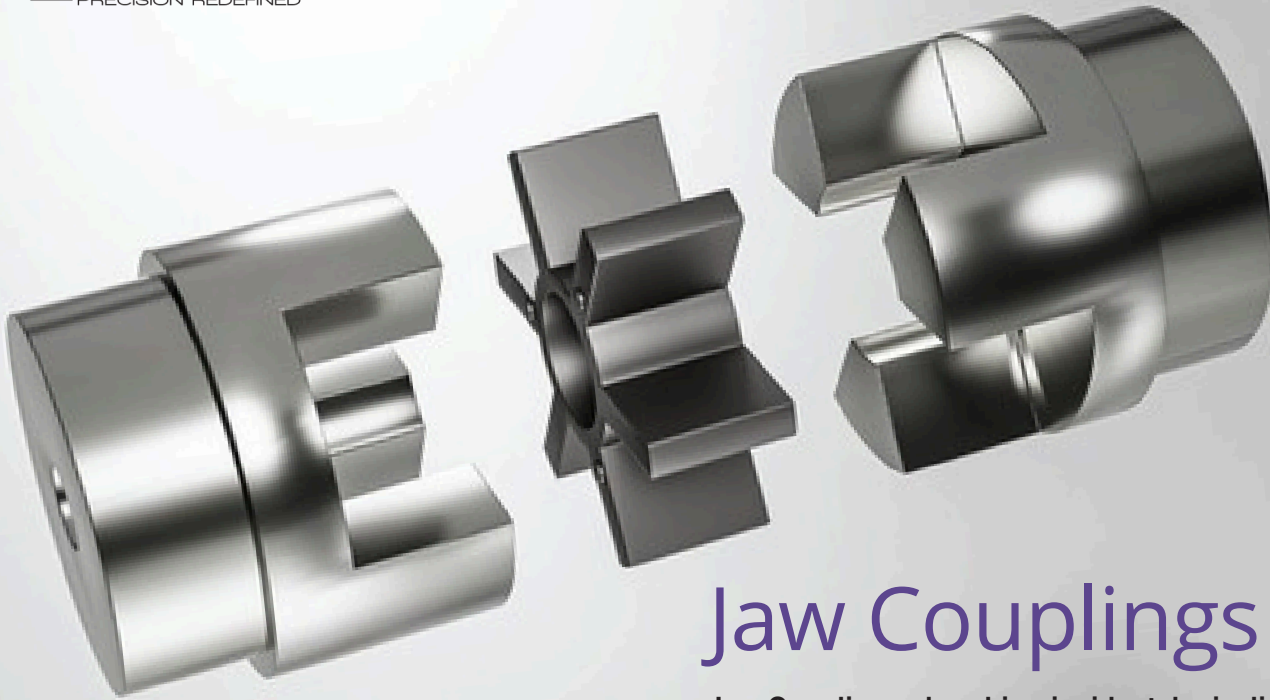


Jaw Couplings

From the house of TIDC INDIA





Jaw Couplings

Jaw Couplings absorbing incidental misalignment, shock loads and small amplitude vibrations, TIDC INDIA Jaw couplings offer a low cost flexible solution for most applications.

Features of Jaw Couplings

- Simple Construction. No metal to metal contact
- Flexible insert caters for incidental angular, parallel and axial misalignment
- Absorbs shock loads and damps small amplitude vibration
- Resistant to oil, dirt, sand, moisture, grease
- Temperature within the range of -40°C to $+100^{\circ}\text{C}$
- Spacer Coupling with spacer size depending upon the distance between two shaft ends

Jaw Coupling Selection Procedure

a. Service Factor

Determine the required service factor from table.

b. Design Power

Multiply the normal running power by the service factor. This gives the Design Power which is used as a basis for selecting the coupling.

c. Coupling Size

Depending upon the type of coupling required, refer to respective power rating tables. Power ratings can be interpolated in relation to speed parameters.

