UTL FLEXIBLE COUPLINGS

Revolutionizing Rotation

www.utlcoupling.com

ABOUT US

Since 1985, UTL FLEXIBLE COUPLINGS 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 demand of both domestic and export customers who require reliability and performance in service.

UTL FLEXIBLE COUPLINGS ensure that the coupling components are engineered to maximize 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 product is 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 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 UTL FLEXIBLE COUPLINGS 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 polymers and composite technology.

As an ISO 9001:2015 certified company, UTL FLEXIBLE COUPLINGS also operates a Quality Policy and a management style which ensures that the company fully involves the work force in best practices, health and safety issues, process planning and modular stock inventory programmes. The attention to detail in all its processes helps in generating confidence that UTL FLEXIBLE COUPLINGS can provide on-time delivery, maximum product acceptability and highest reliability for its customers.

Quality Policy

To design, produce and market specified quality products at competitive costs to the customer's entire satisfaction within their time frame and continually improve the effectiveness of quality management systems.

Mission

To exceed our customer's expectations through the provision of continual innovation of its products and technological solutions which ensure to maximum reliability in services.

Vision

To be one of the most trusted and dependable providers of flexible coupling solutions on a global scale.

Index

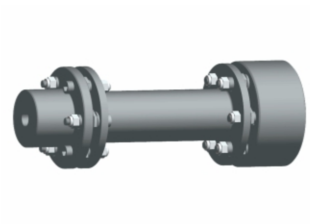
UTL FLEXIBLE COUPLINGS

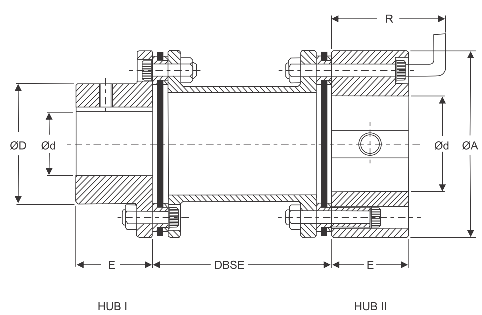
Utkarsh®

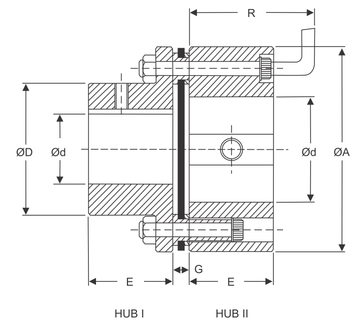
FLEXIBLE COUPLINGS

Revolutionizing Rotation

UTL UMS / 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 26740 Nm
- Added advantage of stretch fitted shim pack

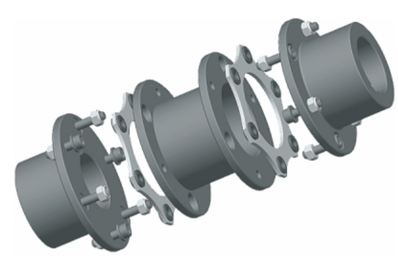
DIMENSIONS & TECHNICAL DATA

Coupling Size	Rated Torque Nm	kW at 100 rpm	Max Speed rpm	Dimensions are in mm								Wt in Kg approx	Moment of inertia (kg.m²)		Tors. Stiffness radian Approx
				Min. Bore Ød	Max. Bore Ød		DBSE	ØA	ØD	E	G		Min. Std. "DBSE"	Per Mtr Extra "DBSE"	
					Hub I	Hub II									
5	65	0.68	7500	8	20	22	100	55	30	25	5.2	0.64	0.0002	0.0003	0.016
10	97	1.02	7500	10	22	25	140	63	35	30	6.5	0.98	0.0003	0.0004	0.031
35	230	2.41	7000	12	30	38	100 140 180 250	82	45	40	6.5	2.47	0.0017	0.00047	0.025
95	616	6.45	6000	17	40	50		102	57	45	8.0	3.87	0.004	0.001	0.04
170	1339	14.02	5200	17	52	70		128	77	55	9.5	7.38	0.012	0.005	0.099
220	2230	23.35	4800	22	65	80		146	94	60	11.8	8.99	0.036	0.008	0.176
400	4555	47.70	4400	27	80	100		176	115	70	13.0	15.13	0.070	0.0200	0.305
520	6210	65.03	4200	32	90	115	140 180 250	197	132	90	14.4	24.04	0.130	0.0355	0.432
1000	9615	100.69	4000	42	105	130		225	147	95	16.2	32.46	0.240	0.0541	0.60
1300	13690	143.36	3800	47	115	140	180	250	162	105	19.5	47.53	0.500	0.0700	0.80
2000	17640	184.73	3700	52	120	155	250	275	178	115	21.5	65.39	0.660	0.1486	1.50
2500	26740	280.02	3600	62	135	165	300	300	190	130	23.5	83.78	1.000	0.1000	1.40

- For non standard DBSE please contact UTL

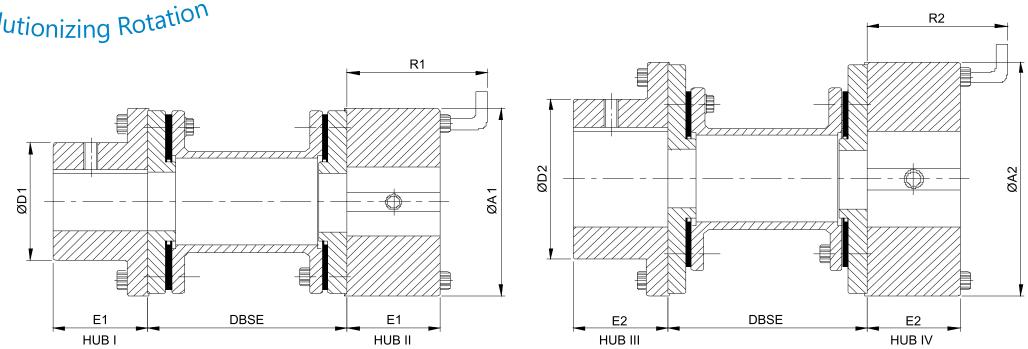
MATERIAL SPECIFICATIONS

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 - 5 - 2500	Stainless Steel	SS	



