D1 mm	L1 mm	DIN 931 Ad	10.9 Type	Ma Nm	Mt Nm	Fass kN	
CTL 551- 125	85	125x215	197	136	72,5	10	M12	100	11529	271	32
	90								14950	332	
	95								16911	356	
CTL 551-140	95	140x230	209	148	81,5	12	M12	100	17530	369	39
	100								20150	403	
	105								22537	429	
CTL 551 -155	105	155x263	229	170	87,5	15	M12	100	24500	467	58
	110								28030	510	
	115								31950	556	
CTL 551- 165	115	165x290	240	177	98	10	M16	250	41022	713	74
	120								46261	771	
	125								50444	807	
CTL 551- 175	125	175x300	250	187	98	10	M16	250	45251	724	78
	130								50549	778	
	135								56242	833	
CTL 551- 185	135	185x330	265	201	122	14	M16	250	72602	1076	117
	140								80458	1149	
	145								88453	1220	
CTL 551- 200	145	200x350	290	216	122	15	M16	250	84182	1161	135
	150								92500	1233	
	155								100566	1298	
CTL 551- 220	160	220x370	310	236	144	20	M16	250	126368	1580	173
	165								137119	1662	
	170								148451	1746	
CTL 551- 240	170	240x405	349	254	156,5	15	M20	490	154740	1820	228
	180								176044	1956	
	190								202813	2135	
CTL 551- 260	190	260x430	389	274	172,5	18	M20	490	216905	2283	278
	200								247512	2475	
	210								280792	2674	
CTL 551- 280	210	280x460	429	296	184,5	21	M20	490	294091	2801	340
	220								330639	3006	
	230								369985	3217	
CTL 551- 300	230	300x485	440	316	186,5	22	M20	490	349939	3043	380
	240								388827	3239	
	245								425792	3408	
CTL 551 - 320	240	320x520	459	336	196,5	24	M20	490	386904	3224	465
	250								424214	3394	
	260								468339	3603	

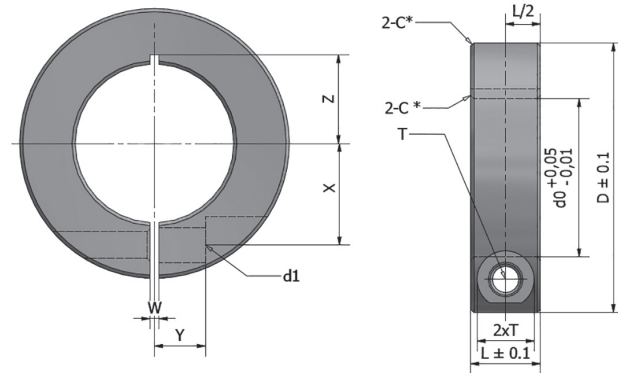
- Shaft Diameter
- Outer Diameter
- Output Shaft
- Shrink Disc Inner Diameter
- Total Length
- Shrink Disc Length
- Screw Tightening Torque
- Max. Transferable Torque (Fass=0 kN)
- Max. Transferable axial load (Mt=0 Nm)



FİLİBE RULMAN
MAKİNA İMALAT İTHALAT İHRACAT LTD.ŞTİ.

SHAFT HOLDER CTL MT1

- Self centering,
- Solid and single bolt shaft holder
- Ra_s3,2



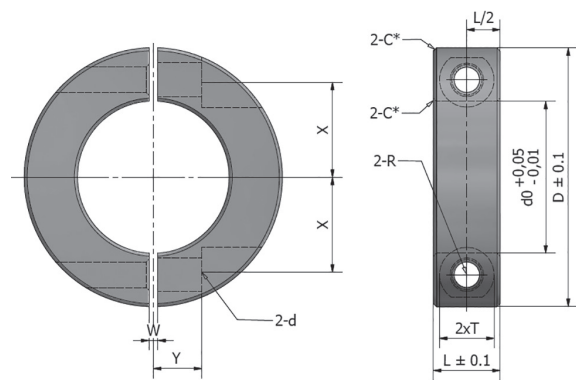
MT1 ORDER CODE	DIMENSIONS									
	d	D	d1	L	BOLT	T	W	X	Y	Z
	mm	mm	mm	mm	DIN 912 - 12.9	mm	mm	mm	mm	mm
MT1-3	3	16	3,4	8	M3	3	1	4,5	2,2	3-5
MT1-4	4	18		8				5	3	3,5-6
MT1-5	5	20	8	M4	3,75	5,5		4	5-6,5	
		22	4,5			10			6,5	6-7
MT1-6	6	20	3,4	8	M3	3		6	4	6-6,5
			4,5	10	M4	3,75				
MT1-8	8	25	3,4	8	M3	3		8	5	7-9
			4,5	10	M4	3,75				
			5,5	12	M5	4,5				
MT1-10	10	30	6,6	15	M6	6		9	5	7-10
			3,4	8	M3	3				
			3,5	10	M4	3,75				
MT1-12	12	30	5,5	12	M5	4,5	10	5	8-10	
			6,6	15	M6	6				
			3,4	8	M3	3				
MT1-13	13	30	4,5	10	M4	3,75	10	5	9-10	
			5,5	12	M5	4,5				
			3,4	8	M3	3				
MT1-15	15	35	6,6	15	M6	6	11	6	9-12	
			3,4	8	M3	3				
			4,5	10	M4	3,75				
MT1-16	16	35	4,5	10	M4	3,75	10	5	10	
			5,5	12	M5	4,5				
			6,6	15	M6	6				
MT1-18	18	40	5,5	12	M5	4,5	11	6	10-12	
			10	M5	4,5					
			12							
MT1-20	20	45	6,6	15	M6	6	11	5	10-12	
			3,4	8	M3	3				
			4,5	10	M4	3,75				
MT1-25	25	50	4,5	10	M4	3,75	11,5	6	10-11	
			5,5	12	M5	4,5				
			6,6	15	M6	6				
MT1-30	30	55	6,6	15	M6	8	12	8	10-12	
			10	M5	4,5					
			12							
MT1-35	35	60	5,5	12	M5	4,5	12	6	12	
			6,6	15	M6	6				
			10	M5	4,5					
12										
MT1-40	40	70	9	18	M8	7	13	8	13	
			10	M5	4,5					
			12							
MT1-50	50	85	11	22	M10	9	13	8	13	
			10	M5	4,5					
			12							
MT1-60	60	95	11	22	M10	9	13	8	13	
			10	M5	4,5					
			12							
MT1-80	80	130	18	32	M16	13	5	50	22	50
			10	M5	4,5					
			12							
MT1-100	100	150	18	36	M16	13	5	50	26	60
			10	M5	4,5					
12										

- d** Inner Diameter
- D** Outer Diameter
- d1** Bolt end Contact
- L** Total Length
- Z** Inner Slit Location
- Y** Bolt end-Slit Distance
- X** Bolt Location
- W** Slit Width
- T** Blank Bolt Hole Radius



SHAFT HOLDER CTL MT2

- Self centering,
- Two-Pieces Shaft Holder
- $Ra \leq 3,2$



MT2 ORDER CODE	DIMENSIONS									
	d	D	d1	L	BOLT	T	W	X	Y	
	mm	mm	mm	mm	DIN 912 - 12.9	mm	mm	mm	mm	
MT2-3	3	16	3,4	8	M3	3	1	4,5	2,2	
MT2-4	4	18		8				5	3	
MT2-5	5	20	8	M4	3,75	5,5		4		
		22	4,5			10			6,5	
MT2-6	6	20	3,4	8	M3	3		6	4	
			4,5	10	M4	3,75				
MT2-8	8	25	3,4	8	M3	3		8	5	
			4,5	10	M4	3,75				
			5,5	12	M5	4,5				
MT2-10	10	30	6,6	15	M6	6		9	6	
			3,4	8	M3	3				
			3,5	10	M4	3,75				
MT2-12	12	35	5,5	12	M5	4,5	10	5		
			6,6	15	M6	6				
			3,4	8	M3	3				
MT2-13	13	30	4,5	10	M4	3,75	11	6		
			34	5,5	12	M5			4,5	
			35	6,6	15	M6			6	
MT2-15	15	35	4,5	10	M4	3,75	11,5	6		
			35	5,5	12	M5			4,5	
			40	6,6	15	M6			6	
MT2-16	16	35	5,5	10	M5	4,5	12	6		
			40	6,6	15				M6	
MT2-18	18	40	5,5	10	M5	4,5	12	6		
			45	6,6	15				M6	6
			14	7						
MT2-20	20	45	6,6	10	M6	6	13	8		
			15	8						
MT2-25	25	45	5,5	12	M5	4,5	13	8		
			17	7						
			50	15	M6				8	18
55	6,6	20								
MT2-30	30	60	9	20	M8	7	20	12		
			15							
MT2-35	35	6,6	15	M6	6	2	23	12		
MT2-40	40	70	9	18	M8				7	26
MT2-50	50	85	11	22	M10	9	3	32	18	
MT2-60	60	95		22						37
MT2-80	80	130	18	32	M16	13	5	50	22	
MT2z-100	100	150		36						60

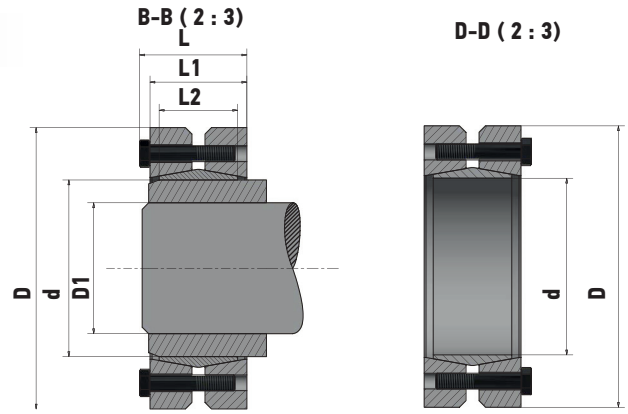
- d Inner Diameter
- D Outer Diameter
- L Total Length
- T Blank Bolt Hole Radius
- W Slit Width
- Y Inner Slit Location
- X Bolt Location
- Z Bolt end-Slit Distance



FILIBE RULMAN
MAKİNA İMALAT İTHALAT İHRACAT LTD.ŞTİ.

SHRINK DISC CTL 600

- Self centering,
- Ideal for medium-high torque requiring.
- H8-h8,Ra≤3,2

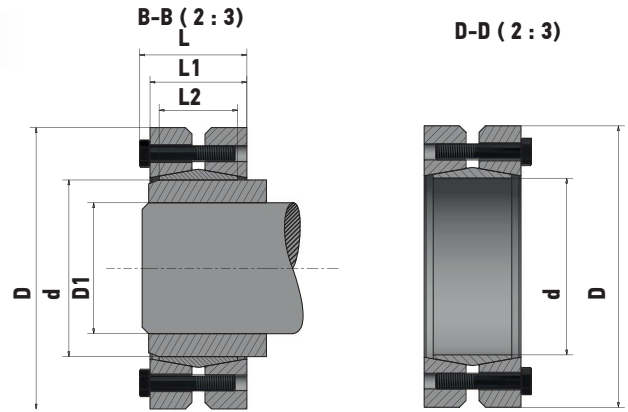


600	DIMENSIONS						JOINING ELEMENTS			ACHIEVEMENTS			WEIGHT
	d1	d	D	L2	L1	L	DIN 931		Ma	Mt	Fass	Ps	
ORDER CODE	mm	mm	mm	mm	mm	mm	Ad	10.9 Type	Nm	Nm	kN	N/mm ²	kg
CTL 600-14x37	10	14	37	9	12	14,8	3	M4	2,4	14	3	73	0,07
	11									26	5	110	
	12									46	8	162	
CTL 600-16x41	12	16	41	12	15	18,5	3	M5	4,8	34	6	89	0,11
	13									59	9	132	
	14									88	13	171	
CTL 600-24x50	19	24	50	14	19	22,5	6	M5	6	258	27	232	0,19
	20									310	31	252	
	21									368	35	271	
CTL 600-30x60	24	30	60	16	21,5	24	6	M5	6	316	26	156	0,3
	25									371	30	169	
	26									430	33	181	
CTL 600-36x72	28	36	72	18	23,5	27,5	5	M6	12	515	37	166	0,48
	30									655	44	184	
	31									662	43	174	
CTL 600-44x80	34	44	80	20	25,5	29,5	7	M6	12	798	47	157	0,61
	35									899	51	167	
	36									1.003	56	176	
CTL 600-50x90	38	50	90	22	28	32	8	M6	12	985	52	141	0,83
	40									1.207	60	156	
	42									1.442	69	169	
CTL 600-55x100	42	55	100	23	30,5	34,5	8	M6	12	1.088	52	122	1,1
	45									1.423	63	139	
	48									1.817	76	156	
CTL 600-62x110	48	62	110	23	30,5	34,5	10	M6	12	1.782	74	153	1,3
	50									2.047	82	162	
	52									2.160	83	158	
CTL 600-68x115	50	68	115	23	30,5	34,5	10	M6	12	1.630	65	129	1,4
	55									2.034	74	133	
	60									2.857	95	157	
CTL 600-75x138	55	75	138	25	32,5	37,8	7	M8	30	2.593	94	156	2,3
	60									3.521	117	178	
	65									4.597	141	198	
CTL 600-80x145	60	80	145	25	32,5	37,8	7	M8	30	2.987	100	151	2,5
	65									3.947	121	170	
	70									5.035	144	187	
CTL 600-90x155	65	90	155	30	39	44,3	10	M8	30	4.541	140	163	3,3
	70									5.784	165	179	
	75									7.159	191	193	
CTL 600-100x170	70	100	170	34	44	49,3	12	M8	30	5.603	160	153	4,4
	75									6.978	186	166	
	80									8.561	214	179	
CTL 600-110x185	75	110	185	39	50	56,4	9	M10	59	6.847	183	142	6
	80									8.449	211	154	
	85									9.228	217	149	
CTL 600-115x200	80	115	200	40	50	56,4	10	M10	59	8.778	219	156	7,3
	85									9.528	224	150	
	90									11.608	258	163	

- d** Inner Diameter
- D** Outer Diameter
- d1** Shaft Diameter
- L** Total Length
- L1** Length Excluding Bolts
- L2** Surface Contact Length
- Mt** Max. Transferable Torque (Fass=0 kN)
- Fass** Max. Transferable axial load (Mt=0 Nm)
- Ps** Shaft Contact Pressure
- Ph** Core Diameter Contact Pressure
- Ma** Screw Tightening Torque

SHRINK DISC CTL 600

- Self centering,
- Ideal for medium-high torque requiring.
- H8-h8, Ra≤3,2

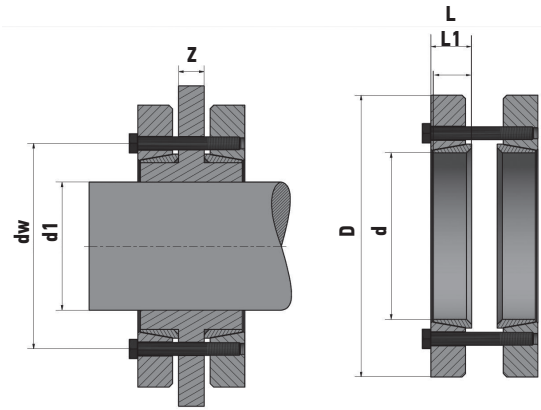


600	DIMENSIONS						JOINING ELEMENTS			ACHIEVEMENTS			WEIGHT
	d1	d	D	L2	L1	L	DIN 931		Ma	Mt	Fass	Ps	
ORDER CODE	mm	mm	mm	mm	mm	mm	Ad	10.9 Type	Nm	Nm	kN	N/mm²	kg
CTL 600-120x200	85	120	200	40	50	56,4	10	M10	59	8.512	200	134	7
	90									10.397	231	146	
	95									12.537	264	158	
CTL 600-125x215	85	125	215	42	54	60,4	12	M10	59	9.938	234	149	8,7
	90									12.039	268	161	
	95									14.330	302	172	
CTL 600-140x230	95	140	230	46	60,5	68	10	M12	100	14.144	298	155	11
	100									16.582	332	164	
	105									19.285	367	173	
CTL 600-155x265	105	155	265	50	64,5	72	12	M12	100	19.386	369	160	16
	110									22.340	406	168	
	115									25.580	445	176	
CTL 600-165x290	115	165	290	56	71	81	8	M16	250	33.045	575	203	22
	120									37.222	620	210	
	125									40.581	649	211	
CTL 600-175x300	125	175	300	56	71	81	8	M16	250	36.349	582	189	23
	130									40.772	627	196	
	135									45.314	671	202	
CTL 600-185x330	135	185	330	71	86	96	10	M16	250	51.195	758	180	35
	140									56.587	808	185	
	145									62.669	864	191	
CTL 600-195x350	140	195	350	71	86	96	12	M16	250	64.539	922	211	40
	150									77.600	1.035	221	
	155									84.359	1.089	225	
CTL 600-200x350	150	200	350	71	86	96	12	M16	250	74.440	993	212	39
	155									81.360	1.050	217	
	160									88.291	1.104	221	
CTL 600-220x370	160	220	370	88	104	114	15	M16	250	94.081	1.176	190	51
	165									102.160	1.238	194	
	170									110.681	1.302	198	
CTL 600-240x405	170	240	405	92	109	121,5	12	M20	490	125.063	1.471	214	64
	180									144.140	1.602	220	
	190									163.520	1.721	224	
CTL 600-260x440	190	260	440	103	120	132,5	14	M20	490	169.177	1.781	207	84
	200									192.888	1.929	213	
	210									218.649	2.082	219	
CTL 600-280x460	210	280	460	114	134	146,5	16	M20	490	223.215	2.126	202	99
	220									251.043	2.282	207	
	230									281.011	2.444	212	
CTL 600-300x485	230	300	485	122	142	154,5	18	M20	490	286.546	2.492	202	115
	240									319.728	2.664	207	
	250									353.631	2.829	211	
CTL 600-320x520	240	320	520	122	142	154,5	20	M20	490	325.906	2.716	211	133
	250									360.335	2.883	215	
	260									393.363	3.026	217	

- d** Inner Diameter
- D** Outer Diameter
- d1** Shaft Diameter
- L** Total Length
- L1** Length Excluding Bolts
- L2** Surface Contact Length
- Mt** Max. Transferable Torque (Fass=0 kN)
- Fass** Max. Transferable axial load (Mt=0 Nm)
- Ps** Shaft Contact Pressure
- Ph** Core Diameter Contact Pressure
- Ma** Screw Tightening Torque

SHRINK DISC CTL 600B

- Self centering,
- Ideal for medium-high torque requiring.
- H8-h8,Ra≤3,2

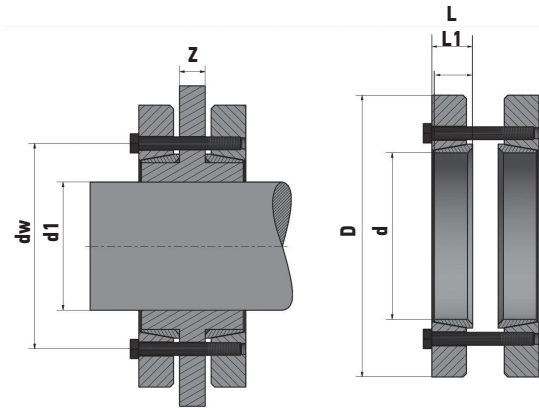


600B	DIMENSIONS						JOINING ELEMENTS			ACHIEVEMENTS			WEIGHT
	d1	d	D	Dw	L1	L	DIN 931		Ma	Mt	Fass	Ps	
ORDER CODE	mm	mm	mm	mm	mm	mm	Ad	10.9 Type	Nm	Nm	kN	N/mm ²	kg
CTL 600B-14x37	10	14	37	24	6	7,5	3	M4	3	14	3	73	0,07
	11									26	5	110	
	12									46	8	162	
CTL 600B-16x41	12	16	41	27	7,5	9	3	M5	6	34	6	89	0,11
	13									59	9	132	
	14									88	13	171	
CTL 600B-24x50	19	24	50	36	9	11,5	6	M5	6	258	27	232	0,19
	20									310	31	252	
	21									368	35	271	
CTL 600B-30x60	24	30	60	44	10	12,7	6	M5	6	316	26	156	0,3
	25									371	30	169	
	26									430	33	181	
CTL 600B-36x72	28	36	72	52	11	13,7	5	M6	12	515	37	166	0,48
	30									655	44	184	
	31									662	43	174	
CTL 600B-44x80	34	44	80	61	12	14,7	7	M6	12	798	47	157	0,61
	35									899	51	167	
	36									1.003	56	176	
CTL 600B-50x90	38	50	90	70	13	16	8	M6	12	985	52	141	0,83
	40									1.207	60	156	
	42									1.442	69	169	
CTL 600B-55x100	42	55	100	75	14	17,7	8	M6	12	1.088	52	122	1,1
	45									1.423	63	139	
	48									1.817	76	156	
CTL 600B-62x110	48	62	110	86	14	17,7	10	M6	12	1.782	74	153	1,3
	50									2.047	82	162	
	52									2.160	83	158	
CTL 600B-68x115	50	68	115	86	14	17,7	10	M6	12	1.630	65	129	1,4
	55									2.034	74	133	
	60									2.857	95	157	
CTL 600B-75x138	55	75	138	100	16,5	20,2	7	M8	30	2.593	94	156	2,3
	60									3.521	117	178	
	65									4.597	141	198	
CTL 600B-80x145	60	80	145	100	16,5	20,2	7	M8	30	2.987	100	151	2,5
	65									3.947	121	170	
	70									5.035	144	187	
CTL 600B-90x155	65	90	155	114	20	24,5	10	M8	30	4.541	140	163	3,3
	70									5.784	165	179	
	75									7.159	191	193	
CTL 600B-100x170	70	100	170	124	22	27	12	M8	30	5.603	160	153	4,4
	75									6.978	186	166	
	80									8.561	214	179	
CTL 600B-110x185	75	110	185	136	24,5	30	9	M10	59	6.847	183	142	6
	80									8.449	211	154	
	85									9.228	217	149	
CTL 600B-115x200	80	115	200	150	25	30	10	M10	59	8.778	219	156	7,3
	85									9.528	224	150	
	90									11.608	258	163	