d. Bore Size

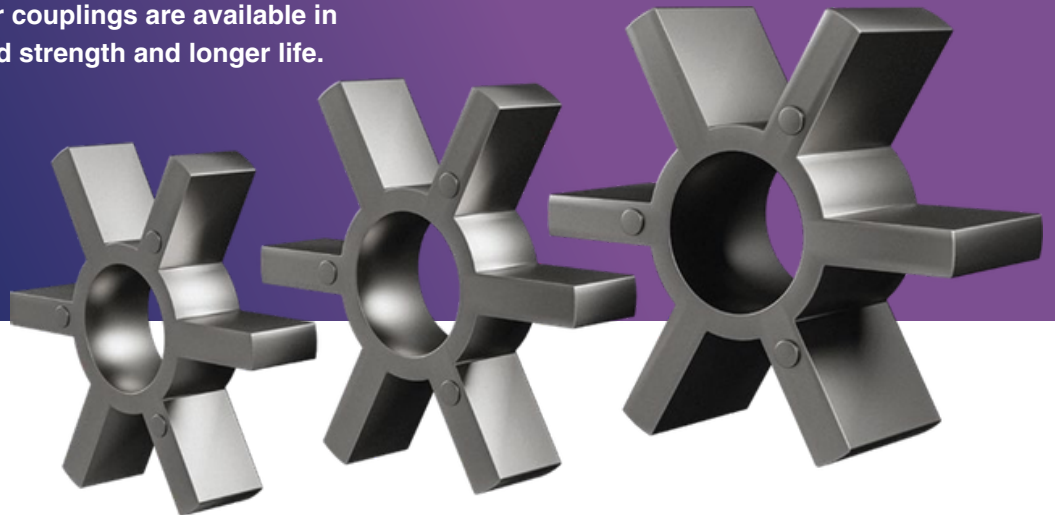
Check from the dimension table to see if bore capacity of the couplings is adequate, otherwise select next higher size coupling.

Service Factors

Type of Driven Machine	Electric Motors & Steam Turbines	Type of Driven Unit	
		Internal Combustion Engines	
		More then six Cylinders	Less then six Cylinders
Uniform Load - Agitators, Brewing machinery, Centrifugal compressors and pumps, Belt conveyers, Dynamo meters, Line shafts, Fans upto 7.5 kW, Blowers and exausters except positive displacement Generators.	1.0	1.5	2.0
Moderate Shock - Clay working machinery, General machine tools, Paper mill beaters and winders, Rotary pumps, Rubber extruders, Rotary screens, Textile machinery, Marine propellers and fans over 7.5 kW.	1.5	2.0	2.5
Heavy Shock - Bucket elevators, Cooling tower fans, Piston compressors and pumps, Foundry machinery, Metal presses, Paper mill calendars, Hammer mills, Presses and pulp grinders, Rubber calendars, Pulverisers and positive displacement blowers.	2.0	2.5	3.0

CR Spider Elements

CR Spider elements for Spider couplings are available in CR material which gives added strength and longer life.



Applications



Pumps including back-pull-out type



Packaging Machinery



Food Processing Plant Machinery



General Machine Tools



Paper Mill Machines and Calendars etc



Conveyors



Elevators

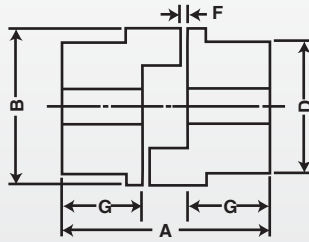


Compressors



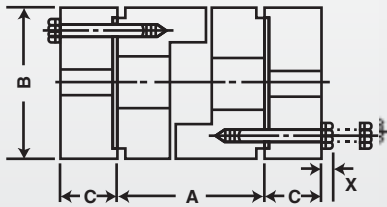
Blowers

Standard Coupling



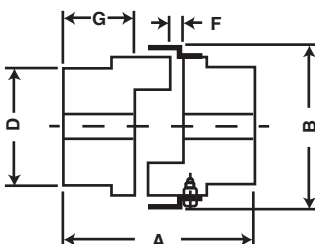
Size	Power at 100 rev/min in kW	Bore in mm		Dimensions in mm				
		Min.	Max.	A	B	D	F	G
TDT- 095	0.2	15	28	36	54	49	2	25
TDT- 099	0.4	20	30	72	65	51	2	27
TDT-0100	0.5	20	38	88	65	57	2	35
TDT-0110	0.9	20	42	108	85	76	3	43
TDT-0150	1.5	30	48	115	96	80	3	45
TDT-0190	2.0	36	55	133	115	102	3	54
TDT-0225	2.7	40	60	153	127	108	3	64

Standard Spacer Coupling



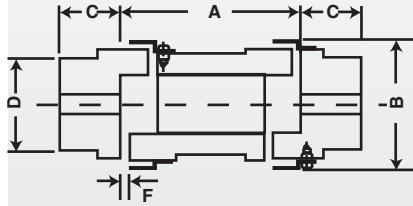
Size	Power at 100 rev/min in kW	Bore in mm		Distance between shaft ends (DBSE) A	Dimensions in mm		
		Min.	Max.		B	C	X
TDT- 095 S	0.2	15	28	90/100	54	25	6
TDT-0100 S	0.5	20	38	90/100/140	65	30	6
TDT-0110 S	0.9	20	42	90/100/140	85	35	8
TDT-0150 S	1.5	30	48	90/100/140	96	45	10
TDT-0190 S	2.0	36	55	90/100/140	115	51	10
TDT-0225 S	2.7	40	60	90/100/140	127	57	12