Atex Certified Coupling Available on request

- For temperature range of elastomers please see on page no. 47 - coupling selection



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 26740 Nm
- Added advantage of stretch fitted shim pack
- **API 671 compliance available on request**
- **API 610 compliance available on request**

DIMENSIONS & TECHNICAL DATA

Size	Rated Torque Nm	kW at 100 rpm	Max. Speed rpm	Dimensions are in mm																Weight in kg Approx		Moment of Inretia (kgm^2)		Tors. Stiffness radial Approx
				Min. Bore Ød	Max. Bore Ød				Min. DBSE	Std. DBSE	E1	E2	ØA1	ØA2	ØD1	ØD2	R1	R2		Min.Std. "DBSE"	Per Mtr Extra "DBSE"	Min.Std. "DBSE"	Per Mtr Extra "DBSE"	
					Hub I	Hub II	Hub III	Hub IV																
4	65	0.68	7500	8	19	32	24	42	55		25	30	61	69	32	40	70	80		1.30	1.20	0.001	0.0001	0.016
8	97	1.02	7500	10	24	42	38	48	65	100	30	40	69	90	40	55	80	90		1.20	1.30	0.001	0.0002	0.030
25	230	2.41	7000	12	38	48	48	72	70	140	40	45	90	108	55	70	90	105		3.76	2.41	0.0038	0.0005	0.035
65	616	6.45	6000	17	48	72	65	92	80	180	45	55	108	135	70	86	105	120		6.00	2.70	0.009	0.0009	0.040
125	1339	14.02	5200	17	65	92	80	102	90		55	60	135	152	86	108	120	125		11.10	7.00	0.030	0.0015	0.095
165	2230	23.35	4800	22	80	102	90	120	120		60	70	152	182	108	130	125	135		17.00	8.40	0.060	0.0088	0.170
370	4555	47.70	4400	27	90	120	108	140	130	140	70	90	182	197	130	158	135	155		28.40	13.10	0.130	0.0213	0.300
390	6210	65.03	4200	32	108	140	127	155	130	180	90	95	197	225	158	181	155	160		38.30	12.82	0.234	0.0360	0.430
790	9615	100.69	4000	42	127	155	140	178	135	250	95	105	225	250	181	206	160	170		53.18	19.21	0.418	0.0530	0.600
1025	13690	143.36	3800	47	140	178	155	192	140		105	115	250	275	206	223	170	190		74.40	27.10	0.700	0.0670	0.800
1425	17640	184.73	3700	52	155	192	170	212	150	180	115	130	275	300	223	248	190	215		98.63	34.60	1.134	0.1400	1.100
1880	26740	280.02	3600	62	170	212	190	255	175	250	130	145	300	375	248	280	215	245		128.10	42.80	1.700	0.1600	1.500

- For non standard DBSE please contact UTL

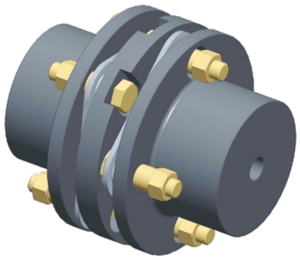
MATERIAL SPECIFICATIONS

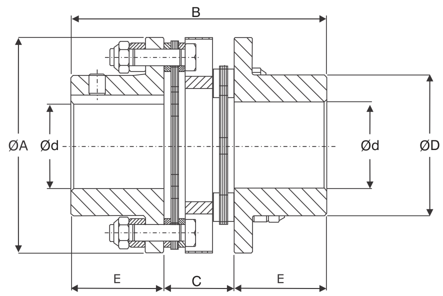
Hub	Size - 4 - 1880	Steel C 40	St	EN/DIN 10263 - 2
Spacer	Size - 4 - 1880	Steel C 40	St	EN/DIN 10263 - 2
Disc Pack	Size - 4 - 1880	Stainless Steel	SS	

Atex Certified Coupling Available on request

- For temperature range of elastomers please see on page no. 47 - coupling selection

UTL UMSS COUPLING
(Short spacer)





FEATURES

- Suitable for closed couple applications where spacer cannot be used
- Ideal for replacing lubricated gear couplings
- Designed for moderate speed applications
- Design consists of unitized disc packs

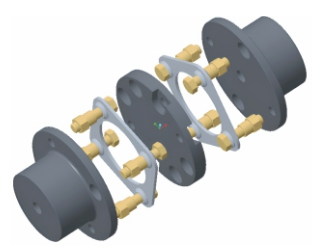
DIMENSIONS & TECHNICAL DATA

Size	Rated Torque Nm	Max. Speed rpm	Max. Bore Ød	Dimensions are in mm				
				ØA	ØD	E	C	B
20	30	20000	20	56	32	20	18	58
25	60	16000	25	68	40	25	20	70
35	120	13000	35	82	54	40	22	102
38	240	12000	38	94	58	45	28	118
42	320	10000	42	104	68	45	34	124
50	470	8000	50	126	78	55	34	144
60	900	6700	60	138	88	55	34	144
70	1300	5900	70	156	102	65	36	166
80	1800	5100	80	179	117	75	-	-
85	2600	4750	85	191	123	80	-	-
90	4600	4300	90	210	132	80	-	-
105	5600	4000	105	225	147	90	-	-
115	9900	3400	115	265	163	100	-	-
135	13500	3000	135	305	184	135	-	-

