



Shaft Mounted SM/SMD/SM-DX

These are shaft mounted coupling enabling axially compact drive space. Rubber coupling on one end.



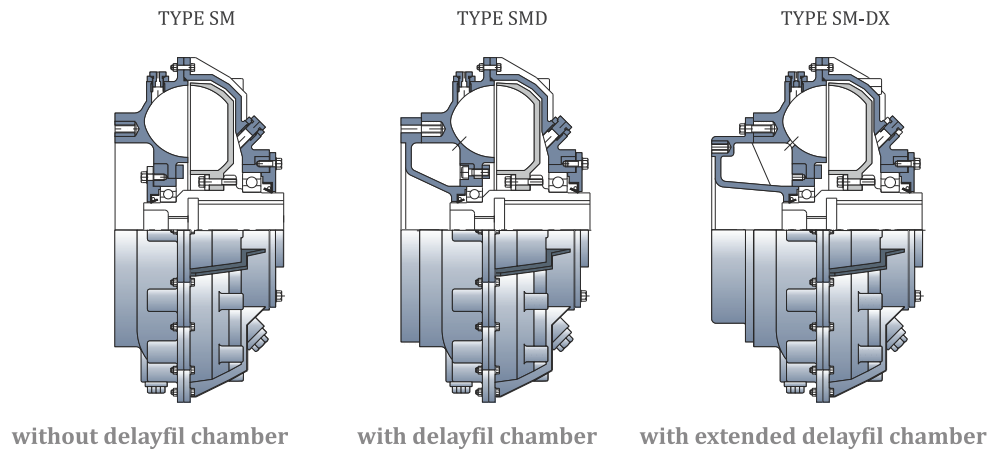
Radially Displaceable HF /HFD /HF-DX

These are radially displaceable coupling enabling prealignment of driving and driven shafts. Metallic disc flexible coupling on both ends. Weight of coupling shared by driving and driven shafts.

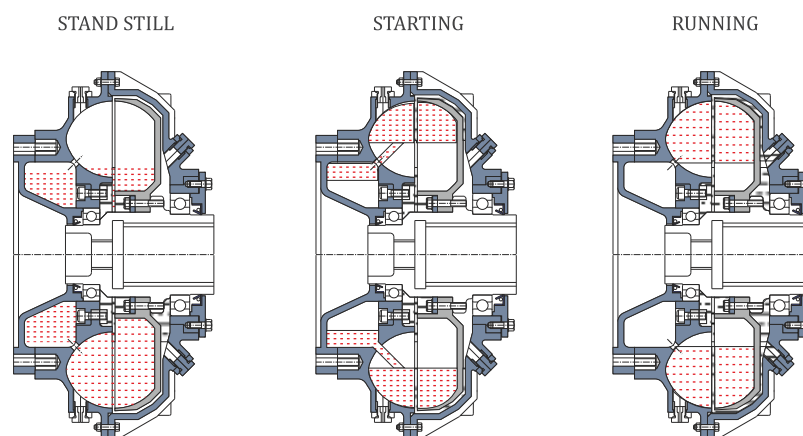
- To satisfy starting and running characteristics of industrial machines Fluidomat offer three circuit types to give starting torque down to 120% of nominal torque.
- Type SM and HF are basic coupling without delayfil chamber. Starting torque adjustable in the range of 180% to 275%.
- Type SMD and HFD are couplings with delayfil chamber. Starting torque adjustable in the range of 140% to 275%.
- Type SM-DX and HF-DX are couplings with extended delayfil chamber. Starting torque adjustable in the range of 120% to 270%.
- Normal operating slip - 2% to 5% depending on coupling size and starting torque value.
- Fusible plug blow off temperature 130°C as standard. Optional 160°C.
- Suitable for two consecutive starts from hot and three from cold.

