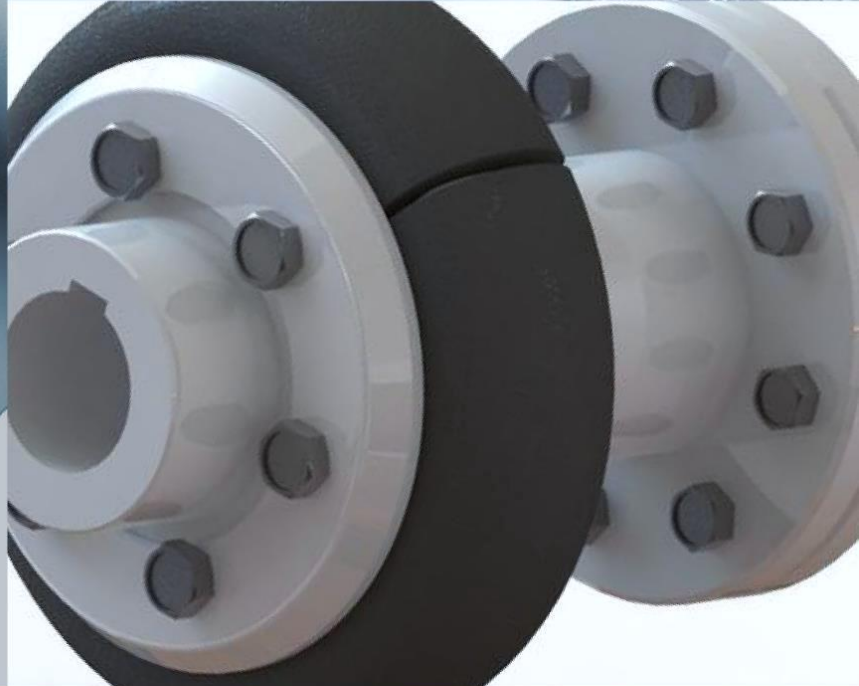


TAGEX

COUPLINGS & BUSHES





COUPLINGS & BUSHES

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COUPLING RANGES - Flex Pro Coupling

TAGEX Flex-Pro Couplings accommodate angular misalignment, parallel misalignment and end float, or any combination. They cushion shock loads to lengthen machine life. They have been proved by many years of successful applications in the steel mill, cement, mines, rubber, paper, lumber and other heavy industries. There are 5 points in saving in less downtime and maintenance.



1. No Lubrication: No lubrication is necessary which makes **TAGEX Flex-Pro Couplings** the ideal coupling for applications where cleanliness is essential. Especially in food, textile and chemical plants where couplings are inaccessible or difficult to maintain.
2. Accommodates Misalignment: **TAGEX Flex-Pro Couplings** have an angular misalignment capacity up to 4°.
3. Temperature Range: Natural rubber compounds have a working ambient temperature range of $\pm 50^{\circ}\text{C}$. Chloroprene rubber compounds are available for use in adverse operations (e.g. oil or grease contamination, fire-resistance and anti-static-FRAS properties required) and have a temperature range from -15°C to $+70^{\circ}\text{C}$.
4. Cushions Shock Loads: Most industries machinery is subject to shock loads in varying degrees. These loads induce high stresses which shorten the life of the machine. Tyre couplings cushion these shock loads, smoothing out the load for both driver and driven machine.
5. Torsional Vibration: Internal combustion engines develop torsional vibration from the firing of cylinders, the amplitude of which increases greatly at critical points in the speed range. Tyre couplings dampen these destructive vibrations.

TAGEX also designs and manufactures non-standard Couplings for customers' special requirements. Please ring us or your local **TAGEX** distributors to get necessary information

Service Factor

Class	Duty Hours/Day	Power Source		
		Electric Motor or Steam Turbine	Steam Engine or Petrol Engine with 4 or cylinders	Diesel or Gas Engine
Even Loaded, low torque start	upto 8	0.8	1.3	1.7
	8-upto 16	0.9	1.4	1.8
	over 16	1	1.5	1.9
Uneven Loaded, Moderate shock or torsional loads. (Most Common Application)	upto 8	1.3	1.8	2.3
	8-upto 16	1.4	1.9	2.4
	over 16	1.5	2	2.5
Heavy, High peak torsional loads.	upto 8	1.8	2.3	2.8
	8-upto 16	1.9	2.4	2.9
	over 16	2	2.5	3
Heavy and Shock Loaded, High peak torsional loads.	upto 8	2.3	2.8	3.3
	8-upto 16	2.4	2.9	3.4
	over 16	2.5	3	3.5

Coupling Selection:

1	Select Service Factor in TAGEX Coupling Service Factor Table
2	Multiply Service Factor by drive motor power (KW)-Design Power
3	Calculate the Torque required: Design Power (KW) 9550 X Motor Speed (rpm)
4	Select coupling size from the Physical Characteristic and Dimension tables.