- For non standard DBSE please contact UTL

MATERIAL SPECIFICATIONS

Hub	Size - 20 - 135	Steel C 40	St	EN/DIN 10263 - 2
Spacer	Size - 20 - 135	Steel C 40	St	EN/DIN 10263 - 2
Disc Pack	Size - 20 - 135	Stainless Steel	SS	



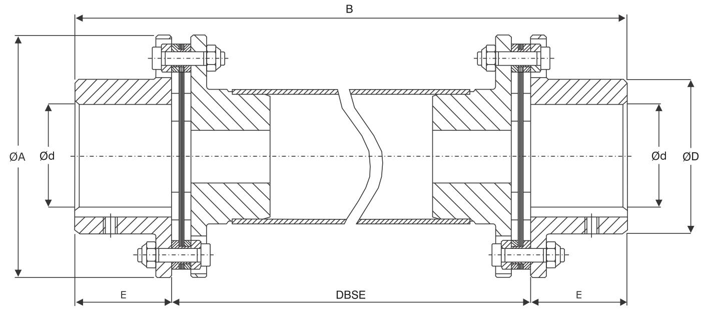
Atex Certified Coupling Available on request

- For temperature range of elastomers please see on page no. 47 - coupling selection

UTL FLEXIBLE COUPLINGS

Utkarsh® FLEXIBLE COUPLINGS Revolutionizing Rotation

UTL UMSE COUPLING
(Extra Long Spacer Coupling)



FEATURES

- Customised spacer length available
- Max. shaft distance dimension up to approx. 6 m
- Welded intermediate pipes for high torsional rigidity
- Design consists of unitized disc packs

DIMENSIONS & TECHNICAL DATA

Size	Rated Torque Nm	Max. Speed rpm	Max. Bore Ød	Dimensions are in mm				
				ØA	ØD	E	B	DBSE
20	30	20000	20	56	32	20	B=DBSE+E+E	Intermediate shaft dimension according to customer specification
25	60	16000	25	68	40	25		
35	120	13000	35	82	54	40		
38	240	12000	38	94	58	45		
42	320	10000	42	104	68	45		
50	470	8000	50	126	78	55		
60	900	6700	60	138	88	55		
70	1300	5900	70	156	102	65		
80	1800	5100	80	179	117	75		
85	2600	4750	85	191	123	80		
90	4600	4300	90	210	132	80		
105	5600	4000	105	225	147	90		
115	9900	3400	115	265	163	100		
135	13500	3000	135	305	184	135		

- For non standard DBSE please contact UTL

MATERIAL SPECIFICATIONS

Hub	Size - 20 - 135	Steel C 40	St	EN/DIN 10263 - 2
Spacer	Size - 20 - 135	Steel C 40	St	EN/DIN 10263 - 2
Disc Pack	Size - 20 - 135	Stainless Steel	SS	

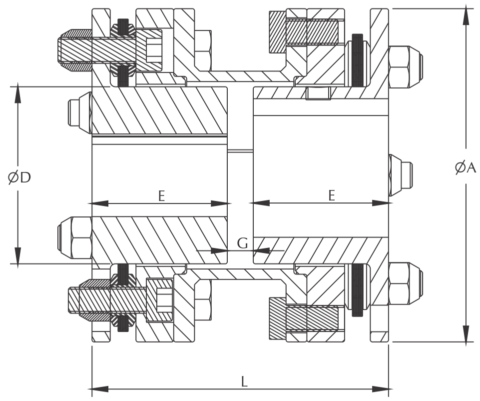
Atex Certified Coupling Available on request

- For temperature range of elastomers please see on page no. 47 - coupling selection

UTL FLEXIBLE COUPLINGS

Utkarsh®
FLEXIBLE COUPLINGS
Revolutionizing Rotation

UTL UEMSI COUPLING
(Inverted Hub Split Spacer Coupling)



FEATURES

- Best suited for minimum shaft to shaft design.
- Split spacer allows easy replacement of disc pack.
- Low maintainance cost.
- Best alternative for pin bush & gear coupling.
- Less weight design against high speed and high torque.
- **API 671** compliance available on request
- **API 610** compliance available on request

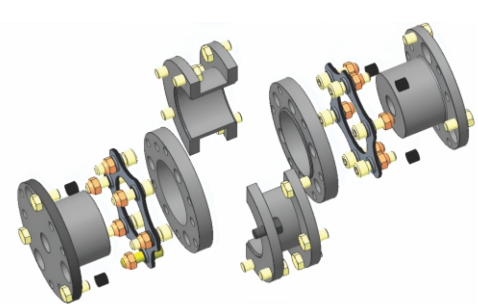
DIMENSIONS & TECHNICAL DATA

Size	Rated Torque Nm	kW at 100 rpm	Max. Speed rpm	Dimensions are in mm							Wt in. Kg Appx.	Moment of inertial (kg.m2)
				Min. Bore Ød	Max. Bore Ød	GAP-G	E	ØA	ØD	L		
4	65	0.68	7500	8	17	5.2	25	61	24	55.2	On request UTL will provide data.	On request UTL will provide data.
8	97	1.02	7500	10	19	6.5	30	69	27	66.5		
25	230	2.41	7000	12	26	6.5	40	90	37	86.5		
65	616	6.45	6000	17	34	8	45	108	47	98.0		
125	1339	14.02	5200	17	49	9.5	55	135	69	119.5		
165	2230	23.35	4800	22	61	11.8	60	152	85	131.8		
370	4555	47.70	4400	27	72	13	70	182	101	153.0		
390	6210	65.03	4200	32	85	14.4	90	197	119	194.4		
790	9615	100.69	4000	42	96	16.2	95	225	134	206.2		
1025	13690	143.36	3800	47	101	19.5	105	250	142	229.5		
1425	17640	184.73	3700	52	110	21.5	115	275	154	251.5		
1880	26740	280.02	3600	62	116	23.5	130	300	162	283.5		

