



UTL FLEXIBLE COUPLINGS

Revolutionalizing
Rotation ...



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UTL FLEXIBLE COUPLINGS

INDEX

Sr.No.	Item Name	Page No
A	COMPANY PROFILE	1
B	METAL FLEX COUPLINGS	
1	UMS Couplings (Metalflex Couplings)	2
2	UMK Couplings (Metalflex Couplings)	3
C	JAW COUPLINGS	
1	Utex Couplings	4
2	US Couplings	5
3	UW / UCW Couplings	6
4	USS Couplings	7
5	UCWS Couplings	8
6	USWS Couplings	9
7	UWS Couplings	10
8	USF / UWF Couplings	11
D	TYRE COUPLINGS	
1	UT Couplings	12
2	UTT Couplings	13
E	PIN BUSH COUPLINGS	
1	UPB Couplings	14
2	UB Couplings	15
3	URC Couplings	16
4	URCT Couplings	17
F	TAPER BUSH	18
G	COUPLING SELECTION	19
H	ALIGNMENT INSTRUCTION	20



UTL FLEXIBLE COUPLINGS

COMPANY PROFILE

For over 25 years, Utkarsh Transmissions Pvt. Ltd. have been providing coupling solutions for high volume manufacturing processes as well as for power transmission product distributors worldwide.

The company has grown into one of India's largest producers of couplings with a full range of flexible couplings to satisfy the demands of both domestic and export customers who require reliability and performance in service.

Utkarsh Transmissions Pvt. Ltd. ensure that the coupling components are engineered to maximize on the service life of the machines to which they are coupled and to improve the integrity of the entire drive system where they are used. The accuracy of the products are critical to the reputation of the original equipment manufacturers and also to the end users who require longer mean time between failure of their machines.

The couplings produced in the Satara plant, are designed to accommodate drive misalignment, absorb and withstand shock loading and to facilitate easy separation of the drive line for maintenance.

The range of couplings available from Utkarsh Transmissions Pvt. Ltd. expands annually as discerning customers demand more bespoke solutions. The precision manufacturing process uses only the highest quality of cast iron or steel and latest generation polymer and composite technology.

As an ISO certified company, Utkarsh Transmissions Pvt. Ltd. also operates a Quality Policy and a management style which ensures that the company fully involve the work force in best practice, health and safety issues, process planning and modular stock inventory programs. In combining all of these topics, Utkarsh Transmissions Pvt. Ltd. are confident that they can provide on-time delivery and maximum product acceptability for their customers.

OUR VISION : To become the most trusted and dependable providers of flexible coupling solutions on a global scale.

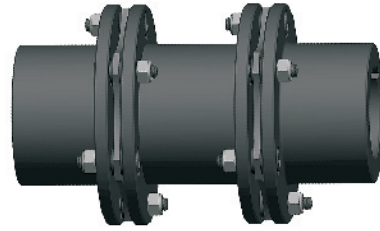
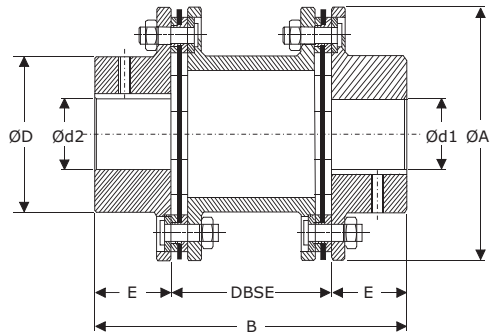
OUR MISSION : To exceed our customer's expectations through the provision of technological advanced products which ensure maximum reliability in service.

UTKARSH TRANSMISSIONS PVT. LTD.

Plot No. : L - 51, Additional M.I.D.C., Satara - 415 004 (Maharashtra) India
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UTL UMS COUPLINGS
(Metalflex with Spacer)



FEATURES

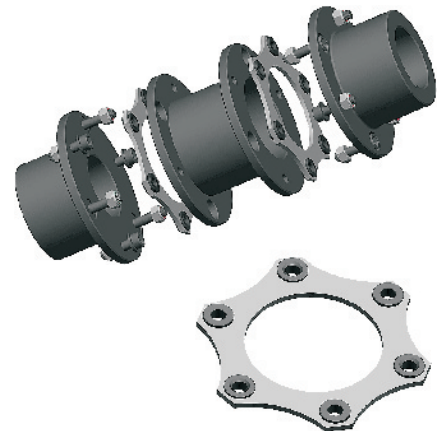
- Power to weight ratio high
- Accommodates angular and axial misalignments
- High temperature application
- Visual inspection is possible without dismantling equipments
- Low axial stiffness with high torsional rigidity
- High-speed capacity
- Range up to 13367 Nm Torque-ratings
- Added advantage of stretch fitted Shim Pack

Dimensions & Technical Data

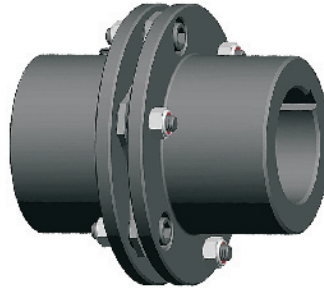
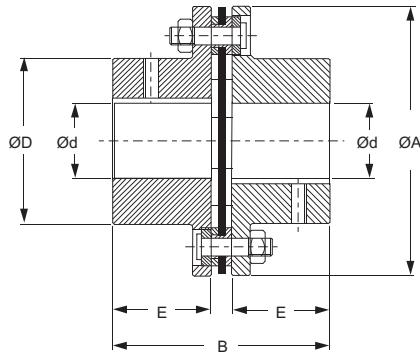
Size	Rated Torque Nm	kW Rating at 100 rpm	Max speed rpm	Dimension are in mm						Moment of Inertia kgm ² Approx		Torsional Stiffness Nm/radian Approx
				Min Bore	Max Bore	DBSE	E	øA	ø D	Min Std. "DBSE"	Per Mtr Extra "DBSE"	
5	33	0.35	7500	8	20	100	25	55	30	0.0002	0.0003	0.016
10	64	0.67	7500	10	22	140	30	63	35	0.0003	0.0004	0.031
35	160	1.67	7000	12	30	100 140 180	40	82	45	0.0017	0.00047	0.025
95	515	5.4	6000	17	40		45	102	57	0.004	0.001	0.04
170	860	9	5200	17	52		55	128	77	0.012	0.005	0.099
220	1337	14	4800	22	65		60	146	94	0.036	0.008	0.176
400	2388	25	4400	27	80	70	176	115	0.070	0.0200	0.305	
520	3342	35	4200	32	90	140 180 250	90	197	132	0.130	0.0355	0.432
1000	5060	53	4000	42	105	95	225	147	0.240	0.0541	0.60	
1300	7161	75	3800	47	115	180 250 300	105	250	162	0.500	0.0700	0.80
2000	10025	105	3700	52	120		115	275	178	0.660	0.1486	1.50
2500	13367	140	3600	62	135		130	300	190	1.000	0.1000	1.40

MATERIAL SPECIFICATIONS

Hub	Size- 5 - 2500	Steel C 40	St	EN/DIN 10263-2
Spacer	Size-100 - 300	Steel C 40	St	EN/DIN 10263-2
Disc Pack	Size-05 - 2500	Stainless Steel	SS	



UTL UMK COUPLINGS
(Metalflex Couplings)



FEATURES

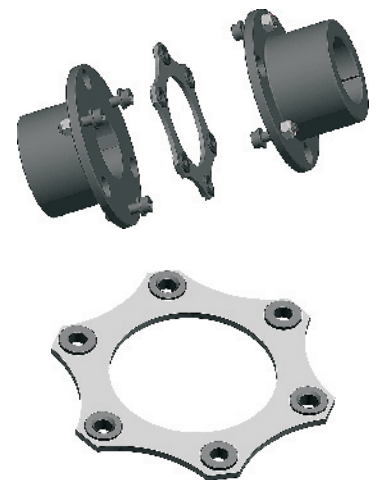
- Power to weight ratio high
- Accommodates angular and axial misalignments
- High Temperature application
- Visual inspection is possible without dismantling equipments
- Low axial stiffness with high torsional rigidity
- High-speed capacity
- Range up to 13367 Nm Torque-ratings
- Added advantage of stretch fitted Shim Pack

Dimensions & Technical Data

Size	Rated Torque Nm	kW Rating at 100 rpm	Max speed rpm	Dimension are in mm					Moment of Inertia kgm ² Approx	Torsional Stiffness Nm/radian Approx
				Min Bore	Max Bore	E	øA	ø D		
5	33	0.35	7500	8	20	25	55	30	0.0002	0.036
10	64	0.67	7500	10	24	30	63	35	0.0003	0.043
35	160	1.67	7000	12	30	40	82	45	0.0008	0.062
95	515	5.4	6000	17	40	45	102	57	0.0026	0.118
170	860	9	5200	17	52	55	128	77	0.0087	0.260
220	1337	14	4800	22	65	60	146	94	0.017	0.492
400	2388	25	4400	27	80	70	176	115	0.045	1.228
520	3342	35	4200	32	90	90	197	132	0.089	1.926
1000	5060	53	4000	42	105	95	225	147	0.16	on request
1300	7161	75	3800	47	115	105	250	162	0.27	
2000	10025	105	3700	52	120	115	275	178	0.44	
2500	13367	140	3600	62	135	130	300	190	0.67	

