

**MS 700**

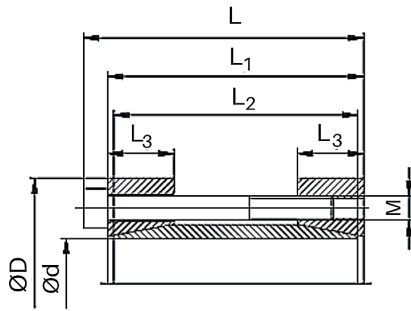
**MS 700** - MS 700 is similar to MS 603 & MS 620. Here the discs are spaced apart to enable connection for more than one shaft. It is usually positioned on 2 opposing shaft ends. MS 700 can connect 2 identical shaft diameters which are perfectly aligned. The design of MS 700 is suitable for horizontal as well as vertical shafts and is capable of withstanding high axial loads. Specifically recommended for high-speed drives

**Centering** – This is self centering and hence additional hub centering is not required. This also provides good concentricity.

**Installation** - Clean and degrease the contact surface of the shafts that need to be combined. Later, apply light thin fluid oil. Slightly release the screws and place the rigid shaft coupling onto the shaft ends that need to be connected. Manually tighten the screws lightly and align the clamping sets and shafts. Tighten the screws evenly in the diagonal sequence or the crosswise sequence. The process needs to be continued until it reaches the tightening torque mentioned. The figures arrived for  $T$  and  $F_{ax}$  axial force mentioned in the table are calculated in terms of the oiled/greased assembly of the external clamping set. In case you are looking for assembly of the set without oiling and greasing then please contact us - since the figures mentioned in the table will not be the same.

**Note** : Do not use any oil/ grease that contains Molybdenum disulphide additives or high-pressure additives or additives of Teflon and silicon. Avoid use of sliding grease or any sort of lubrication that reduces the coefficient of friction. In case the assembly of tapers is done without the use of oil then the figures in the table may differ.

**Disassembly** - The disassembly procedure is very easy. All the screws need to be unscrewed evenly one by one; You may not unscrew them completely off the thread. MS 700 set is not self-locking. If the front and rear external taper ring is not released, you may put some pressure on the front and rear external taper ring in several positions on the circumference. Then Pull the shaft ends of MS 700.



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Dimensions [mm]					Clamping screws DIN EN ISO 4762 - 12.9 $\mu_{\text{total}} = 0.14$				Transmittable torque or axial force		Surface pressure of clamping element/shaft
d x D	L	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	M	Length	z = number	T <sub>A</sub> [Nm]	T [Nm]	F <sub>ax</sub> [kN]	P <sub>w</sub> [N/mm <sup>2</sup> ]
10 x 35	42	38	36	15	M4	30	6	5.5	62	12	219
11 x 35	42	38	36	15	M4	30	6	5.5	66	12	193
12 x 35	42	38	36	15	M4	30	6	5.5	72	12	177
14 x 45	42	38	36	15	M4	30	6	5	76	11	137
15 x 45	56	50	47	15	M6	45	4	17	160	21	252
16 x 45	56	50	47	15	M6	45	4	17	170	21	235
17 x 45	56	50	47	15	M6	45	4	17	180	21	220
18 x 50	56	50	47	15	M6	45	4	17	190	21	207
19 x 50	56	50	47	15	M6	45	4	17	200	21	196
20 x 50	56	50	47	15	M6	45	4	17	220	22	195
22 x 55	66	60	57	18	M6	55	6	17	360	33	219
24 x 55	66	60	57	18	M6	55	6	17	390	33	200
25 x 55	66	60	57	18	M6	55	6	17	400	32	189
28 x 60	66	60	57	18	M6	55	6	17	390	28	147
30 x 60	66	60	57	18	M6	55	6	17	420	28	138
32 x 75	83	75	72	20	M8	70	4	41	610	38	158
35 x 75	83	75	72	20	M8	70	4	41	670	38	145
38 x 75	83	75	72	20	M8	70	4	41	730	38	134
40 x 75	83	75	72	20	M8	70	4	41	760	38	126
42 x 85	93	85	81	22	M8	80	6	41	1170	56	160
45 x 85	93	85	81	22	M8	80	6	41	1260	56	150
48 x 90	93	85	81	22	M8	80	6	41	1360	57	142
50 x 90	93	85	81	22	M8	80	6	41	1400	56	135
55 x 95	93	85	81	22	M8	80	8	41	2000	73	159
60 x 100	93	85	81	22	M8	80	8	41	2260	75	151
65 x 105	93	85	81	22	M8	80	8	41	2500	77	143
70 x 115	110	100	96	35	M10	80	8	83	3300	94	102
75 x 120	110	100	96	35	M10	80	8	83	3500	93	94
80 x 125	110	100	96	35	M10	80	7	75	3900	98	92
90 x 136	110	100	96	35	M10	80	8	75	5100	113	95
100 x 158	132	120	116	40	M12	100	8	130	8350	167	111