SM & HF

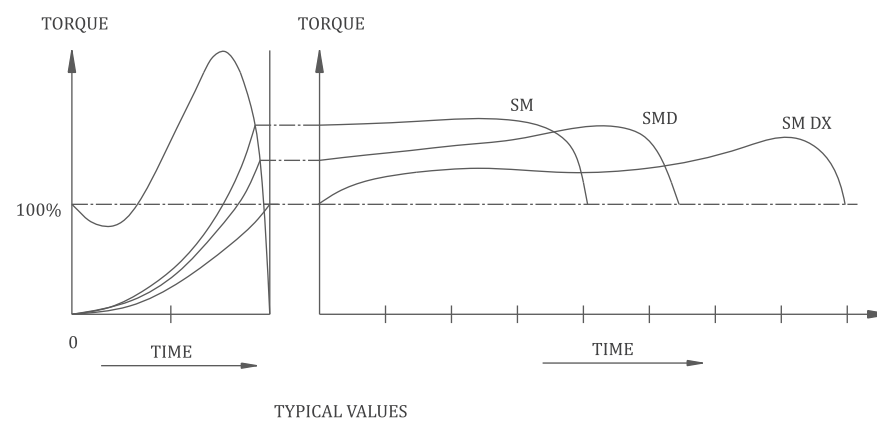
Different Executions of Oil Circuit

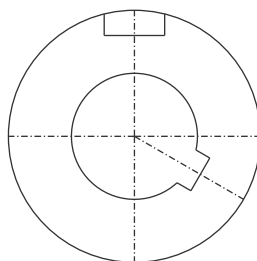
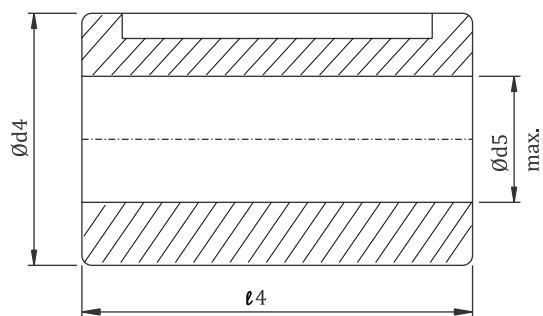


Oil Circuit and Oil Levels with Delayfil Chamber



Starting Torque Characteristics With & Without Delayfil Chamber





Coupling types SM/SMD/SM-DX are supplied in finished bores on the fluid coupling shaft. However where it is not possible to specify finished bores at the time of ordering, we can provide a separate shaft bush.

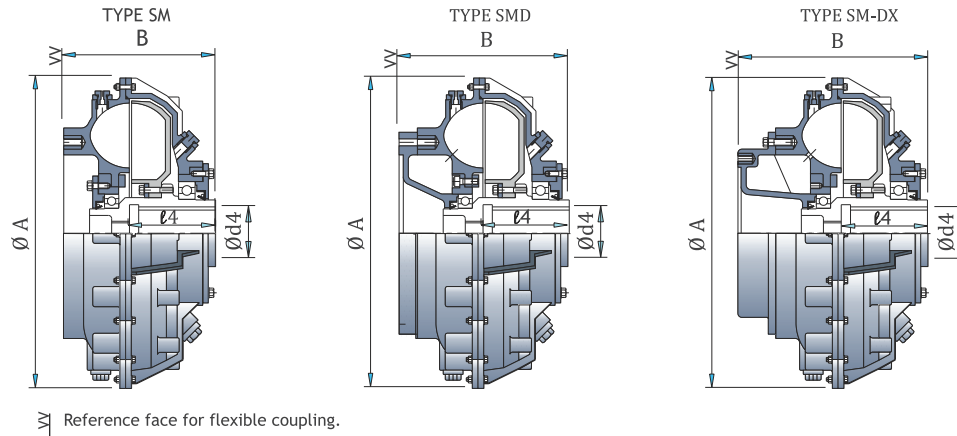
The allowable maximum bore in the shaft bush is denoted by Ød5 shown in the dimension table.

Rating Table

COUPLING MODEL	Maximum Ratings in KW at Different Input Speeds RPM.								
SM/SMD/SM-DX HF/HFD/HF-DX	600 RPM	730 RPM	900 RPM	970 RPM	1200 RPM	1470 RPM	1800 RPM	*3000 RPM	*3600 RPM
1	--	0.5	0.9	1.2	2.2	4	7.5	20	26
2	--	0.9	1.7	2.2	4.1	7.5	13.7	30	36
3	--	1.3	2.4	3	6	11	18	38	45
4	1	2	4	5	9	16.5	22	45	--
5	2	4	7	9	16.3	30	42	70	--
6	3	5	9	11	22	40	60	110	--
7	4	8	15	18	34	62	85	140	--
8	6	10	18	23	44	80	120	--	--
8 B	9	16	29	36	68	125	180	--	--
9	12	22	41	52	98	172	246	--	--
9 B	16	29	54	68	129	228	300	--	--
10	22	39	73	91	172	275	370	--	--
10 B	32	57	107	134	253	373	500	--	--
11	47	85	158	198	374	525	775	--	--
12	82	148	278	348	600	750	--	--	--
13	163	293	550	620	850	1100	--	--	--
14	277	500	758	850	1250	--	--	--	--
15	472	850	1148	1250	--	--	--	--	--
16	583	1050	1400	1500	--	--	--	--	--
16 DC	900	1500	1862	2000	--	--	--	--	--

*Coupling for 3000 & 3600 RPM should be selected only after our approval is obtained.