- For non standard DBSE please contact UTL

MATERIAL SPECIFICATIONS

Hub	Size - 4- 1880	Steel C 40	St	EN/DIN 10263 - 2
Spacer	Size - 4- 1880	Steel C 40	St	EN/DIN 10263 - 2
Disc Pack	Size - 4- 1880	Stainless Steel	SS	



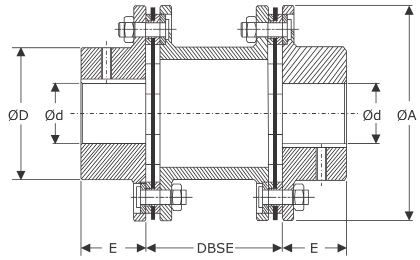
Atex Certified Coupling Available on request

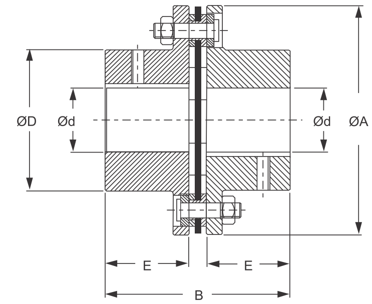
- For temperature range of elastomers please see on page no. 47 - coupling selection

UTL FLEXIBLE COUPLINGS

Utkarsh®
FLEXIBLE COUPLINGS
Revolutionizing Rotation

UTL UMS2 / UMK2 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 13500 Nm
- Added advantage of stretch fitted shim pack

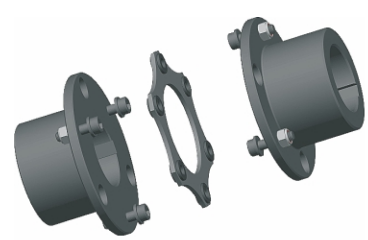
DIMENSIONS & TECHNICAL DATA

Size	Rated Torque Nm	Max. Speed rpm	Max. Bore Ød	Dimensions are in mm					B		Torsional Stiffness Nm/radial Approx	Wt in. Kg	Wt in. Kg	Moment of inertia (kg.m^2)
				Minimum DBSE	Std. DBSE Available	E	ØA	ØD	UMK2	UMS2		UMK2	UMS2	
20	30	20000	20	60	100 140 180 250 300	20	56	32	45	100	0.017	On request UTL will provide data.	On request UTL will provide data.	On request UTL will provide data. According to spacer length.
25	60	16000	25	60		25	68	40	56	110	0.028			
35	120	13000	35	70		40	82	54	86	150	0.092			
38	240	12000	38	80		45	94	58	98	170	0.198			
42	320	10000	42	80		45	104	68	100	170	0.282			
50	470	8000	50	96		55	126	78	121	206	0.501			
60	900	6700	60	96		55	138	88	121	206	0.560			
70	1300	5900	70	116		65	156	102	141	246	0.900			
80	1800	5100	80	136		75	179	117	164	286	1.140			
85	2600	4750	85	140		80	191	123	175	300	1.520			
90	4600	4300	90	140		80	210	132	175	300	1.940			
105	5600	4000	105	160		90	225	147	200	340	2.540			
115	9900	3400	115	170		100	265	163	223	370	3.480			
135	13500	3000	135	250		135	305	184	297	520	6.850			

- For non standard DBSE please contact UTL

MATERIAL SPECIFICATIONS

Hub	Size - 20 - 135	Steel C 40	St	EN/DIN 10263 - 2
Spacer	Size - 20 - 135	Steel C 40	St	EN/DIN 10263 - 2
Disc Pack	Size - 20 - 135	Stainless Steel	SS	



Atex Certified Coupling Available on request

- For temperature range of elastomers please see on page no. 47 - coupling selection

UTL FLEXIBLE COUPLINGS

RELIABILITY IN ROTATION

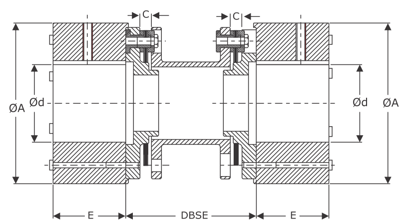
Utkarsh®

FLEXIBLE COUPLINGS

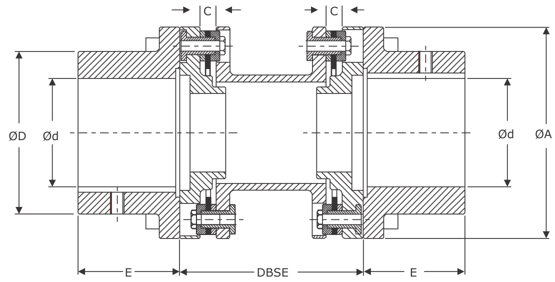
Revolutionizing Rotation

UTL UMSR2 COUPLINGS

(Metalflex Couplings Antifly Design)



Size : 35



Size : 50-160

FEATURES

- Series for pump drives
- Coupling in accordance with **API 610, API 671 optionally**
- Available with large hub for bigger bore diameters
- Spacers are supplied assembled by the manufacturer
- Finish bore according to ISO fit H7, feather key according to DIN 6885 sheet 1 - JS9

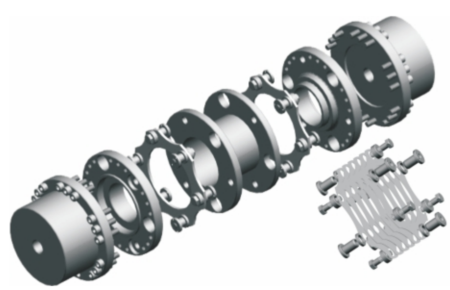
DIMENSIONS & TECHNICAL DATA

Size	Rated Torque Nm	Max. Speed rpm	Dimensions are in mm										Wt in. Kg	Moment of inertia (kg.m²)
			Max. Bore Ød	ØD	ØA	E	C	DBSE						
35	130	22800	50	-	75	38.5	6	100	140	-	-	-	On request UTL will provide data.	On request UTL will provide data. According to spacer length.
50	270	17900	50	70	95	50	9	100	140	-	-	-		
65	550	13500	65	100	126	63	10	100	140	180	-	-		
75	1100	12200	75	105	138	62.5	10	100	140	180	-	-		
85	1900	10900	85	120	156	72.5	12	-	140	180	200	250		
110	3500	8900	110	152	191	87	12	-	140	180	200	250		
120	5750	8000	120	165	213	102	12	-	-	180	200	250		
140	10500	6300	140	200	265	126	15	-	-	-	200	250		
160	16000	5500	160	230	305	145	15	-	-	-	-	250		