MATERIAL SPECIFICATIONS

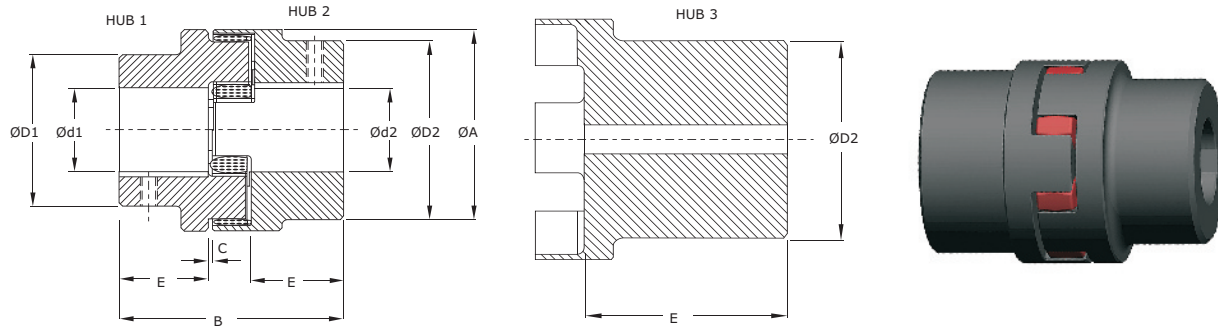
Hub	Size- 5 - 2500	Steel C 40	St	EN/DIN 10263-2
Disc Pack	Size-05 - 2500	Stainless Steel	SS	





UTL UTEX COUPLINGS

(Curved Jaw with Spider)



FEATURES

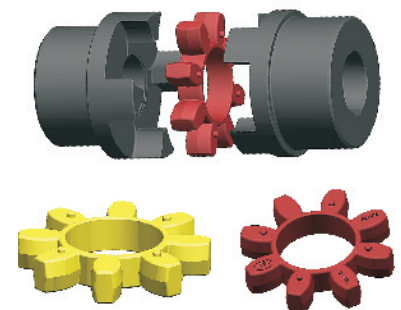
- Torsionally flexible, maintenance free
- All over machining good dynamic properties
- Compact design

Dimensions & Technical Data

SIZE	Component	Rated Torque Nm		Max. speed rpm	Dimensions in mm						
		92° Shore A (Yellow Colour)	98° Shore A (Red Colour)		Min. bore	Max. bore		Ø A	E	C	B
						Ø d1	Ø d2				
14	Hub 2	7.5	12.5	19000	6	16	30	30	11	1.5	35
19	Hub 1	10	17	14000	6	19	40	32	25	2	66
	Hub 2					24		41			
24	Hub 1	35	60	10600	9	24	56	40	30	2	78
	Hub 2					28		56			
28	Hub 1	95	160	8500	10	28	66	48	35	2.5	90
	Hub 2					38		66			
38	Hub 1	190	325	7100	12	40	80	66	45	3	114
	Hub 2					48		78			
	Hub 3					70		164			
42	Hub 1	265	450	6000	14	45	95	75	50	3	126
	Hub 2					55		94			
	Hub 3					75		176			
48	Hub 1	310	525	5600	15	52	105	85	56	3.5	140
	Hub 2					62		104			
	Hub 3					80		188			
55	Hub 1	410	685	4750	20	60	120	98	65	4	160
	Hub 2					74		118			
65	Hub 1	625	940	4250	22	70	135	115	75	4.5	185
75	Hub 1	1280	1920	3520	30	80	160	135	85	5	210
90	Hub 1	2400	3600	2800	40	97	200	160	100	5.5	245

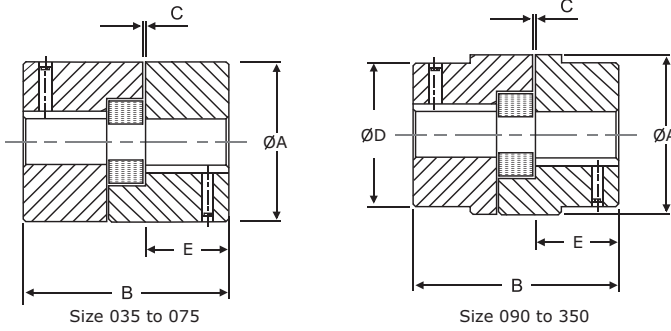
MATERIAL SPECIFICATIONS

Hub	Size-40-90	Steel	St	S 355 J2G3 (St 52.3)
Hub	Size-24-90	Cast Iron	CI	EN - GJL - 250 (GG 25)
Hub	Size-14-28	Aluminum	AL	BS 1490-LM 4
Spider 92° Shore A (Yellow Colour)	All Size	Polyurethane	PU	
Spider 98° Shore A (Red Colour)	All Size	Polyurethane	PU	



UTL US COUPLINGS

(Spider Elastomer)



FEATURES

- Simple construction, quick and easy installation
- Spider design presets correct distance between hubs, using raised dimple on leg of the spider
- Spiders are unaffected by moisture, grease and oils including non-aromatic and non-ketone solvents
- Temperatures within the range - 40°C to + 100°C
- Range up to 4308 Nm Torque-ratings

Dimensions & Technical Data

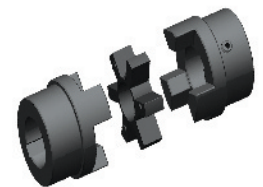
Size	Rated Torque Nm	kW Rating at			Dimensions in mm							Torsional stiffness Nm / rad	Material of hubs		Moment of inertia (kg.m ²)
		100 rpm	1500 rpm	3000 rpm	Min. bore	Max. bore	ø A	B	C	ø D	E				
35	0.38	0.004	0.06	0.12	3	10	16	19	1	16	5.5	4	SI	AL	3.2. 10 ⁻⁷
50	2.50	0.030	0.45	0.90	6	16	28	46	1	28	17	36	SI	AL	7.50. 10 ⁻⁶
70	4.90	0.050	0.75	1.50	9	20	36	51	2	36	19	80	SI	AL	2.91. 10 ⁻⁵
75	9.80	0.100	1.50	3.00	9	22	45	55	2	45	21	119	CI	AL	7.43. 10 ⁻⁵
90	21	0.220	3.30	6.60	10	28	54	55	2	54	21	275	CI	AL	1.96. 10 ⁻⁴
95	21	0.220	3.30	6.60	10	28	54	63	2	49	25	275	CI	AL	2.88. 10 ⁻⁴
99	35	0.370	5.55	11.10	10	30	65	72	2	51	27	688	CI	AL	4.92. 10 ⁻⁴
100	46	0.490	7.35	14.70	10	35	65	88	2	57	35	688	CI	AL	7.67. 10 ⁻⁴
110	89	0.930	13.95	27.90	15	42	85	108	3	76	43	1719	CI	AL	2.77. 10 ⁻³
150	141	1.490	22.35	44.70	15	48	96	115	3	80	45	2120	CI	-	4.19. 10 ⁻³
190	190	2.010	30.15	60.30	20	60	115	133	3	102	54	3495	CI	-	0.01200
225	265	2.760	41.40	82.80	20	65	127	153	3	111	64	4584	CI	-	0.01800
226	324	3.430	51.45	102.90	25	70	137	178	3	119	70	6990	CI	-	0.03000
276	532	5.600	84.00	168.00	25	75	157	200	3	127	80	12720	CI	-	0.05300
280	782	8.200	123.00	246.00	30	80	192	200	3	140	80	22517	CI	-	0.10200
295	1279	13.400	201.00	-	40	95	237	238	3	162	95	51222	CI	-	0.27100
2955	2132	22.400	336.00	-	50	105	237	264	3	180	108	85428	CI	-	0.32000
300	3047	31.900	478.50	-	50	105	254	283	3	180	115	126395	CI	-	0.41000
350	4308	45.000	675.00	-	50	115	305	309	3	200	128	183633	CI	-	0.82100

MATERIAL SPECIFICATIONS

Hub	Size-050-110	Aluminium	AL	BS 1490-LM 4
Hub	Size-035-070	Sintered Iron	SI	DIN - 30910 C 11
Hub	Size-090-225	Cast Iron	CI	DIN 1693 GG 20
Hub	Size-226-350	Cast Iron	CI	DIN 1693 GG 25
Spider (80° Shore A)	Size-035-350	Synthetic Rubber	NBR	ASTM D2000 BG 810

Alternative Spider for higher power ratings is available on request.

Spider (92° Shore A)	Size-035-350	Synthetic Rubber	NBR	ASTM D2000 BG 910	Torque 1.6 times of standard
Spider (80° Shore A)	Size-035-350	Synthetic Rubber	EPDM	ASTM D 2000 AA 810	Torque as per standard
Spider (Yellow Colour) (92° Shore A)	Size-035-350	Polyurethane	PU		Torque 1.8 times of standard
Spider (Red Colour) (98° Shore A)	Size-035-350	Polyurethane	PU		Torque 2.5 times of standard
Spider ((65° Shore D)	Size-050-095	Hytrel	Hyt		Torque 3.5 times of standard for slow speed



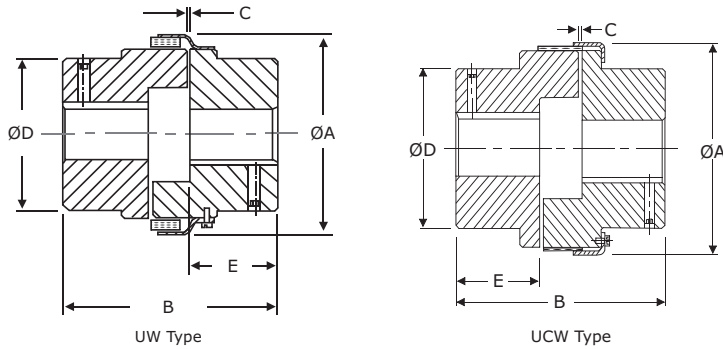
- Max Speed not to exceed for CI Hubs for surface speed V = 35 m / sec
- Max Speed not to exceed for Aluminum Hubs for surface speed V = 30 m / sec
- Max Speed not to exceed for SI Hubs for surface speed V = 25 m / sec

• For temperature range of Elastomers Please see on Page No. 19 - Coupling Selection



UTL UW / UCW COUPLINGS

(Snap wrap / T Cushion Elastomer)



FEATURES

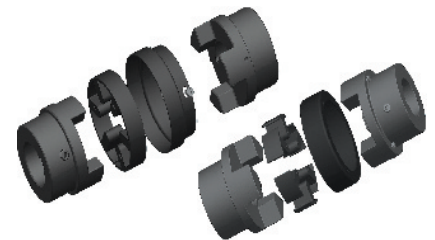
- Simple construction, quick & easy installation
- Snap-wrap design presets correct distance between hubs, using raised dimple on leg of the snap-wrap
- Snap-wrap are unaffected by moisture, grease and oils including non-aromatic and non-ketone solvents
- Temperatures within the range - 40°C to + 100°C
- Inspection/Replacement of snap-wrap / T cushion within 5 minutes and only screw driver is required
- Above size 226 T cushion is used as a element
- Range up to 4308 Nm Torque-ratings
- Maximum permissible misalignment : Angular 1°, parallel 0.4 mm & axial 3 mm (Initial alignment must be 25 % of maximum)