- d** Inner Diameter
- D** Outer Diameter
- d1** Shaft Diameter
- L** Total Length
- L1** Length Excluding Bolts
- Dw** Bolt Axis
- Mt** Max. Transferable Torque (Fass=0 kN)
- Fass** Max. Transferable axial load (Mt=0 Nm)
- Ps** Shaft Contact Pressure
- Ph** Core Diameter Contact Pressure
- Ma** Screw Tightening Torque

SHRINK DISC CTL 600B

- Self centering,
- Ideal for medium-high torque requiring.
- H8-h8, Ra≤3,2

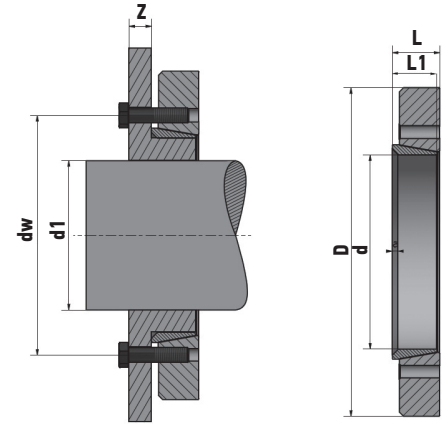


600B	DIMENSIONS						JOINING ELEMENTS			ACHIEVEMENTS			WEIGHT
	d1	d	D	Dw	L1	L	DIN 931		Ma	Mt	Fass	Ps	
ORDER CODE	mm	mm	mm	mm	mm	mm	Ad	10.9 Type	Nm	Nm	kN	N/mm ²	kg
CTL 600B-120x200	85	120	200	150	25	30	10	M10	59	8.512	200	134	7
	90									10.397	231	146	
	95									12.537	264	158	
CTL 600B-125x215	85	125	215	160	26	32	12	M10	59	9.938	234	149	8,7
	90									12.039	268	161	
	95									14.330	302	172	
CTL 600B-140x230	95	140	230	175	28	35,2	10	M12	100	14.144	298	155	11
	100									16.582	332	164	
	105									19.285	367	173	
CTL 600B-155x265	105	155	265	192	30	37,2	12	M12	100	19.386	369	160	16
	110									22.340	406	168	
	115									25.580	445	176	
CTL 600B-165x290	115	165	290	210	33	40,5	8	M16	250	33.045	575	203	22
	120									37.222	620	210	
	125									40.581	649	211	
CTL 600B-175x300	125	175	300	220	33	40,5	8	M16	250	36.349	582	189	23
	130									40.772	627	196	
	135									45.314	671	202	
CTL 600B-185x330	135	185	330	236	40,5	48	10	M16	250	51.195	758	180	35
	140									56.587	808	185	
	145									62.669	864	191	
CTL 600B-195x350	140	195	350	246	40,5	48	12	M16	250	64.539	922	211	40
	150									77.600	1.035	221	
	155									84.359	1.089	225	
CTL 600B-200x350	150	200	350	246	40,5	48	12	M16	250	74.440	993	212	39
	155									81.360	1.050	217	
	160									88.291	1.104	221	
CTL 600B-220x370	160	220	370	270	52	60	15	M16	250	94.081	1.176	190	51
	165									102.160	1.238	194	
	170									110.681	1.302	198	
CTL 600B-240x405	170	240	405	295	54	62,5	12	M20	490	125.063	1.471	214	64
	180									144.140	1.602	220	
	190									163.520	1.721	224	
CTL 600B-260x440	190	260	440	321	59,5	68	14	M20	490	169.177	1.781	207	84
	200									192.888	1.929	213	
	210									218.649	2.082	219	
CTL 600B-280x460	210	280	460	346	67	77	16	M20	490	223.215	2.126	202	99
	220									251.043	2.282	207	
	230									281.011	2.444	212	
CTL 600B-300x485	230	300	485	364	71	81	18	M20	490	286.546	2.492	202	115
	240									319.728	2.664	207	
	250									353.631	2.829	211	
CTL 600B-320x520	240	320	520	386	71	81	20	M20	490	325.906	2.716	211	133
	250									360.335	2.883	215	
	260									393.363	3.026	217	

- d** Inner Diameter
- D** Outer Diameter
- d1** Shaft Diameter
- L** Total Length
- L1** Length Excluding Bolts
- Dw** Bolt Axis
- Mt** Max. Transferable Torque (Fass=0 kN)
- Fass** Max. Transferable axial load (Mt=0 Nm)
- Ps** Shaft Contact Pressure
- Ph** Core Diameter Contact Pressure
- Ma** Screw Tightening Torque

SHRINK DISC CTL 600Y

- Self centering,
- Ideal for medium-high torque requiring.
- H8-h8, Ra≤3,2

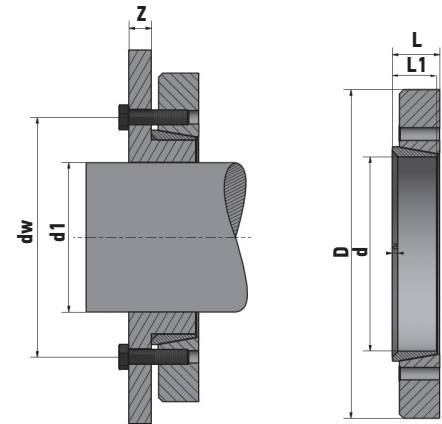


600Y	DIMENSIONS						JOINING ELEMENTS			ACHIEVEMENTS			WEIGHT
	d1	d	D	Dw	L1	L	DIN 931		Ma	Mt	Fass	Ps	
ORDER CODE	mm	mm	mm	mm	mm	mm	Ad	10.9 Type	Nm	Nm	kN	N/mm ²	kg
CTL 600Y-14x37	10	14	37	24	6	7,5	3	M4	2,4	7	2	73	0,03
	11									13	3	110	
	12									23	4	162	
CTL 600Y-16x41	12	16	41	27	7,5	9	3	M5	4,8	17	3	89	0,05
	13									30	5	132	
	14									44	7	171	
CTL 600Y-24x50	19	24	50	36	9	11,5	6	M5	6	129	14	232	0,1
	20									155	16	252	
	21									184	18	271	
CTL 600Y-30x60	24	30	60	44	10	12,7	6	M5	6	158	13	156	0,15
	25									186	15	169	
	26									215	17	181	
CTL 600Y-36x72	28	36	72	52	11	13,7	5	M6	12	258	19	166	0,24
	30									328	22	184	
	31									331	22	174	
CTL 600Y-44x80	34	44	80	61	12	14,7	7	M6	12	399	24	157	0,3
	35									450	26	167	
	36									501	28	176	
CTL 600Y-50x90	38	50	90	70	13	16	8	M6	12	493	26	141	0,42
	40									604	30	156	
	42									721	35	169	
CTL 600Y-55x100	42	55	100	75	14	17,7	8	M6	12	544	26	122	0,55
	45									712	32	139	
	48									909	38	156	
CTL 600Y-62x110	48	62	110	86	14	17,7	10	M6	12	891	37	153	0,65
	50									1024	41	162	
	52									1080	42	158	
CTL 600Y-68x115	50	68	115	86	14	17,7	10	M6	12	815	33	129	0,7
	55									1017	37	133	
	60									1429	48	157	
CTL 600Y-75x138	55	75	138	100	16,5	20,2	7	M8	30	1297	47	156	1,1
	60									1761	59	178	
	65									2299	71	198	
CTL 600Y-80x145	60	80	145	100	16,5	20,2	7	M8	30	1494	50	151	1,25
	65									1974	61	170	
	70									2518	72	187	
CTL 600Y-90x155	65	90	155	114	20	24,5	10	M8	30	2271	70	163	1,55
	70									2892	83	179	
	75									3580	96	193	
CTL 600Y-100x170	70	100	170	124	22	27	12	M8	30	2802	80	153	2,1
	75									3489	93	166	
	80									4281	107	179	
CTL 600Y-110x185	75	110	185	136	24,5	30	9	M10	59	3424	92	142	3
	80									4225	106	154	
	85									4614	109	149	
CTL 600Y-115x200	80	115	200	150	25	30	10	M10	59	4389	110	156	3,6
	85									4764	112	150	
	90									5804	129	163	

- d** Inner Diameter
- D** Outer Diameter
- d1** Shaft Diameter
- L** Total Length
- L1** Length Excluding Bolts
- Dw** Bolt Axis
- Mt** Max. Transferable Torque (Fass=0 kN)
- Fass** Max. Transferable axial load (Mt=0 Nm)
- Ps** Shaft Contact Pressure
- Ph** Core Diameter Contact Pressure
- Ma** Screw Tightening Torque

SHRINK DISC CTL 600Y

- Self centering,
- Ideal for medium-high torque requiring.
- H8-h8, Ra≤3,2

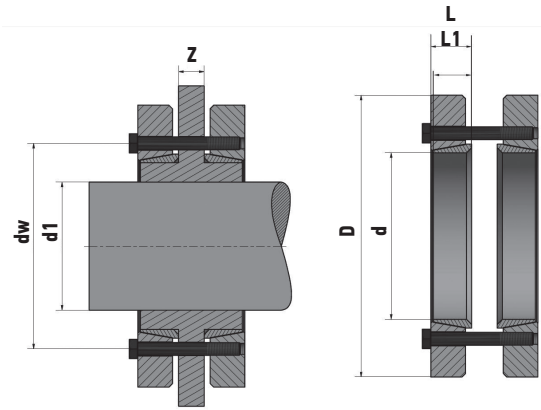


600Y ORDER CODE	DIMENSIONS						JOINING ELEMENTS			ACHIEVEMENTS			WEIGHT kg
	d1 mm	d mm	D mm	Dw mm	L1 mm	L mm	DIN 931		Ma Nm	Mt Nm	Fass kN	Ps N/mm²	
CTL 600Y-120x200	85	120	200	150	25	30	10	M10	59	4256	100	134	3,6
	90									5199	116	146	
	95									6269	132	158	
CTL 600Y-125x215	85	125	215	160	26	32	12	M10	59	4969	117	149	4,3
	90									6020	134	161	
	95									7165	151	172	
CTL 600Y-140x230	95	140	230	175	28	35,2	10	M12	100	7072	148	155	5,5
	100									8291	166	164	
	105									9643	184	173	
CTL 600Y-155x265	105	155	265	192	30	37,2	12	M12	100	9693	185	160	8
	110									11170	203	168	
	115									12790	223	176	
CTL 600Y-165x290	115	165	290	210	33	40,5	8	M16	250	16523	288	203	11
	120									18611	310	210	
	125									20291	325	211	
CTL 600Y-175x300	125	175	300	220	33	40,5	8	M16	250	18175	291	189	11,5
	130									20386	314	196	
	135									22657	336	202	
CTL 600Y-185x330	135	185	330	236	40,5	48	10	M16	250	25598	379	180	17,5
	140									28294	404	185	
	145									31335	432	191	
CTL 600Y-195x350	140	195	350	246	40,5	48	12	M16	250	32270	461	211	20
	150									38800	518	221	
	155									42180	545	225	
CTL 600Y-200x350	150	200	350	246	40,5	48	12	M16	250	37200	497	212	20
	155									40680	525	217	
	160									44146	552	221	
CTL 600Y-220x370	160	220	370	270	52	60	15	M16	250	47041	588	190	25,5
	165									51080	619	194	
	170									55341	651	198	
CTL 600Y-240x405	170	240	405	295	54	62,5	12	M20	490	62532	736	214	32
	180									72070	801	220	
	190									81760	861	224	
CTL 600Y-260x440	190	260	440	321	59,5	68	14	M20	490	84584	891	207	42
	200									96444	965	213	
	210									109275	1041	219	
CTL 600Y-280x460	210	280	460	346	67	77	16	M20	490	111608	1063	202	50
	220									125517	1141	207	
	230									140506	1222	212	
CTL 600Y-300x485	230	300	485	364	71	81	18	M20	490	143273	1246	202	57
	240									159864	1332	207	
	250									178816	1415	211	
CTL 600Y-320x520	240	320	520	386	71	81	20	M20	490	162953	1358	211	67
	250									180168	1442	215	
	260									196682	1513	217	

- d** Inner Diameter
- D** Outer Diameter
- d1** Shaft Diameter
- L** Total Length
- L1** Length Excluding Bolts
- Dw** Bolt Axis
- Mt** Max. Transferable Torque (Fass=0 kN)
- Fass** Max. Transferable axial load (Mt=0 Nm)
- Ps** Shaft Contact Pressure
- Ph** Core Diameter Contact Pressure
- Ma** Screw Tightening Torque

SHRINK DISC CTL 601B

- Self centering,
- Ideal for medium-high torque requiring.
- H8-h8,Ra≤3,2

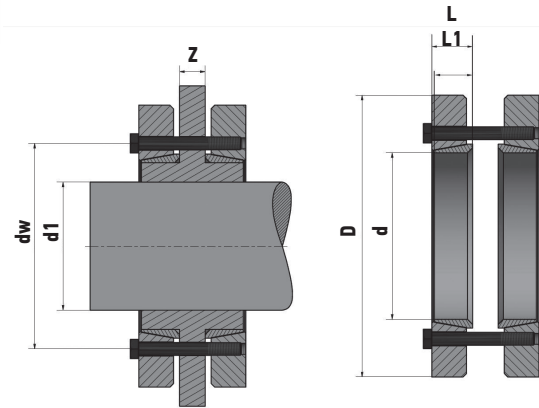


601B	DIMENSIONS						JOINING ELEMENTS			ACHIEVEMENTS			WEIGHT
	d1	d	D	Dw	L1	L	DIN 931		Ma	Mt	Fass	Ps	
ORDER CODE	mm	mm	mm	mm	mm	mm	Ad	10.9 Type	Nm	Nm	kN	N/mm ²	kg
CTL 601B-40x80	30	40	80	62	14,5	18	4	M8	30	900	60	182	0,83
	32									968	61	172	
CTL 601B-44x85	34	44	85	66	16	19	5	M8	30	1.224	72	172	1
	36									1.515	84	190	
CTL 601B-50x95	40	50	95	73	17	21,5	7	M8	30	2.268	113	215	1,4
	42									2.664	127	229	
CTL 601B-55x105	45	55	105	78	17,5	22	7	M8	30	2.631	117	197	1,7
	48									3.178	132	209	
CTL 601B-62x115	50	62	115	85	17,5	22	7	M8	30	3.000	120	168	2
	55									3.551	129	178	
CTL 601B-68x120	55	68	120	92	17,5	22	8	M8	30	3.610	131	181	2,1
	60									4.038	135	170	
CTL 601B-75x145	60	75	145	105	22	27	7	M10	59	5.500	183	179	3,3
	65									6.452	199	193	
CTL 601B-80x145	65	80	145	105	22	27	7	M10	59	6.250	192	174	3,6
	70									7.212	206	186	
CTL 601B-90x160	70	90	160	116	25	30	8	M10	59	7.210	206	152	4,8
	75									8.012	214	162	
CTL 601B-100x170	65	100	170	126	27	32	10	M10	59	5.843	180	143	5,4
	70									7.487	214	158	
	75									9.302	248	171	
CTL 601B-110x185	75	110	185	138	30	35	12	M10	59	9.335	249	151	7,1
	80									11.394	285	162	
	85									12.546	295	158	
CTL 601B-120x210	80	120	210	155	32,5	37,5	10	M12	100	11.200	280	133	10
	85									13.500	318	146	
	90									15.863	353	162	
CTL 601B-125x215	85	125	215	160	32,5	37,5	10	M12	100	11.529	271	132	11
	90									14.950	332	144	
	95									16.911	356	155	
CTL 601B-140x230	95	140	230	175	35	45	12	M12	100	17.530	369	137	13
	100									20.150	403	146	
	105									22.537	429	155	

- d** Inner Diameter
- D** Outer Diameter
- d1** Shaft Diameter
- L** Total Length
- L1** Length Excluding Bolts
- Dw** Bolt Axis
- Mt** Max. Transferable Torque (Fass=0 kN)
- Fass** Max. Transferable axial load (Mt=0 Nm)
- Ps** Shaft Contact Pressure
- Ph** Core Diameter Contact Pressure
- Ma** Screw Tightening Torque

SHRINK DISC CTL 601B

- Self centering,
- Ideal for medium-high torque requiring.
- H8-h8, Ra≤3,2

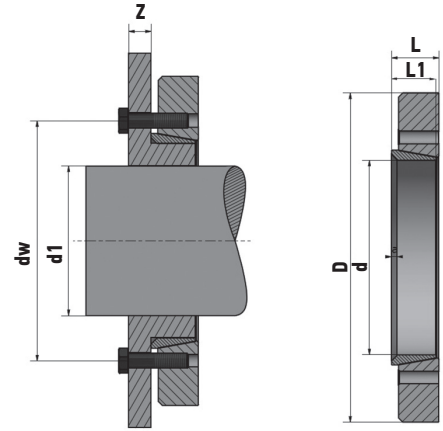


601B	DIMENSIONS						JOINING ELEMENTS			ACHIEVEMENTS			WEIGHT
	d1	d	D	Dw	L1	L	DIN 931		Ma	Mt	Fass	Ps	
ORDER CODE	mm	mm	mm	mm	mm	mm	Ad	10.9 Type	Nm	Nm	kN	N/mm ²	kg
CTL 601B-155x265	105	155	265	198	38	45	15	M12	100	24.500	467	149	20
	110									28.030	510	156	
	115									31.950	556	164	
CTL 601B-165x290	115	165	290	210	41	49	10	M16	250	41.022	713	196	27
	120									46.261	771	203	
	125									50.444	807	204	
CTL 601B-175x300	125	175	300	220	41	49	10	M16	250	45.251	724	183	28
	130									50.549	778	189	
	135									56.242	833	195	
CTL 601B-185x330	135	185	330	236	51	61	14	M16	250	72.602	1.076	197	46
	140									80.458	1.149	203	
	145									88.433	1.220	208	
CTL 601B-200x350	145	200	350	246	51	61	15	M16	250	84.182	1.161	198	51
	150									92.500	1.233	202	
	155									100.566	1.298	207	
CTL 601B-220x370	160	220	370	270	65	75	20	M16	250	126.368	1.580	197	66
	165									137.119	1.662	201	
	170									148.451	1.746	205	
CTL 601B-240x405	170	240	405	295	68	80	15	M20	490	154.740	1.820	203	85
	180									176.044	1.956	206	
	190									202.813	2.135	213	
CTL 601B-260x430	190	260	430	321	76	88	18	M20	490	216.905	2.283	201	104
	200									247.512	2.475	207	
	210									280.792	2.674	213	
CTL 601B-280x460	210	280	460	346	84	96	21	M20	490	294.091	2.801	205	128
	220									330.639	3.006	210	
	230									369.985	3.217	215	
CTL 601B-300x485	230	300	485	364	86	98	22	M20	490	349.939	3.043	198	143
	240									388.727	3.239	202	
	250									425.972	3.408	204	
CTL 601B-320x520	240	320	520	386	90	112	24	M20	490	386.904	3.224	191	170
	250									424.214	3.394	193	
	260									468.339	3.603	197	

- d** Inner Diameter
- D** Outer Diameter
- d1** Shaft Diameter
- L** Total Length
- L1** Length Excluding Bolts
- Dw** Bolt Axis
- Mt** Max. Transferable Torque (Fass=0 kN)
- Fass** Max. Transferable axial load (Mt=0 Nm)
- Ps** Shaft Contact Pressure
- Ph** Core Diameter Contact Pressure
- Ma** Screw Tightening Torque

SHRINK DISC CTL 601Y

- Self centering,
- Ideal for medium-high torque requiring.
- H8-h8,Ra≤3,2

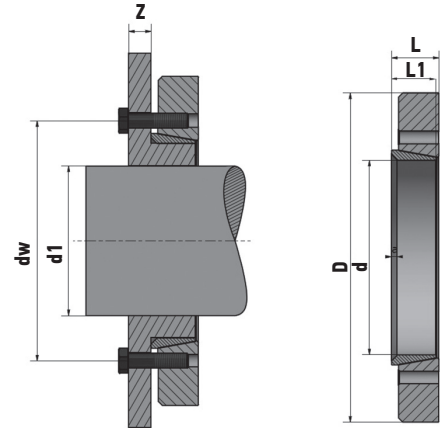


601Y ORDER CODE	DIMENSIONS						JOINING ELEMENTS			ACHIEVEMENTS			WEIGHT kg
	d1 mm	d mm	D mm	Dw mm	L1 mm	L mm	DIN 931		Ma Nm	Mt Nm	Fass kN	Ps N/mm ²	
CTL 601Y-40x80	30	40	80	62	14,5	18	4	M8	30	450	30	182	0,4
	32									484	31	172	
CTL 601Y-44x85	34	44	85	66	16	19	5	M8	30	612	36	172	0,5
	36									758	42	190	
CTL 601Y-50x95	40	50	95	73	17	21,5	7	M8	30	1134	57	215	0,7
	42									1332	64	229	
CTL 601Y-55x105	45	55	105	78	17,5	22	7	M8	30	1316	59	197	0,8
	48									1589	66	209	
CTL 601Y-62x115	50	62	115	85	17,5	22	7	M8	30	1500	60	168	1
	55									1776	65	178	
CTL 601Y-68x120	55	68	120	92	17,5	22	8	M8	30	1805	66	181	1
	60									2019	68	170	
CTL 601Y-75x145	60	75	145	105	22	27	7	M10	59	2750	92	179	1,6
	65									3226	100	193	
CTL 601Y-80x145	65	80	145	105	22	27	7	M10	59	3125	96	174	1,8
	70									3606	103	186	
CTL 601Y-90x160	70	90	160	116	25	30	8	M10	59	3605	103	152	2,4
	75									4006	107	162	
CTL 601Y-100x170	65	100	170	126	27	32	10	M10	59	2922	90	143	2,7
	70									3744	107	158	
	75									4651	124	171	
CTL 601Y-110x185	75	110	185	138	30	35	12	M10	59	4668	125	151	3,5
	80									5697	143	162	
	85									6273	148	158	
CTL601B-120x210	80	120	210	155	32,5	37,5	10	M12	100	5600	140	133	5
	85									6750	159	146	
	90									7932	177	162	
CTL 601Y-125x215	85	125	215	160	32,5	37,5	10	M12	100	5765	136	132	5,5
	90									7475	166	144	
	95									8456	178	155	
CTL 601Y-140x230	95	140	230	175	35	45	12	M12	100	8765	185	137	6,5
	100									10075	202	146	
	105									11269	215	155	