SM & HF



Technical Specification and Dimension Table for SM,SMD,SM-DX couplings

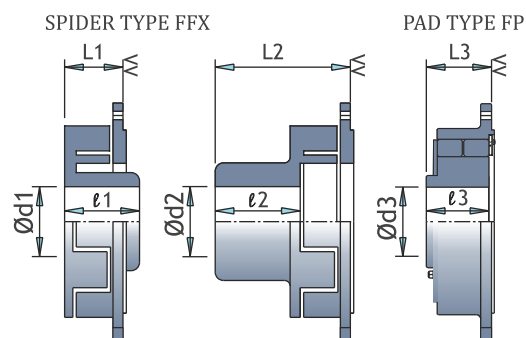
SM SMD SM-DX	ØA	B			Ød4 max.	Ød5 max.	l4 max.	*Dry Weight Kg.			Max. Oil Filling Liters			Threads 'M' For Coupling Withdrawl	Connected Flexible Coupling Model
		SM	SMD	SMD-DX				SM	SMD	SMD-DX	SM	SMD	SMD-DX		
1	295	147	--	--	38	--	86	24	--	--	1.9	--	--	3/4" BSW	FFX-1
2	328	153	--	--	48	--	90	27	--	--	2.8	--	--	3/4" BSW	FFX-1
3	342	158	213	247	42	28	80	27	30	32	2.9	3.9	4.3	3/4" BSW	FFX-1
4	367	160	215	249	50	36	90	30	34	35	3.8	4.3	4.6	3/4" BSW	FFX-1
5	406	190	220	280	65	50	110	40	44	45	4.9	5.8	6.7	1" BSW	FFX-2
6	435	213	239	310	70	53	120	55	59	61	6.5	7.7	9.6	1" BSW	FFX-3
7	471	218	263	333	80	63	135	66	71	73	8	9.4	11.3	1" BSW	FFX-3
8	505	238	279	359	80	63	140	77	83	85	9.7	11.5	14.8	1" BSW	FFX-4
8 B	553	250	290	380	95	70	155	96	102	105	14.5	16.1	19.1	1 1/4" BSW	FFX-4
9	584	255	305	385	95	80	155	104	110	113	16.1	19.3	20.8	1 1/4" BSW	FFX-4
9 B	620	270	335	430	95	80	160	150	165	168	19.4	21.5	24.7	1 1/2" BSW	FP-1/FFX-5
10	644	280	329	424	110	85	170	170	180	185	25.1	28.1	33.9	1 1/2" BSW	FP-1/FFX-5
10 B	714	310	355	451	110	85	190	210	225	230	31.8	36.5	45.4	1 1/2" BSW	FP-2A
11	751	320	375	471	120	100	200	254	268	273	37.1	42.9	49	# Ø50-8P	FP-2A
12	845	369	445	565	130	110	240	310	345	355	51.3	65.6	71.5	# Ø50-8P	FP-2B
13	960	441	489	619	150	--	270	440	480	495	72.4	91.3	106.6	# Ø50-8P	FP-3
14	1104	451	494	624	160	--	275	682	730	745	114.7	131.9	153.9	# Ø65-16P	FP-4A
15	1230	485	594	724	160	--	275	850	920	940	147.6	181.4	193.1	# Ø75-16P	FP-4B
16	1298	586	668	798	190	--	320	--	1250	--	189.2	241.7	268.4	# Ø75-16P	**
**16 DC	1298	831	--	--	190	--	320	--	1800	--	--	--	--	Ø75-16P	**

The min bore d4 should be > withdrawal bolt dia M by atleast 3 mm.

* With Connected flexible Coupling. ** 16-Rfer to us for Detail.

Square threads.