Dimensions & Technical Data

Size	Rated Torque Nm	kW Rating at			Dimensions in mm							Torsional stiffness Nm /rad	Moment of inertia (kg.m ²)
		100 rpm	1500 rpm	3000 rpm	Min. bore	Max. bore	ø A	B	C	ø D	E		
95	21	0.220	3.30	6.60	10	28	64	63	2	49	25	275	2.88. 10 ⁻⁴
99	35	0.370	5.55	11.10	10	30	78	72	2	51	27	688	4.92. 10 ⁻⁴
100	46	0.490	7.35	14.70	10	35	78	88	2	57	35	688	7.67. 10 ⁻⁴
110	89	0.930	13.95	27.90	15	42	96	108	3	76	43	1719	2.77. 10 ⁻³
150	141	1.490	22.35	44.70	15	48	111	115	3	80	45	2120	4.19. 10 ⁻³
190	190	2.010	30.15	60.30	20	60	130	133	3	102	54	3495	0.0120
225	265	2.760	41.40	82.80	20	65	142	153	3	111	64	4584	0.0180
226	324	3.430	51.45	102.90	25	70	153	178	3	119	70	6990	0.0300
276	532	5.600	84.00	168.00	25	75	173	200	3	127	80	12720	0.0530
280	782	8.200	123.00	246.00	30	80	205	200	3	140	80	22517	0.1020
295	1279	13.400	201.00	-	40	95	251	238	3	162	95	51222	0.2710
2955	2132	22.400	336.00	-	50	105	251	264	3	180	108	85428	0.3200
300	3047	31.900	478.50	-	50	105	267	283	3	180	115	126395	0.4100
350	4308	45.000	675.00	-	50	115	318	309	3	200	128	183633	0.8210

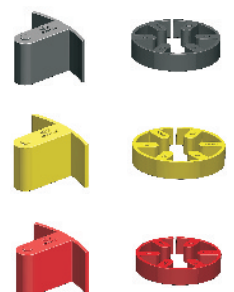
MATERIAL SPECIFICATIONS

Hub	Size-095-225	Cast Iron	CI	DIN 1693 GG 20
Hub	Size-226-350	Cast Iron	CI	DIN 1693 GG 25
Snap Wrap 80° Shore A	All Size	Synthetic Rubber	NBR	ASTM D2000 BG 810
T Cushion 80° Shore A	All Size	Synthetic Rubber	NBR	ASTM D2000 BG 810
Outer ring	Size-095-350	Mild Steel	CRCA	BS 970



Alternative Snap wrap / T Cushion for higher power ratings is available on request.

Snap wrap 92° Shore A	All Size	Synthetic Rubber	NBR	ASTM D2000 BG 910	Torque 1.6 times of standard
Snap wrap 80° Shore A	All Size	Synthetic Rubber	EPDM	ASTM D2000 AA 810	Torque as per standard
Snap wrap 92° Shore A (Yellow Colour)	All Size	Polyurethane	PU		Torque 1.8 times of standard
Snap wrap 98° Shore A (Red Colour)	All Size	Polyurethane	PU		Torque 2.5 times of standard
T Cushion 92° Shore A	All Size	Synthetic Rubber	NBR	ASTM D2000 BG 910	Torque 1.6 times of standard
T Cushion 80° Shore A	All Size	Synthetic Rubber	EPDM	ASTM D2000 AA 810	Torque as per standard
T Cushion 92° Shore A (Yellow Colour)	All Size	Polyurethane	PU		Torque 1.8 times of standard
T Cushion 98° Shore A (Red Colour)	All Size	Polyurethane	PU		Torque 2.5 times of standard



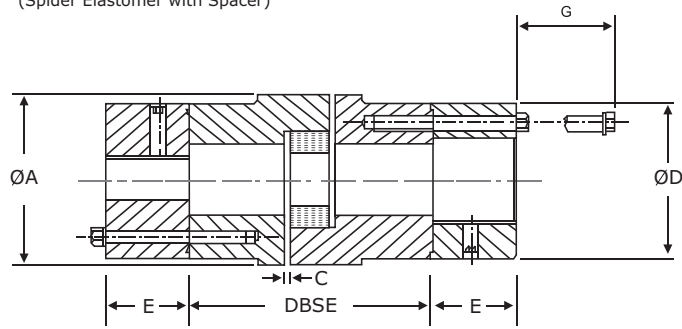
• Max speed not to exceed surface speed V = 35 m / sec

• For temperature range of Elastomers Please see on Page No. 19 - Coupling Selection



UTL USS COUPLINGS

(Spider Elastomer with Spacer)



USS Type



FEATURES

- Simple construction, quick & easy installation
- Spider design presets correct distance between hubs, using raised dimple on leg of the spider
- Without disturbing the pump alignment & piping etc, maintenance is possible. Can also be used where quick disconnection of drive and driven units is required like compressors, generators & blowers etc
- Range up to 265 Nm Torque-ratings

Dimensions & Technical Data

Size	Rated Torque Nm	kW Rating at			Dimensions in mm								Torsional Stiffness Nm / rad
		100 rpm	1500 rpm	3000 rpm	Min. bore	Max. bore	DBSE	ø A	ø D	E	C	G	
095	21.10	0.220	3.30	6.60	10	30	90, 100, 140	54	54	25	2	20	275
100	46.40	0.490	7.35	14.70	10	38	90, 100, 140	65	65	30	2	20	688
110	89	0.930	13.95	27.90	15	42	90, 100, 140, 180	85	76	35	3	21	1719
150	141	1.490	22.35	44.70	15	48	90, 100, 140, 180	96	90	40	3	27	2120
190	190	2.010	30.15	60.30	20	55	90, 100, 140, 180	115	102	46	3	27	3495
225	265	2.760	41.40	82.80	20	65	90, 100, 140, 180	127	115	52	3	21	4584

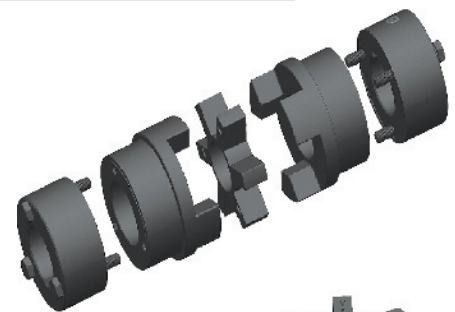
MATERIAL SPECIFICATIONS

Part	Size	Material	Grade	Standard
Jaw	Size-095-225	Cast Iron	CI	DIN 1693 GG 20
Adaptor	Size-095-225	Cast Iron	CI	DIN 1693 GG 20
Spider	80° Shore A	Synthetic Rubber	NBR	ASTM D 2000 BG 810
Hex Bolt	All Size	High Tensile	St	ISO 4014 : Gr 8.8

Alternative Spider for higher power ratings is available on request.

Spider	Shore A	Material	Grade	Standard	Torque
Spider	92° Shore A	Synthetic Rubber	NBR	ASTM D 2000 BG 910	Torque 1.6 times of standard
Spider	80° Shore A	Synthetic Rubber	EPDM	ASTM D 2000 AA 810	Torque as per standard
Spider (Yellow Colour)	92° Shore A	Polyurethane	PU		Torque 1.8 times of standard
Spider (Red Colour)	All Size	Polyurethane	PU		Torque 2.5 times of standard

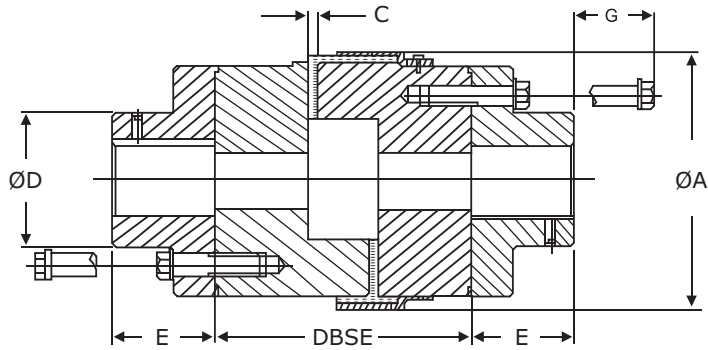
- Max speed no to exceed surface speed $V = 35 \text{ m / sec}$





UTL UCWS COUPLINGS

(T Cushion with Spider)



FEATURES

- Simple construction, quick & easy installation
- T Cushion design presets correct distance between hubs, using raised dimple on legs of the T cushion
- Without disturbing the pump alignment & piping etc, maintenance is possible can also be used where quick disconnection of drive and driven units is required like compressors, generators & blowers etc
- Range up to 4308 Nm Torque-ratings

Dimensions & Technical Data

Size	Rated Torque Nm	Kw Rating at			Dimensions in mm								Torsional Stiffness Nm / rad
		100 rpm	1500 rpm	3000 rpm	Min. bore	Max. bore	DBSE	ø A	ø D	E	C	G	
226	324	3.430	51.45	102.90	25	70	135 ,140 180,250	141.5	134	50	3	40	6990
276	532	5.600	84.00	168.00	25	75	135 ,140 180,250	161.5	135	60	3	40	12720
280	782	8.200	123.00	246.00	30	75	135 ,140 180,250	196.5	130	60	3	-	22517
295	1279	13.400	201.00	-	40	95	135 ,140 180,250	243.0	160	65	3	-	51222
2955	2132	22.400	336.00	-	50	100	135 ,140 180,250	243.0	160	65	3	-	85428
300	3047	31.900	478.50	-	50	110	135 ,140 180,250	265.0	180	80	3	-	126395
350	4308	45.000	675.00	-	50	115	135 ,140 180,250	318.0	200	90	3	-	183633

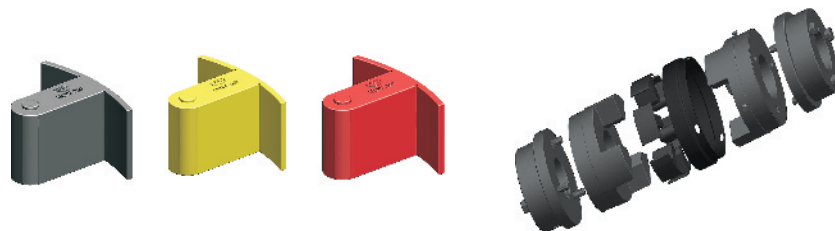
MATERIAL SPECIFICATIONS

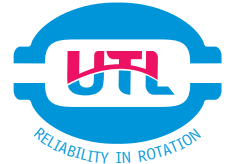
Jaw	Size-226-350	Cast Iron	CI	DIN 1693 GG 25
Adaptor	Size-226-350	Cast Iron	CI	DIN 1693 GG 25
T Cushion 80° Shore A	All Size	Synthetic Rubber	NBR	ASTM D2000 BG 810
Hex bolt	All Size	High Tensile	St	ISO 4014: Gr 8.8
Outer ring	Size-226-350		Mild. Steel	BS 970

Alternative T Cushion for higher power ratings is available on request.