- d** Inner Diameter
- D** Outer Diameter
- d1** Shaft Diameter
- L** Total Length
- L1** Length Excluding Bolts
- Dw** Bolt Axis
- Mt** Max. Transferable Torque (Fass=0 kN)
- Fass** Max. Transferable axial load (Mt=0 Nm)
- Ps** Shaft Contact Pressure
- Ph** Core Diameter Contact Pressure
- Ma** Screw Tightening Torque

SHRINK DISC CTL 601Y

- Self centering,
- Ideal for medium-high torque requiring.
- H8-h8, Ra≤3,2

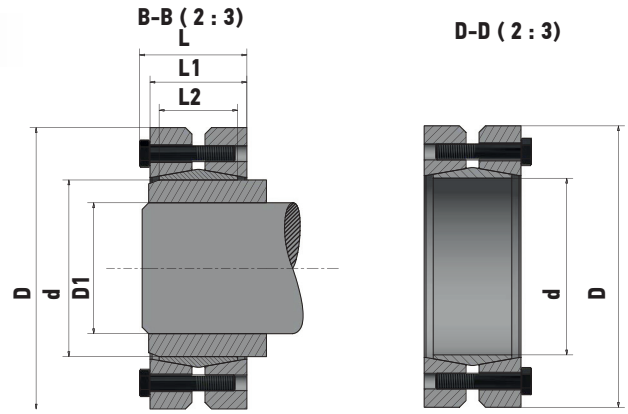


601Y ORDER CODE	DIMENSIONS						JOINING ELEMENTS			ACHIEVEMENTS			WEIGHT kg
	d1 mm	d mm	D mm	Dw mm	L1 mm	L mm	DIN 931		Ma Nm	Mt Nm	Fass kN	Ps N/mm²	
CTL 601Y-155x265	105	155	265	198	38	45	15	M12	100	12250	233	149	10
	110									14015	255	156	
	115									15975	278	164	
CTL 601Y-165x290	115	165	290	210	41	49	10	M16	250	20511	357	196	13,5
	120									23131	386	203	
	125									25222	404	204	
CTL 601Y-175x300	125	175	300	220	41	49	10	M16	250	22626	362	183	14
	130									25275	389	189	
	135									28121	417	195	
CTL 601Y-185x330	135	185	330	236	51	61	14	M16	250	36301	538	197	23
	140									40229	575	203	
	145									44217	610	208	
CTL 601Y-200x350	145	200	350	246	51	61	15	M16	250	42091	581	198	25,5
	150									46250	617	202	
	155									50283	649	207	
CTL 601Y-220x370	160	220	370	270	65	75	20	M16	250	63184	790	197	33
	165									68560	831	201	
	170									74226	873	205	
CTL 601Y-240x405	170	240	405	295	68	80	15	M20	490	77370	910	203	42,5
	180									88022	978	206	
	190									101407	1068	213	
CTL 601Y-260x430	190	260	430	321	76	88	18	M20	490	108453	1142	201	52
	200									123756	1238	207	
	210									140396	1377	213	
CTL 601Y-280x460	210	280	460	346	84	96	21	M20	490	147046	1401	205	64
	220									165320	1503	210	
	230									184993	1609	215	
CTL 601Y-300x485	230	300	485	364	86	98	22	M20	490	174970	1522	198	70
	240									194364	1620	202	
	250									212986	1704	204	
CTL 601Y-320x520	240	320	520	386	90	112	24	M20	490	193452	1612	191	85
	250									212107	1697	193	
	260									234170	1802	197	

- d** Inner Diameter
- D** Outer Diameter
- d1** Shaft Diameter
- L** Total Length
- L1** Length Excluding Bolts
- Dw** Bolt Axis
- Mt** Max. Transferable Torque (Fass=0 kN)
- Fass** Max. Transferable axial load (Mt=0 Nm)
- Ps** Shaft Contact Pressure
- Ph** Core Diameter Contact Pressure
- Ma** Screw Tightening Torque

SHRINK DISC CTL 602

- Self centering,
- Ideal for medium-high torque requiring.
- H8-h8,Ra≤3,2

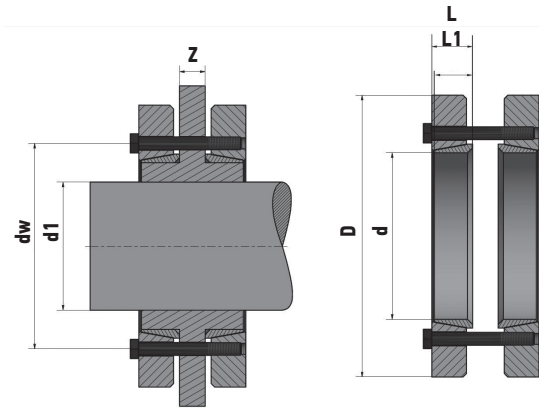


602	DIMENSIONS						JOINING ELEMENTS			ACHIEVEMENTS			WEIGHT
	d1	d	D	L2	L1	L	DIN 931		Ma	Mt	Fass	Ps	
ORDER CODE	mm	mm	mm	mm	mm	mm	Ad	10.9 Type	Nm	Nm	kN	N/mm ²	kg
CTL 602-125x185	95	125	185	39	51	57,4	8	M10	59	8.433	178	109	5,1
	100									10.201	204	119	
	105									12.192	232	129	
CTL 602-140x220	110	140	220	39	51	57,4	9	M10	59	12.447	226	120	7,8
	120									16.788	280	136	
	125									18.752	300	140	
CTL 602-155x245	130	155	245	39	51	57,4	11	M10	59	21.586	332	149	9,8
	135									24.215	359	155	
	140									27.218	389	162	
CTL 602-165x260	135	165	260	46	62	69,5	10	M12	100	28.746	426	156	13
	140									32.302	461	163	
	145									35.713	493	168	
CTL 602-175x275	145	175	275	46	62	69,5	11	M12	100	35.926	496	169	14
	150									39.584	528	174	
	155									43.481	561	179	
CTL 602-185x295	155	185	295	46	62	69,5	12	M12	100	43.238	558	178	17
	160									47.367	592	183	
	165									51.475	624	187	
CTL 602-195x315	165	195	315	56	72	79,5	15	M12	100	58.979	715	176	21
	170									64.030	753	180	
	175									69.360	793	184	
CTL 602-200x330	170	200	330	56	72	79,5	16	M12	100	64.742	762	182	26
	180									74.178	824	186	
	190									86.203	907	194	
CTL 602-220x345	180	220	345	66	84	94	10	M16	250	85.544	950	182	31
	190									98.455	1.036	188	
	200									110.832	1.108	191	
CTL 602-240x370	200	240	370	66	84	94	12	M16	250	119.536	1.195	206	35
	210									135.627	1.292	212	
	220									150.256	1.366	214	
CTL 602-260x395	220	260	395	72	92	102	14	M16	250	154.724	1.407	202	44
	230									172.458	1.500	206	
	240									192.338	1.603	211	
CTL 602-280x425	230	280	425	84	104	114	16	M16	250	179.713	1.563	184	58
	240									198.871	1.657	187	
	250									220.404	1.763	191	
CTL 602-300x460	250	300	460	84	104	114	18	M16	250	225.020	1.800	195	69
	260									248.374	1.911	199	
	270									271.885	2.014	202	
CTL 602-320x485	270	320	495	84	106	116	20	M16	250	277.269	2.054	206	85
	280									302.531	2.161	209	
	290									329.184	2.270	212	

- d** Inner Diameter
- D** Outer Diameter
- d1** Shaft Diameter
- L** Total Length
- L1** Length Excluding Bolts
- L2** Surface Contact Length
- Mt** Max. Transferable Torque (Fass=0 kN)
- Fass** Max. Transferable axial load (Mt=0 Nm)
- Ps** Shaft Contact Pressure
- Ph** Core Diameter Contact Pressure
- Ma** Screw Tightening Torque

SHRINK DISC CTL 602B

- Self centering,
- Ideal for medium-high torque requiring.
- H8-h8, Ra≤3,2

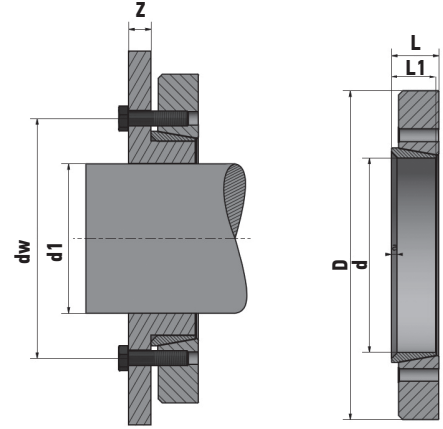


602B	DIMENSIONS						JOINING ELEMENTS			ACHIEVEMENTS			WEIGHT
	d1	d	D	Dw	L1	L	DIN 931		Ma	Mt	Fass	Ps	
ORDER CODE	mm	mm	mm	mm	mm	mm	Ad	10.9 Type	Nm	Nm	kN	N/mm ²	kg
CTL 602B-125x185	95	125	185	158	24,5	30,5	8	M10	59	8.433	178	109	5,1
	100									10.201	204	119	
	105									12.192	232	129	
CTL 602B-140x220	110	140	220	175	24,5	30,5	9	M10	59	12.447	226	120	7,8
	120									16.788	280	136	
	125									18.752	300	140	
CTL 602B-155x245	130	155	245	192	24,5	30,5	11	M10	59	21.586	332	149	9,8
	135									24.215	359	155	
	140									27.218	389	162	
CTL 602B-165x260	135	165	260	210	28	36	10	M12	100	28.746	426	156	13
	140									32.302	461	163	
	145									35.713	493	168	
CTL 602B-175x275	145	175	275	220	28	36	11	M12	100	35.926	496	169	14
	150									39.584	528	174	
	155									43.481	561	179	
CTL 602B-185x295	155	185	295	225	28	36	12	M12	100	43.238	558	178	17
	160									47.367	592	183	
	165									51.475	624	187	
CTL 602B-195x315	165	195	315	237	33	41	15	M12	100	58.979	715	176	21
	170									64.030	753	180	
	175									69.360	793	184	
CTL 602B-200x330	170	200	330	242	33	41	16	M12	100	64.742	762	182	26
	180									74.178	824	186	
	190									86.203	907	194	
CTL 602B-220x345	180	220	345	265	41	50	10	M16	250	85.544	950	182	31
	190									98.455	1.036	188	
	200									110.832	1.108	191	
CTL 602B-240x370	200	240	370	290	41	50	12	M16	250	119.536	1.195	206	35
	210									135.627	1.292	212	
	220									150.256	1.366	214	
CTL 602B-260x395	220	260	395	310	44	54	14	M16	250	154.724	1.407	202	44
	230									172.458	1.500	206	
	240									192.338	1.603	211	
CTL 602B-280x425	230	280	425	333	52	62	16	M16	250	179.713	1.563	184	58
	240									198.871	1.657	187	
	250									220.404	1.763	191	
CTL 602B-300x460	250	300	460	358	52	62	18	M16	250	225.020	1.800	195	69
	260									248.374	1.911	199	
	270									271.885	2.014	202	
CTL 602B-320x485	270	320	495	378	52	62	20	M16	250	277.269	2.054	206	85
	280									302.531	2.161	209	
	290									329.184	2.270	212	

- d** Inner Diameter
- D** Outer Diameter
- d1** Shaft Diameter
- L** Total Length
- L1** Length Excluding Bolts
- Dw** Bolt Axis
- Mt** Max. Transferable Torque (Fass=0 kN)
- Fass** Max. Transferable axial load (Mt=0 Nm)
- Ps** Shaft Contact Pressure
- Ph** Core Diameter Contact Pressure
- Ma** Screw Tightening Torque

SHRINK DISC CTL 602Y

- Self centering,
- Ideal for medium-high torque requiring.
- H8-h8,Ra≤3,2

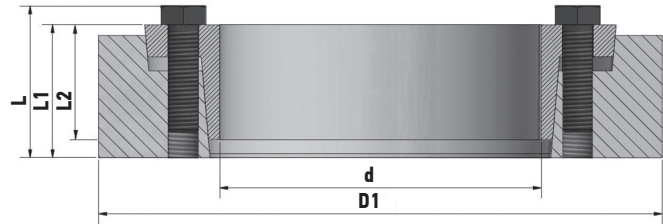


602Y	DIMENSIONS						JOINING ELEMENTS			ACHIEVEMENTS			WEIGHT
	d1	d	D	Dw	L1	L	DIN 931		Ma	Mt	Fass	Ps	
ORDER CODE	mm	mm	mm	mm	mm	mm	Ad	10.9 Type	Nm	Nm	kN	N/mm ²	kg
CTL 602Y-125x185	95	125	185	158	24,5	30,5	8	M10	59	4217	89	109	2,5
	100									5101	102	119	
	105									6096	116	129	
CTL 602Y-140x220	110	140	220	175	24,5	30,5	9	M10	59	6224	113	120	3,9
	120									8394	140	136	
	125									9376	150	140	
CTL 602Y-155x245	130	155	245	192	24,5	30,5	11	M10	59	10793	166	149	4,9
	135									12108	180	155	
	140									13609	195	162	
CTL 602Y-165x260	135	165	260	210	28	36	10	M12	100	14373	213	156	6,5
	140									16151	231	163	
	145									17857	247	168	
CTL 602Y-175x275	145	175	275	220	28	36	11	M12	100	17963	248	169	7
	150									19792	264	174	
	155									21741	281	179	
CTL 602Y-185x295	155	185	295	225	28	36	12	M12	100	21619	279	178	8,5
	160									23684	296	183	
	165									25738	312	187	
CTL 602Y-195x315	165	195	315	237	33	41	15	M12	100	29490	358	176	10,5
	170									32015	377	180	
	175									34680	397	184	
CTL 602Y-200x330	170	200	330	242	33	41	16	M12	100	32371	381	182	13
	180									37019	412	186	
	190									43102	454	194	
CTL 602Y-220x345	180	220	345	265	41	50	10	M16	250	42772	475	182	15,5
	190									49228	518	188	
	200									55416	554	191	
CTL 602Y-240x370	200	240	370	290	41	50	12	M16	250	59916	598	206	17,5
	210									67854	646	212	
	220									75128	683	214	
CTL 602Y-260x395	220	260	395	310	44	54	14	M16	250	77362	704	202	22
	230									86229	750	206	
	240									96169	802	211	
CTL 602Y-280x425	230	280	425	333	52	62	16	M16	250	89357	782	184	29
	240									99436	829	187	
	250									110202	882	191	
CTL 602Y-300x460	250	300	460	358	52	62	18	M16	250	112510	900	195	34
	260									124187	956	199	
	270									135953	1007	202	
CTL 602Y-320x485	270	320	495	378	52	62	20	M16	250	138635	1027	206	43
	280									151266	1081	209	
	290									164592	1135	212	

- d** Inner Diameter
- D** Outer Diameter
- d1** Shaft Diameter
- L** Total Length
- L1** Length Excluding Bolts
- Dw** Bolt Axis
- Mt** Max. Transferable Torque (Fass=0 kN)
- Fass** Max. Transferable axial load (Mt=0 Nm)
- Ps** Shaft Contact Pressure
- Ph** Core Diameter Contact Pressure
- Ma** Screw Tightening Torque

SHRINK DISC CTL 650

- Self centering,
- Ideal for high torque requiring.
- H8-h8,Ra≤3,2

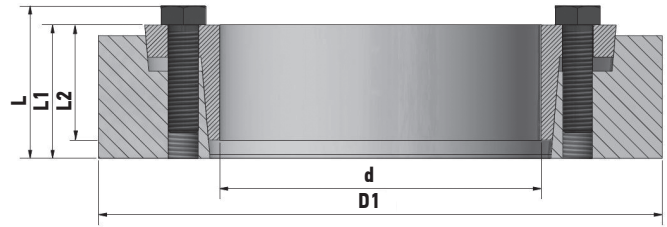


650 ORDER CODE	DIMENSIONS						JOINING ELEMENTS			ACHIEVEMENTS		WEIGHT kg
	d1 mm	d mm	D mm	L2 mm	L1 mm	L mm	DIN 931 Ad	Ma 10.9 Type Nm	Mt Nm	Fass kN		
CTL 650 -140x215	110	140	215	9	12	14,8	9	M12	100	16000	298	6,4
	120									20000	341	
	130									25000	385	
CTL 650 -155x245	130	155	245	12	15	18,5	15	M12	100	26000	398	8,7
	135									28000	420	
	140									31000	443	
CTL 650 -160x245	130	160	245	14	19	22,5	15	M12	100	26000	398	8,7
	135									28000	420	
	140									31000	443	
CTL 650 -165x263	135	165	263	16	21,5	24	12	M14	160	29000	432	11,4
	140									32000	456	
	145									35000	480	
CTL 650 -170x263	135	170	263	18	23,5	27,5	12	M14	160	29000	432	11,4
	140									32000	456	
	145									35000	480	
CTL 650 -175x275	145	175	275	20	25,5	29,5	12	M14	160	36000	497	12,2
	150									39000	522	
	155									42000	547	
CTL 650 -180x275	145	180	275	22	28	32	12	M14	160	36000	497	12,2
	150									39000	522	
	155									42000	547	
CTL 650 -185x290	155	185	290	23	30,5	34,5	16	M14	160	50000	645	16
	160									53000	675	
	165									58000	704	
CTL 650 -190x290	155	190	290	23	30,5	34,5	16	M14	160	50000	645	16
	160									53000	675	
	165									58000	704	
CTL 650 -195x320	165	195	320	23	30,5	34,5	15	M14	160	68000	822	20,6
	170									73000	855	
	180									83000	922	
CTL 650 -200x320	165	200	320	25	32,5	37,8	15	M14	160	68000	822	20,6
	170									73000	855	
	180									83000	922	
CTL 650 -220x340	180	220	340	25	32,5	37,8	16	M16	240	80000	892	23,6
	190									91000	962	
	200									103000	1032	
CTL 650 -240x370	200	240	370	30	39	44,3	16	M16	240	103000	1026	27,6
	210									115000	1095	
	220									128000	1165	
CTL 650 -260x405	220	260	405	34	44	49,3	18	M16	240	132000	1197	33,5
	230									146000	1271	
	240									161000	1344	
CTL 650 -280x430	230	280	430	39	50	56,4	15	M20	470	160000	1392	44,1
	240									177000	1473	
	250									194000	1555	
CTL 650 -300x460	250	300	460	40	50	56,4	16	M20	470	191000	1529	50,2
	260									209000	1610	
	270									228000	1691	
CTL 650 -320x485	270	320	485	40	50	56,4	20	M20	470	243000	1804	64,5
	280									265000	1894	
	290									288000	1986	
CTL 650 -340x520	280	340	520	42	54	60,4	20	M20	470	274000	1958	75
	290									297000	2050	
	300									322000	2143	

- d** Inner Diameter
- D** Outer Diameter
- d1** Shaft Diameter
- L** Total Length
- L1** Length Excluding Bolts
- L2** Surface Contact Length
- Mt** Max. Transferable Torque (Fass=0 kN)
- Fass** Max. Transferable axial load (Mt=0 Nm)
- Ps** Shaft Contact Pressure
- Ph** Core Diameter Contact Pressure
- Ma** Screw Tightening Torque

SHRINK DISC CTL 651

- Self centering,
- Ideal for medium-high and extreme torque requiring.
- H8-h8, Ra≤3,2

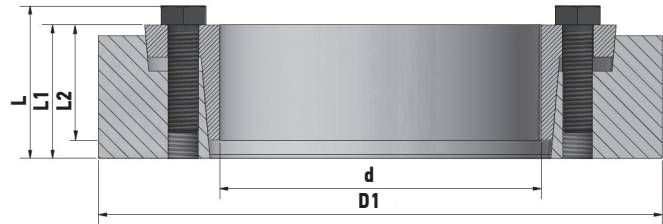


651 ORDER CODE	DIMENSIONS						JOINING ELEMENTS			ACHIEVEMENTS		WEIGHT kg
	d1 mm	d mm	D mm	L2 mm	L1 mm	L mm	DIN 931 Ad	Ma 10.9 Type Nm	Mt Nm	Fass kN		
CTL 651-12x35	9	12	35	9,2	11	15	3	M6	12	20	5	0,1
	10									40	8	
CTL 651-14x38	11	14	38	9,2	11	15	3	M6	12	30	6	0,1
	12									50	9	
CTL 651-16x41	13	16	41	12,7	15	19	3	M6	12	70	10	0,1
	14									90	13	
CTL 651-18x44	15	18	44	12,7	15	19	4	M6	12	80	11	0,1
	16									110	14	
CTL 651-20x47	17	20	47	12,7	15	19	4	M6	12	150	18	0,2
	18									180	20	
CTL 651-24x47	24	24	47	15,2	18	22	5	M6	12	160	17	0,2
	25									200	20	
	26									280	25	
CTL 651-30x60	28	30	60	17,2	20	24	6	M6	12	270	23	0,4
	30									320	25	
	33									360	28	
CTL 651-36x72	28	36	72	19,5	22,7	26,7	5	M8	29	490	35	0,5
	30									610	41	
	33									820	50	
CTL 651-38x72	28	38	72	19,5	22,7	26,7	5	M8	29	490	35	0,5
	30									610	41	
	33									820	50	
CTL 651-40x80	34	40	80	21,5	24,7	30	6	M8	29	690	41	1
	35									770	44	
	36									840	47	
CTL 651-44x80	34	44	80	21,5	24,7	30	6	M8	29	690	41	1
	35									770	44	
	36									840	47	
CTL 651-50x90	38	50	90	23	26,7	32	8	M8	29	1100	58	1
	40									1290	65	
	42									1500	71	
CTL 651-55x100	42	55	100	25,5	29,7	35	8	M8	29	1230	59	1
	45									1530	68	
	48									1860	78	
CTL 651-60x110	48	60	110	25,1	29,7	35	9	M8	29	1670	70	1
	50									1890	76	
	52									2120	81	
CTL 651-62x110	48	62	110	25,1	29,7	35	9	M8	29	1670	70	1
	50									1890	76	
	52									2120	81	
CTL 651-68x115	50	68	115	24	28,6	33,9	9	M8	29	1870	75	1
	55									2450	89	
	60									3120	104	
CTL 651-75x118	55	75	118	26	31,6	38	10	M10	58	2330	85	3
	60									3020	101	
	65									3800	117	