- For non standard DBSE please contact UTL

MATERIAL SPECIFICATIONS

Hub	Size - 35 - 160	Steel C 40	St	EN/DIN 10263 - 2
Spacer	Size - 35 - 160	Steel C 40	St	EN/DIN 10263 - 2
Disc Pack	Size - 35 - 160	Stainless Steel	SS	



Atex Certified Coupling Available on request

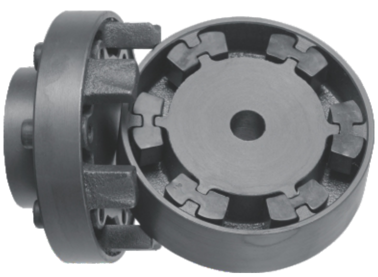
- For temperature range of elastomers please see on page no. 47 - coupling selection

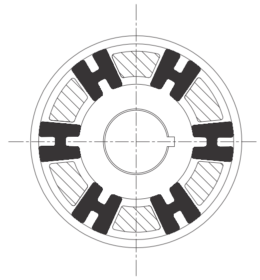
UTL FLEXIBLE COUPLINGS

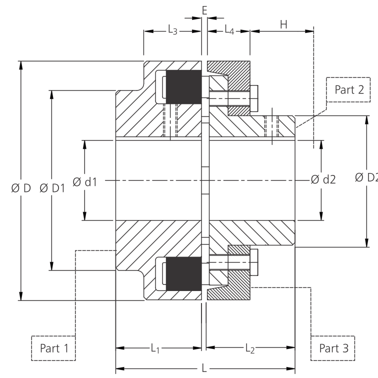
Utkarsh® FLEXIBLE COUPLINGS

Revolutionizing Rotation

UTL UN TYPE A COUPLINGS







FEATURES

- Coupling made of cast iron GG 25
- Elastomer parts can be replaced without removing the coupling
- Torsionally flexible, maintenance free, vibration-damping
- Axial plug-in, fail-safe
- Finish bore according to ISO fit, feather keyway according to DIN 6885 sheet 1 - JS9 and P9

DIMENSIONS & TECHNICAL DATA

Size A	Rated Torque Nm	Max. Torque Nm	Max. Speed rpm	Pilot Bore mm	Max. Bore		Dimensions are in mm										Wt in Kg approx	Moment of inertia (kg.m²)
					Ød1 mm	Ød2 mm	ØD	ØD1	ØD2	L	L1	L2	L3	L4	E	H*		
110	160	480	5000	-	48	38	110	86	62	82	40	40	34	20	2-4	33	3.90	0.0094
125	240	720	5000	-	55	45	125	100	75	102	50	50	36	23.5	2-4	38	6.123	0.022
140	360	1080	4900	-	60	50	140	100	82	112	55	55	34	28	2-4	43	8.151	0.037
160	560	1680	4250	-	65	58	160	108	95	122	60	60	40	28	2-6	47	11.21	0.062
180	880	2640	3800	-	75	65	180	125	108	142	70	70	42	30	2-6	50	16.45	0.12
200	1340	4020	3400	-	85	75	200	140	122	162	80	80	47	32.5	2-6	53	23.2	0.218
225	2000	6000	3000	-	90	85	225	150	136	182	90	90	52	38	2-6	61	32.53	0.395
250	2800	8400	2750	44	100	95	250	165	155	203	100	100	60	42	3-8	69	43.59	0.675

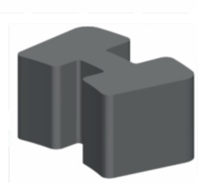
- * H = Distance for disassembly
- Permissible temperature range of ambient air and machine shaft ends between -30°C and +80°C

MATERIAL SPECIFICATIONS

Hub	Size -110 - 250	Cast Iron	CI	DIN 1693 GG 25
H cushion 80° shore A	Size -110 - 250	Nitrile Rubber	NBR	ASTM D2000 BG 810

- Alternative for higher power ratings

H cushion 92° shore A	Size -110 - 250	Nitrile Rubber	NBR	ASTM D2000 BG 910

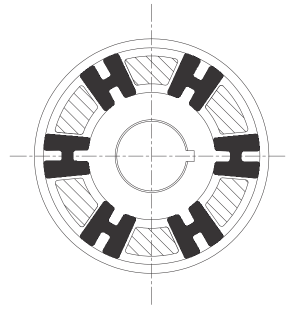


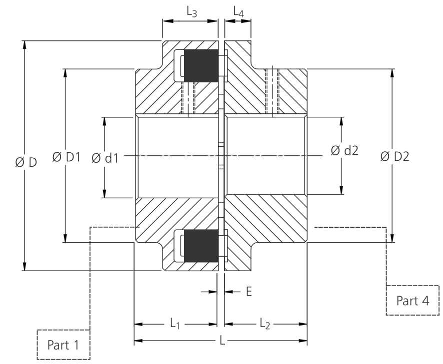
Atex Certified Coupling Available on request

- For temperature range of elastomers please see on page no. 47 - coupling selection