T Cushion 92° Shore A	All Size	Synthetic Rubber	NBR	ASTM D2000 BG 910	Torque 1.6 times of standard
T Cushion 80° Shore A	All Size	Synthetic Rubber	EPDM	ASTM D2000 AA 810	Torque as per standard
T Cushion 92° Shore A (Yellow Colour)	All Size	Polyurethane	PU		Torque 1.8 times of standard
T Cushion 98° Shore A (Red Colour)	All Size	Polyurethane	PU		Torque 2.5 times of standard

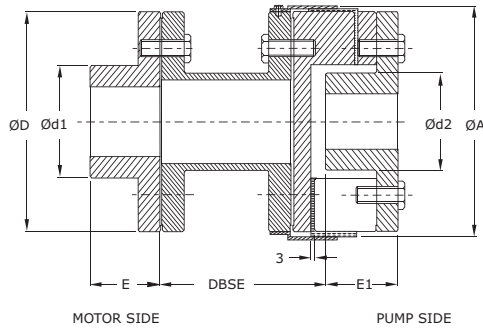
- Max speed not to exceed surface speed $V = 35 \text{ m / sec}$





UTL USWS COUPLINGS

(T Cushion with Spider)



FEATURES

- Rigid construction yet flexible
- Design made for ease in maintenance yet accommodating shaft constraints
- No down time, No loss of production
- No metal to metal contact
- Lubrication free
- Long life

Dimensions & Technical Data

Size	Power Rating at				Dimensions in mm											
	Synthetic Rubber		Polyurethane		Motor Side Bore		Pump Side Bore		DBSE	ø A	ø D	ø d1	ø d2	E	E1	
	Rated Torque Nm	kW @ 100 rpm	Rated Torque Nm	kW @ 100 rpm	Min. Bore	Max. Bore	Min. Bore	Max. Bore								
276	534	5.6	802	8.4	25	75	24	42	140,180	173	154	130	70	60	60	
280	783	8.2	1175	12.3	30	80	28	55		208	189	130	90	65	60	
295	1280	13.4	1920	20.1	30	95	28	65		253	234	160	106	80	70	
2955	2139	22.4	3209	33.6	30	105	28	70		253	234	160	106	80	75	
300	3046	31.9	4570	47.9	30	105	28	75		272	251	180	122	88	80	
350	4298	45.0	6446	67.5	30	115	30	80		323	302	200	130	90	90	

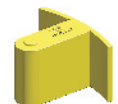
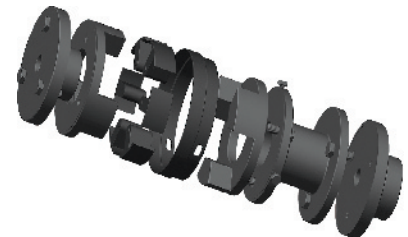
MATERIAL SPECIFICATIONS

Spacer	Size-276-350	SG Iron	SG	DIN 1693 GGG 20
Hub	Size-276-350	Cast Iron	CI	DIN 1693 GG 25
Adaptor	Size-276-350	Cast Iron	CI	DIN 1693 GG 25
T cushion 80° Shore A	All Size	Synthetic Rubber	NBR	ASTM D2000 BG 810
Outer ring	Size-276-350	Mild Steel	M.S.	BS 970
Hex bolt				ISO 4014: Gr 8.8

Alternative T Cushion for higher power ratings is available on request.

T Cushion 92° Shore A	All Size	Synthetic Rubber	NBR	ASTM D2000 BG 910	Torque 1.6 times of standard
T Cushion 80° Shore A	All Size	Synthetic Rubber	EPDM	ASTM D2000 AA 810	Torque as per standard
T Cushion 92° Shore A (Yellow Colour)	All Size	Polyurethane	PU		Torque 1.8 times of standard
T Cushion 98° Shore A (Red Colour)	All Size	Polyurethane	PU		Torque 2.5 times of standard

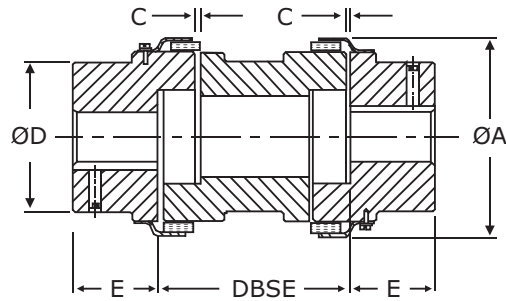
- Max speed not to exceed surface speed V = 35 m / sec





UTL UWS COUPLINGS

(Two Snap wrap Elastomers with Spacer)



FEATURES

- Specially designed for machines requiring space for maintenance
- Snap wrap design presets correct distance between hubs, using raised dimple on leg of the snap wrap
- Snap wrap are unaffected by moisture, grease and oils including non-aromatic and non-ketone solvents
- Temperatures within the range - 40°C to + 100°C
- Inspection / Replacement of snap wrap within 5 minutes and only screw driver is required
- Having 2 Snap-wrap elastomers means double flexibility
- Floating aluminium spacer, Light weight
- Range up to 327 Nm Torque-ratings

Dimensions & Technical Data

Size	Rated Torque Nm	kW Rating at			Dimensions in mm							Torsional Stiffness Nm/rad
		100 rpm	1500 rpm	3000 rpm	Min. bore	Max. bore	DBSE	ø A	ø D	E	C	
95	21.1	0.22	3.3	6.6	10	28	90,100, 135,140,180	64	49	25	2	275
100	46.4	0.49	7.35	14.7	10	35		78	57	35	2	688
110	89	0.93	13.95	27.9	15	42		96	76	43	3	1719
150	141	1.49	22.35	44.7	15	48		111	80	45	3	2120
190	190	2.01	30.15	60.3	20	60		130	102	54	3	3495
225	265	2.76	41.4	82.8	20	65		142	111	64	3	4584
226	327	3.43	51.45	102.9	25	70		153	115	70	3	6990

MATERIAL SPECIFICATIONS

Spacer	Size-095-226	Aluminium	AL	BS 1490-LM 4
Hub	Size-095-225	Cast Iron	CI	DIN 1693 GG 20
Hub	Size-226	Cast Iron	CI	DIN 1693 GG 25
Snap wrap 80° Shore A	All Size	Synthetic Rubber	NBR	ASTM D 2000 BG 810
Outer ring	Size-095-226	Mild Steel	CRCA	BS 970

Alternative Snap Wrap for Higher power ratings is available on request

Snap wrap 92° Shore A	All Size	Synthetic Rubber	NBR	ASTM D 2000 BG 910	Torque 1.6 times of standard
Snap wrap 80° Shore A	All Size	Synthetic Rubber	EPDM	ASTM D 2000 AA 810	Torque as per standard
Snap wrap 92° Shore A (Yellow Colour)	All Size	Polyurethane	PU		Torque 1.8 times of standard
Snap wrap 98° Shore A (Red Colour)	All Size	Polyurethane	PU		Torque 2.5 times of standard

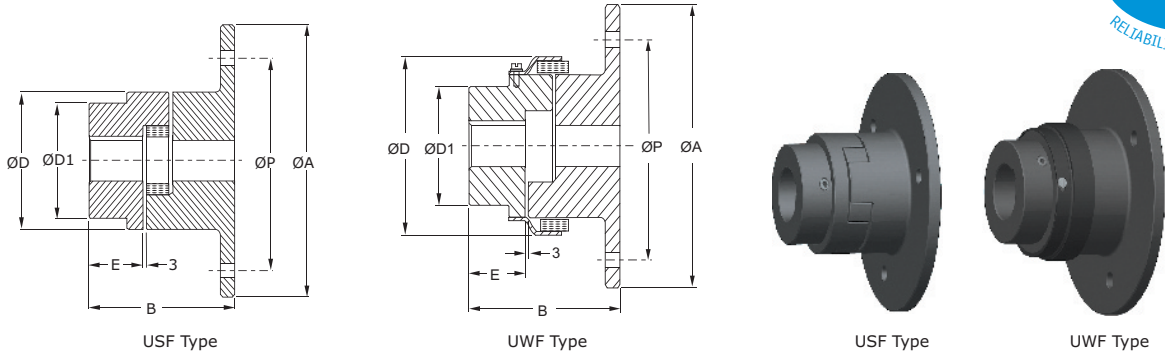


- Max speed not to exceed 3300 rpm



UTL USF / UWF COUPLINGS

(Spider / Snap wrap / T Cushions Elastomer)



FEATURES

- Specially designed for engine applications.
- Easy to assemble & disassemble.
- Elimination of extension shaft reduces cost of equipment.
- Coupling mounted directly on engine flywheel
- For USF Spider is used as a Element (Size 150 to 2955)
- For UWF Snap wrap is used as a Element (Size 150 to 225) & T Cushions are used as Elements (Size 226 to 2955)