- d** Inner Diameter
- D** Outer Diameter
- d1** Shaft Diameter
- L** Total Length
- L1** Length Excluding Bolts
- L2** Surface Contact Length
- Mt** Max. Transferable Torque (Fass=0 kN)
- Fass** Max. Transferable axial load (Mt=0 Nm)
- Ps** Shaft Contact Pressure
- Ph** Core Diameter Contact Pressure
- Ma** Screw Tightening Torque

SHRINK DISC CTL 651

- Self centering,
- Ideal for medium-high and extreme torque requiring.
- H8-h8, Ra≤3,2

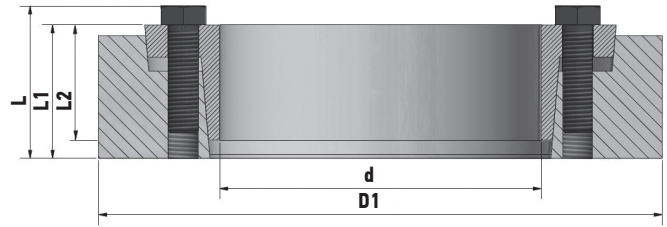


651 ORDER CODE	DIMENSIONS						JOINING ELEMENTS			ACHIEVEMENTS		WEIGHT kg
	d1	d	D	L2	L1	L	DIN 931		Ma	Mt	Fass	
	mm	mm	mm	mm	mm	mm	Ad	10.9 Type	Nm	Nm	kN	
CTL 651-80x141	60	80	141	26	31,6	38	10	M10	58	3190	106	3
	65									4000	123	
	70									4900	140	
CTL 651-85x155	65	85	155	33	38,6	45	10	M10	58	5400	166	4
	70									6500	187	
	75									7800	208	
CTL 651-90x155	65	90	155	33	38,6	45	10	M10	58	5400	166	4
	70									6500	187	
	75									7800	208	
CTL 651-95x170	70	95	170	37,6	43,6	50	12	M10	58	6000	171	4,7
	75									7200	192	
	80									8500	213	
CTL 651-100x170	70	100	170	37,6	43,6	50	12	M10	58	6000	171	4,7
	75									7200	192	
	80									8500	213	
CTL 651-105x185	80	105	185	42	49,5	57	12	M12	100	10000	249	6,3
	85									11700	275	
	90									13600	302	
CTL 651-110x185	80	110	185	42	49,5	57	12	M12	100	10000	249	6,3
	85									11700	275	
	90									13600	302	
CTL 651-115x197	85	115	197	45	53,5	61	12	M12	100	11900	280	7,4
	90									13800	307	
	95									15900	334	
CTL 651-120x197	85	120	197	45	53,5	61	12	M12	100	11900	280	7,4
	90									13800	307	
	95									15900	334	
CTL 651-125x215	90	125	215	44,5	53,5	61	12	M12	100	14400	319	9,3
	95									16500	347	
	100									18700	375	
CTL 651-130x230	95	130	230	47,5	58,2	67	10	M14	160	18100	382	11,5
	100									20600	412	
	110									26000	473	
CTL 651-135x230	95	135	230	47,5	58,2	67	10	M14	160	18100	382	11,5
	100									20600	412	
	110									26000	473	
CTL 651-140x230	100	140	230	47,2	58,2	67	12	M14	160	19600	392	11,1
	105									22100	421	
	115									27600	481	
CTL 651-150x263	110	150	263	51,2	62,2	71	12	M14	160	26500	482	15,9
	115									29500	514	
	125									36100	578	
CTL 651-155x263	110	155	263	51,2	62,2	71	12	M14	160	26500	482	15,9
	115									29500	514	
	125									36100	578	

- d** Inner Diameter
- D** Outer Diameter
- d1** Shaft Diameter
- L** Total Length
- L1** Length Excluding Bolts
- L2** Surface Contact Length
- Mt** Max. Transferable Torque (Fass=0 kN)
- Fass** Max. Transferable axial load (Mt=0 Nm)
- Ps** Shaft Contact Pressure
- Ph** Core Diameter Contact Pressure
- Ma** Screw Tightening Torque

SHRINK DISC CTL 651

- Self centering,
- Ideal for medium-high and extreme torque requiring.
- H8-h8, Ra≤3,2

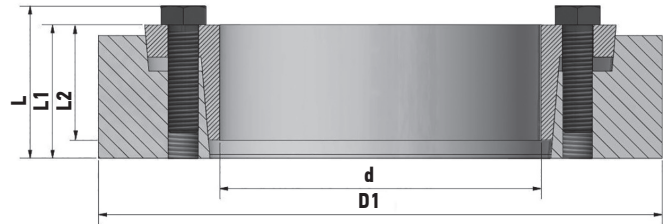


651 ORDER CODE	DIMENSIONS						JOINING ELEMENTS			ACHIEVEMENTS		WEIGHT kg
	d1 mm	d mm	D mm	L2 mm	L1 mm	L mm	DIN 931 Ad	Ma 10.9 Type Nm	Mt Nm	Fass kN		
CTL 651-160x290	120	160	290	55,5	68	78	12	M16	240	37300	622	22,2
	125									41200	659	
	135									49600	734	
CTL 651-165x290	120	165	290	55,5	68	78	12	M16	240	37300	622	22,2
	125									41200	659	
	135									49600	734	
CTL 651-170x300	130	170	300	55	68	78	12	M16	240	45000	692	23,3
	135									49000	730	
	145									58000	805	
CTL 651-175x300	130	175	300	55	68	78	12	M16	240	45000	692	23,3
	135									49000	730	
	145									58000	805	
CTL 651-180x320	140	180	320	72	85	95	16	M16	240	64000	916	33,3
	145									70000	961	
	155									82000	1053	
CTL 651-185x320	140	185	320	72	85	95	16	M16	240	64000	916	33,3
	145									70000	961	
	155									82000	1053	
CTL 651-190x340	150	190	340	71	85	95	16	M16	240	80000	1073	36,9
	155									87000	1120	
	165									100000	1216	
CTL 651-195x340	150	195	340	71	85	95	16	M16	240	80000	1073	36,9
	155									87000	1120	
	165									100000	1216	
CTL 651-200x340	150	200	340	71	85	95	16	M16	240	80000	1073	36,9
	155									87000	1120	
	165									100000	1216	
CTL 651-220x370	160	220	370	88	103,5	116	15	M20	470	103000	1283	51,5
	170									119000	1395	
	170									122000	1439	
CTL 651-240x405	180	240	405	91	107,5	120	16	M20	470	136000	1509	63,9
	180									140000	1555	
	200									179000	1790	
CTL 651-260x430	190	260	430	102	119,5	132	15	M20	470	163000	1715	77,5
	200									184000	1842	
	220									231000	2099	
CTL 651-280x460	210	280	460	113	132,5	145	16	M20	470	215000	2051	94,7
	210									240000	2186	
	240									295000	2458	
CTL 651-300x485	220	300	485	120	140	155	18	M24	820	270000	2456	112
	230									300000	2605	
	250									363000	2906	
CTL 651-320x520	240	320	520	120	140	155	18	M24	820	301000	2511	133
	250									332000	2655	
	270									398000	2945	

- d Inner Diameter
- D Outer Diameter
- d1 Shaft Diameter
- L Total Length
- L1 Length Excluding Bolts
- L2 Surface Contact Length
- Mt Max. Transferable Torque (Fass=0 kN)
- Fass Max. Transferable axial load (Mt=0 Nm)
- Ps Shaft Contact Pressure
- Ph Core Diameter Contact Pressure
- Ma Screw Tightening Torque

SHRINK DISC CTL 652

- Self centering,
- Ideal for extreme torque requiring.
- H8-h8, Ra≤3,2



652	DIMENSIONS						JOINING ELEMENTS			ACHIEVEMENTS		WEIGHT
	d1	d	D	L2	L1	L	DIN 931		Ma	Mt	Fass	
ORDER CODE	mm	mm	mm	mm	mm	mm	Ad	10.9 Type	Nm	Nm	kN	kg
CTL 652-135X230	100	135	230	62,5	74	84	8	M16	240	26000	523	13,6
	105									30000	562	
	115									37000	641	
CTL 652-140X230	100	140	230	62,5	74	84	8	M16	240	26000	523	13,6
	105									30000	562	
	115									37000	641	
CTL 652-150X263	110	150	263	68,5	80	90	9	M16	240	36000	646	19,8
	115									40000	687	
	125									48000	772	
CTL 652-155X263	110	155	263	68,5	80	90	9	M16	240	36000	646	19,8
	115									40000	687	
	125									48000	772	
CTL 652-160X290	120	160	290	76,5	88	98	12	M16	240	50000	828	27,7
	125									55000	877	
	135									66000	977	
CTL 652-165X290	120	165	290	76,5	88	98	12	M16	240	50000	828	27,7
	125									55000	877	
	135									66000	977	
CTL 652-170X300	130	170	300	75,5	88	98	12	M16	240	61000	943	29
	135									67000	993	
	145									79000	1094	
CTL 652-175X300	130	175	300	75,5	88	98	12	M16	240	61000	943	29
	135									67000	993	
	145									79000	1094	
CTL 652-180X320	140	180	320	100,5	114,5	127	12	M20	470	89000	1269	40
	145									96000	1330	
	155									113000	1455	
CTL 652-185X320	140	185	320	100,5	114,5	127	12	M20	470	89000	1269	40
	145									96000	1330	
	155									113000	1455	
CTL 652-195X340	150	195	340	100,5	114,5	127	12	M20	470	104000	1269	44,5
	155									113000	1330	
	165									113000	1455	
CTL 652-200X340	150	200	340	100,5	114,5	127	12	M20	470	104000	1391	44,5
	155									113000	1453	
	165									113000	1577	
CTL 652-220X370	160	220	370	116,5	131,5	144	15	M20	470	127000	1591	65,3
	165									137000	1661	
	180									169000	1879	
CTL 652-240X405	170	240	405	121,5	137,5	150	16	M20	470	157000	1847	81,6
	180									180000	1996	
	200									230000	2300	
CTL 652-260X430	190	260	430	136	154,5	167	18	M20	470	230000	2424	101
	200									260000	2600	
	220									325000	2957	
CTL 652-280X460	210	280	460	147,5	166	180	16	M24	820	306000	2918	126
	220									342000	3105	
	240									418000	3485	
CTL 652-300X485	230	300	485	151,5	172	187	16	M24	820	360000	3132	140
	240									398000	3314	
	250									437000	3498	
CTL 652-320X520	240	320	520	159,5	180	199	18	M24	820	430000	3580	171
	250									473000	3781	
	270									565000	4186	

- d** Inner Diameter
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- Fass** Max. Transferable axial load (Mt=0 Nm)
- Ps** Shaft Contact Pressure
- Ph** Core Diameter Contact Pressure
- Ma** Screw Tightening Torque

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LINEAR GUIDE RAILS

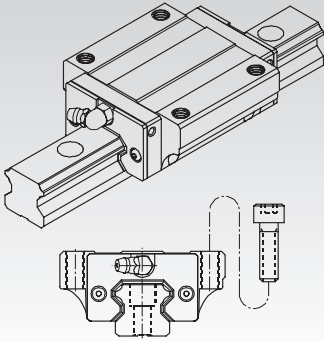
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AUTO TYPE

Msa Series Heavy Load Types

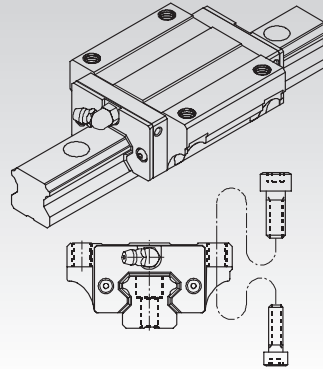
Heavy Load Types

MSA-A Type



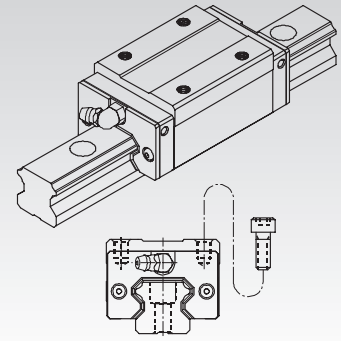
Mounted from the top of the rail.
Tooth length is more than MSA-E type.
Large type.

MSA-E Type



Can be mounted both from the top and from the bottom.
Large type.

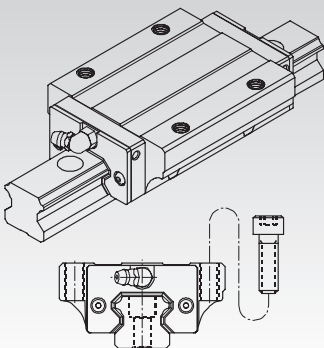
MSA-S Type



Mounted from the top of the rail.
Small type.

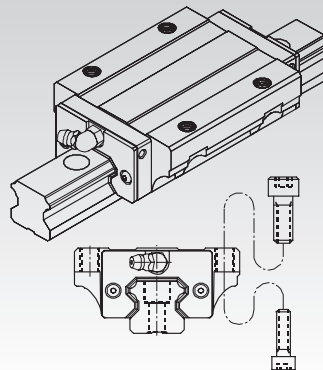
Ultra Heavy Load Types

MSA-LA Type



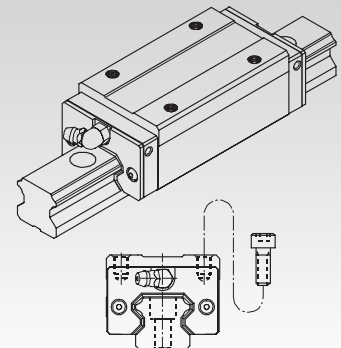
Same dimensions with MSA-A and mounted from the top,
Large long type.

MSA-LE Type



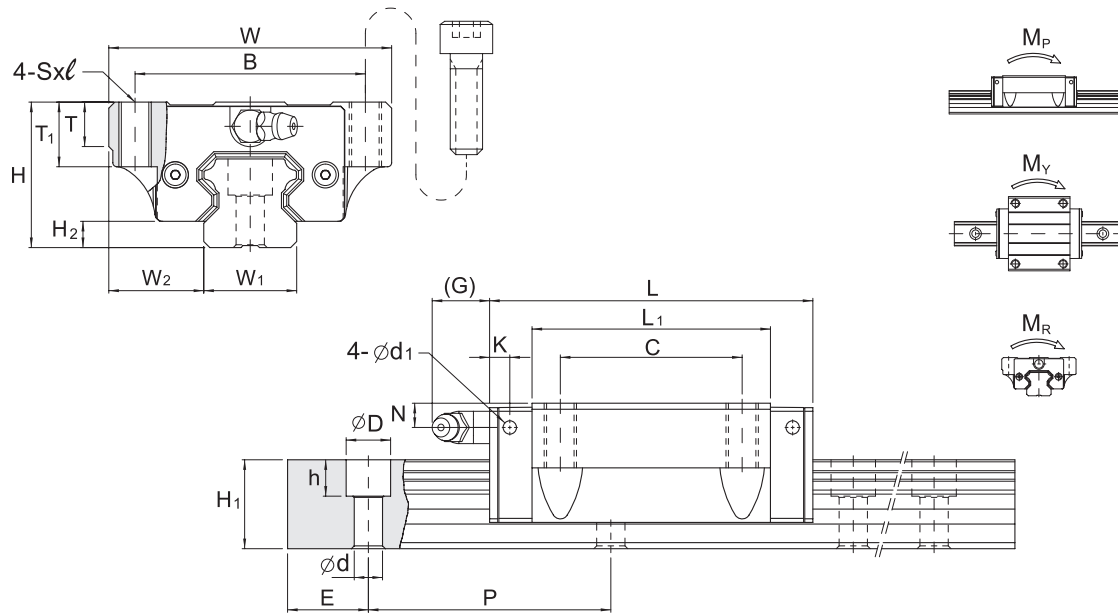
Same dimensions with MSA-E and mounted from the both top and bottom,
Large long type.

MSA-LS Type



Same dimensions with MSA-S and mounted from the top,
Small long type.

MSA-A / MSA-LA SERIES

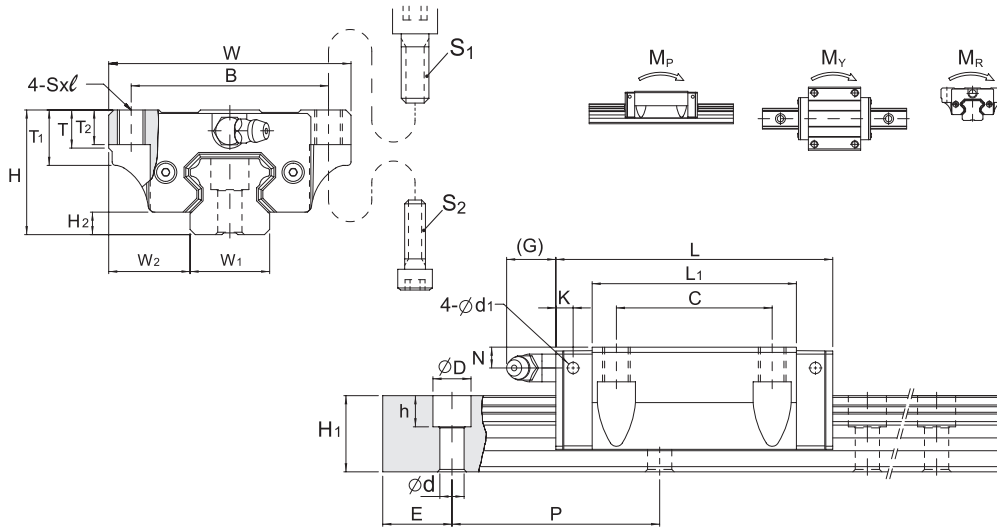


Unit: mm

MODEL NUMBER	Outer Dimensions					Roller Dimensions											Lubricator
	Height H	Width W	Length L	W ₂	H ₂	B	C	S x ℓ	L ₁	T	T ₁	N	G	K	d ₁		
MSA 15 A	24	47	56.3	16	4.2	38	30	M5x11	39.3	7	11	4.3	7	3.2	3.3	G-M4	
MSA 20 A MSA 20 LA	30	63	72.9 88.8	21.5	5	53	40	M6x10	51,3 67.2	7	10	5	12	5.8	3.3	G-M6	
MSA 25 A MSA 25 LA	36	70	81.6 100.6	23.5	6.5	57	45	M8x16	59 78	11	16	6	12	5.8	3.3	G-M6	
MSA 30 A MSA 30 LA	42	90	97 119.2	31	8	72	52	M10x18	71,4 93.6	11	18	7	12	6.5	3.3	G-M6	
MSA 35 A MSA 35 LA	48	100	111.2 136.6	33	9.5	82	62	M10x21	81 106.4	13	21	8	11.5	8.6	3.3	G-M6	
MSA 45 A MSA 45 LA	60	120	137.7 169.5	37.7	10	100	80	M12x25	102.5 134.3	13	25	10	13.5	10.6	3.3	G-PT1/8	

MODEL NUMBER	Rail Dimensions					Base load rate		Static Moment Ratio				Weight		
	Width W ₁	Height H ₁	Pitch P	E std.	D x h x d	Dynamic C kN	Static C ₀ kN	M _P kN-m		M _Y kN-m		M _R kN-m	Roller Kg	Rail kg / m
								Single	Double	Single	Double			
MSA 15 A	15	15	60	20	7.5x5.3x4.5	11.8	18.9	0.12	0.68	0.12	0.68	0.14	0.18	1.5
MSA 20 A MSA 20 LA	20	18	60	20	9.5x8.5x6	19.2 23.3	29.5 39.3	0.23 0.39	1.42 2.23	0.23 0.39	1.42 2.23	0.29 0.38	0.4 0.52	2.4
MSA 25 A MSA 25 LA	23	22	60	20	11x9x7	28.1 34.4	42.4 56.6	0.39 0.67	2.20 3.52	0.39 0.67	2.20 3.52	0.48 0.63	0.62 0.82	3.4
MSA 30 A MSA 30 LA	28	26	80	20	14x12x9	39.2 47.9	57.8 77.0	0.62 1.07	3.67 5.81	0.62 1.07	3.67 5.81	0.79 1.05	1.09 1.43	4.8
MSA 35 A MSA 35 LA	34	29	80	20	14x12x9	52.0 63.6	75.5 100.6	0.93 1.60	5.47 8.67	0.93 1.60	5.47 8.67	1.25 1.67	1.61 2.11	6.6
MSA 45 A MSA 45 LA	45	38	105	22.5	20x17x14	83.8 102.4	117.9 157.3	1.81 3.13	10.67 16.95	1.81 3.13	10.67 16.95	2.57 3.43	2.98 3.9	11.5