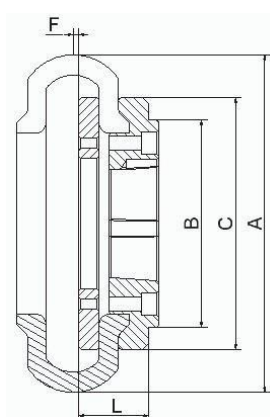
TAGEX Designation Example:

F100B Size 100, Pilot Bore
F100BK65 Size 100, 65 mm bore with standard keyway
F100R Size 100, F type, bush fitting from face side
F100S Size 100, H type, bush fitting from hub side
F100N Tyre made from natural rubber

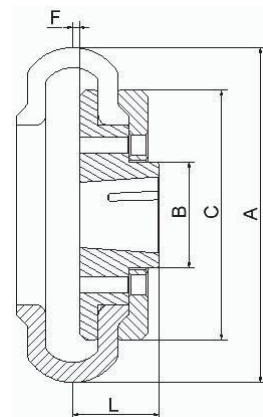
Physical Characteristics:

Flex-Pro Coupling Size	Max. Speed rpm	Torque (NM)		Torsional Stiffness per Degree (Nm/°)	Max. Parallel Misalignment (mm)	Max. End Float ($\pm$ mm)	Screw Size	Number of Screws	Tightening Torque NM
		@1.0 Service Factor	Max. Allowable						
F040	5730	25	65	5	1.1	1.3	M5	4	6
F050	4500	65	160	13	1.3	1.7	M6	4	11
F060	4000	125	320	26	1.6	2.0	M6	5	11
F070	3600	250	490	41	1.9	2.3	M8	5	28
F080	3100	380	760	63	2.1	2.6	M8	6	28
F090	2800	500	1100	91	2.4	3.0	M10	6	55
F100	2600	670	1520	126	2.6	3.3	M10	6	55
F110	2300	880	2140	178	2.9	3.7	M10	6	55
F120	2100	1330	3550	296	3.2	4.0	M12	6	99
F140	1840	2330	5640	470	3.7	4.6	M12	8	99
F160	1560	3770	9340	778	4.2	5.3	M16	8	245
F180	1500	6270	16450	1371	4.8	6.0	M16	12	245
F200	1300	9330	23500	1959	5.3	6.6	M16	12	245
F220	1100	11600	33120	2760	5.8	7.3	M20	12	477
F250	1000	14680	42740	3562	6.6	8.2	M20	25	477

COUPLING RANGES - Flex Pro Coupling



F040-F060



F070-F250

Dimensions: (mm)