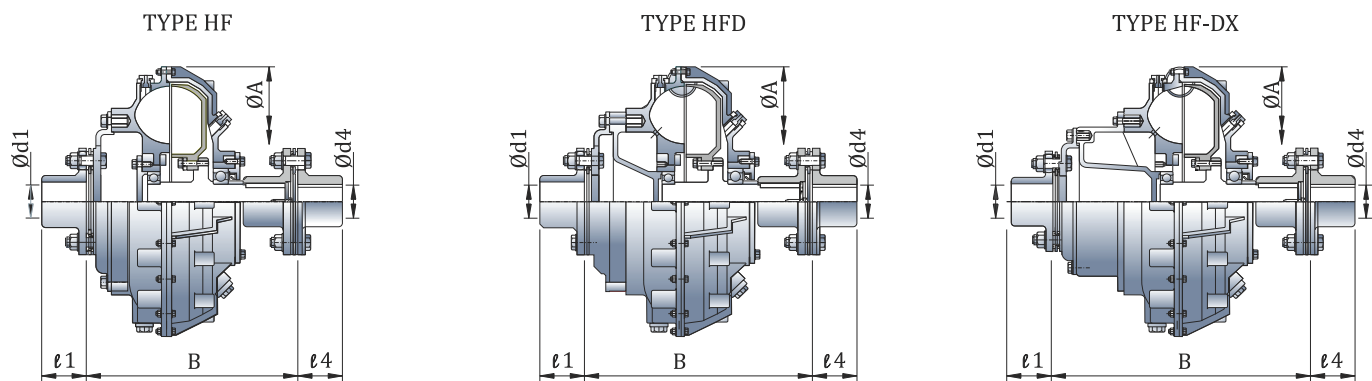
Flexible Coupling



Reference face for flexible coupling.

Connected Flexible Coupling Model Wise

Model SM- SMD- SM-DX	Internal Hub			External Hub			Model SM- SMD- SM-DX	Pad Type Coupling		
	Ø d1 Max.	l 1	L1	Ø d2 Max.	l 2	L2		Ø d3 Max.	l 3	L3
3,4	48	67	67	60	75	130	9B,10	100	110	120
5	60	72	72	75	90	150	10B,11	120	140	151
6,7	80	92	72	90	110	170	12	140	155	167
8,8B,9	90	102	87	100	120	195	13	160	180	179
9B,10	-	-	-	125	150	230	14	160	180	194
							15,16	180	200	214



Technical Specification and Dimension Table for HF, HFD, HF-DX Couplings

Model HF, HFD, HF-DX	ØA	B			Ø d1 & Ød4 max	l 1 & l 4	*Dry Weight Kg.			Max. Oil Filling In Litres			Connected Flexible Coupling Model
		HF	HFD	HF-DX			HF	HFD	HF-DX	HF	HFD	HF-DX	
3	342	239	295	329	55	70	25	28	29	2.9	3.9	4.3	FXC-I
4	367	264	320	354	60	70	34	37	39	3.8	4.3	4.6	FXC-II
5	406	285	315	375	60	70	48	51	54	4.9	5.8	6.7	FXC-II
6	435	332	358	429	75	95	64	67	70	6.5	7.7	9.6	FXC-III A
7	471	345	390	460	75	95	81	84	86	8	9.4	11.3	FXC-III A
8	505	366	407	487	90	95	96	102	107	9.7	11.5	14.8	FXC-III
8 B	553	405	445	535	90	110	116	122	127	14.5	16.1	19.1	FXC-III
9	584	395	445	526	90	110	124	130	135	16.1	19.3	20.8	FXC-III
9 B	620	446	511	589	110	125	168	180	184	19.4	21.5	24.7	FXC-IV A
10	644	468	517	611	110	125	172	184	188	25.1	28.1	33.9	FXC-IV A
10 B	714	491	537	632	110	125	217	233	237	31.8	36.5	45.4	FXC-IV A
11	751	511	566	661	120	125	281	292	300	37.1	42.9	49	FXC-IV
12	845	614	700	820	145	200	400	421	430	51.3	65.6	71.5	FXC-V
13	960	697	745	875	145	200	570	596	605	72.4	91.3	106.6	FXC-V
14	1104	770	813	943	220	200	640	688	703	114.7	131.9	153.9	FXC-VI
15	1230	777	886	1016	220	200	810	880	900	147.6	181.4	193.1	FXC-VI
16	1298	882	965	1095	220	200	1280	1320	1380	189.2	241.7	268.4	FXC-VI

* With Connected flexible Coupling.
Coupling for 3000 RPM should be selected only after our approval is obtained.