MSA-E / MSA-LE SERIES



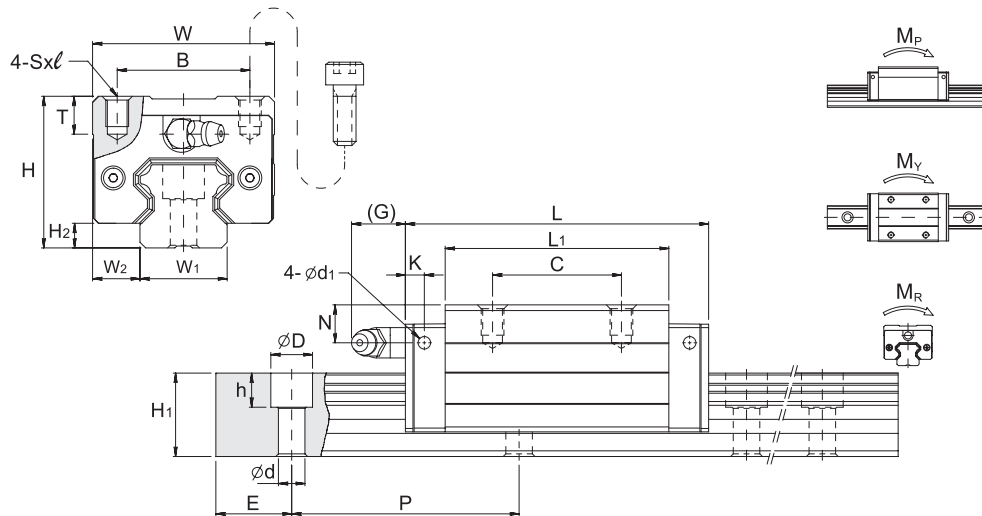
MODEL NUMBER	BOLT SIZE	
	S ₁	S ₂
MSA 15	M5	M4
MSA 20	M6	M5
MSA 25	M8	M6
MSA 30	M10	M8
MSA 35	M10	M8
MSA 45	M12	M10
MSA 55	M14	M12
MSA 65	M16	M14

Unit: mm

MODEL NUMBER	Outer Dimensions					Roller Dimensions											
	Height H	Width W	Length L	W ₂	H ₂	B	C	S x ℓ	L ₁	T	T ₁	T ₂	N	G	K	d ₁	Lubricator
MSA 15 E	24	47	56.3	16	4.2	38	30	M5x11	39.3	7	11	7	4.3	7	3.2	3.3	G-M4
MSA 20 E MSA 20 LE	30	63	72.9 88.8	21.5	5	53	40	M6x10	51.3 67.2	7	10	10	5	12	5.8	3.3	G-M6
MSA 25 E MSA 25 LE	36	70	81.6 100.6	23.5	6.5	57	45	M8x16	59 78	11	16	10	6	12	5.8	3.3	G-M6
MSA 30 E MSA 30 LE	42	90	97 119.2	31	8	72	52	M10x18	71.4 93.6	11	18	10	7	12	6.5	3.3	G-M6
MSA 35 E MSA 35 LE	48	100	111.2 136.6	33	9.5	82	62	M10x21	81 106.4	13	21	13	8	11.5	8.6	3.3	G-M6
MSA 45 E MSA 45 LE	60	120	137.7 169.5	37.7	10	100	80	M12x25	102.5 134.3	13	25	15	10	13.5	10.6	3.3	G-PT1/8
MSA 55 E MSA 55 LE	70	140	161.5 199.5	43.5	13	116	95	M12x17	119.5 157.5	19	32	17	11	13.5	8.6	3.3	G-PT1/8
MSA 65 E MSA 65 LE	90	170	199 253	53.5	13	142	110	M16x23	149 203	21.5	37	23	19	13.5	8.6	3.3	G-PT1/8

MODEL NUMBER	Rail Dimensions					Base load rate		Static Moment Ratio				Weight		
	Width W ₁	Height H ₁	Pitch P	E std.	D x h x d	Dynamic C kN	Static C ₀ kN	M _p kN-m		M _y kN-m		M _r kN-m	Roller Kg	Rail kg / m
								Single	Double	Single	Double			
MSA 15 E	15	15	60	20	7.5x5.3x4.5	11.8	18.9	0.12	0.68	0.12	0.68	0.14	0.18	1.5
MSA 20 E MSA 20 LE	20	18	60	20	9.5x8.5x6	19.2 23.3	29.5 39.3	0.23 0.39	1.42 2.23	0.23 0.39	1.42 2.23	0.29 0.38	0.4 0.52	2.4
MSA 25 E MSA 25 LE	23	22	60	20	11x9x7	28.1 34.4	42.4 56.6	0.39 0.67	2.20 3.52	0.39 0.67	2.20 3.52	0.48 0.63	0.62 0.82	3.4
MSA 30 E MSA 30 LE	28	26	80	20	14x12x9	39.2 47.9	57.8 77.0	0.62 1.07	3.67 5.81	0.62 1.07	3.67 5.81	0.79 1.05	1.09 1.43	4.8
MSA 35 E MSA 35 LE	34	29	80	20	14x12x9	52.0 63.6	75.5 100.6	0.93 1.60	5.47 8.67	0.93 1.60	5.47 8.67	1.25 1.67	1.61 2.11	6.6
MSA 45 E MSA 45 LE	45	38	105	22.5	20x17x14	83.8 102.4	117.9 157.3	1.81 3.13	10.67 16.95	1.81 3.13	10.67 16.95	2.57 3.43	2.98 3.9	11.5
MSA 55 E MSA 55 LE	53	44	120	30	23x20x16	123.6 151.1	169.8 226.4	3.13 5.40	17.57 28.11	17.57 28.11	17.57 28.11	4.50 6.00	4.17 5.49	15.5
MSA 65 E MSA 65 LE	63	53	150	35	26x22x18	198.8 253.5	265.3 375.9	6.11 11.84	33.71 57.32	33.71 57.32	33.71 57.32	8.36 11.84	8.73 11.89	21.9

MSA-S / MSA-LS SERIES



Unit: mm

MODEL NUMBER	Outer Dimensions					Roller Dimensions									
	Height H	Width W	Length L	W ₂	H ₂	B	C	S x l	L ₁	T	N	G	K	d ₁	Lubricator
MSA 15 S	28	34	56.3	9.5	4.2	26	26	M4x5	39.3	7.2	8.3	7	3.2	3.3	G-M4
MSA 20 S MSA 20 LS	30	44	72.9 88.8	12	5	32	36 50	M5x6	51,3 67.2	8	5	12	5.8	3.3	G-M6
MSA 25 S MSA 25 LS	40	48	81.6 100.6	12.5	6.5	35	35 50	M6x8	59 78	10	10	12	5.8	3.3	G-M6
MSA 30 S MSA 30 LS	45	60	97 119.2	16	8	40	40 60	M8x10	71,4 93.6	11.7	10	12	6.5	3.3	G-M6
MSA 35 S MSA 35 LS	55	70	111.2 136.6	18	9.5	50	50 72	M8x12	81 106.4	12.7	15	11.5	8.6	3.3	G-M6
MSA 45 S MSA 45 LS	70	86	137.7 169.5	20.5	10	60	60 80	M10x17	102.5 134.3	16	20	13.5	10.6	3.3	G-PT1/8
MSA 55 S MSA 55 LS	80	100	161.5 199.5	23.5	13	75	75 95	M12x18	119.5 157.5	18	21	13.5	8.6	3.3	G-PT1/8
MSA 65 S MSA 65 LS	90	126	199 253	31.5	15	76	70 120	M16x20	149 203	23	19	13.5	8.6	3.3	G-PT1/8

MODEL NUMBER	Rail Dimensions					Base load rate		Static Moment Ratio				Weight		
	Width W ₁	Height H ₁	Pitch P	E std.	D x h x d	Dynamic C kN	Static C ₀ kN	Mp kN-m		My kN-m		Mr kN-m	Roller Kg	Rail kg / m
								Single	Double	Single	Double			
MSA 15 S	15	15	60	20	7.5x5.3x4.5	11.8	18.9	0.12	0.68	0.12	0.68	0.14	0.18	1.5
MSA 20 S MSA 20 LS	20	18	60	20	9.5x8.5x6	19.2 23.3	29.5 39.3	0.23 0.39	1.42 2.23	0.23 0.39	1.42 2.23	0.29 0.38	0.3 0.39	2.4
MSA 25 S MSA 25 LS	23	22	60	20	11x9x7	28.1 34.4	42.4 56.6	0.39 0.67	2.20 3.52	0.39 0.67	2.20 3.52	0.48 0.63	0.52 0.68	3.4
MSA 30 S MSA 30 LS	28	26	80	20	14x12x9	39.2 47.9	57.8 77.0	0.62 1.07	3.67 5.81	0.62 1.07	3.67 5.81	0.79 1.05	0.86 1.12	4.8
MSA 35 S MSA 35 LS	34	29	80	20	14x12x9	52.0 63.6	75.5 100.6	0.93 1.60	5.47 8.67	0.93 1.60	5.47 8.67	1.25 1.67	1.45 1.9	6.6
MSA 45 S MSA 45 LS	45	38	105	22.5	20x17x14	83.8 102.4	117.9 157.3	1.81 3.13	10.67 16.95	1.81 3.13	10.67 16.95	2.57 3.43	2.83 3.7	11.5
MSA 55 S MSA 55 LS	53	44	120	30	23x20x16	123.6 151.1	169.8 226.4	3.13 5.40	17.57 28.11	17.57 28.11	17.57 28.11	4.50 6.00	4.12 4.91	15.5
MSA 65 S MSA 65 LS	63	53	150	35	26x22x18	198.8 253.5	265.3 375.9	6.11 11.84	33.71 57.32	33.71 57.32	33.71 57.32	8.36 11.84	6.43 8.76	21.9

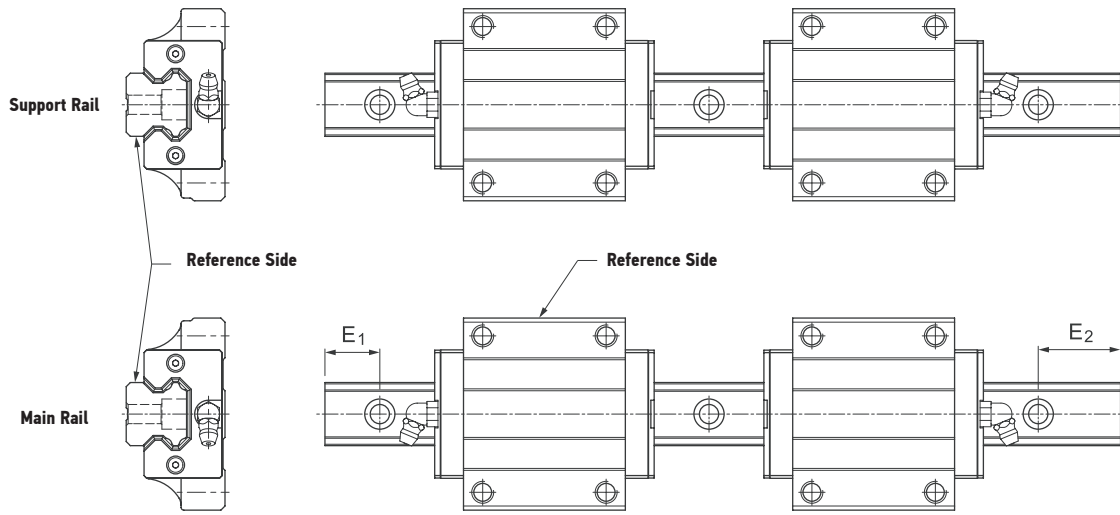


Fig 12.1

EXPLANATION OF CODES

Roller Codes

Series: MSA

Size: 15, 20, 25, 30, 35, 45, 55, 65

Roller Type : (1) Heavy Load
 A: Flange Type, Mounting from top
 E: Flange type, Mounting from top and bottom
 S: Square type

(2) Extreme heavy load
 LA: Flange Type, Mounting from top
 LE: Flange Type, Mounting from top and bottom
 LS: Square type

Roller dust protection option
 None codes, UU,SS, ZZ, DD, KK, LL,RR

Preload: FC (Hafif ön yük)

Degree of Sensitivity: N, H

Particular Rail Codes : None Codes, A, B ...

MSA 25 A SS FC N A

Rail Codes

Series: MSA

Dimension: 15, 20, 25, 30, 35, 45, 55, 65

Rail Type : R (Countersink Type)
 T (Threaded Screw Hole Type)

Rail Dimensions (mm)

Rail hole pitch from beginning
 (Browse E1 Shape 12.1)

Rail Hole Pitch by End
 (Browse E2 Shape 12.1)

Degree of Sensitivity: N, H

Particular Rail Codes. None Codes, A,B ...

Rail dust covering options:
 None Codes, /CC, /MC

MSA 25 R 1200 -20 /40 N A /CC

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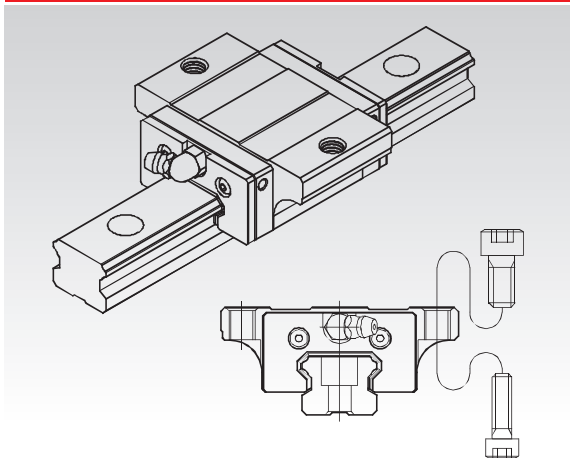
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**LINEAR GUIDE RAILS
İNOKSAN**

MSB SERIES LOW TYPE ROLLERS

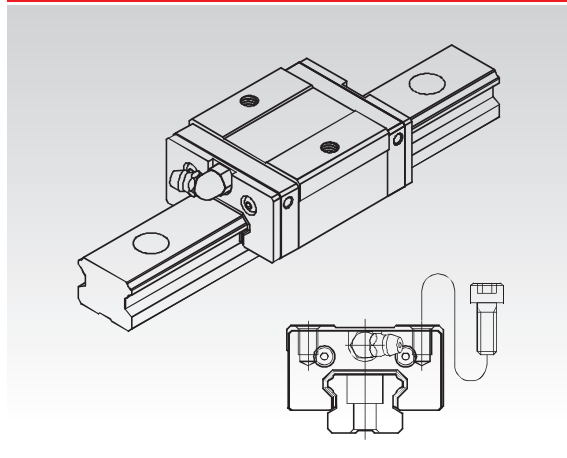
MEDIUM LOAD

MSB-TE Type



Can be Roller mounted both from the top and from the bottom.
Large short type.

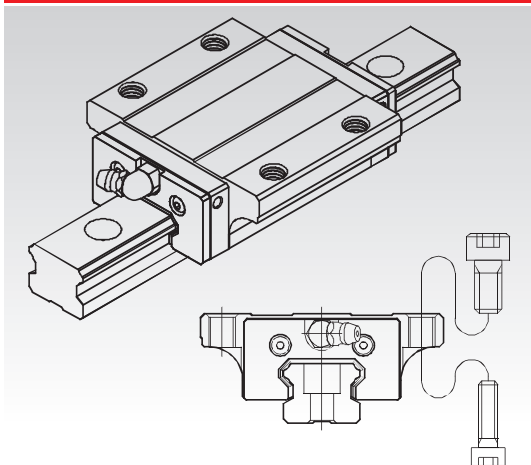
MSB-TS Type



Square type with less thickness
and mounting from top.
Small type

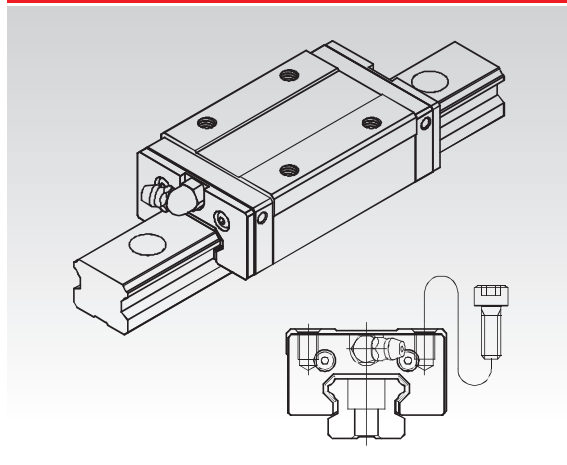
HEAVY LOAD

MSB-E Type



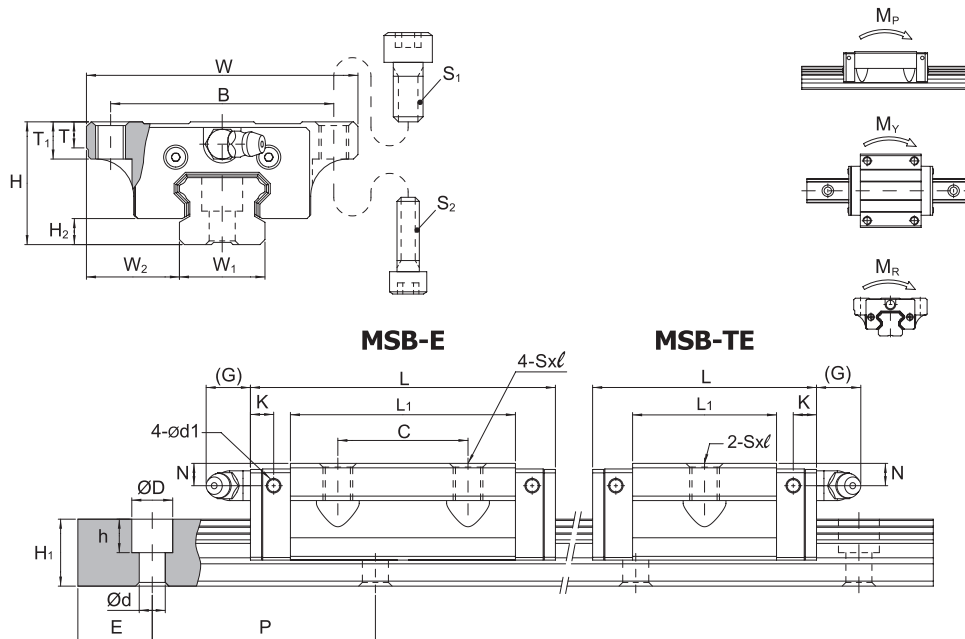
Providing more rigidity. Can be mounted both from the top and from the bottom.
Large short type.

MSB-S Type



Providing more rigidity.
Can be mounted from the top.
small type.

MSB-TE / MSB-E SERIES



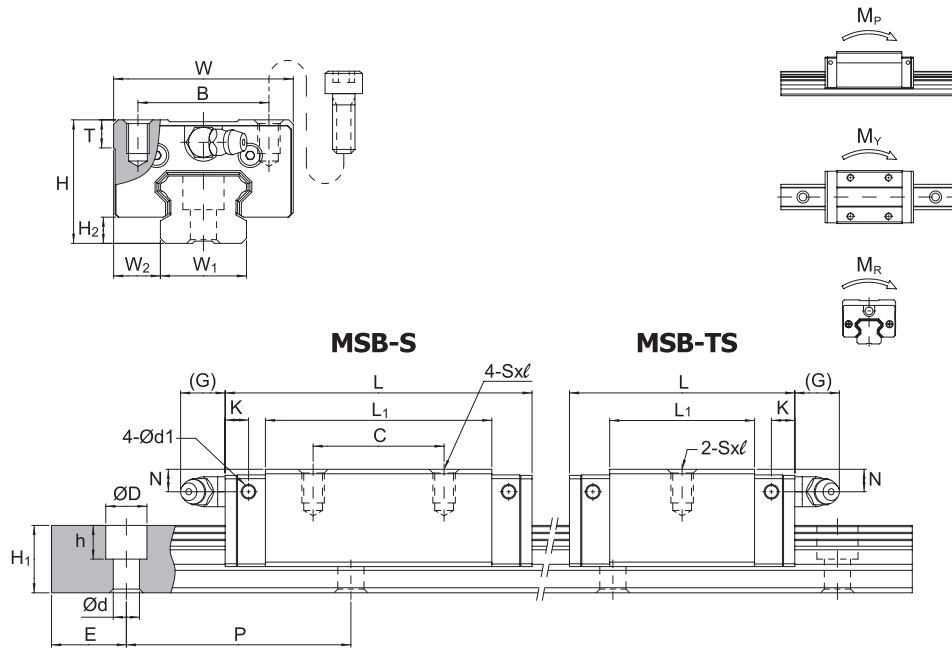
MODEL NUMBER	BOLT SIZE	
	S ₁	S ₂
MSB 15	M5	M4
MSB 20	M6	M5
MSB 25	M8	M6
MSB 30	M10	M8
MSV 35	M10	M8

Unit: mm

MODEL NUMBER	Outer Dimensions					Roller Dimensions										
	Height H	Width W	Length L	W ₂	H ₂	B	C	S x l	L ₁	T	T ₁	N	G	K	d ₁	Lubricator
MSB 15 TE MSB 15 E	24	52	40 57	18.5	4.5	41	- 26	M5x7	23.5 40.5	5	7	5.5	5.5	5.1	3.3	G-M4
MSB 20 TE MSB 20 E	28	59	48 67	19.5	6	49	- 32	M6x9	29 48	5	9	5.5	12	5.9	3.3	G-M6
MSB 25 TE MSB 25 E	33	73	60.2 82	25	7	60	- 35	M8x10	38.7 60.5	7	10	6	12	6.3	3.3	G-M6
MSB 30 S MSB 30 LS	42	90	68 96.7	31	9.5	72	- 40	M10x10	43.3 72	7	10	8	12	6.3	3.3	G-M6
MSB 35 TE MSB 35 E MSB 35 LE	48	100	78 112 137.5	33	9.5	82	- 50 72	M10x13	46 80 105.5	9	13	8.5	12	9.8	3.3	G-M6