Flex-Pro Coupling Size	Type	Size	Max. Bore	A	B	C	F	L	Wrench Clearance	Mass Kgs	Moment of inertia kgm ²
F040	B	Pilot Bore	32	104	-	82	11	33	-	1.00	0.00066
	F	1008	25		-			33	29	0.93	0.00064
	H	1008	25		-			33	29	0.93	0.00064
F050	B	Pilot Bore	38	133	79	100	13	45	-	1.89	0.0018
	F	1210	32		79			38	38	1.36	0.0015
	H	1210	32		79			38	38	1.36	0.0015
F060	B	Pilot Bore	45	165	70	125	17	55	-	3.52	0.0050
	F	1610	42		103			42	38	2.28	0.0038
	H	1610	42		103			42	38	2.28	0.0038
F070	B	Pilot Bore	50	187	80	144	12	47	-	3.17	0.0057
	F	2012	50		80			44	42	2.55	0.0051
	H	1610	42		80			42	38	2.69	0.0053
F080	B	Pilot Bore	60	211	98	167	13	55	-	5.24	0.0206
	F	2517	60		97			58	48	4.15	0.0122
	H	2012	50		98			45	42	4.39	0.0143
F090	B	Pilot Bore	70	235	112	188	14	63.5	-	7.53	0.0248
	F	2517	60		108			59.5	48	6.37	0.0247
	H	2517	60		108			59.5	48	6.37	0.0247
F100	B	Pilot Bore	80	254	125	216	14	70.5	-	10.93	0.0725
	F	3020	75		120			65.5	55	8.64	0.0420
	H	2517	60		113			65.5	48	9.43	0.0474
F110	B	Pilot Bore	90	279	128	233	13	75.5	-	13.50	0.1053
	F	3020	75		134			63.5	55	10.86	0.0643
	H	3020	75		134			63.5	55	10.86	0.0643
F120	B	Pilot Bore	100	314	143	264	15	84.5	-	19.20	0.1633
	F	3525	100		140			79.5	67	15.18	0.1228
	H	3020	75		140			65.5	55	16.32	0.1268
F140	B	Pilot Bore	130	359	178	311	16	110.5	-	31.81	0.4518
	F	3525	100		178			81.5	67	25.81	0.3732
	H	3525	100		178			81.5	67	25.81	0.3732
F160	B	Pilot Bore	140	402	187	345	15	117	-	42.53	0.7369
	F	4030	115		197			92	80	34.26	0.5944
	H	4030	115		197			92	80	34.26	0.5944
F180	B	Pilot Bore	150	470	200	398	23	137	-	57.60	1.3022
	F	4535	125		205			112	89	47.20	1.0776
	H	4535	125		205			112	89	47.20	1.0776
F200	B	Pilot Bore	150	508	200	429	24	138	-	71.50	1.8466
	F	4535	125		205			113	89	61.00	1.5915
	H	4535	125		205			113	89	61.00	1.5915
F220	B	Pilot Bore	160	562	218	474	28	154.5	-	90.00	2.8293
	F	5040	125		223			129.5	92	77.00	2.4307
	H	5040	125		223			129.5	92	77.00	2.4307
F250	B	Pilot Bore	190	628	254	532	30	161.5	-	112.00	3.6452

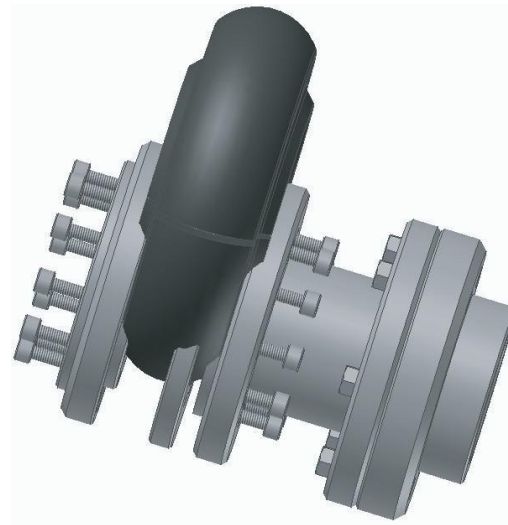
IMPORTANT NOTE – Where torsional vibrations occur, for example, internal combustion engines or reciprocating compressor or pump application, check for the possible development of damaging large-amplitude vibration. Also consider the coupling's torsional stiffness coefficient, listed in Physical Characteristics, as it relates to the equipment manufacturers analysis of the sys-

CAUTION: In some drive systems, it may be necessary to limit the axial movement and thrust force. Systems containing sleeve bearing, internal combustion engines, herring-born gear sets etc., may be sensitive to axial movement. Where required, consultant us for coupling selection or devices to limit axial movement.

COUPLING RANGES - H Type Flex Pro Spacer

By comprising a **TAGEX Flex-Pro Couplings** (size F40-F140) with a spacer coupling, **TAGEX H Type Flex-Pro Spacer Couplings** are specifically designed for high frequency on-off and high inertia start application where it is suitable for the **TAGEX S Type Flex-Pro Couplings**.

TAGEX also designs and manufactures non-standard Spacer Couplings for customers' special requirements. Please ring us or your local **TAGEX Distributors** to get necessary information.



Dismantling:

1	Loosen the clamping screws on Flex-Pro Coupling and remove tyre
2	Loosen the clamping screws on the Spacer
3	Remove the center units as shown above

Dismantling: As shown on S Type

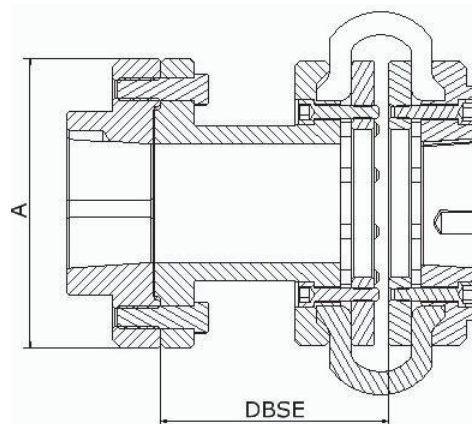
Spacer Selection:

1	Follow the same selection of Flex-Pro Couplings
2	Obtain the spacer size from DBSE table and Dimension table
3	When spacer size cannot be selected from information given, please contact TAGEX for help

TAGEX Designation Example:

FM12/104/F040

FM12	Size 12, taper bore size 1210
080	DBSE 104 mm
F040	Flex-Pro Coupling Size



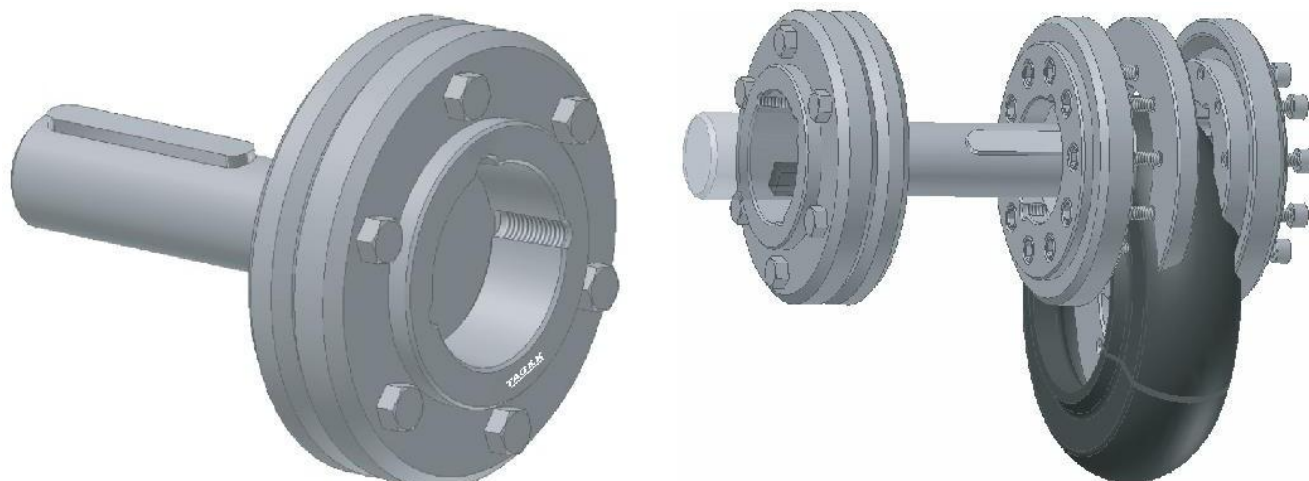
DBSE and Dimensions:

Spacer Coupling Code	Spacer Size	Nominal DBSE	Tyre Coupling Flange	Spacer Bush Size	A	Screws No.x Size	Tightening Torque NM	Mass kgs	Moment of inertia Kg ^m ² 10 ⁻³
FM12/104/F040	FM12	104	F040	1210	118	6 x M6	11	4.2	0.007726
FM16/111/F050	FM16	111	F050	1615	127	6 x M6	11	5	0.010256
FM16/120/F060	FM16	120	F060	1615	127	6 x M8	28	6	0.012347
FM25/133/F070	FM25	133	F070	2517	178	6 x M8	28	11.1	0.044367
FM25/142/F080	FM25	142	F080	2517	178	6 x M8	28	13.2	0.052724
FM30/163/F090	FM30	163	F090	3030	216	6 x M8	28	21.5	0.126935
FM30/169/F100	FM30	169	F100	3030	216	6 x M8	28	24.5	0.143306
FM30/170/F110	FM30	170	F110	3030	216	6 x M8	28	26.2	0.179919
FM35/180/F120	FM35	180	F120	3535	248	6 x M10	55	37.7	0.333915
FM40/203/F140	FM40	203	F140	4040	298	6 x M10	55	61.4	0.754356
FM45/224/F160	FM45	224	F160	4545	330	6 x M10	55	85.6	1.305206
FM50/289/F200	FM50	289	F200	5050	362	6 x M10	55	146	3.440546

COUPLING RANGES - S Type Flex Pro Spacer

By comprising a **TAGEX Flex-Pro Couplings** (size F40-F140) with a spacer coupling, **TAGEX S Type Flex-Pro Spacer Couplings** are specifically designed for motor-pump installations where it is undesirable to move the connected units when servicing impellers, packing glands and the like. The center assembly of coupling can be compressed, removed and reinstalled without disturbing the driving or driven machines. This maintenance time reduction feature is valuable on pumps, compressors and many other applications. All spacer are taper bored to receive standard taper bushes which permit quick and easy application to shafts of different diameters without costly re-boring. The standard production range is primarily for standard DBSE (Distance Between Shaft Ends) of 100, 140 and 180mm.