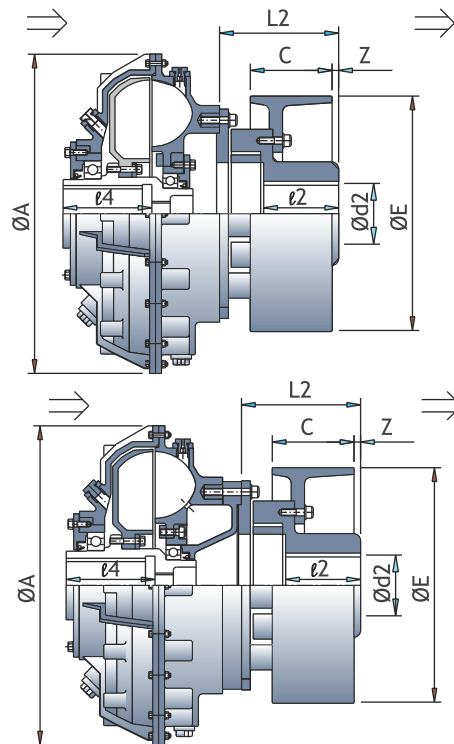
SM & HF

BRAKE DRUM MOUNTING

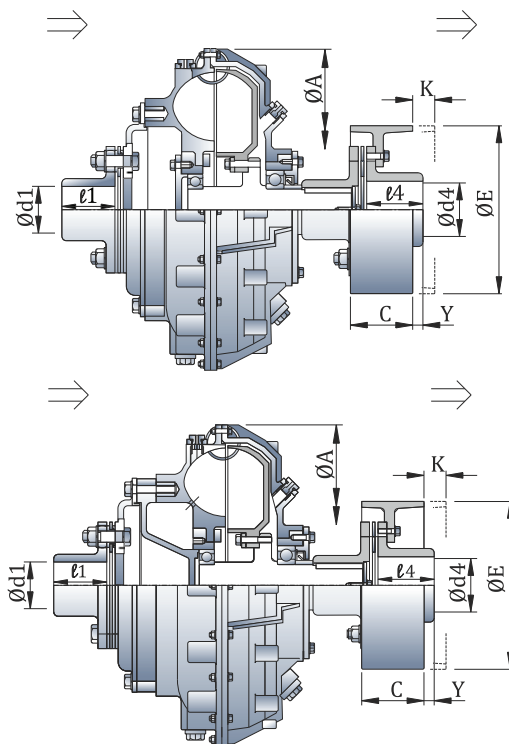
TYPE SM/SMD/SM-DX WITH BRAKE DRUM (Inner Wheel Drive)

Flexible Coupling Model	Spider Type Coupling				
	ØE	C	Z	ℓ2	L2
FFX-1	200	75	20	75	130
	250	95	0	75	130
FFX-2	250	95	20	90	150
	300	118	05	90	158
	315	118	05	90	158
FFX-3	300	118	17	110	170
	315	118	17	110	170
	400	150	05	110	190
FFX-4	300	118	42	120	195
	315	118	42	120	195
	400	150	10	120	195
	500	190	05	120	230
* FFX-5	400	150	29	150	230
	500	190	05	150	246

* For Fluid Coupling Model
SM/SMD/SM-DX -9B & 10



TYPE HF/HFD/HF-DX WITH BRAKE DRUM (Outer Wheel Drive)



For radial displacement of Fluid Coupling the Brake drum shall need to be shifted by dimension 'K' As shown. The Machine/G.B. shaft length /space should be adequate for this shift of B.D.*

Flexible Coupling Model	Metallic disc Coupling			
	ØE	C	Y	K* Min
FXC-I	160	75	21	26
	200	75	21	26
FXC-II	200	75	19	26
	250	95	10	35
FXC-III	250	95	35	35
	300	118	32	55
	315	118	32	55
FXC-III	250	95	48	35
	300	118	30	55
	315	118	30	55
	400	150	18	73
FXC-IVA	300	118	52	55
	315	118	52	55
	400	150	40	65
	500	190	05	70
FXC-IV	400	150	40	65
	500	190	05	70
	600	236	(-)31	80
	630	236	(-)31	80
FXC-V	500	190	70	70
	600	236	34	70
	630	236	34	70
	710	265	25	90