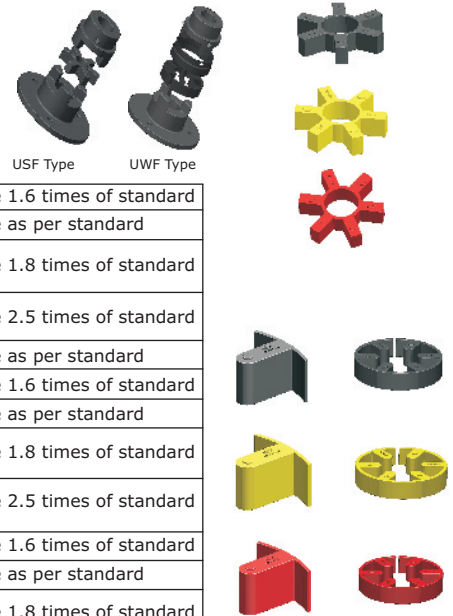
Dimensions & Technical Data

SIZE	Rated Torque Nm	kW Rating at 100 rpm	Max. Speed rpm	SAE Size Inches	Flange Dimensions in mm				Hub Dimensions in mm					
					ø A	ø P	No. of holes	Hole Dia	ø D UWF / USF	ø D1	E	Min. Bore	Max. Bore	B
150	141	1.49	3400	5.5	190.0	137.0	3	12	111 / 96	80	45	15	48	122
190	190	2.01	1900	11.5	352.4	333.4	8	10.3	130 / 115	102	54	20	60	107
225	265	2.76	1900	11.5	352.4	333.4	8	10.3	142 / 127	111	64	20	65	117
226	324	3.43	3000	6.5	216.0	200.0	6	8.5	153 / 137	115	70	22	70	136
			2700	8.0	263.5	244.5	6	10.3						
			2100	10.0	314.3	295.3	8	10.3						
			1900	11.5	352.4	333.4	8	10.3						
276	532	5.60	2700	8.0	263.5	244.5	6	10.3	173 / 157	127	80	22	75	148
			1900	11.5	352.4	333.4	8	10.3						
			1500	14.0	466.7	438.2	8	13.5						
280	782	8.20	2100	10.0	314.3	295.3	8	10.3	205 / 192	140	80	30	80	148
			1900	11.5	352.4	333.4	8	10.3						
			1500	14.0	466.7	438.2	8	13.5						
295	1279	13.40	1900	11.5	352.4	333.4	8	10.3	251 / 237	160	95	40	95	171
			1500	14.0	466.7	438.2	8	13.5						
2955	3132	22.40	1900	11.5	352.4	333.4	8	10.3	251 / 237	180	108	50	115	184
			1500	14.0	466.7	438.2	8	13.5						

MATERIAL SPECIFICATIONS

Part	Size	Material	Standard	Material	Standard
Hub	Size-150-225	Cast Iron	CI	DIN 1693 GG 20	
Hub	Size-226-2955	Cast Iron	CI	DIN 1693 GG 25	
Flange	Size-150-225	Cast Iron	CI	DIN 1693 GG 20	
Flange	Size-226-2955	Cast Iron	CI	DIN 1693 GG 25	
Spider 80° Shore A	All Size	Synthetic Rubber	NBR	ASTM D2000 BG 810	
Outer ring	Size-150-2955	Mild. Steel	St	BS 970	

Alternative Spider / Snap wrap / T Cushion for higher power ratings is available on request.

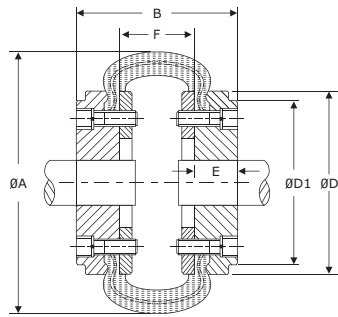


Element	Material	Standard	Torque	
Snap wrap 92° Shore A	Synthetic Rubber	NBR	ASTM D2000 BG 910	Torque 1.6 times of standard
Snap wrap 80° Shore A	Synthetic Rubber	EPDM	ASTM D2000 AA 810	Torque as per standard
Snap wrap 92° Shore A (Yellow Colour)	Polyurethane	PU		Torque 1.8 times of standard
Snap wrap 98° Shore A (Red Colour)	Polyurethane	PU		Torque 2.5 times of standard
T cushion 80° Shore A	Synthetic Rubber	NBR	ASTM D2000 BG 810	Torque as per standard
T Cushion 92° Shore A	Synthetic Rubber	NBR	ASTM D2000 BG 910	Torque 1.6 times of standard
T Cushion 80° Shore A	Synthetic Rubber	EPDM	ASTM D2000 AA 810	Torque as per standard
T Cushion 92° Shore A (Yellow Colour)	Polyurethane	PU		Torque 1.8 times of standard
T Cushion 98° Shore A (Red Colour)	Polyurethane	PU		Torque 2.5 times of standard
Spider 92° Shore A	Synthetic Rubber	NBR	ASTM D2000 BG 910	Torque 1.6 times of standard
Spider 80° Shore A	Synthetic Rubber	EPDM	ASTM D2000 AA 810	Torque as per standard
Spider 92° Shore A (Yellow Colour)	Polyurethane	PU		Torque 1.8 times of standard
Spider 98° Shore A (Red Colour)	Polyurethane	PU		Torque 2.5 times of standard

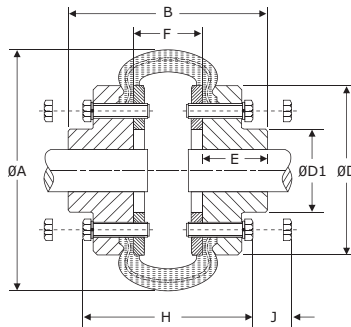
• For temperature range of Elastomers Please see on Page No. 19 - Coupling Selection



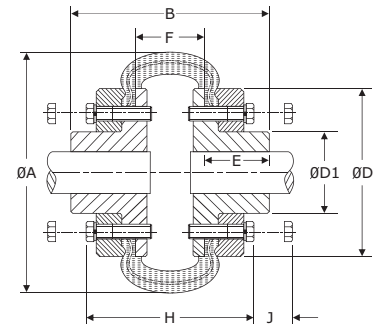
UTL UT COUPLINGS
(High Torsional Damping)



Size UT 0040 to 0060



Size UT 0070 to 0120



Size UT 0140 to 0180

FEATURES

- High flexibility & highest misalignment tolerances (Angular – Max 4°)
- Elastomer in shear - In case of failure of tyre, Torque transmission is stopped as tyre shears thus protecting the machinery
- Better protection in impact load & heavy shocks
- Easy to assemble & disassemble
- Lubrication free
- Range up to 16500 Nm Torque-ratings at max

Dimensions & Technical Data

Size	Rated Torque Nm	kW Rating at 100 rpm	Min. bore	Max. bore	Max. speed rpm	Dimensions in mm								Torsional Stiffness Nm/rad	Max. Misalignment (mm)	
						ø A	ø D	ø D1	B	E	F	H	J		Parallel	End float ±
0040	64	0.22	10	30	4500	104	82	82	67	22	22	-	43	286	1.10	1.30
0045	110	0.39	10	32	4500	120	94	94	73	25	24	-	43	515	1.20	1.50
0050	160	0.56	14	38	4500	133	100	79	92	32	25	-	43	745	1.30	1.70
0060	318	1.11	15	48	4000	165	125	73	112	38	33	-	43	1490	1.60	2.00
0070	487	1.70	15	55	3600	197	144	82	132	45	40	101	10	2349	1.90	2.30
0080	759	2.65	20	65	3100	211	167	95	150	51	43	106	10	3610	2.10	2.60
0085	915	3.20	20	70	3000	222	180	103	153	53	44	107	13	4354	2.20	2.80
0090	1096	3.82	20	76	2880	235	190	110	164	57	46	119	13	5214	2.40	3.00
0100	1517	5.29	25	85	2600	254	216	124	178	60	48	123	13	7219	2.60	3.30
0110	2137	7.46	30	90	2300	279	233	134	180	65	44	127	14	10199	2.90	3.70
0120	3547	12.40	35	102	2050	314	264	152	207	76	49	140	14	16960	3.20	4.00
0140	5642	19.70	50	120	1800	359	313	195	204	89	24	152	14	26929	3.70	4.60
0160	9339	32.60	60	140	1600	402	345	216	220	102	30	156	19	44576	4.20	5.30
0180	16500	57.40	70	150	1500	470	398	266	258	114	46	188	19	79068	4.80	6.00

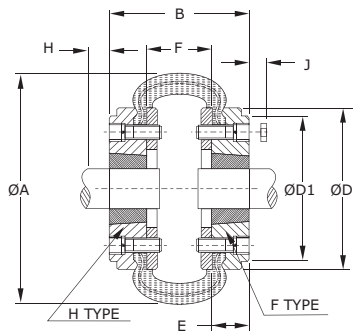
MATERIAL SPECIFICATIONS

Flange	Size-0040-0180	Cast Iron	CI	DIN 1693 GG 20
Tyre	All Size	Natural Rubber	NR	ASTM D 2000 810
Clamping Ring	Size-0040 - 0180	Mild Steel	St	BS 970
Hex Bolt	Size-0040 - 0180	High Tensile	St	ISO 4014 : Gr 8.8

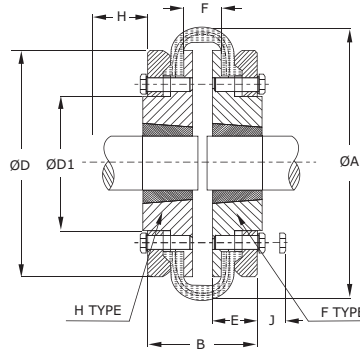




UTL UTT COUPLINGS
(High Torsional Damping)