External Spider Coupling



Size	Power at 100 rev/min in kW	Bore in mm		Dimensions in mm				
		Min.	Max.	A	B	D	F	G
TDT- 095 E	0.2	15	23	63	64	49	2	25
TDT- 099 E	0.4	20	30	72	77	51	2	27
TDT-0100 E	0.5	20	38	88	77	57	2	35
TDT-0110 E	0.9	20	42	108	95	76	3	43
TDT-0150 E	1.5	30	48	115	110	80	3	45
TDT-0190 E	2.0	36	55	135	128	102	3	54
TDT-0225 E	2.7	40	60	153	141	108	3	64

External Spider Aluminium Spacer Coupling



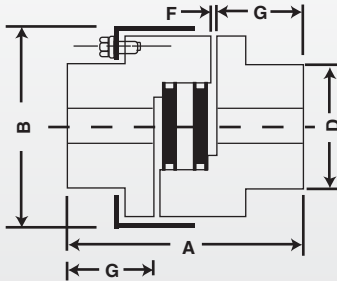
Size	Power at 100 rev/min in kW	Bore in mm		Distance between shaft ends (DBSE) A	Dimensions in mm			
		Min.	Max.		B	C	D	F
TDT- 095 ES	0.2	15	28	90/100/140	64	25	49	2
TDT-0100 ES	0.5	20	38	90/100/140	77	35	57	2
TDT-0110 ES	0.9	20	42	90/100/140	95	43	76	3
TDT-0150 ES	1.5	30	48	90/100/140	110	45	80	3
TDT-0190 ES	2.0	36	55	90/100/140	128	54	102	3
TDT-0225 ES	2.7	40	60	90/100/140	141	64	108	3

Cushion Coupling

TDT-0100 ES	0.5	20	48	90/100/140	25	42	110	3
TDT-0150 ES	1.5	30	48	90/100/140	110	45	80	3
TDT-0190 ES	2.0	36	55	90/100/140	128	54	102	3
TDT-0225 ES	2.7	40	60	90/100/140	141	64	108	3

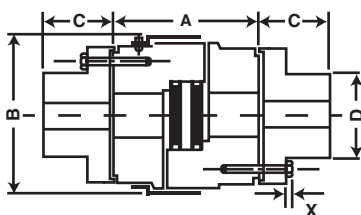
Size	Power at 100 rev/min in kW	Bore in mm		Dimensions in mm				
		Min.	Max.	A	B	D	F	G
TDT- 0226 P	3.4	25	65	178	143	115	3	70
TDT- 0276 P	5.6	25	75	200	163	127	3	80
TDT- 0280 P	8.2	30	75	200	200	140	3	80
TDT- 0295 P	13.4	40	90	238	245	160	3	95
TDT-02955 P	22.4	50	100	264	245	180	3	108

Size	Power at 100 rev/min in kW	Bore in mm		Dimensions in mm				
		Min.	Max.	A	B	D	F	G
TDT- 0226 P	3.4	25	65	178	143	115	3	70
TDT- 0276 P	5.6	25	75	200	163	127	3	80
TDT- 0280 P	8.2	30	75	200	200	140	3	80
TDT- 0295 P	13.4	40	90	238	245	160	3	95
TDT-02955 P	22.4	50	100	264	245	180	3	108



Size	Power at 100 rev/min in kW	Bore in mm		Dimensions in mm				
		Min.	Max.	A	B	D	F	G
TDT- 0226 P	3.4	25	65	178	143	115	3	70
TDT- 0276 P	5.6	25	75	200	163	127	3	80
TDT- 0280 P	8.2	30	75	200	200	140	3	80
TDT- 0295 P	13.4	40	90	238	245	160	3	95
TDT-02955 P	22.4	50	100	264	245	180	3	108


Cushion Spacer Coupling



Size	Power at 100 rev/min in kW	Bore in mm		Distance between shaft ends (DBSE) A	Dimensions in mm			
		Min.	Max.		B	C	D	X
TDT- 0226 PS	3.4	25	65	135/140/180	145	50	134	12
TDT- 0276 PS	5.6	25	75	135/140/180	165	60	130	12
TDT- 0280 PS	8.2	30	75	135/140/180	200	60	130	14
TDT- 0295 PS	13.4	40	90	135/140/180	249	65	160	16
TDT-02955 PS	22.4	50	100	135/140/180	249	80	160	16

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