MODEL NUMBER	Rail Dimensions					Base load rate		Static Moment Ratio				Weight		
	Width W ₁	Height H ₁	Pitch P	E std.	D x h x d	Dynamic C kN	Static C ₀ kN	M _p kN-m		M _y kN-m		M _r kN-m	Roller Kg	Rail kg / m
								Single	Double	Single	Double			
MSB 15 TE MSB 15 E	15	12.5	60	20	6x4.5x3.5 (7.5x5.3x4.5)	6.7 10.0	9.6 16.9	0.04 0.10	0.26 0.61	0.04 0.10	0.26 0.61	0.07 0.13	0.12 0.21	1.2
MSB 20 TE MSB 20 E	20	15	60	20	9.5x8.5x6	9.7 13.9	14.2 23.6	0.70 0.18	0.44 0.97	0.70 0.18	0.44 0.97	0.14 0.24	0.20 0.34	2
MSB 25 TE MSB 25 E	23	18	60	20	11x9x7	15.6 22.3	22.1 36.9	0.13 0.35	0.91 1.87	0.13 0.35	0.91 1.87	0.91 1.87	0.39 0.60	3
MSB 30 TE MSB 30 E	28	23	80	20	11x9x7	23.1 32.9	31.8 53.1	0.23 0.60	1.39 3.15	0.23 0.60	1.39 3.15	1.39 3.15	0.65 1.08	4.4
MSB 35 TE MSB 35 E MSB 35 LE	34	27.5	80	20	14x12x9	35.7 52.0 63.6	44.0 75.5 100.6	0.34 0.93 1.60	2.81 5.47 8.67	0.34 0.93 1.60	2.81 5.47 8.67	0.75 1.28 1.67	0.91 1.61 1.80	6.2

MSB-TS / MSB-S SERIES

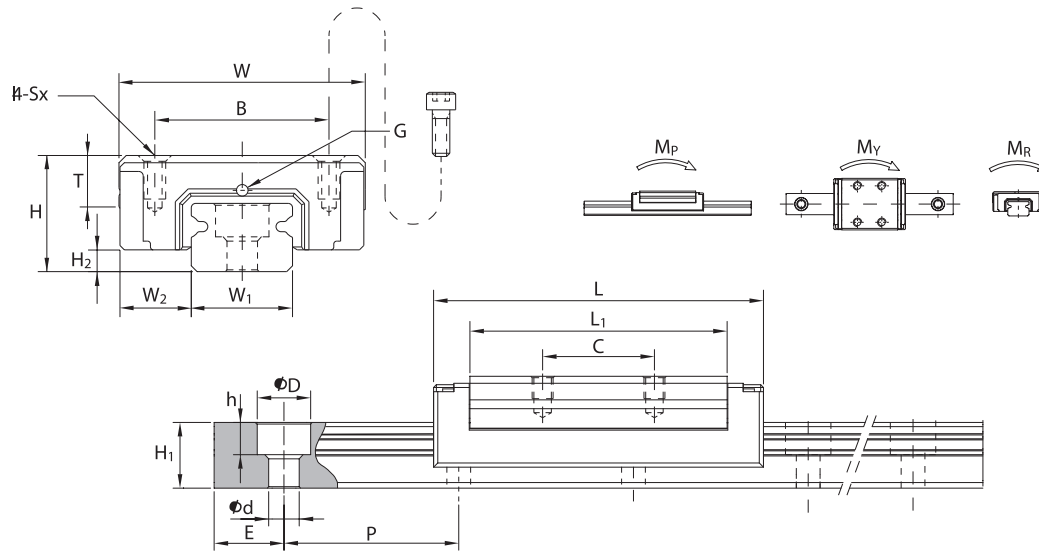


Unit: mm

MODEL NUMBER	Outer Dimensions					Roller Dimensions									
	Height H	Width W	Length L	W ₂	H ₂	B	C	S x ℓ	L ₁	T	N	G	K	d ₁	Lubricator
MSB 15 TS MSB 15 SE	24	34	40 57	9.5	4.5	26	- 26	M4x6	23.5 40.5	6	5.5	5.5	5.1	3.3	G-M4
MSB 20 TS MSB 20 S	28	42	48 67	11	6	32	- 32	M5x7	29 48	6	5.5	12	5.9	3.3	G-M6
MSB 25 TS MSB 25 S	33	48	60.2 82	12.5	7	35	- 35	M6x9	38.7 60.5	8	6	12	6.3	3.3	G-M6
MSB 30 TS MSB 30 S	42	60	68 96.7	16	9.5	40	- 40	M8x12	43.3 72	8	8	12	6.3	3.3	G-M6
MSB 35 TS MSB 35 S MSB 35 LS	48	70	78 112 137.5	18	9.5	50	- 50 72	M8x12	46 80 105.5	12.5	8.5	11.5	9.8	3.3	G-M6

MODEL NUMBER	Rail Dimensions					Base load rate		Static Moment Ratio				Weight		
	Width W ₁	Height H ₁	Pitch P	E std.	D x h x d	Dynamic C kN	Static C ₀ kN	M _p kN-m		M _y kN-m		M _r kN-m	Roller Kg	Rail kg / m
								Single	Double	Single	Double			
MSB 15 TE MSB 15 E	15	12.5	60	20	6x4.5x3.5 (7.5x5.3x4.5)	6.7 10.0	9.6 16.9	0.04 0.10	0.26 0.61	0.04 0.10	0.26 0.61	0.07 0.13	0.09 0.19	1.2
MSB 20 TE MSB 20 E	20	15	60	20	9.5x8.5x6	9.7 13.9	14.2 23.6	0.70 0.18	0.44 0.97	0.70 0.18	0.44 0.97	0.14 0.24	0.16 0.26	2
MSB 25 TE MSB 25 E	23	18	60	20	11x9x7	15.6 22.3	22.1 36.9	0.13 0.35	0.91 1.87	0.13 0.35	0.91 1.87	0.26 0.43	0.29 0.24	3
MSB 30 TE MSB 30 E	28	23	80	20	11x9x7	23.1 32.9	31.8 53.1	0.23 0.60	1.39 3.15	0.23 0.60	1.39 3.15	0.45 0.74	0.52 0.82	4.4
MSB 35 TE MSB 35 E MSB 35 LE	34	27.5	80	20	14x12x9	35.7 52.0 63.6	44.0 75.5 100.6	0.34 0.93 1.60	2.81 5.47 8.67	0.34 0.93 1.60	2.81 5.47 8.67	0.75 1.28 1.67	0.81 1.13 1.49	6.2

MINIATURE STAINLESS STEEL



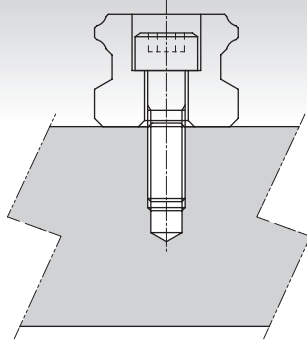
Unit: mm

MODEL NUMBER	Outer Dimensions					Roller Dimensions					
	Height H	Width W	Length L	W ₂	H ₂	B	C	S x ℓ	L ₁	T	Lubricator
MSC 7M MSC 7 LM	8	17	23.6 33.1	5	1.5	12	8 13	M2x2.5	18.4 27.9	3.5	∅ 0.8
MSC 9M MSC 9 LM	10	20	31.1 41.3	5.5	2.2	15	10 16	M3x3	25.8 36	4.5	∅ 1
MSC 12 M MSC 12 LM	13	27	34.6 47.6	7.5	3	20	15 20	M3x3.6	28 41	6	∅ 1.5
MSC 15 M MSC 15 LM	16	32	43.5 60.5	8.5	4	25	20 25	M3x4.2	36.1 53.1	7	G-M3

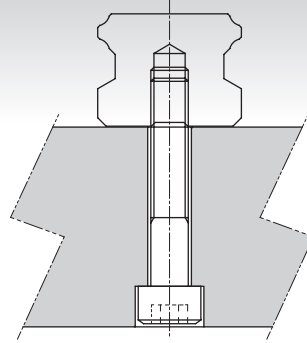
MODEL NUMBER	Rail Dimensions					Base load rate		Static Moment Ratio				Weight		
	Width W ₁	Height H ₁	Pitch P	E std.	D x h x d	Dynamic C kN	Static C ₀ kN	Mp N-m		My N-m		Mr N-m	Roller Kg	Rail kg / m
								Single	Double	Single	Double			
MSC 7M MSC 7 LM	7 ⁰ _{-0.05}	4.7	15	5	4.2x2.3x2.4	0.94 1.36	1.28 2.24	2.6 7.4	15.33 37.92	2.6 7.4	15.33 37.92	4.7 8.3	13 18	0.22
MSC 9M MSC 9 LM	9 ⁰ _{-0.05}	5.5	20	7.5	6x3.3x3.5	1.71 2.52	2.24 3.92	6.1 17.4	33.46 84.63	6.1 17.4	33.46 84.63	10.8 18.8	29 39	0.33
MSC 12 M MSC 12 LM	12 ⁰ _{-0.05}	7.5	25	10	6x4.5x3.5	2.62 3.77	3.52 5.72	11.4 28.3	63.96 141.52	11.4 28.3	63.96 141.52	22.2 36.0	40 60	0.63
MSC 15 M MSC 15 LM	15 ⁰ _{-0.05}	9.5	40	15	6x4.5x3.5	4.52 6.47	5.70 9.26	24.7 61.0	132.17 295.87	24.7 61.0	132.17 295.87	44.4 72.2	71 100	1.02

RAIL TYPE

**Countersink Type (R, U Type)
/ Mounted from overhead**



**Threaded screw hole type (T Type)
/ Mounted from bottom**



EXPLANATION OF CODES

(1) Non-Interchangeable Type

	MSB	25	E	2	SS	F0	A	+R	1200	-20	/40	P	A	/CC	II
Series: MSB															
Size: MSB 15, 20, 25,30,35															
Roller Type:															
(1) Medium load															
TE: Flange type, mounting from the top and from the bottom															
TS: Square type															
(2) Ultra Heavy Load															
E: Flange type, mounting from the top and from the bottom															
S: Square type															
Number of Rollers per rails: 1, 2, 3															
Number of Rollers per rails : None codes, UU, SS, ZZ, DD, KK, LL, RR															
Preload : FC(Weak preload), F0(Medium preload) F1 (Heavy preload)															
Special roller code: None codes, A, B,...															
Rail type: R, U ⁽¹⁾ (Countersink type), T (Threaded screw hole type)															
Rail length (mm)															
Rail hole pitch from beginning (Browse E1 Shape 12.2)															
Rail hole pitch by end (Browse E2 Shape 12.2)															
Degree of sensitivity: N, H, P, SP, UP															
Particular rail codes: None codes, A,B															
Rail dust covering options: None codes, /CC, /MC															
Number of springs per axis:															

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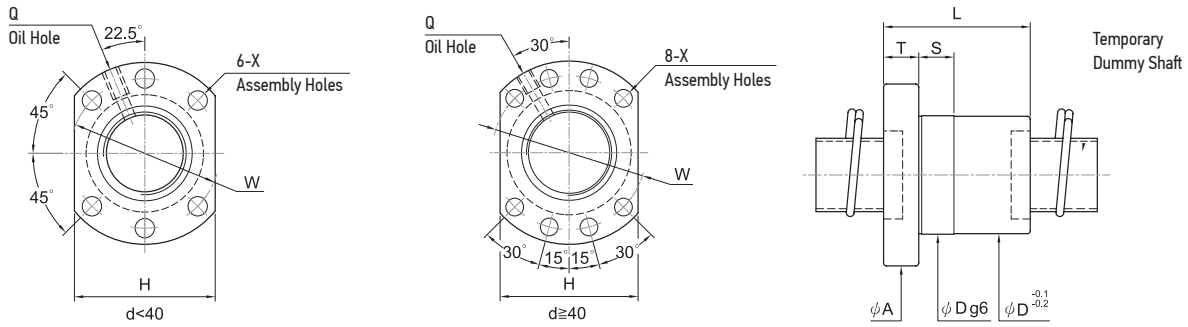
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BALL SCREW

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FSIN TYPE

BALL SCREW

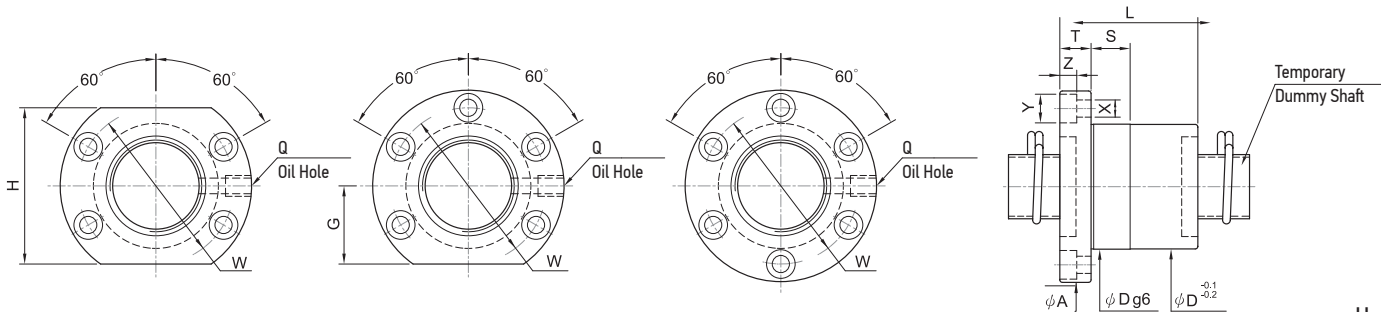


Unit: mm

Screw Size		Ball Dia	Effective Turns (circuit x row)	Basic Rate Load (kgf)		Ballnut Dimension										
O.D.	Lead			Dynamic (1x10 ⁶ Rev.) Ca	Static Co	O.D. D	Length L	Flange				Assembly X	Fit S	Oil Hole Q	Stiffness kgf/μm	Screw Model
						A	T	W	H							
16	5	3.175	3	570	1030	28	42	48	10	38	40	5.5	12	M6x1P	17	FSIN1605-3.0P
20	5	3.175	4	830	1890	36	50	58	12	47	44	5.5	12	M6x1P	21	FSIN2005-4.0P
25	5	3.175	4	940	2420	40	50	62	12	51	48	6.5	12	M6x1P	26	FSIN2005-4.0P
	10	4.762	4	1560	3550	40	85	62	12	52	48	6.5	15	M6x1P	27	FSIN2510-4.0P
32	5	3.175	4	1050	3390	50	50	80	12	65	62	9	12	M6x1P	32	FSIN3205-4.00
	10	6.35	4	2510	5880	50	80	80	13	65	62	9	16	M6x1P	34	FSIN3210-4.0P
40	5	3.175	4	1180	4390	63	54	93	15	78	70	9	12	M8x1P	38	FSIN4005-4.0P
	10	6.35	4	2430	7860	63	82	93	15	78	70	9	15	M8x1P	41	FSIN4010-4.0P
50	10	6.35	4	2770	10290	75	88	110	18	93	85	11	16	M8x1P	50	FSIN5010-4.0P
	10	6.35	6	3920	15440	75	106	110	18	93	85	11	16	M8x1P	73	FSIN5010-6.0P

FSIW TYPE

BALL SCREW

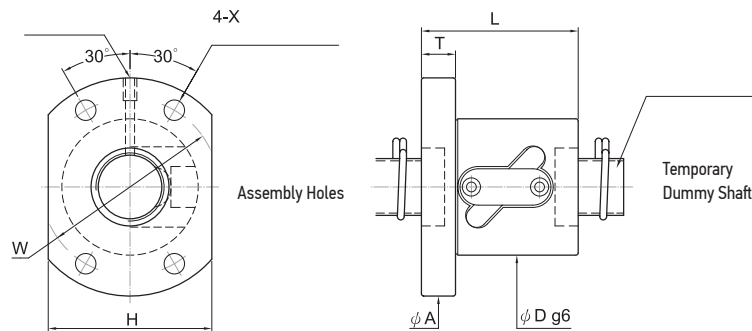


Unit: mm

Screw Size		Ball Dia	Effective Turns (circuit x row)	Basic Rate Load (kgf)		Ballnut Dimension													
O.D.	Lead			Dynamic (1x10 ⁶ Rev.) Ca	Static Co	O.D. D	Length L	Flange					Fit S	Assembly			Oil Hole Q	Stiffness kgf/μm	Screw Model
						A	T	W	G	H									
14	4	2.381	4	400	890	28	47	46	10	36	-	-	10	4.5	8	4.5	M6x1P	17	FSIW1404-4.0P
16	5	3.175	3	570	1030	30	42	49	10	39	20	40	10	4.5	-	-	M6x1P	21	FSIW1605-3.0P
20	5	3.175	4	830	1890	34	53	57	12	45	20	40	12	5.5	9.5	5.5	M6x1P M6x1P	21	FSIW2005-4.0P
	5	3.175	4	940	2420	40	53	63.5	12	51	22	44	15	5.5	9.5	5.5	M6x1P M8x1P	26	FSIW2005-4.0P
32	5	3.175	4	1050	3390	48	53	73.5	12	60	30	60	15	6.6	11	6.5	M8x1P	32	FSIW3205-4.0P
	10	6.350	4	2510	5880	54	90	88	16	70	34	68	15	9	14	8.5	M8x1P	34	FSIW3210-4.0P
40	10	3.175	4	1180	4390	55	56	88.5	16	72	29	58	15	9	14	8.5	M8x1P	38	FSIW4005-4.0P
	10	6.350	4	2360	7860	64	93	106	18	84	43	86	20	11	17.5	11	M8x1P	41	FSIW4010-4.0P
50	10	6.350	4	2770	10290	74	93	116	18	94	42	84	20	11	17.5	11	M8x1P	50	FSIW5010-4.0P

FSWW TYPE

BALL SCREW

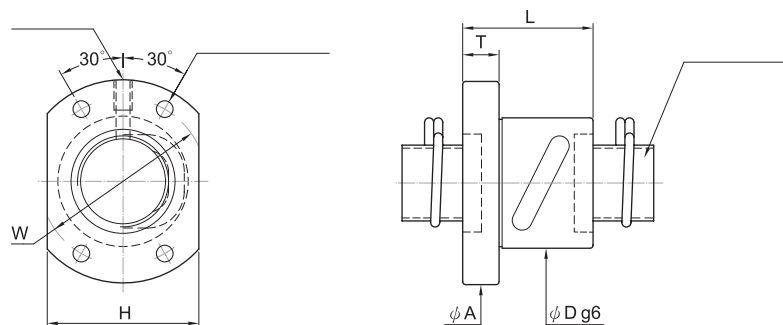


Unit: mm

Screw Size		Ball Dia	Effective Turns (circuit x row)	Basic Rate Load (kgf)		Ballnut Dimension									
O.D.	Lead			Dynamic (1x10 ⁶ Rev.) Ca	Static Co	O.D. D	Length L	Flange				Assembly X	Oil Hole Q	Stiffness kgf/μm	Screw Model
								A	T	W	H				
14	4	2.381	3.5x1	500	1100	35	42	57	10	45	40	4.5	M6x1P	15	FSWW1404-3.5P
	5	3.175	2.5x1	515	990	40	40	57	10	45	40	4.5	M6x1P	11	FSWW1405-2.5P
20	5	3.175	2.5x1	625	1450	44	41	67	10	55	52	5.5	M6x1P	15	FSWW2005-2.5P
	10	7.762	2.5x1	1100	2200	52	61	82	12	67	64	6.6	M6x1P	16	FSWW2010-2.5P
25	5	3.175	2.5x1	720	1830	50	41	73	11	61	56	6.6	M6x1P	18	FSWW2505-2.5P
			2.5x2	1120	3710		56							37	FSWW2505-5.0P
	10	6.350	2.5x1	1720	3590	60	69	96	15	78	72	9	M6x1P	21	FSWW2510-2.5P
			2.5x2	3200	7170		97							40	FSWW2510-2.0P
32	10	6.350	2.5x1	1930	4680	67	69	103	15	85	78	9	M6x1P	25	FSWW3210-2.5P
			2.5x2	3130	9410		97							49	FSWW3210-5.0P
40	10	6.350	2.5x2	3520	12000	76	100	116	17	96	88	11	M6x1P	59	FSWW4010-5.0P
50	10	6.350	2.5x2	3900	15000	88	101	128	18	108	100	11	M6x1P	72	FSWW5010-5.0P
			3.5x2	4940	21000		126							72	FSWW5010-7.0P

FSBW TYPE

BALL SCREW

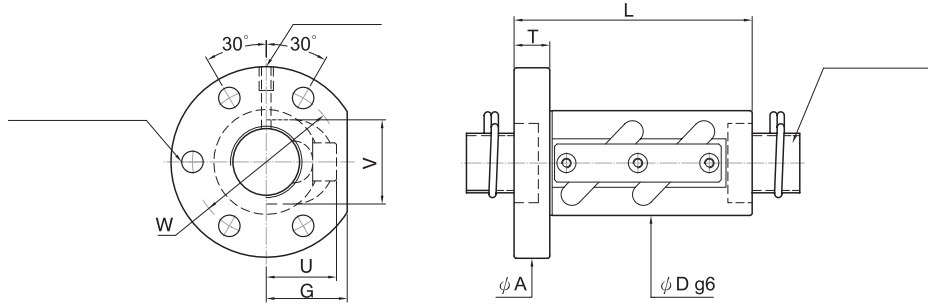


Unit: mm

Screw Size		Ball Dia	Effective Turns (circuit x row)	Basic Rate Load (kgf)		Ballnut Dimension									
O.D.	Lead			Dynamic (1x10 ⁶ Rev.) Ca	Static Co	O.D. D	Length L	Flange				Assembly X	Oil Hole Q	Stiffness kgf/μm	Screw Model
								A	T	W	H				
12	5	2.000	2.5x1	270	350	26	40	47	10	37	30	4.5	M6x1P	8.2	FSBW1205-2.5P
14	4	2.381	3.5x1	500	1100	31	40	50	10	40	37	4.5	M6x1P	15	FSBW1404-3.5P
	5	3.175	2.5x1	515	990	32	40	50	10	40	38	4.5	M6x1P	11	FSBW1405-2.5P
16	5	3.175	2.5x1	570	1130	34	40	54	10	44	40	4.5	M6x1P	13	FSBW1605-2.5P
20	4	2.381	2.5x1	415	850	40	41	59	10	50	46	4.5	M6x1P	14	FSBW2004-2.5P
	5	3.175	2.5x1	620	1450	40	40	59	10	50	46	4.5	M6x1P	16	FSBW2005-2.5P
25	4	2.381	2.5x1	450	980	43	41	67	10	55	50	4.5	M6x1P	17	FSBW2504-2.5P
	5	3.175	2.5x1	720	1830	43	40	67	10	55	50	5.5	M6x1P	18	FSBW2505-2.5P