SIZE UTT 0040 TO 0060



UTT 0070 TO 0180



FEATURES

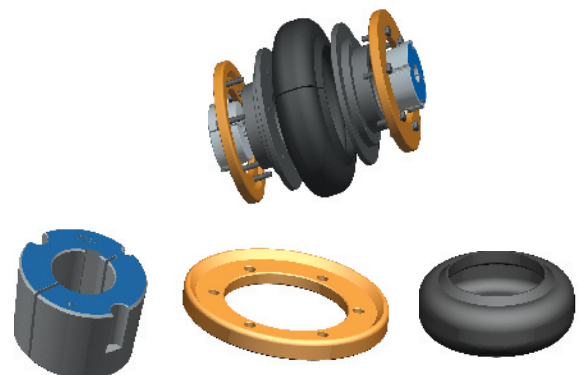
- High flexibility & highest misalignment tolerances (Angular – Max 4°)
- Elastomer in shear - In case of failure of Tyre, Torque transmission is stopped as tyre shears thus protecting the machinery
- Better protection in impact load & heavy shocks
- Easy to assemble & disassemble
- Lubrication free
- Taper lock gives clamping on shaft total surface
- Very easy and less down time in maintenance

Dimensions & Technical Data

Size	Rated Torque Nm	kW at 100 rpm	Max. Speed rpm	Type	Taper Bush Size	Max. Bore	All dimensions are in mm								Torsional Stiffness Nm/rad	Max. Misalignment (mm)	
							Ø A	Ø D	Ø D1	L	E	F	J	H		Parallel	End float ±
0040	64	0.25	4500	F/H	1008	25	104	82	-	65	22	21	17	29	286	1.10	1.30
0050	160	0.69	4500	F/H	1210	32	133	100	79	75	25	25	19	38	745	1.30	1.70
0060	318	1.33	4000	F/H	1610	42	165	125	103	80	25	30	19	38	1490	1.60	2.00
0070	47	2.62	3600	F	2012	50	197	144	82	80	32	16	9	38	2349	1.90	2.30
				H	1610	42				66	25						
0080	759	3.93	3100	F	2517	60	210	167	96	111	45	21	9	42	3610	2.10	2.60
				H	2012	50				85	32						
0090	1096	5.24	3000	F/H	2517	60	235	188	110	114	45	24	-	48	5214	2.40	3.00
0100	1517	7.07	2600	F	3020	75	254	216	125	122	51	20	-	48	7219	2.60	3.30
				H	2517	60				110	45						
0110	2137	9.16	2300	F/H	3020	75	279	233	140	123	51	21	-	55	10199	2.90	3.70
0120	3547	13.9	2050	F	3525	100	314	264	152	155	65	25	-	55	16960	3.20	4.00
				H	3020	75				127	51						
0140	5642	24.3	1800	F/H	3525	100	359	311	195	152	65	22	-	67	26929	3.70	4.60
0160	9339	39.5	1600	F/H	4030	115	395	345	216	162	77	8	-	80	44576	4.20	5.30
0180	16455	65.7	1500	F/H	4535	125	470	398	220	200	89	22	-	89	79068	4.80	6.00

MATERIAL SPECIFICATIONS

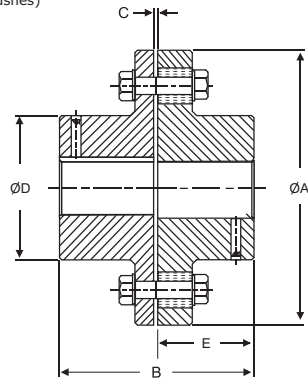
Flange	Size-0040 - 0180	Cast Iron	CI	DIN 1693 GG 20
Tyre	All Size	Natural Rubber	NR	ASTM D 2000 810
Clamping Ring	Size-0040 - 0180	Mild Steel	St	BS 970
Hex Bolt	Size-0040 - 0180	High Tensile	St	ISO 4014 : Gr 8.8
Taper Bush	Size-1008 - 4535	Cast Iron	CI	DIN 1693 GG 20





UTL UPB COUPLINGS

(Coupling with Plain bushes)



Coupling with Std. bushes



FEATURES

- Age old proven concept
- Better misaligning tolerances
- Standard bushes (Element) in Natural rubber, Different element available on request
- The flexible bushes remain unaffected by water, dust and atmospheric conditions
- Range up to 23780 Nm Torque-ratings
- Working temperature up to 70° C

Dimensions & Technical Data

Size	Rated Torque Nm	kW Rating at			Min. bore	Max. bore	Max. speed rpm	Dimensions in mm					No. of Holes
		100 rpm	1440 rpm	3000 rpm				ø A	B	E	C	ø D	
95	77	0.81	11.66	24.3	12.7	28	6100	95	79	38	3	40	3
114	310	3.25	46.8	97.5	12.7	30	5100	114	99	48	3	42	4
130	516	5.4	77.8	162	16	42	4400	130	105	51	3	60	6
160	621	6.5	93.6	195	16	48	3600	160	107	51	5	68	4
191	831	8.7	125.3	261	20	65	3000	191	125	60	5	90	4
191	1241	13	187.5	390	20	65	3000	191	125	60	5	90	6
200	1241	13	187.5	390	20	65	2800	200	125	60	5	90	6
225	1662	17.4	250.6	-	25	75	2600	225	157	76	5	105	6
254	2359	24.7	355.7	-	45	90	2300	254	183	89	5	135	8
254	2932	30.7	442	-	45	90	2300	254	183	89	5	135	10
254	3533	37	532.6	-	45	90	2300	254	183	89	5	135	12
290	4154	43.5	626.4	-	60	115	1950	290	235	115	5	170	12
300	5195	54.4	783.4	-	60	120	1900	300	235	115	5	180	14
310	5816	60.9	877	-	65	130	1850	310	255	125	5	195	16
340	7268	76.1	1096	-	65	135	1650	340	265	130	5	200	18
360	8729	91.4	1316	-	70	140	1590	360	276	135	6	210	12
390	9932	104	-	-	80	150	1470	390	316	155	6	225	14
410	13274	139	-	-	90	160	1400	410	336	165	6	240	15
440	14420	151	-	-	100	170	1300	440	366	180	6	255	16
480	18050	181	-	-	110	180	1200	480	386	190	6	270	18
530	23780	249	-	-	120	190	1080	530	406	200	6	285	20

MATERIAL SPECIFICATIONS

Hub	Size-95-360	Cast Iron	CI	DIN 1693 GG 20
Hub	Size-360-530	Cast Iron	CI	DIN 1693 GG 25
Bush 80° Shore A	All Size	Natural Rubber	NR	ASTM D2000 810
Coupling pin	All Size	Steel C 40	St	EN/DIN 10263-2

Alternative Bush for higher power ratings is available on request

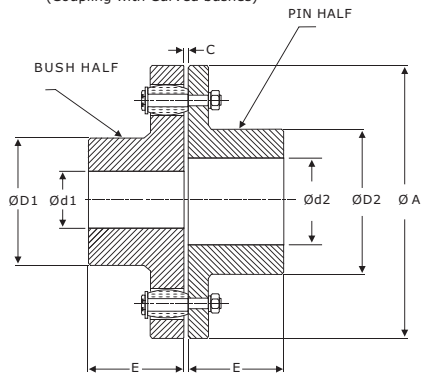
Bush 92° Shore A	All Size	Natural Rubber	NR	ASTM D2000 910	Torque 1.6 times of standard
Bush 92° Shore A (Yellow Colour)	All Size	Polyurethane	PU		Torque 1.8 times of standard
Bush 98° Shore A (Red Colour)	All Size	Polyurethane	PU		Torque 2.5 times of standard



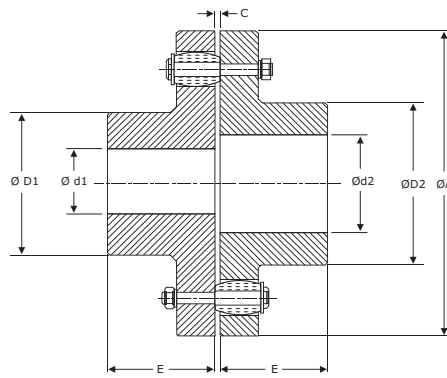


UTL UB COUPLINGS

(Coupling with Curved bushes)



Up to Size UB - 360



From Size UB - 400 On wards



FEATURES

- Assembling and dismantling is very easy
- By removing the pins, prime mover can be run independently
- Standard bushes (Elements) in Natural rubber
- After removing the pins, the hub with shaft can be removed upwards without disturbing the alignment
- The flexible bushes remain unaffected by water, dust and atmospheric conditions
- Range up to 160000 Nm Torque-ratings
- Working temperature up to 70° C

Dimensions & Technical Data

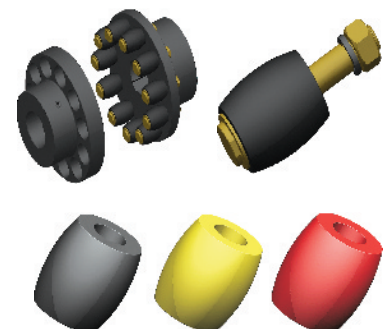
Size	Rated Torque Nm	kW Rating at 100 rpm	Maximum Speed rpm	Min Bore	Max. Bore		Ø A	Ø D1	Ø D2	E	C	Moment of Inertia kg.m ²	Max. Misalignment			No of Holes
					Ø d1	Ø d2							Axial (mm)	Radial (mm)	Angular	
105	95	1.00	7200	11	30	32	105	48	50	45	2-6	0.003	2	0.3	1°	3
116	146	1.53	6100	12	39	42	116	60	68	45	2-6	0.005	2	0.3	1°	4
125	166	1.73	5500	14	45	50	125	68	78	50	2-6	0.007	2	0.4	1°	4
144	318	3.33	4900	18	50	60	144	82	91	55	2-6	0.012	2	0.4	1°	6
162	525	5.50	4500	22	60	65	162	89	100	60	2-6	0.030	2	0.4	1°	6
178	643	6.73	3800	24	70	75	178	105	115	70	2-6	0.040	2	0.5	1°	6
198	1248	13.07	3400	28	80	90	198	124	135	80	2-6	0.062	2	0.5	1°	10
228	2050	21.47	3000	28	90	100	228	133	146	90	4-10	0.100	3	0.6	1°	11
252	3069	32.13	2700	38	105	115	252	156	167	100	4-10	0.170	3	0.6	1°	12
285	4552	47.67	2400	48	115	125	285	170	186	110	4-10	0.310	3	0.7	1°	11
320	6099	63.87	2100	55	125	135	320	196	212	125	4-10	0.530	3	0.7	1°	12
360	8900	93.20	1900	65	135	150	360	212	232	140	4-12	1.020	4	0.9	1°	11
400	12051	126.20	1700	75	160	160	400	230	230	160	4-12	1.700	4	1.1	1°	10
450	18602	194.80	1500	85	180	180	450	260	260	180	4-12	2.900	4	1.1	0.5°	12
500	25802	270.20	1350	95	200	200	500	290	290	200	4-12	4.700	4	1.1	0.5°	14
560	31003	324.67	1200	95	225	225	560	320	320	220	4-8	10.700	2	1.5	0.5°	10
630	41998	439.80	1050	100	250	250	630	355	355	240	4-8	17.400	2	1.5	0.5°	12
710	75000	785.40	950	100	260	260	710	385	385	260	5-9	33.000	2	1.8	0.5°	12
800	100000	1047.20	850	100	280	280	800	420	420	290	5-9	53.000	2	1.8	0.5°	14
900	160000	1623.13	750	100	305	305	900	465	465	320	5-9	86.000	2	1.8	0.5°	16

