

## Sliding Hubs FS

### Material:

Hub: Steel, zinc-plated and yellow passivated. Spring: Steel, black.

The sliding hubs can be delivered ex stock, pre-drilled with a bush of the length in **bold print**.

### Required bush length:

The required bush length depends on the width of the component to be joined.

Up to Prod. No. 612 006 00:

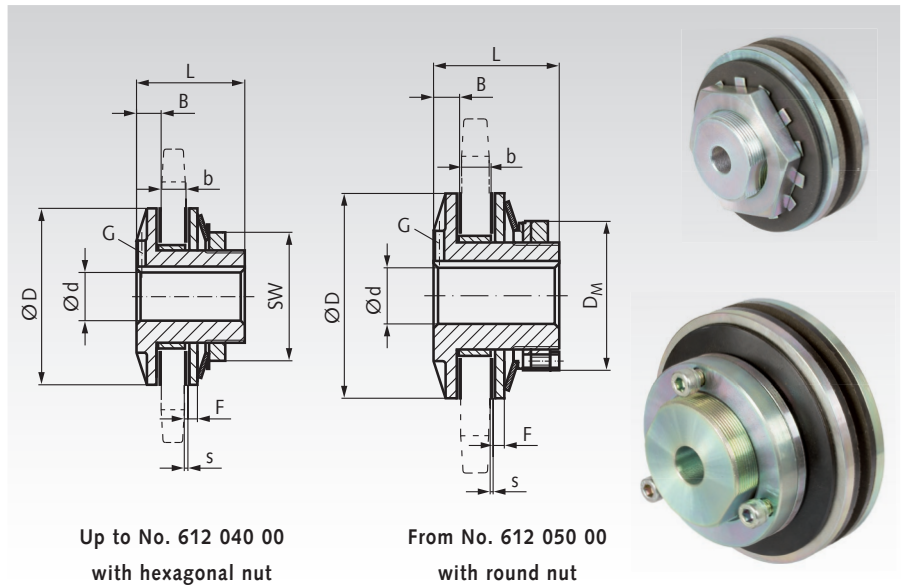
Bush length 4.2 mm for a component width of 5.3 to 6.0 mm.

From Prod. No. 612 010 00:

Bush length in mm = 1.5 x s + b.

**Other bush lengths and customized bores or feather-key grooves against extra charge.**

Ordering Details: e.g.: Product No. 612 000 00, Sliding Hub FS



Up to No. 612 040 00  
with hexagonal nut

From No. 612 050 00  
with round nut

Product No	Size	Springs Qty.	Torque		Speed max. min <sup>-1</sup>	Bore d			Bore of Sprocket d <sub>1</sub> H <sup>8</sup> mm	b <sub>max.</sub> mm	Available Bush Lengths						Weigth prebored kg				
			min. Nm	max Nm		Pilot mm	max. mm	D mm			B mm	#1 mm	#2 mm	#3 mm	F mm	s mm		L mm	SW mm	D <sub>M</sub> mm	G mm
612 000 00**	120-1	2	0,5	5	10000	3,7	10	30	8,5	21,0	6	<b>4,2</b>	-	-	2	2,5	31	27	-	M4	0,15
612 001 00**	120-2	4	1	10	10000	3,7	10	30	8,5	21,0	6	<b>4,2</b>	-	-	2	2,5	31	27	-	M4	0,17
612 005 00**	180-1	1	2	10	8500	5,7	20	45	8,5	34,0	7	<b>4,2</b>	-	-	2	2,5	33	41	-	M4	0,35
612 006 00**	180-2	2	4	20	8500	5,7	20	45	8,5	34,0	7	<b>4,2</b>	-	-	2	2,5	33	41	-	M4	0,37
612 010 00	250-1	1	7	34	3000	10	22	64	16	41,33	9	<b>10,3</b>	12,2	14	5	4	48	50	-	M5	0,70
612 020 00	250-2	2	14	68	3000	10	22	64	16	41,33	9	<b>10,3</b>	12,2	14	5	4	48	50	-	M5	0,72
612 030 00	350-1	1	20	90	2500	13	25	90	19	49,28	16	10,3	<b>13,7</b>	21	5	4	62	60	-	M6	1,36
612 040 00	350-2	2	40	180	2500	13	25	90	19	49,28	16	10,3	<b>13,7</b>	21	5	4	62	60	-	M6	1,40
612 050 00	500-1	1	50	300	1600	19	40	127	21	73,10	16	<b>16</b>	19,5	21	6	4	76	-	92	M8	3,36
612 060 00	500-2	2	100	600	1600	19	40	127	21	73,10	16	<b>16</b>	19,5	21	6	4	76	-	92	M8	3,70
612 070 00	700-1	1	115	690	1200	24	60	178	25	104,88	28	17	<b>20,6</b>	22	6	5	98	-	133	M10	8,60
612 080 00	700-2	2	230	1360	1200	24	60	178	25	104,88	28	17	<b>20,6</b>	22	6	5	98	-	133	M10	8,90