UTL FLEXIBLE COUPLINGS

Utkarsh®
FLEXIBLE COUPLINGS
Revolutionizing Rotation





FEATURES

- Coupling made of cast iron GG 25
- Torsionally flexible, maintenance free, vibration-damping
- Axial plug-in, fail-safe
- Finish bore according to ISO fit, feather keyway according to DIN 6885 sheet 1 - JS9 and P9

DIMENSIONS & TECHNICAL DATA

Size B	Rated Torque Nm	Max. Torque Nm	Max. Speed rpm	Pilot Bore mm	Max. Bore		Dimensions are in mm									Weight in Kg approx	Moment of inertia (kg.m²)
					Ød1mm	Ød2mm	ØD	ØD1	ØD2	L	L_1	L_2	L_3	L_4	E		
58	19	57	5000	-	19	24	58	-	40	42	20	20	20	8	2-4	0.527	0.0003
68	34	102	5000	-	24	28	68	-	50	42	20	20	20	8	2-4	0.739	0.0005
80	60	180	5000	-	30	38	80	-	68	62	30	30	30	10	2-4	1.786	0.0028
95	100	300	5000	-	42	42	95	76	76	72	35	35	30	12	2-4	2.759	0.0057
110	160	480	5000	-	48	48	110	86	86	82	40	40	34	14	2-4	4.133	0.0112
125	240	720	5000	-	55	55	125	100	100	102	50	50	36	18	2-4	6.664	0.0274
140	360	1080	4900	-	60	60	140	100	100	112	55	55	34	20	2-4	8.253	0.0402
160	560	1680	4250	-	65	65	160	108	108	122	60	60	40	20	2-6	11.041	0.0633
180	880	2640	3800	-	75	75	180	125	125	142	70	70	42	20	2-6	16.447	0.125
200	1340	4020	3400	-	85	85	200	140	140	162	80	80	47	24	2-6	23.724	0.234
225	2000	6000	3000	-	90	90	225	150	150	182	90	90	52	18	2-6	30.626	0.37
250	2800	8400	2750	44	100	100	250	165	165	203	100	100	60	18	3-8	39.455	0.588

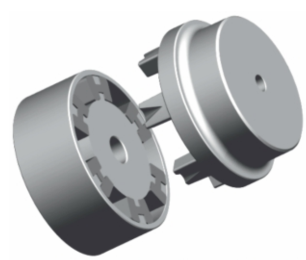
- Permissible temperature range of ambient air and machine shaft ends between -30°C and +80°C

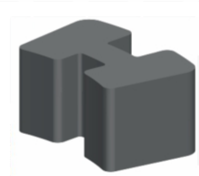
MATERIAL SPECIFICATIONS

Hub	Size -58 - 250	Cast Iron	CI	DIN 1693 GG 25
H cushion 80° shore A	Size -58 - 250	Nitrile Rubber	NBR	ASTM D2000 BG 810

- Alternative for higher power ratings

H cushion 92° shore A	Size -58 - 250	Nitrile Rubber	NBR	ASTM D2000 BG 910



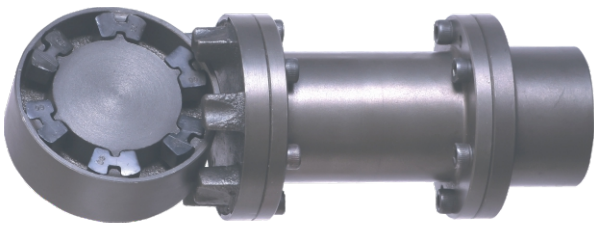


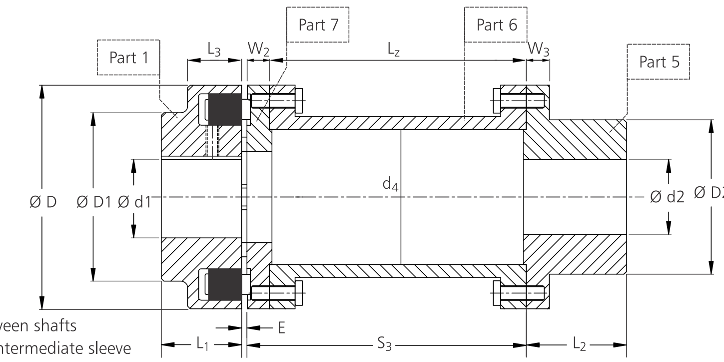
Atex Certified Coupling Available on request

- For temperature range of elastomers please see on page no. 47 - coupling selection

UTL FLEXIBLE COUPLINGS

Utkarsh®
FLEXIBLE COUPLINGS
Revolutionizing Rotation





S_3 - Space between shafts
L_z - Length of intermediate sleeve

FEATURES

- Coupling made of cast iron GG 25
- Torsionally flexible, maintenance free, vibration-damping
- Axial plug-in, fail-safe
- Finish bore according to ISO fit, feather keyway according to DIN 6885 sheet 1 - JS9 and P9

DIMENSIONS & TECHNICAL DATA

Size H	Rated Torque Nm	Max. Torque Nm	Max. Speed rpm	Pilot Bore mm	Max. Bore		Dimensions are in mm												Weight in Kg	Moment of inertia (kg.m²)
					Ød1mm	Ød2mm	Ød4mm	ØD	ØD1	ØD2	L_z*	L_1	L_2	L_3	S_3	W_2	W_3	E		
80	60	180	5000	-	30	32	51	80	-	55	87	30	45	30	100	10	9	5-7	On request UTL will provide data.	On request UTL will provide data. According to spacer length.
95	100	300	5000	-	42	42	63	95	75	70	87	35	45	30	100	10	9	5-7		
110	160	480	5000	-	48	48	73	110	86	80	125	40	50	34	140	12	11	5-7		
125	240	720	5000	-	55	55	85	125	100	90	125	50	60	36	140	12	11	5-7		
140	360	1080	4900	-	60	60	91	140	100	100	162	55	65	34	180	15	15	5-7		
160	560	1680	4250	-	65	65	111	160	108	108	182	60	70	39	200	15	15	6-8		
180	880	2640	3800	-	75	75	131	180	125	125	182	70	80	42	200	15	15	6-8		
200	1340	4020	3400	-	85	85	144	200	140	140	228	80	90	47	250	18	18	6-8		
225	2000	6000	3000	-	90	90	160	225	150	150	228	90	100	52	250	18	18	6-8		
250	2800	8400	2750	44	100	100	185	250	165	165	222	100	110	60	250	23	21	8-10		