FSVW TYPE

BALL SCREW

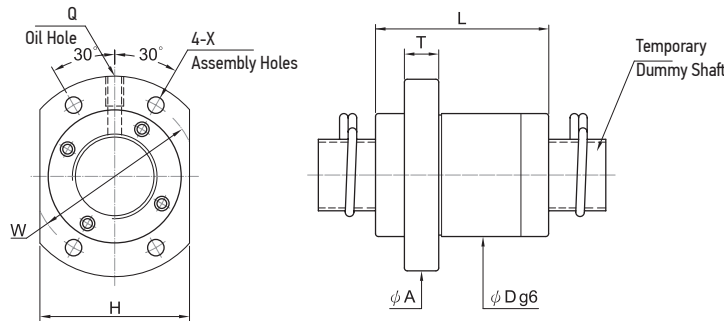


Unit: mm

Screw Size		Ball Dia	Effective Turns (circuit x row)	Basic Rate Load (kgf)		Ballnut Dimension											
O.D.	Lead			Dynamic (1x10 ⁶ Rev.) Ca	Static Co	O.D. D	Length L	Flange				Return Tube		Assembly X	Oil Hole Q	Stiffness kgf/μm	Screw Model
								A	T	W	G	U	V				
14	4	2.381	3.5x1	500	1100	25	42	55	10	40	19	19	21	4.5	M6x1P	15	FSVW1404-3.5P
	5	3.175	2.5x1	515	990	30	43	50	10	40	22	22	21	4.5	M6x1P	11	FSVW1405-2.5P
16	5	3.175	2.5x1	550	1140	34	43	54	10	44	24	20	22	4.5	M6x1P	13	FSVW1605-2.5P
20	5	3.175	2.5x1	625	1450	40	43	60	12	50	28	28	27	4.5	M6x1P	15	FSVW2005-2.5P
	10	4.762	2.5x1	1100	2200	40	60	67	12	53	30	30	30	6.6	M6x1P	16	FSVW2010-2.5P
25	5	3.175	2.5x1	720	1830	42	45	71	12	57	28	28	32	6.6	M6x1P	18	FSVW2505-2.5P
			2.5x2	1120	3710		60									37	FSVW2505-5.0P
	10	6.350	2.5x1	1720	3590	44	68	79	15	62	34	34	37	9.0	M6x1P	21	FSVW2510-2.5P
			2.5x2	3200	7170		98									40	FSVW2510-5.0P
32	10	6.350	2.5x1	1930	4680	55	72	97	18	75	39	39	44	11	M6x1P	25	FSVW3210-2.5P
	10		2.5x2	3130	9410		101									49	FSVW3210-5.0P
40	10	6.350	3.5x2	4450	16800	65	123	114	20	90	44	44	52	14	M6x1P	81	FSVW4010-7.0P
50	10	6.350	3.5x2	4940	21000	80	125	138	22	110	52	52	62	18	M6x1P	98	FSVW5010-7.0P

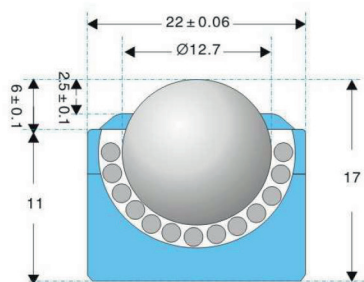
FSKW TYPE

BALL SCREW



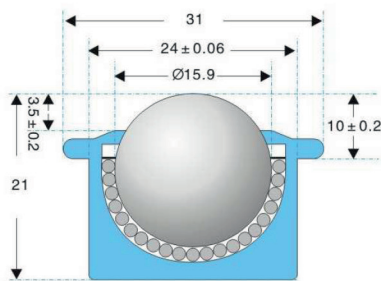
Unit: mm

Screw Size		Ball Dia	Effective Turns (circuit x row)	Basic Rate Load (kgf)		Ballnut Dimension									
O.D.	Lead			Dynamic (1x10 ⁶ Rev.) Ca	Static Co	O.D. D	Length L	Flange				Assembly X	Oil Hole Q	Stiffness kgf/μm	Screw Model
								A	T	W	H				
15	10	3.175	2.8x2	1000	2570	34	44	57	10	45	40	5.5	M6x1P	26	FSKW1510-5.6P
16	16	3.175	1.8x1	330	640	32	38	53	10	42	38	4.5	M6x1P	9	FSKW1616-1.8P
20	20	3.175	1.8x2	780	2280	39	52	62	10	50	46	5.5	M6x1P	21	FSKW2020-3.6P
25	25	3.969	1.8x1	1230	3570	47	62	74	12	60	56	6.6	M6x1P	27	FSKW2525-3.6P
			1.8x4	2230	7140									52	FSKW2525-7.2P
32	32	4.762	1.8x2	1760	5500	58	78	92	15	74	68	9	M6x1P	33	FSKW3232-3.6P
			1.8x1	3200	11000									65	FSKW3232-7.2P
40	40	6.350	1.8x1	2870	9170	73	95	114	17	93	84	11	M6x1P	42	FSKW4040-3.6P
			1.8x2	5220	18340									81	FSKW4040-7.2P



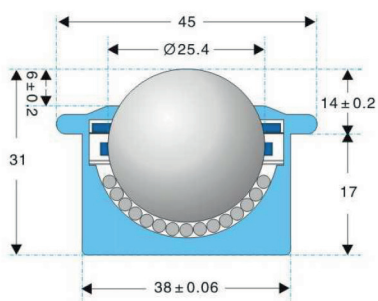
CP12

MODEL	CP12A	CP12B	CP12C	CP12SS
Housing material	20 Cr	20 Cr	20 Cr	SUS304
Ball material	Q235	Gcr15	SUS420	SUS304
Dynamic load	30 kg	30 kg	30 kg	20 kg



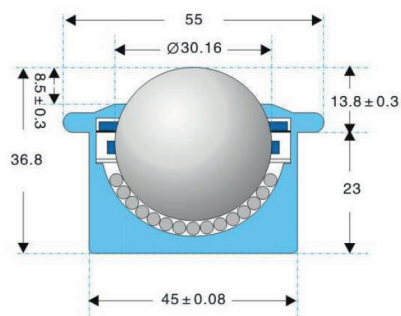
CP15

MODEL	CP15A	CP15B	CP15C	CP15SS
Housing material	20 Cr	20 Cr	20 Cr	SUS304
Ball material	Q235	Gcr15	SUS420	SUS304
Dynamic load	60 kg	60 kg	40 kg	40 kg



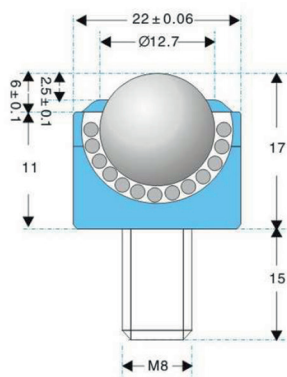
CP25

MODEL	CP25A	CP25B	CP25C	CP25SS
Housing material	20 Cr	20 Cr	20 Cr	SUS304
Ball material	Q235	Gcr15	SUS420	SUS304
Dynamic load	200 kg	200 kg	200 kg	150 kg



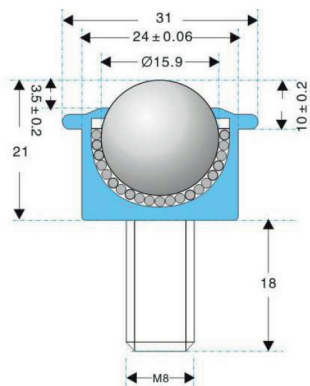
CP30

MODEL	CP30A	CP30B	CP30C	CP30SS
Housing material	20 Cr	20 Cr	20 Cr	SUS304
Ball material	Q235	Gcr15	SUS420	SUS304
Dynamic load	350 kg	350 kg	350 kg	200 kg



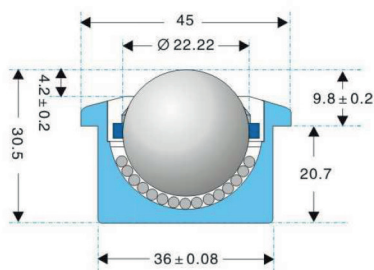
CP12-FL

MODEL	CP12A	CP12B	CP12C	CP12SS
Housing material	20 Cr	20 Cr	20 Cr	SUS304
Ball material	Q235	Gcr15	SUS420	SUS304
Dynamic load	30 kg	30 kg	30 kg	20 kg



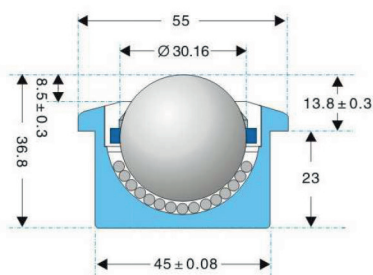
CP15-FL

MODEL	CP15A	CP15B	CP15C	CP15SS
Housing material	20 Cr	20 Cr	20 Cr	SUS304
Ball material	Q235	Gcr15	SUS420	SUS304
Dynamic load	60 kg	60 kg	60 kg	40 kg



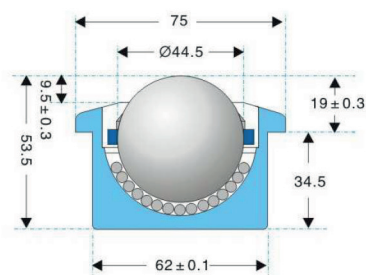
SP22

MODEL	SP22A	SP22B	SP22C	SP22S
Housing material	20 Cr	20 Cr	20 Cr	SUS304
Ball material	Q235	Gcr15	SUS420	SUS304
Dynamic load	180 kg	180 kg	180 kg	120 kg



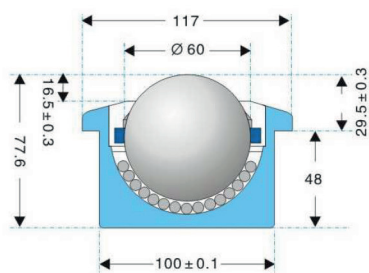
SP30

MODEL	SP30A	SP30B	SP30C	SP30S
Housing material	20 Cr	20 Cr	20 Cr	SUS304
Ball material	Q235	Gcr15	SUS420	SUS304
Dynamic load	350 kg	350 kg	350 kg	200 kg



SP45

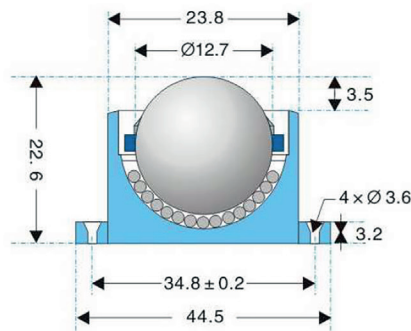
MODEL	SP45A	SP45B	SP45C	SP45SS
Housing material	20 Cr	20 Cr	20 Cr	SUS304
Ball material	Q235	Gcr15	SUS420	SUS304
Dynamic load	600 kg	600 kg	600 kg	300 kg



SP60

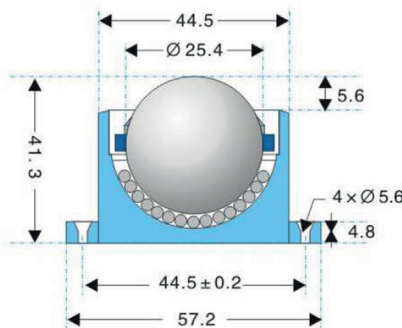
MODEL	SP60A	SP60B	SP60C
Housing material	20 Cr	20 Cr	20 Cr
Ball material	Q235	Gcr15	SUS420
Dynamic load	1500 kg	1500 kg	1500 kg

KR12



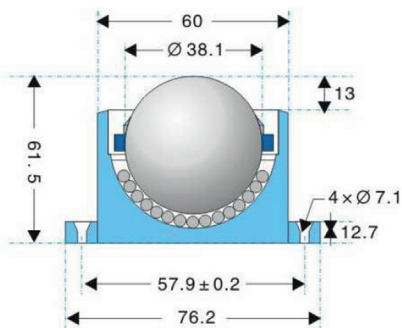
Housing material: 20 Cr
 Ball material : Gcr15
 Dynamic load : 30 kg

KR25



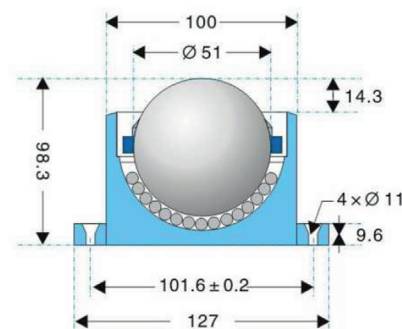
Housing material: 20 Cr
 Ball material : Gcr15
 Dynamic load : 200 kg

KR38

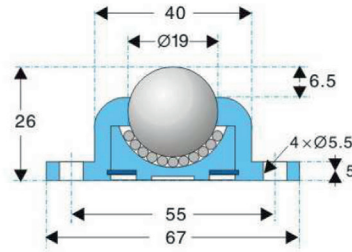


Housing material: 20 Cr
 Ball material : Gcr15
 Dynamic load : 400 kg

KR51

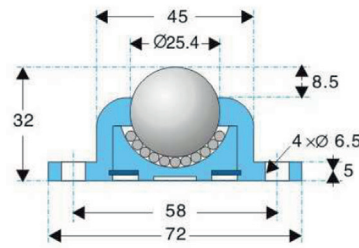


Housing material: 20 Cr
 Ball material : Gcr15
 Dynamic load : 1000 kg



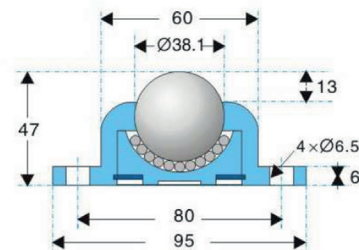
IA19

MODEL	IA19B	IA19SS
Housing material	AL	AL
Ball material	Gcr15	SUS304
Base material	20 Cr	SUS304
Dynamic load	180 kg	120 kg



IA25

MODEL	IA25B	IA25SS
Housing material	AL	AL
Ball material	Gcr15	SUS304
Base material	20 Cr	SUS304
Dynamic load	260 kg	180 kg



IA38

MODEL	IA38B	IA38SS
Housing material	AL	AL
Ball material	Gcr15	SUS304
Base material	20 Cr	SUS304
Dynamic load	400 kg	260 kg


FILİBE RULMAN

MAKİNA İMALAT İTHALAT İHRACAT LTD.ŞTİ.


MACHINE BALANCE FEET

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EKL SERIES

	CODE	D (mm)	Pin Bolt	L (mm)	H (mm)	Freightage (kg/pcs)
	EKL 04 1050	40	M10x50	50	26	100
	EKL 04 1250	40	M12x50	50	28	100
	EKL 06 1050	65	M10x50	50	28	250
	EKL 06 1270	65	M12x70	70	30	300
	EKL 06 1610	65	M16x100	100	32	400
	EKL 08 1210	80	M12x100	100	42	400
	EKL 08 1610	80	M16x100	100	45	500
	EKL 08 2010	80	M20x100	100	45	600
	EKL 10 1210	100	M12x100	100	42	350
	EKL 10 1610	100	M16x100	100	45	600
	EKL 10 2010	100	M20x100	100	45	800
	EKL 12 1210	120	M12x100	100	45	500
	EKL 12 1610	120	M16x100	100	47	800
	EKL 16 2015	120	M20x150	150	50	1.000
	EKL 20 2015	160	M16x100	100	50	2.000
EKL 16 2015	160	M20x150	150	53	3.000	
EKL 20 2015	200	M20x150	150	62	4.000	


AL SERIES

	CODE	D (mm)	M	L (mm)	H (mm)	Freightage (kg/pcs)
	AL 08 1210	80	M12x100	100	50	600
	AL 08 1610	80	M16x100	100	50	800
	AL 12 1610	120	M16x100	100	55	1000
	AL 12 1610	120	M20x150	150	55	1200
	AL 12 2015	160	M20x150	150	60	2000
	AL 16 2415	160	M24x150	150	60	3000


EMD SERIES

	CODE	D (mm)	M	L (mm)	H (mm)	Freightage (kg/pcs)
	EMD 10 1210	125	M12x100	100	25	600
	EMD 10 1610	125	M16x100	100	27	800
	EMD 10 2015	125	M20x150	150	30	1200


EML SERIES

	CODE	D (mm)	M	L (mm)	H (mm)	A (mm)	Freightage (kg/pcs)
	EML 120 1610	120	M16x100	100	30	90	1000
	EML 120 1615	120	M16x150	150	30	90	1000
	EML 120 2010	120	M20x100	100	32	90	1500
	EML 120 2015	120	M20x150	150	32	90	1500


EL SERIES

	CODE	D (mm)	Pin Bolt	L (mm)	H (mm)	Freightage (kg/pcs)
	EL 04 1050	40	M10x50	50	26	100
	EL 04 1250	40	M12x50	50	28	100
	EL 06 1050	65	M10x50	50	28	250
	EL 06 1270	65	M12x70	70	30	300
	EL 06 1610	65	M16x100	100	32	400
	EL 08 1210	80	M12x100	100	42	350
	EL 08 1610	80	M16x100	100	45	600
	EL 08 2010	80	M20x100	150	45	800
	EL 10 1210	100	M12x100	100	42	350
	EL 10 1610	100	M16x100	100	45	600
	EL 10 2010	100	M20x100	100	45	800
	EL 12 1210	120	M12x100	100	45	500
	EL 12 1610	120	M16x100	100	47	800
	EL 12 2015	120	M20x150	150	50	1.000
	EL 16 1610	160	M16x100	100	50	2.000
EL 16 2015	160	M20x150	50	53	3.000	
EL 20 2015	200	M20x150	150	62	4.000	


EC SERIES

	CODE	D (mm)	M	L (mm)	H (mm)	Freightage (kg/pcs)
	EC 50 1050	50	M10x50	50	32	400
	EC 50 1250	50	M12x50	50	32	500
	EC 50 1610	50	M16x100	100	32	600
	EC 10 1610	100	M16x100	100	35	1200
	EC 10 1615	100	M16x150	150	35	1200
	EC 10 2015	100	M20x150	150	37	1500
	EC 10 2415	100	M24x150	150	37	2000
	EC 15 1610	150	M16x100	100	35	2000
	EC 15 2015	150	M16x150	150	35	2000
	EC 15 2015	150	M20x150	150	37	3000
	EC 15 2415	150	M24x150	150	37	4000
	EC 20 1610	200	M16x100	100	35	4000
	EC 20 1615	200	M16x150	150	35	4000
	EC 20 2015	200	M20x150	150	37	5000
	EC 20 2415	200	M24x150	150	37	6000


EDL SERIES

	CODE	D (mm)	M	L (mm)	H (mm)	Freightage (kg/pcs)
	EDL 50 1650	50	M16x50	50	25	200


EM SERIES

	CODE	D (mm)	M	L (mm)	L1 (mm)	H (mm)	Freightage(kg/pcs)
	EM 40 0845	40	M8x45	75	45	30	100
	EM 40 1060	40	M10x60	90	60	30	100
	EM 40 1260	40	M12x60	90	60	30	100
	EM 60 1260	60	M12x60	90	60	30	200
	EM 60 1660	60	M16x60	90	60	30	200
	EM 80 1660	80	M16x60	100	60	40	500
	EM 80 1611	80	M16x110	150	110	40	500
	EM 80 1615	80	M16x150	190	150	40	500
	EM 80 2011	80	M20x110	150	110	40	600
	EM 100 1660	100	M16x60	100	60	40	800
	EM 100 1611	100	M16x110	150	110	40	800
	EM 100 1615	100	M16x150	190	150	40	800
	EM 100 1620	100	M16x200	240	200	40	800
	EM 100 2011	100	M20x110	150	110	40	1000
	EM 100 2015	100	M20x150	190	150	40	1000
	EM 100 2020	100	M20x200	240	200	40	1000
	EM 120 1611	120	M16x110	152	110	42	1200
	EM 120 1615	120	M16x150	192	150	42	1200
EM 120 2011	120	M20x110	152	110	42	1200	
EM 120 2015	120	M20x150	192	150	42	1200	
EM 120 2020	120	M20x200	242	200	42	1200	


EMS SERIES

	CODE	D (mm)	Pin Bolt	L (mm)	H (mm)	Freightage (kg/pcs)
	EMS 80 1210	80	M12x100	100	15	1000
	EMS 80 1610	80	M16x100	100	15	1000
	EMS 80 2015	80	M20x150	150	15	1000


EMS SERIES

	CODE	D (mm)	M	L (mm)	H (mm)	Freightage (kg/pcs)
	EMS 85 1290	80	M12x100	100	15	1000
	EMS 85 1610	80	M16x100	100	15	1000
	EMS 85 2015	80	M20x150	150	15	1000


EMS SERIES

	CODE	D (mm)	M	L (mm)	H (mm)	Freightage (kg/pcs)
	EMS 10 1290	100	M12x100	100	25	300
	EMS 10 1610	100	M16x100	100	27	400
	EMS 10 2015	100	M20x150	150	30	500


ESL SERIES

	CODE	D (mm)	M	L (mm)	H (mm)	Freightage (kg/pcs)
	ESL 80 1210	80	M12x100	100	19	1000
	ESL 80 1610	80	M16x100	100	19	1000
	ESL 80 2015	80	M20x150	150	19	1000


ESL SERIES

	CODE	D (mm)	M	L (mm)	H (mm)	Freightage (kg/pcs)
	ESL 85 1210	80	M12x100	100	19	1000
	ESL 85 1610	80	M16x100	100	19	1000
	ESL 85 2015	80	M20x150	150	19	1000


L SERIES

	CODE	D (mm)	M	L (mm)	H (mm)	Freightage (kg/pcs)
	L 08 1010	80	M10x100	100	35	300
	L 08 1210	80	M12x100	100	35	400
	L 08 1611	80	M16x110	110	35	500
	L 12 1210	120	M12x100	100	45	800
	L 12 1611	120	M16x110	110	45	1000
	L 12 2015	120	M20x150	150	45	1200
	L 16 1610	160	M16x100	100	45	1200
	L 16 2015	160	M20x150	150	45	1500