\* ca. -dimensions.

\*\* With round lock washer without edges.

Size	Product No. Friction Disc*	Weight g	Product No. Disc Spring	Weight g	Product No. Threaded Ring or Adjusting Screw	Weight g	Product No. Bushes Length 1	Weight g	Product No. Bushes Length 2	Weight g	Product No. Bushes Length 3	Weight g
120-1	612 003 00	2	612 004 00	3	612 000 07	9	612 000 02	3	-	-	-	-
120-2	612 003 00	2	612 004 00	3	612 000 07	9	612 000 02	3	-	-	-	-
180-1	612 007 00	4	612 008 00	5	612 005 07	44	612 005 02	10	-	-	-	-
180-2	612 007 00	4	612 008 00	5	612 005 07	44	612 005 02	10	-	-	-	-
250-1	612 015 00	12	612 016 00	15	612 017 00	80	612 012 00	25	612 013 00	40	612 014 00	50
250-2	612 015 00	12	612 016 00	15	612 017 00	80	612 012 00	25	612 013 00	40	612 014 00	50
350-1	612 035 00	30	612 036 00	45	612 037 00	140	612 032 00	37	612 033 00	44	612 034 00	85
350-2	612 035 00	30	612 036 00	45	612 037 00	140	612 032 00	37	612 033 00	44	612 034 00	85
500-1	612 055 00	60	612 056 00	120	612 057 00	320	612 052 00	97	612 053 00	135	612 054 00	200
500-2	612 055 00	60	612 056 00	120	612 057 00	320	612 052 00	97	612 053 00	135	612 054 00	200
700-1	612 075 00	140	612 076 00	280	612 077 00	660	612 072 00	103	612 073 00	183	612 074 00	300
700-2	612 075 00	140	612 076 00	280	612 077 00	660	612 072 00	103	612 073 00	183	612 074 00	300

\* 2 pieces required.

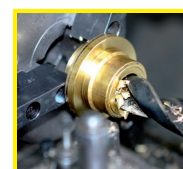
## General

The sliding hubs FS are safety devices working on the positive principle. In case of overload, the disk clamped between the friction disks starts slipping and thus keeps the torque within the permissible limits. The power reengages automatically as soon as normal load is reached again. The hubs are cadmium plated for rust-protection. The drive disk is mounted on a maintenance-free bush made from sintered metal. Up to product no. 612 040 00, the torque is set with a hexagon adjusting screw. From product no. 612 050 00 the torque is set with a threaded ring with 3 hexagon nuts. On first use, the sliding hubs should be run in for about 250 turns at a speed of 60 min<sup>-1</sup>. This should be done at a hub setting of 70-80% of the max. torque for one plate disk. Wear due to frequent slipping reduces the set torque. The figures in the table are calculated for dry operation.

With oil the load can be reduced by 50%. Higher torques, at the same outer diameter, can be achieved with a second spring disk.

Exception: Product No. 612 000 00 has 2 springs, Product No. 612 001 00 has 4 springs.

Mounting instruction at [www.maedler.de](http://www.maedler.de) in the section Downloads.



**Reworking within 24h-service possible. Custom made parts on request.**