- Lz* = Standard dimensions, for other dimensions, please specify when ordering

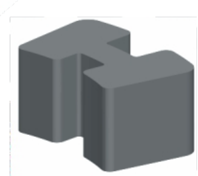
Permissible temperature range of ambient air and machine shaft ends between -30°C and +80°C

MATERIAL SPECIFICATIONS

Hub	Size -80 - 250	Cast Iron	CI	DIN 1693 GG 25
Spacer	Size -80 - 250	Cast Iron	CI	DIN 1693 GG 25
H cushion 80° shore A	Size -80 - 250	Nitrile Rubber	NBR	ASTM D2000 BG 810

- Alternative for higher power ratings

H cushion 92° shore A	Size -80 - 250	Nitrile Rubber	NBR	ASTM D2000 BG 910



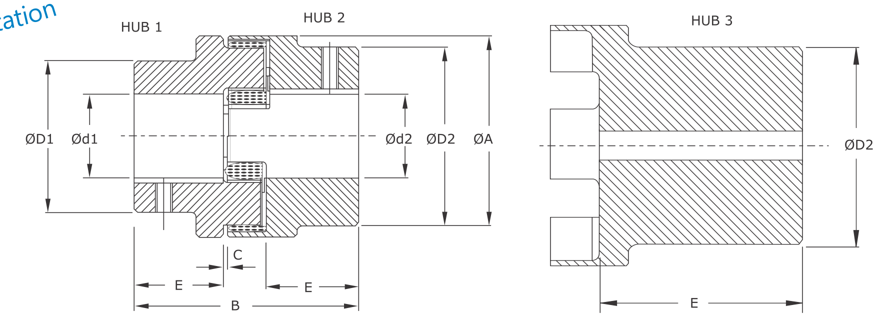
Atex Certified Coupling Available on request

- For temperature range of elastomers please see on page no. 47 - coupling selection

UTL FLEXIBLE COUPLINGS

Utkarsh®
FLEXIBLE COUPLINGS
Revolutionizing Rotation

UTL UTEX COUPLINGS
(Curved Jaw with PU Spider)



FEATURES

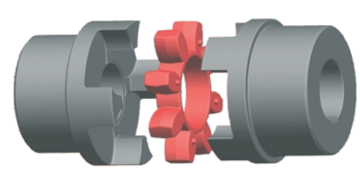
- Torsionally flexible. maintenance free
- Machined surfaces improve the dynamic properties
- Compact design

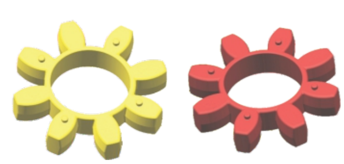
DIMENSIONS & TECHNICAL DATA

Size	Component	Rated Torque Nm 92° Shore A (Yellow Colour)	Rated Torque Nm 98° Shore A (Red Colour)	Max Speed rpm	Min. Bore	Max. Bore Ød1 / Ød2	ØA	ØD1 / ØD2	E	C	B	Weight in Kg Pilot Bore	Moment of inertia (kg.m²)
14	Hub 2	7.5	12.5	19000	6	16	30	30	11	1.5	35	On request UTL will provide data. According to Hub combination.	On request UTL will provide data. According to Hub combination.
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	70		164		
	Hub 3												
42	Hub 1	265	450	6000	14	45	95	75	50	3	126		
	Hub 2					55		94	75		176		
	Hub 3												
48	Hub 1	310	525	5600	15	52	105	85	56	3.5	140		
	Hub 2					62		104	80		188		
	Hub 3												
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 - 14 - 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	

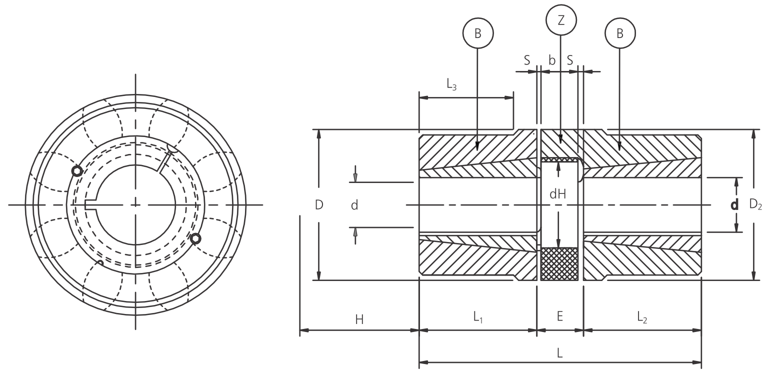




Atex Certified Coupling Available on request

- For temperature range of elastomers please see on page no. 47 - coupling selection

UTL UTEX (TAPER) COUPLINGS



FEATURES

- Hubs made of cast iron GG25
- Torsionally flexible, maintenance free, vibration-damping
- Axial plug-in, fail-safe
- Varying elastomer hardness of spiders
- Compact design with small flywheel effect
- Available in two mounting version / Type H (external mounting) and type F (Internal mounting)
- Easy assembly / disassembly of the coupling hubs
- Short mounting length