LMS SERIES

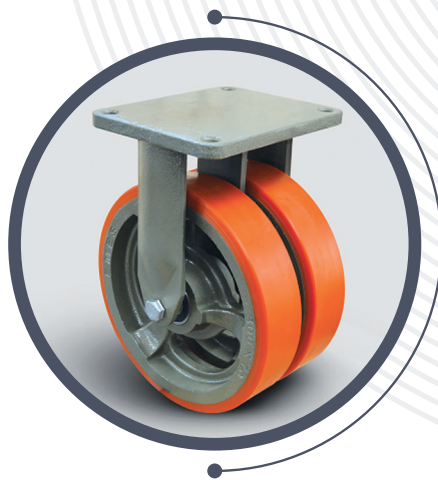
	CODE	D (mm)	Pin Bolt	L (mm)	H (mm)	Freightage (kg/pcs)
	LMS 80 1050	80	M10x50	50	35	750
	LMS 80 1010	80	M10x100	100	35	750
	LMS 80 1215	80	M12x50	50	35	750
	LMS 80 1210	80	M12x100	100	35	750
	LMS 80 1215	80	M12x150	150	35	750
	LMS 80 1610	80	M16x100	100	35	750
	LMS 80 1615	80	M16x150	150	35	750
	LMS 80 2010	80	M20x100	100	35	750
	LMS 80 2015	80	M20x150	150	35	750

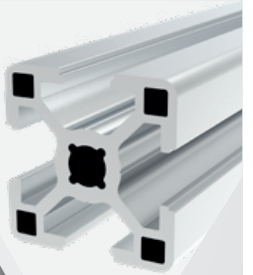
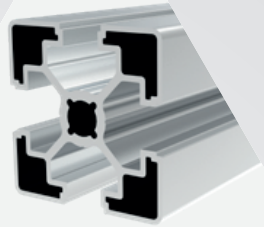
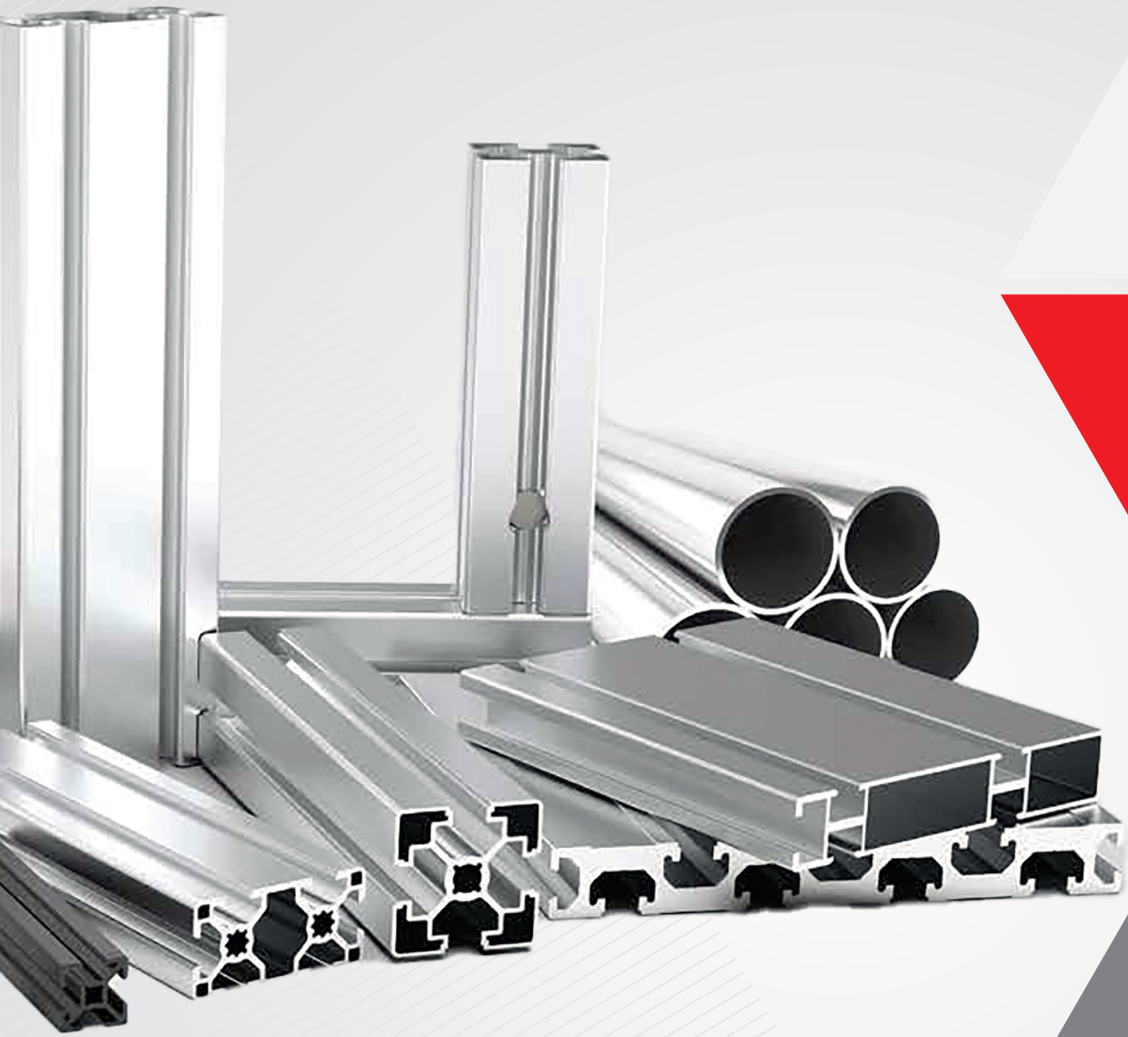
LS SERIES

	D (mm)	Pin Bolt	H (mm)	Freightage (kg/pcs)
	50	M10	40	300
	50	M12	40	300
	50	M16	40	300
	80	M10	40	750
	80	M12	40	750
	80	M16	40	750
	100	M10	42	1000
	100	M12	42	1000
	100	M16	42	1000

LS SERIES

	CODE	D (mm)	Pin Bolt	L (mm)	H (mm)	Freightage (kg/pcs)
	LS 50 1050	50	M10x50	50	40	300
	LS 50 1010	50	M10x100	100	40	300
	LS 50 1250	50	M12x50	50	40	300
	LS 50 1210	50	M12x100	100	40	300
	LS 50 1610	50	M16x100	100	40	300
	LS 80 1010	80	M10x100	100	40	750
	LS 80 1015	80	M10x150	150	40	750
	LS 80 1210	80	M12x100	100	40	750
	LS 80 1215	80	M12x150	150	40	750
	LS 80 1610	80	M16x100	100	40	750
	LS 80 1615	80	M16x150	150	40	750
	LS 80 2010	80	M20x100	100	40	750
	LS 80 2015	80	M20x150	150	40	750
	LS 100 1610	100	M16x100	100	40	1000
	LS 100 1615	100	M16x150	150	40	1000
	LS 100 2010	100	M20x100	100	40	1000
LS 100 2015	100	M20x150	150	40	1000	





Sigma Profile Series
Standard Profiles
Conveyor Profiles

SIGMA PROFILE SERIES

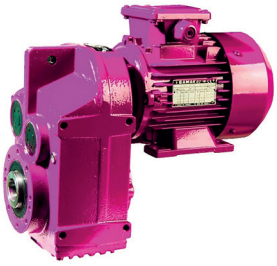
Definition	Code	Cross-Section	Groove	Weight (kg/m)	Area (mm ²)	lx	ly	Wx	Wy
20x20	10848		6	0,387	142,71	0,600	0,600	0,600	0,600
20x40	10849		6	0,699	257,84	1,118	4,066	1,118	2,033
20x20xR	10847		6	0,380	140,17	0,368	0,646	0,368	0,646
25x25	7972		6	0,569	209,93	1,320	1,320	1,056	1,056
20x20	4468		8	0,421	155,42	0,640	0,640	0,640	0,640
20x40	7419		8	0,713	263,12	1,0817	4,3348	1,082	2,167
30x30 (H)	12839		8	0,729	268,94	2,522	2,522	1,681	1,681
30x30	6192		8	0,882	325,64	2,843	2,843	1,895	1,895
30x30x2K	12373		8	0,918	338,84	2,985	2,977	1,990	1,985
30x30x3K	10194		8	0,872	321,7	2,873	2,631	1,915	1,754
30x30xR	7317		8	0,693	255,75	2,361	1,576	1,574	1,051
30x60	7267		8	1,516	559,52	5,324	19,789	3,549	6,596
30x90	7318		8	2,145	791,47	7,772	61,018	5,181	13,559
30x120	11426		8	2,461	908,06	10,836	138,158	7,224	23,026
60x60	7268		8	2,413	890,26	35,934	35,938	11,978	11,979
35x35	7973		8	1,029	379,87	4,704	4,704	2,688	2,688
40x40 (H)	7974		8	1,135	419	6,678	6,678	3,339	3,339
40x40 (A)	1915		8	1,775	655,08	9,589	9,589	4,795	4,795
40x80 (H)	7975		8	1,877	692,55	11,887	46,484	5,943	11,621
40x80 (A)	2094		8	3,079	1136,27	17,390	70,933	8,695	17,733
80x80 (A)	5915		8	4,821	1778,79	123,558	123,558	30,890	30,890
40x40 (H)	10187		10	1,196	441,51	6,739	6,739	3,369	3,369
40x40 (A)	12930		10	1,650	608,9	9,883	9,883	4,941	4,941
40x40 2K	12372		10	1,258	464,36	7,188	7,188	3,594	3,594
40x80 (H)	10736		10	2,029	748,66	11,937	48,844	5,969	12,211
40x80 (A)	12929		10	2,760	1018,5	17,494	68,253	8,747	17,063
40x80 2K	12936		10	2,122	782,93	12,821	51,569	6,411	12,892
80x80 (A)	12974		10	4,885	1802,76	126,755	126,755	31,689	31,689
45x45 (UH)	10222		10	1,127	416,01	8,401	8,401	3,734	3,734
45x45 (H)	7269		10	1,379	508,98	9,624	9,624	4,277	4,277
45x45 (S)	6190		10	1,662	613,31	11,577	11,577	5,145	5,145
45x45 (A)	7321		10	2,004	739,47	15,194	15,194	6,753	6,753
45x45 2K	10246		10	1,403	517,61	10,040	10,041	4,462	4,463
45x45 3K	10195		10	1,144	422,15	8,418	8,149	3,741	3,622
45x45xR	7270		10	1,140	420,66	8,981	6,172	3,992	2,743
60x60	10775		10	2,509	925,94	29,747	29,747	9,916	9,916
45x90 (H)	7271		10	2,418	892,33	19,395	70,055	8,620	15,568
45x90 (S)	6191		10	2,792	1030,08	20,590	84,844	9,151	18,854
45x90 (A)	7322		10	3,287	1212,8	27,286	99,516	12,127	22,115
45x90 (UA)	3228		10	3,749	1383,51	29,920	112,962	13,298	25,103
45x135	7323		10	4,686	1729,08	40,242	308,107	17,885	45,646
45x180 (H)	7492		10	6,182	2281,05	52,979	698,163	23,546	77,574
90x90 (H)	7324		10	5,142	1897,29	179,849	179,849	39,966	39,966
90x90 (S)	6193		10	5,694	2101,22	205,238	205,238	45,608	45,608
90x90 (A)	7490		10	6,902	2546,76	223,306	223,306	49,623	49,623
90x135 (A)	11801		10	9,408	3471,55	317,307	657,173	70,513	97,359
90x180 (H)	7491		10	9,938	3667,11	347,930	1.220,705	77,318	135,634



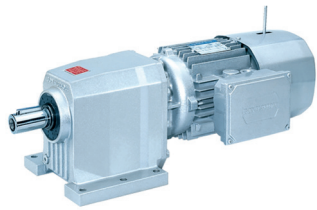
Please contact **OUR COMPANY** for dimensions and detailed information.

MOVING CABLE CARRIERS

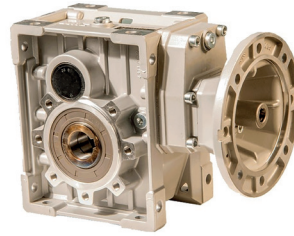
REDUCTION GEAR



D Series - Helical Gear Hollow Shaft Gearboxes reduction gear



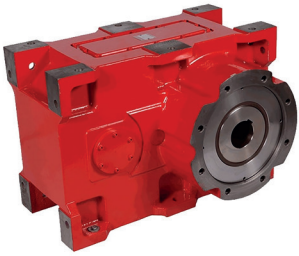
C Series - Helical Motor reduction gear



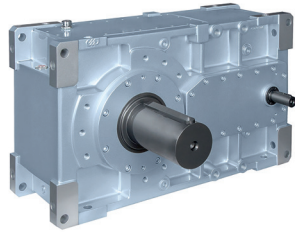
E Series - Helical Motor reduction gear



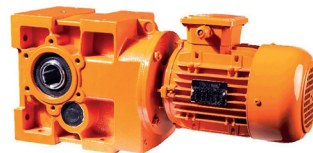
F Series - Coupled to shaft Motor reduction gear



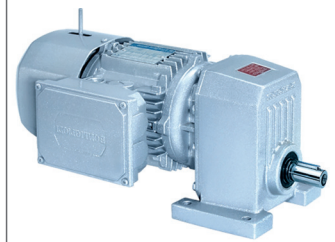
H Series - Flat type helical gear reducers



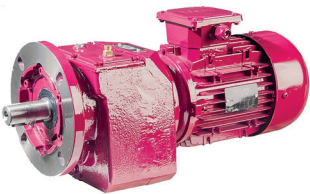
HDP Series - Parallel Shaft Gear units



K Series - Parallel Shaft Gear units



S Series - Single Stage Helical Motor reduction gear



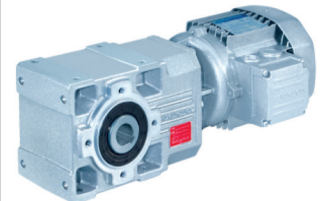
M Series - Helical Gear Footed reduction gear



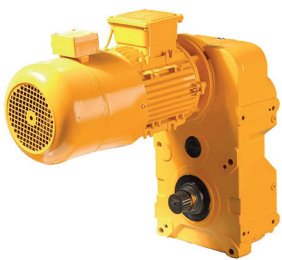
TA Series - Shaft Coupled Speed reduction gear



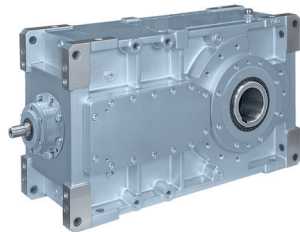
T Series - Hollow Shaft Without Motor reduction gear



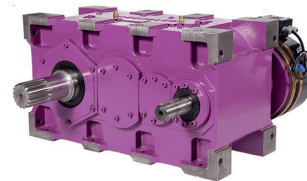
A Series - Conical Drive Motor reduction gear



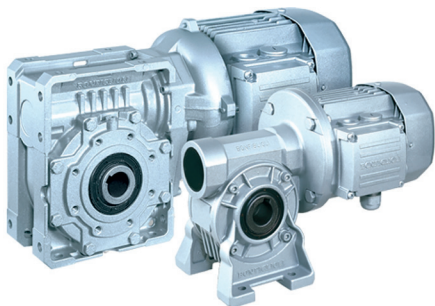
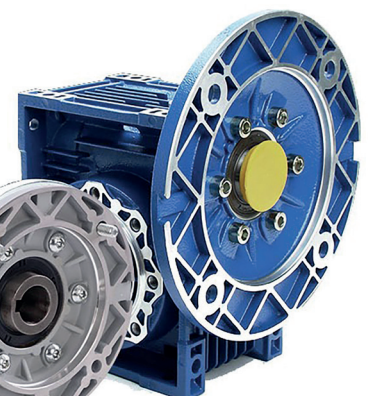
V Series - Winch Drum Drive reduction gear



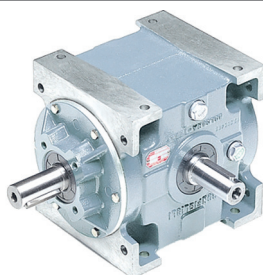
HDO Series - Conical Helical Speed reduction gear



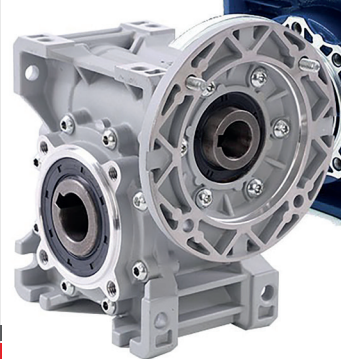
Y Series - Horizontal Type Helical Gear reduction gear



VF/W - Universal Worm Geared Motors



RAN Series - Bevel Gears



SERIAL 62_ _

SERIAL	MARK	ROLLER TYPE
6206	MOS	6206-ZZ
	MOS	6206-ZZ/C3
	MOS	6206-ZZTN9/C3
	MOS	6206-2RS
	MOS	6206-2RS/C3
6207	MOS	6207-2RS
	MOS	6207-2RS/C3
6208	MOS	6208-2RS
	MOS	6208-2RS/C3
6209	MOS	6209-ZZ
	MOS	6209-ZZ/C3
	MOS	6209-2RS
	MOS	6209-2RS/C3

SERIAL 62_

SERIAL	MARK	ROLLER TYPE
623	MOS	623-ZZ
	MOS	S623-ZZ
624	MOS	6207-2RS
	MOS	6207-2RS/C3
6208	MOS	6208-2RS
	MOS	6208-2RS/C3
6209	MOS	624-ZZ
	MOS	624-ZZ/C3
	MOS	624-2RS
	MOS	624-2RS/C3
	K-TECH	624-ZZ
	K-TECH	624-ZZ/C3
625	MOS	625-ZZ
	MOS	625-ZZ/C3
	MOS	625-2RS
	MOS	625-2RS/C3
	K-TECH	625-ZZTN9MC3
	K-TECH	625-2RSTN9MC3

SERIAL 62_

SERIAL	MARK	ROLLER TYPE
626	MOS	626-ZZ
	MOS	626-ZZ/C3
	MOS	626-2RS
	MOS	626-2RS/C3
	MOS	626-2RSHQMC3
	K-TECH	626-2RSTN9MC3
627	K-TECH	626-ZZTN9MC3
	MOS	627-ZZ
	MOS	627-ZZ/C3
628	MOS	627-2RS
	MOS	627-2RS/C3
	MOS	628-ZZ
	MOS	628-ZZ/C3
629	MOS	628-2RS
	MOS	628-2RS/C3
	K-TECH	628-ZZ
	MOS	629-ZZ
	MOS	629-ZZ/C3
	MOS	629-2RS
629	MOS	629-2RS/C3
	MOS	629-ZZMC3
	K-TECH	629-ZZMC3

SERIAL 68_ _

SERIAL	MARK	ROLLER TYPE	d(mm)	D(mm)	B(mm)
683	MOS	683-ZZ	3	7	3
684	MOS	684	4	9	2,5
	MOS	684-ZZ	4	9	4
	MOS	684-2RS	4	9	4
685	MOS	685-ZZ	5	11	5
	MOS	685-2RS	5	11	5
	MOS	F 685-ZZ	5	11 - 12,5	5
	K-TECH	F 685-ZZ	5	11 - 12,5	5
	MOS	686	6	13	3,5
686	MOS	686-ZZ	6	13	5
	MOS	686-2RS	6	13	5
	MOS	F 686-ZZ	6	13 - 15	5
	K-TECH	686-ZZMC3	6	13	5
	K-TECH	686-2RSMC3	6	13	5
	K-TECH	F 686-ZZ	6	13 - 15	5
687	MOS	687	7	14	3,5
	MOS	687-ZZ	7	14	5
	MOS	687-2RS	7	14	5
	K-TECH	687-ZZMC3	7	14	5
688	MOS	688	8	16	4
	MOS	688-ZZ	8	16	5
	MOS	688-2RS	8	16	5
	MOS	F 688-ZZ	8	16 - 18	5
	K-TECH	688-2RSMC3	8	16	5
	K-TECH	F 688-ZZ	8	16 - 18	5
689	MOS	689	9	17	4
	MOS	689-ZZ	9	17	5
	MOS	689-2RS	9	17	5
	K-TECH	689-ZZMC3	9	17	5

SERIAL MR

MARK	ROLLER TYPE	d (mm)	D (mm)	B (mm)
MOS	MR 63-ZZ	3	6	2,5
MOS	MR 74-ZZ	4	7	2,5
MOS	MR 83-ZZ	3	8	3
MOS	MR 84-ZZ	4	8	3
MOS	MR 85-ZZ	5	8	2,5
MOS	MR 93-ZZ	3	9	4
MOS	MR 95-ZZ	5	9	3
MOS	MR 104-ZZ	4	10	4
MOS	MR 105-ZZ	5	10	4
MOS	MR 106-ZZ	6	10	3
MOS	MR 115-ZZ	5	11	4
MOS	MR 117-ZZ	7	11	3
MOS	MR 126-ZZ	6	12	4
MOS	MR 126-2RS	6	12	4
MOS	MR 128	8	12	2,5
MOS	MR 128-ZZ	8	12	3,5
MOS	MR 128-2RS	8	12	3,5
MOS	MR 137-ZZ	7	13	4
MOS	MR 148-ZZ	8	14	4

SERIAL SMR

MARK	ROLLER TYPE	d (mm)	D (mm)	B (mm)
MOS	SMR 74-ZZ	4	7	2,5
MOS	SMR 83-ZZ	3	8	3
MOS	SMR 84-ZZ	4	8	3
MOS	SMR 85-ZZ	5	8	2,5
MOS	SMR 95-ZZ	5	9	3
MOS	SMR 104-ZZ	4	10	4
MOS	SMR 105-ZZ	5	10	4
MOS	SMR 106-ZZ	6	10	3
MOS	SMR 115-ZZ	5	11	4
MOS	SMR 117-ZZ	7	11	3
MOS	SMR 126-ZZ	6	12	4
MOS	SMR 137-ZZ	7	13	4

MOTORS



REDUCER