MATERIAL SPECIFICATIONS

Hub	Size-105-360	Cast Iron	CI	DIN 1693 GG 20
Hub	Size-360-900	Cast Iron	CI	DIN 1693 GG 25
Bush 80° Shore A	All Size	Natural Rubber	NR	ASTM D2000 810
Coupling pin	All Size	Steel C 40	St	EN/DIN 10263-2

Alternative Bush for higher power ratings is available on request

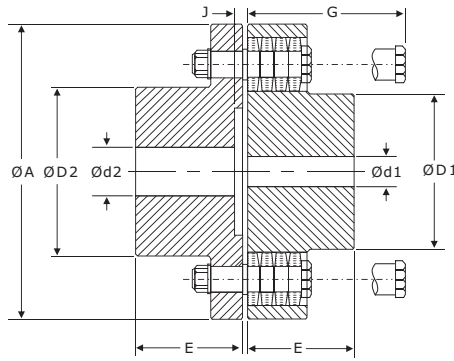
Bush 92° Shore A	All Size	Natural Rubber	NR	ASTM D2000 910	Torque 1.6 times of standard
Bush 92° Shore A (Yellow Colour)	All Size	Polyurethane	PU		Torque 1.8 times of standard
Bush 98° Shore A (Red Colour)	All Size	Polyurethane	PU		Torque 2.5 times of standard



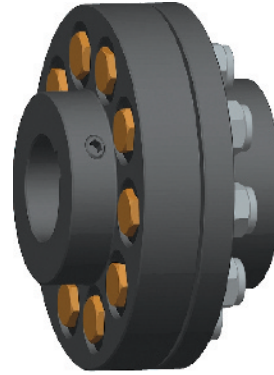


UTL URC COUPLINGS

(Coupling with Cone Rings as Elastomers)



Type URC



FEATURES

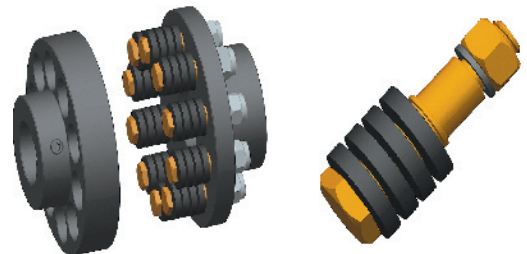
- Simple mechanism, easy to inspect and change the Flex Cone Rings, without moving either shaft or Hub of the coupling
- Flex Cone Rings are the only wear parts, Minimises running cost
- Range up to 45000 Nm Torque-ratings

Dimensions & Technical Data

Size	Rated Torque Nm	kW Rating at 100 rpm	Maximum Speed rpm	Dimensions are in mm									Moment of Inertia kg.m ² Approx (Min Bore)	Misalignment		
				Min. Bore	Max. Bore		Ø A	Ø D1	Ø D2	E	G	J		Angular °	Parallel mm	Axial mm
					Ø d1	Ø d1										
20	50	0.56	6500	12	20	28	89	35	44	33	73	6	0.002	1	0.1	1.5
30	110	1.2	4600	12	30	38	127	51	66	41	88	6	0.007	1	0.1	1.5
38	190	2.0	4400	15	38	42	132	64	72	48	88	6	0.009	1	0.1	1.5
42	290	3.0	4000	15	42	48	146	70	82	56	88	6	0.013	1	0.1	1.5
48	480	5.0	3400	21	48	55	171	82	94	61	114	6	0.034	1	0.15	1.5
58	760	8.0	3000	21	58	65	193	97	110	68	114	6	0.055	1	0.15	1.5
70	1000	11.0	2700	21	70	75	216	117	130	76	114	6	0.092	1	0.15	1.5
75	2600	27.0	2300	28	75	80	254	127	142	88	179	6	0.269	1	0.2	1.5
85	3500	37.0	2090	28	85	90	279	147	160	100	179	6	0.408	1	0.2	1.5
105	5300	56.0	1760	34	105	120	330	180	210	117	179	6	0.832	1	0.2	1.5
120	9000	94.0	1570	61	120	130	370	206	225	132	244	9	1.811	1	0.25	1.5
135	12000	128.0	1390	67	135	150	419	230	260	147	244	9	2.998	1	0.25	1.5
150	16000	167.0	1280	82	150	170	457	256	300	165	244	11	4.397	1	0.25	1.5
170	25000	258.0	1090	96	170	190	533	292	320	188	318	11	9.998	1	0.25	1.5
190	34000	360.0	975	122	190	215	597	330	380	211	318	6	15.900	1	0.40	1.5
215	45000	467.0	880	135	215	240	660	368	430	237	318	6	24.950	1	0.40	1.5

MATERIAL SPECIFICATIONS

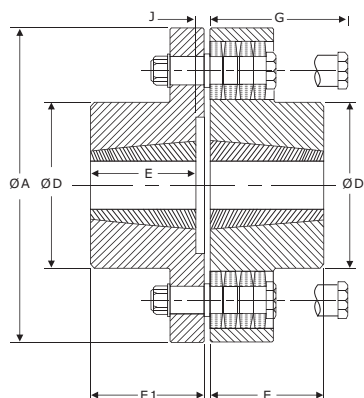
Hub	Size-20-105	Cast Iron	CI	DIN 1693 GG 20
Hub	Size-120-215	Cast Iron	CI	DIN 1693 GG 25
Cone Ring	All Size	Natural Rubber	NR	ASTM D2000 710 70° Shore A
Coupling pin	All Size	Steel C40	St	EN/DIN 10263-2





UTL URCT COUPLINGS

Coupling with Taper Bush & Cone Rings as Elastomers



Type URCT



FEATURES

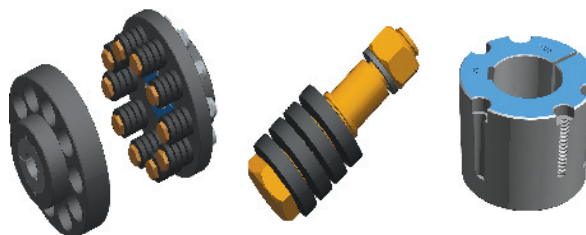
- Simple mechanism, easy to inspect and change the Flex Cone Rings, without moving either shaft or Hub of the coupling
- Flex Cone Rings are the only wear parts. Minimises running cost
- Range up to 16000 Nm Torque-ratings
- Taper lock gives clamping on shaft total surface
- Very easy and less down time in maintenance

Dimensions & Technical Data

Size	Rated Torque Nm	kW Rating at 100 rpm	Maximum Speed rpm	Taper Bush Size	Bore Range	Dimensions are in mm						Moment of Inertia kg.m ² Approx (Min Bore)	Misalignment		
						Ø A	Ø D	E	E1	G	J		Angular 0	Parallel mm	Axial mm
42	290	3.0	4000	1215	12-32	146	70	38	41	88	6	0.013	1	0.1	1.5
48	480	5.0	3400	1615	14-42	171	82	38	41	114	6	0.032	1	0.15	1.5
58	760	8.0	3000	2017	14-50	193	97	45	47	114	6	0.053	1	0.15	1.5
70	1000	11.0	2700	2525	16-60	216	117	64	68	114	6	0.088	1	0.15	1.5
75	2600	27.0	2300	2525	16-60	254	127	64	68	179	6	0.265	1	0.2	1.5
85	3500	37.0	2090	3030	24-75	279	147	76	80	179	7	0.39	1	0.2	1.5
105	5300	56.0	1760	3535	35-90	330	180	89	93	179	6	0.773	1	0.2	1.5
120	9000	94.0	1570	4040	40-100	370	206	102	106	244	10	1.718	1	0.25	1.5
135	12000	128.0	1390	4545	55-115	419	230	114	119	244	11	2.869	1	0.25	1.5
150	16000	167.0	1280	5050	70-127	457	256	127	132	244	11	4.069	1	0.25	1.5

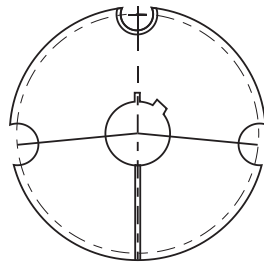
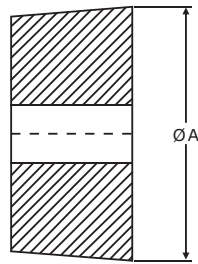
MATERIAL SPECIFICATIONS

Hub	Size-42-105	Cast Iron	CI	DIN 1693 GG 20
Hub	Size-120-150	Cast Iron	CI	DIN 1693 GG 25
Cone Ring 70° Shore A	All Size	Natural Rubber	NR	ASTM D2000 710
Coupling pin	All Size	Steel C40	St	EN/DIN 10263-2
Taper Bush	Size-1008-5050	Cast Iron	CI	DIN 1693 GG 20

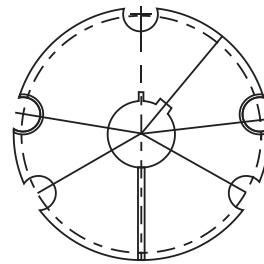




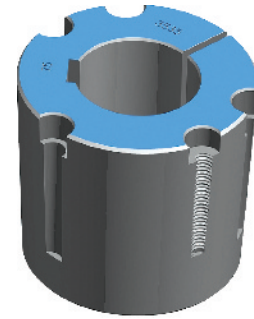
UTL TAPER BUSHES



Size 1008 to 3020



Size 3525 to 5050



FEATURES

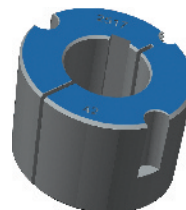
- Save time and cost in fitting.
- Interchangeable between many products.
- Convenience in dismantling for maintenance and component replacement.
- Accommodates shaft limits of +0.051mm / -0.127mm.