TAGEX also designs and manufactures non-standard Spacer Couplings for customers' special requirements. Please ring us or your local **TAGEX Distributors** to get necessary information.



Dismantling:

1	Loosen the clamping screws on Flex-Pro Coupling and remove tyre
2	Loosen the clamping screws on the Spacer
3	Remove the center units as shown above

Spacer Selection:

1	Follow the same selection of Flex-Pro Couplings
2	Obtain the spacer size from DBSE table and Dimension table
3	When spacer size cannot be selected from information given, please contact TAGEX for help

TAGEX Designation Example:

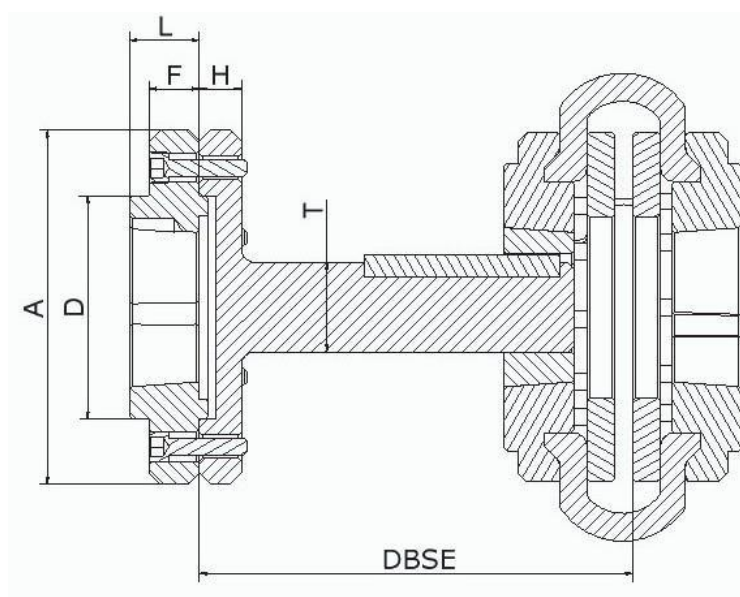
SM12/080/F040

SM12	Size 12, taper bore size 1210
080	DBSE 80 mm
F040	Flex-Pro Coupling Size

DBSE

Tyre Coupling Size	Distance Between Shaft Ends (mm)																			
	SM12		SM16				SM25						SM30				SM35			
	80-100		100		140		100		140		180		140		180		140		180	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
F040	80	100	100	113	140	150														
F050			100	116	140	156														
F060			100	124	140	164														
F070							100	114	140	154	180	194								
F080							100	117	140	157	180	197								
F090									140	158	180	198								
F100													140	158	180	198				
F110													140	156	180	196				
F120																	140	160	180	200
F140																	140	163	180	203

COUPLING RANGES - S Type Flex Pro Spacer



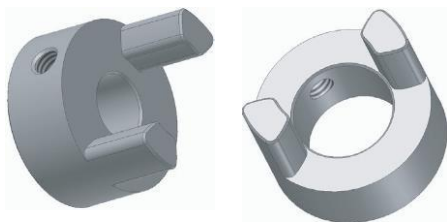
Dimensions: (mm)