Dimensions & Technical Data

Size	Bore Min Metric	Bore Min Imperial	Bore Max Metric	Bore Max Imperial	ø A (mm)	Weight in Kg
1008	9	3/8"	25	1"	35	0.15
1108	9	3/8"	28	1"	38	0.18
1210	11	5/8"	32	1 1/4"	47.5	0.20
1215	11	5/8"	32	1 1/4"	48	0.40
1610	14	1/2"	42	1 5/8"	57	0.40
1615	14	1/2"	42	1 5/8"	57	0.60
2012	14	3/4"	50	2"	70	0.80
2017	14	3/4"	50	2"	70	1.20
2517	16	3/4"	60	2 1/2"	85.5	1.70
2525	16	3/4"	60	2 1/2"	86	2.10
3020	25	1 1/4"	75	3"	108	2.80
3030	35	1 1/4"	76	3"	108	4.00
3525	35	1 1/2"	100	4"	127	5.00
3535	35	1 1/2"	90	3 1/2"	127	6.50
4030	40	1 3/4"	115	4 1/4"	146	7.40
4040	40	1 3/4"	100	4"	146	10.10
4535	55	2 1/4"	125	5"	162	13.20
4545	55	2 1/4"	110	4 1/4"	162	13.20
5040	70	2 3/4"	125	5"	177.5	15.20
5050	70	2 3/4"	125	5"	178	15.20

MATERIAL SPECIFICATIONS

Taper Bush	Size-1008-5050	Cast Iron	CI	DIN 1693 GG 20
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APPLICATION CLASSIFICATION TABLES

PRIME MOVER	OPERATIONAL HOURS PER DAY	SERVICE FACTORS RELATED TO NATURE OF LOAD AND PRIME MOVER		
		UNIFORM	MODERATE SHOCK	HEAVY SHOCK
Electric Motor	24	1.2	1.5	2.0
	12	1.0	1.2	1.7
	8	0.9	1.1	1.6
	less than 8	0.8	1.0	1.3
Multi - Cylinder Int. Combustion Engine	24	1.5	1.7	2.2
	12	1.2	1.5	2.0
	8	1.1	1.3	1.9
	less than 8	0.9	1.2	1.6
Single Cylinder Int. Combustion Engine	24	1.7	2.0	2.5
	12	1.5	1.7	2.2
	8	1.3	1.6	2.1
	less than 8	1.2	1.4	1.8

APPLICATION	NATURE LOAD				NATURE LOAD		
	UNIFORM	MODERATE SHOCK	HEAVY SHOCK		UNIFORM	MODERATE SHOCK	HEAVY SHOCK
AGITATORS				HOISTS			
Pure Liquids	●			Heavy Duty			●
Liquids and Solids		●		Medium Duty		●	
Liquid - Variable Density		●		Skip		●	
BLOWERS				LAUNDRY MACHINES			
Centrifugal	●			Reversing Washers		●	
Roots		●		Tumblers		●	
BREWING & DISTILLING				MILLS			
Bottling Machinery	●			Hammer			●
Can Filling Machines	●			Tumblers			●
CLAY WORKING MACHINERY				PAPER MILLS			
Brick Press			●	Bleachers	●		
Briquette Machines			●	Beater & Pulper		●	
CONVEYORS				Loghaul			●
Belt, Bucket or Chain	●			PUMPS			
Reciprocating		●		Centrifugal	●		
CRANES				Gear	●		
Main Hoists	●			Reciprocating (3 or more cyl.)		●	
CRUSHERS				Reciprocating (1 or 2 cyl.)			●
Ore and Stone			●	RUBBER & PLASTICS			
ELEVATORS				Mixing Mills			●
Escalators	●			Laboratory Equipment		●	
Freight		●		Masticator			●
FEEDERS				SCREENS			
Reciprocating			●	Rotary - Stone or Gravel		●	
Screw		●		Vibrating			●
FOOD INDUSTRY				TEXTILES			
Dough Mixer		●		Cards, Dryers, Looms		●	
Grinder		●					

NOTE : Certain applications outside those listed above may necessitate special consideration. In such cases refer to, Utkarsh. For higher speeds, Couplings are required in Cast - Steel only. Any couplings with Steel construction are also available on request.

$\text{TORQUE Nm} = \frac{30000 \times \text{kW}}{3.1416 (\text{TT}) \times \text{rpm}}$	MULTIPLY	BY	TO OBTAIN
	FOOT _ LBS	1.3558	NEWTON - METER (Nm)
	KILOGRAM - METER (Kg-m)	9.8066	NEWTON - METER (Nm)
	HORSEPOWER (UK)	0.746	KILOWATTS (kW)
	HORSEPOWER (METRIC)	0.7355	KILOWATTS (kW)

GUIDE LINES FOR SELECTION

Service Factor : Determine service factor from application table. ● **Design Power** : Multiply running power of driven machinery by the service factor. ● **Coupling Size** : Refer selection chart for your required coupling so that rating is equal or greater than design power. ● If rpm is different than available in the charts then, torque should be calculated from the equation above and coupling should be selected with rated torque exceeding the calculated torque. ● **Bore Size** : Refer related coupling dimensional table to check that the required bores can be accommodated. If not select the higher size which will accommodate the shaft size.

UTL couplings have a wide range of working temperature applications Following are the guidelines for choosing the suitable elastomer material for your machine

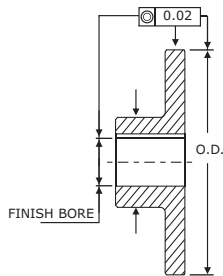
Sr. No.	Elastomer Material	Temperature Range	Chemical Resistance	Hardiness available
1	Natural Rubber (NR)	-50° to 70° C	Water, moisture, alkalis	80° & 92° Shore A
2	NBR (Syn. Rubber Heat Resistant)	-40° to 100° C	Water, petro oils, Aromatic oils, dilute acids, alcohol	92° & 98° Shore A
3	EPDM (Syn. Rubber)	-50° to 125° C	Water, acids, caustics, ketones, alcohol, esters	80° Shore A
4	Polyurethane	-30° to 70° C	Dilute acids, halogenated hydrocarbons, oils	92° & 98° Shore A
5	Stainless steel	up to 500° C	Acids, petrochemicals	n. a.

COUPLING INSTALLATION

Why a Flexible Coupling ?

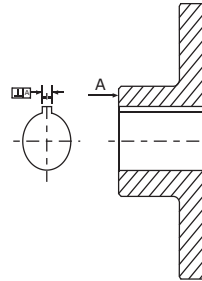
A flexible coupling connects two shafts, end-to-end in the same line, for two main purposes. The first is to transmit power (torque) from one shaft to the other, causing both to rotate in unison, at the same rpm. The second is to compensate for minor amount of misalignment and random movement between the two shafts. Belt, chain, gear & clutch drives also transmit power from one shaft to another, but not necessarily at the same rpm and not with the shaft in approximately the same line

FINISH BORE INSTRUCTION



- If coupling is supplied in pilot bore, finish bore must be done with respect to coupling outside diameter
- Generally bores are made to H7 tolerances
- For perfect alignment, dial reading should be same at 4 places 90° apart

KEY-WAY INSTRUCTION



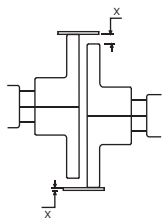
- The key-way must be in between the two adjacent holes or jaws of coupling
- Key-way to js9 tolerances

ALIGNMENT PROCEDURE

- During alignment, hold a straight edge on both the jaws & see that there is no gap. Check the gap at least at three different positions
- The gap between jaw and body should be equal and as specified
- While aligning all the foundation bolts of machine & prime mover should be made tight at aligned position
- The coupling should be free to rotate after alignment
- Check periodically that all foundation bolts are tight properly and the gap between the jaws is maintained
- While removing coupling hubs (flange) a puller should be used instead of hammer

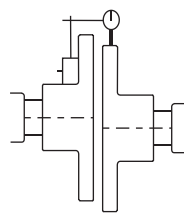
PARALLEL MISALIGNMENT

USING STRIGHT EDGE



For perfect alignment, gap 'x' should be zero at 4 places 90° apart

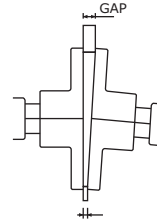
USING DIAL GAUGE



For perfect alignment, dial reading should be same at 4 places 90° apart

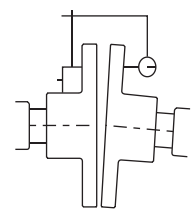
ANGULAR MISALIGNMENT

USING FILTER GAUGE



For perfect alignment, gap should be equal at 4 places 90° apart

USING DIAL GAUGE



For perfect alignment, dial reading should be same at 4 places 90° apart

Coupling construction

All Cast Iron Coupling	Machined all over & coated with rust preventive coat
Cast Iron	Phosphatized
Al Spacers (UWS)	Powder coated
Fasteners (Bolts)	High Tensile Gr. 8.8
Screws for (UWS)	S.S. 304
Outer Rings (UWS)	Powder coated