Spacer Coupling Code	Spacer Size	Nominal DBSE	Tyre Coupling Flange	Spacer Bush Size	A	D	L	F	H	T	Screws No.x Size	Tightening Torque NM	Mass kgs	Moment of inertia Kgm ² 10 ⁻³
SM12/080/F040	SM12	80	F040	1210	118	83	25	14	15	25	6 x M6	11	2.56	9.837
SM12/100/F040	SM12	100	F040	1210	118	83	25	14	15	25	6 x M6	11	2.56	10.255
SM16/100/F040	SM16	100	F040 ¹	1610	127	80	25	18	15	32	6 x M8	28	3.16	14.281
SM16/140/F040	SM16	140	F040 ¹	1610	127	80	25	18	15	32	6 x M8	28	3.42	15.293
SM16/100/F050	SM16	100	F050	1610	127	80	25	18	15	32	6 x M8	28	3.15	14.281
SM16/140/F050	SM16	140	F050	1610	127	80	25	18	15	32	6 x M8	28	3.41	15.293
SM16/100/F060	SM16	100	F060	1610	127	80	25	18	15	32	6 x M8	28	3.15	14.281
SM16/140/F060	SM16	140	F060	1610	127	80	25	18	15	32	6 x M8	28	3.41	15.293
SM25/100/F070	SM25	100	F070 ²	2517	178	123	45	22	16	48	6 x M10	55	7.80	75.100
SM25/140/F070	SM25	140	F070 ²	2517	178	123	45	22	16	48	6 x M10	55	8.40	79.600
SM25/180/F070	SM25	180	F070 ²	2517	178	123	45	22	16	48	6 x M10	55	8.95	84.020
SM25/100/F080	SM25	100	F080	2517	178	123	45	22	16	48	6 x M10	55	7.80	75.100
SM25/140/F080	SM25	140	F080	2517	178	123	45	22	16	48	6 x M10	55	8.40	79.600
SM25/180/F080	SM25	180	F080	2517	178	123	45	22	16	48	6 x M10	55	8.95	84.020
SM25/140/F090	SM25	140	F090	2517	178	123	45	22	16	48	6 x M10	55	8.40	79.600
SM25/180/F090	SM25	180	F090	2517	178	123	45	22	16	48	6 x M10	55	8.95	84.020
SM30/140/F100	SM30	140	F100	3020	216	146	51	29	20	60	8 x M12	99	14.50	201.542
SM30/180/F100	SM30	180	F100	3020	216	146	51	29	20	60	8 x M12	99	15.40	211.835
SM30/140/F110	SM30	140	F110	3020	216	146	51	29	20	60	8 x M12	99	14.50	201.542
SM30/180/F110	SM30	180	F110	3020	216	146	51	29	20	60	8 x M12	99	15.40	211.853
SM35/140/F120	SM35	140	F120	3525	248	178	65	34	20	80	8 x M16	245	22.20	330.512
SM35/180/F120	SM35	180	F120	3525	248	178	65	34	20	80	8 x M16	245	23.80	349.533
SM35/140/F140	SM35	140	F140	3525	248	178	65	34	20	80	8 x M16	245	22.20	330.512
SM35/180/F140	SM35	180	F140	3525	248	178	65	34	20	80	8 x M16	245	23.80	349.533

¹ F40 B Type must be used to fit spacer shaft

² F Type must be used to fit spacer shaft

COUPLING RANGES - Jaw Coupling



TAGEX Jaw Couplings are used in the application in light-to-medium duty range. They are more compact in design and cost effective. They have an angular misalignment capacity of up to 1° and parallel misalignment up to 0.4 mm. The insert spider are made from polyurethane with working temperature ranging from -60°C to +180°C. The coupling can continue to transmit power even if the spider becomes severely damaged. So, the maintenance and downtime is minimal.



From size L035-L075



From size L090-L225



Taper bore can be arranged by special requirement

Service Factor

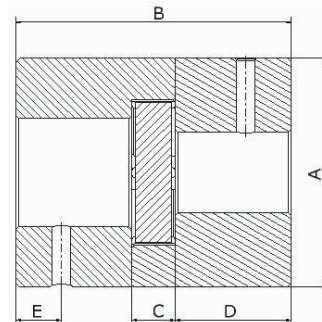
Class	Duty Hours/Day	Power Source		
		Electric Motor or Steam Turbine	Steam Engine or Petrol Engine with 4 or cylinders	Diesel or Gas Engine
Even Loaded, low torque start	upto 8	1	1.5	2
	8-upto 16	1.12	1.7	2.2
	over 16	1.25	1.9	2.5
Uneven Loaded, Moderate shock or torsional loads. (MosCommon)	upto 8	1.5	2	2.5
	8-upto 16	1.7	2.2	2.8
	over 16	1.9	2.5	3.2
Heavy and Shock Loaded, High peak torsional loads.	upto 8	2	2.5	3
	8-upto 16	2.2	3	3.3
	over 16	2.5	3.5	3.8

TAGEX Designation Example:

L095	Standard Pilot Bore
L095B20	Bored to 20 mm H7
L095BK20	Bored to 20 mm H7, with BS4235 Part1 1972 Keyway
L095SX	Spider

Coupling Selection:

1	Select Service Factor in TAGEX Coupling Service Factor Table
2	Multiply Service Factor by drive motor power (KW)-Design Power
3	Calculate the Torque required: $9550 \times \frac{\text{Design Power (KW)}}{\text{Motor Speed (rpm)}}$
4	Select coupling size from the specification table below



Specification Table:

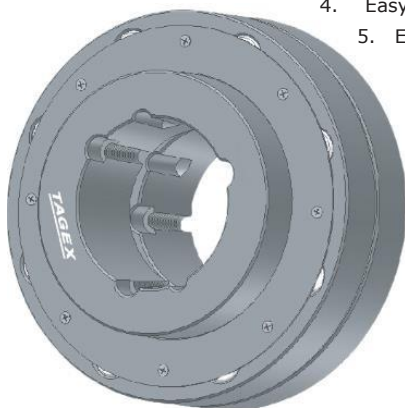
Size	Max. Bore mm	A mm	B mm	C mm	D mm	E mm	Set Screw	Torque NM	Spider Size	Max. Speed rpm	Weight Kgs
L035	9	16	21	8	6.5	4	M3	5	L035SX	40000	0.03
L050	15	27.5	44	12	16	6.5	M6	43	L050SX	23000	0.06
L070	19	35	51	13	19	9.5		57	L070SX	18000	0.02
L075	24	44.5	54	13	20.5	8		110	L075SX	14000	0.20
L090	28	54	54	13	20.5	8.5		190	L090SX	22468	0.31
L095	28	54	64	13	25.5	11	M8	256	L100SX	22468	0.38
L099	35	64	74	19	27.5	12		393		17900	0.54
L100	35	64	89	19	35	12	M10	564		17900	0.67
L110	42	84	108	23	42.5	20		1025	L110SX	13640	1.45
L150	48	96	115	25	45	22		1623	L150SX	7640	2.04
L190	55	115	133	25	54	22	M12	2050	L190SX	5480	3.75
L225	60	127	153	25	64	25		3075	L225SX	4960	5.45

Over size L075, taper bore also can be arranged. Please consult TAGEX for details.

COUPLING RANGES - Flex Pin Coupling

TAGEX Flex-Pin Couplings accommodate angular misalignment, parallel misalignment and end float, or any combination. They are also designed for 'Fail Safe'. Restoring forces generated by angular or radial Misalignment are minimized by the spherically formed pins. Special pins are available on request in order to protect the machine having unacceptable vibration and torque surges.

1. High torque rating.
2. Temperature range from -15°C to +70°C.
3. Fail Safe design
4. Easy assembly and maintenances
5. Easy assembly



Service Factor

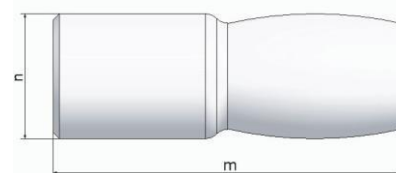
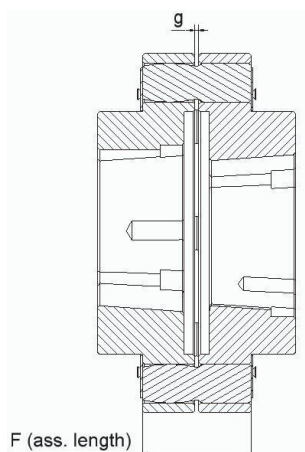
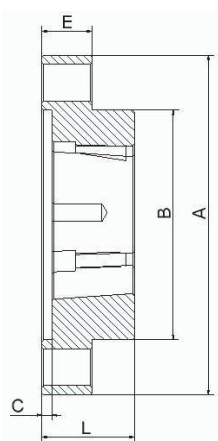
Class	Duty Hours/Day	Power Source	
		Electric Motor or Steam Turbine	Steam Engine or Petrol Engine with 4 or cylinders
Even Loaded, low torque start	upto 8	1.5	1.8
	8-upto 16	1.6	2
	over 16	1.8	2.2
Uneven Loaded, Moderate shock or torsional loads. (Most Common Application)	upto 8	1.7	2
	8-upto 16	1.9	2.2
	over 16	2.1	2.5
Heavy, High peak torsional loads.	upto 8	1.9	2.2
	8-upto 16	2.1	2.5
	over 16	2.4	2.8
Heavy and Shock Loaded, High peak torsional loads.	upto 8	2.3	2.5
	8-upto 16	2.5	2.8
	over 16	2.8	3

Coupling Selection:

1	Select Service Factor in TAGEX Coupling Service Factor Table
2	Multiply Service Factor by drive motor power (KW)-Design Power
3	Calculate the Torque required: $9550 \times \frac{\text{Design Power (KW)}}{\text{Motor Speed (rpm)}}$
4	Select coupling size from the specification table below

TAGEX Designation Example:

F0370F	Size 370, F type, bush fitting from face side
F0370H	Size 370, H type, bush fitting from hub side
F0370N	Pin with standard max. torque rating
F0370X	Pin with customised max. torque rating, please state preferable Pin breaking torque



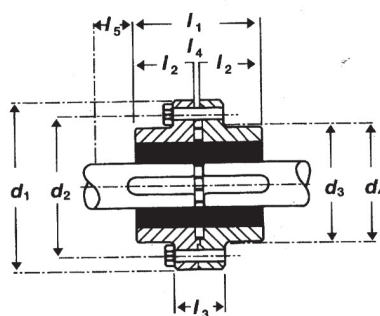
Physical Characteristics and Dimensions: (mm)

Size	Taper	A	B	C	E	L	F	g	m	n	Nominal Torque NM	Max. Torque NM	Max. Misalignment			Mass Kgs	Moment of inertia kgm²	Max. Speed ¹ RPM
													Axial	Parallel	Angular			
FP 370	4535	370	250	11	54	100	112	4	112	40	12430	37200	±2	0.2	0.5°	85	5.8532	1700
FP 390	5040	390	260	15	54	117	112	4	112	40	14240	42700	±2	0.2	0.5°	93	7.0842	1600
FP 530	6050	530	390	15	62	142	127	3	127	50	31860	95500	±2	0.2	0.5°	244	34.287	1180
FP 625	7060	625	460	23	74	150	152	4	152	60	47000	140000	±2.5	0.25	0.5°	372	72.800	1000
FP 640	8065	640	480	20	74	185	152	4	152	60	51520	154000	±2.5	0.25	0.5°	468	95.924	980
FP 790	10085	790	590	34	86	248	183	11	183	70	96000	288000	±2.5	0.25	0.5°	834	260.29	800

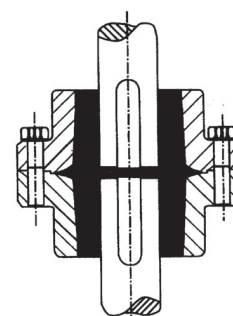
¹ Max. Speeds above are based on GG20 cast iron material. For higher speed, please consult TAGEX

COUPLING RANGES - Rigid Couplings - Cast Iron

Rigid Couplings provide a convenient method of rigidly connecting ends of shafts. Bushes permit easier and quicker fixing to the shafts with the firmness of a shrunk-on fit. These couplings have a male and female flange fully machined. The male flange can have the bush fitted from the Hub side **H** or from the flange side **F**; the female flange always has bush fitting **F**. This gives two possible coupling assemblies **HF** and **FF**. When connecting horizontal shafts, the most convenient assembly should be chosen. **When connecting vertical shafts use assembly FF only.**



Coupling Assembly HF



Coupling Assembly FF

SELECTION PROCEDURE

Example:

A shaft coupling is required to transmit 75 kW at 1 440 r/min to a metal mill. The motor shaft is 70 mm and the mill shaft is 80 mm.

A) DESIGN TORQUE

$$N.m = \frac{75 \times 9\,550}{1\,440} = 497 \text{ N.m}$$

B) COUPLING SIZE

From **TABLE 1** read across till a torque greater than 497 N.m is found. The coupling size at the column is a RM 25.

C) BORE SIZE

From **TABLE 1** it shows that a RM 35 can accommodate both shafts.

TABLE 1: DIMENSIONS

Size	Bush No.	Max. Bore	d_1	d_2	d_3	d_4	l_1	l_2	l_3	$l_4 +$	l_5^*	Mass (kg) ‡	Max Torque N.m
		Metric											
RM 12	1210	32	118	102	83	76	57	26	35	7	38	3,5	222
RM 16	1615	42	127	105	80	89	83	38	43	7	38	4,5	475
RM 25	2517	60	178	149	123	127	97	45	51	7	48	11,0	1353
RM 30	3030	75	216	181	146	152	159	76	65	7	54	23,0	2552
RM 35	3535	90	248	213	178	178	185	89	75	7	67	38,0	4510
RM 40	4040	100	298	257	210	216	210	102	76	7	79	64,0	6775
RM 45	4545	110	330	286	230	241	235	114	86	7	89	88,0	9010
RM 50	5050	125	362	314	266	267	260	127	92	7	92	155,0	11301

* l_5 is the wrench clearance to allow for tightening and loosening the bush on the shaft. The use of a shortened wrench will permit this dimension to be reduced.

+ l_4 is the distance between shaft ends.

‡ Mass is for couplings with mid-range bore Bushes.