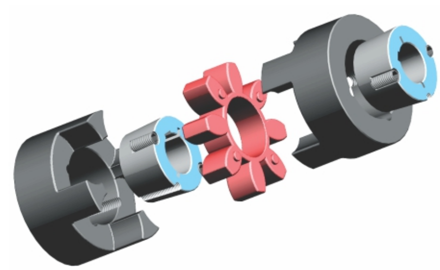
DIMENSIONS & TECHNICAL DATA

Size	For Taper Bush	Finish bore Ød mm		Dimensions are in mm												
		Min. Bore	Max. Bore	ØD	ØD2	L	L_1	L_2	L_3	E	S	b	Ød$_H$	H*	Weight in Kg approx without taper bush	Moment of inertia (kg.m^2) without taper bush
24	1008	9	25	55	55	64	23	23	-	18	2	14	27	16	0.889	0.0003
28	1108	9	28	65	65	66	23	23	-	20	2.5	15	30	18	1.273	0.0007
38	1108	9	28	80	78	70	23	23	15	24	3	18	38	19	2.033	0.0017
42	1610	14	42	95	94	78	26	26	16	26	3	20	46	21	3.081	0.0036
48	1615	14	42	105	104	106	39	39	28	28	3.5	21	51	22	5.38	0.0076
55	2012	14	50	120	118	96	33	33	20	30	4	22	60	23	6.066	0.0112
65	2012	14	50	135	115	101	33	33	19	35	4.5	26	68	27	9.083	0.0214
75	2517	16	60	160	158	144	46	52	36	40	5	30	80	31	13.175	0.0381
90	3020	25	75	200	160	149	52	52	33	45	5.5	34	100	35	21.289	0.0956

- H* - H is the minimum dimension required for the disassembly of the couplings in the radial direction

MATERIAL SPECIFICATIONS

Hub	Size - 24 - 90	Cast Iron	CI	EN-GJL - 250 (GG 25)
Spider 92° Shore A (Yellow Colour)	Size - 24 - 90	Polyurethane	PU	
Spider 98° Shore A (Red Colour)	Size - 24 - 90	Polyurethane	PU	

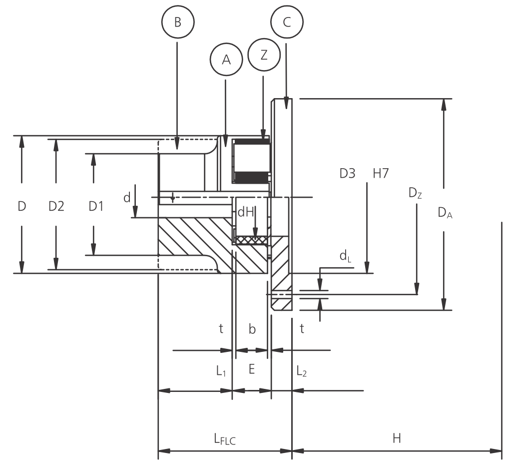


- For temperature range of elastomers please see on page no. 47 - coupling selection

UTL FLEXIBLE COUPLINGS

Utkarsh®
FLEXIBLE COUPLINGS
Revolutionizing Rotation

UTL UTEX FLANGE A TYPE COUPLINGS



FEATURES

- Flanged version for general mechanical engineering applications requiring a flange to shaft connection
- Coupling hub A+B from the UTEX series (with clamping hub) can be used if required

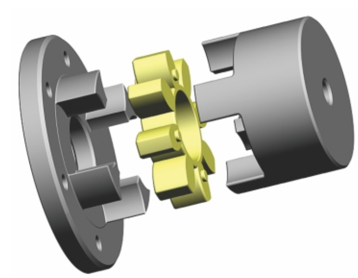
DIMENSIONS & TECHNICAL DATA

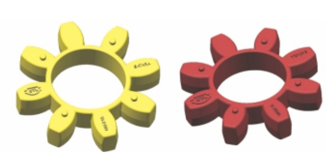
Size A	Finish bore				Dimensions are in mm																No. of Screws	Weight in Kg	Moment of inertia (kg.m²)
	Hub A Ød (mm)		Hub B Ød (mm)		L_{FLC}	L_1	L_2	L_3	E	b	t	D_A	ØD	ØD1	ØD2	ØD3	$ØD_Z$	d_H	d_L	H*			
	Min	Max	Min	Max																			
24	10	24	14	32	56	30	8	8	18	14	2	80	55	40	55	55	65	27	4.5	16	5	On request UTL will provide data.	On request UTL will provide data.
28	12	28	28	38	65	35	10	10	20	15	2.5	100	65	48	65	65	80	30	6.6	18	6		
38	14	38	38	45	79	45	10	10	24	18	3	115	80	66	79	80	95	38	6.6	19	6		
42	19	42	42	55	88	50	12	12	26	20	3	140	95	75	94	95	115	46	9.0	21	6		
48	19	48	48	60	96	56	12	12	28	21	3.5	150	105	85	102	105	125	51	9.0	22	8		
55	19	55	55	70	111	65	16	16	30	22	4	175	120	98	118	120	145	60	11.0	23	8		
65	22	65	65	75	126	75	16	16	35	26	4.5	190	135	115	132	135	160	68	11.0	27	10		
75	30	75	75	90	144	85	19	19	40	30	5	215	160	135	158	160	185	80	13.5	31	10		
90	40	90	90	100	165	100	20	20	45	34	5.5	260	200	160	196	200	225	100	13.5	35	12		
100	-	-	55	110	185	110	25	25	50	38	6	285	225	180	-	225	250	113	13.5	39	12		

- H* - H is the minimum dimension required for the disassembly of the couplings in the radial direction

MATERIAL SPECIFICATIONS

Hub	Size - 24 - 100	Cast Iron	CI	EN-GJL - 250 (GG 25)
Flange	Size - 24 - 100	Cast Iron	CI	EN-GJL - 250 (GG 25)
Spider 92° Shore A (Yellow Colour)	Size - 24 - 100	Polyurethane	PU	
Spider 98° Shore A (Red Colour)	Size - 24 - 100	Polyurethane	PU	



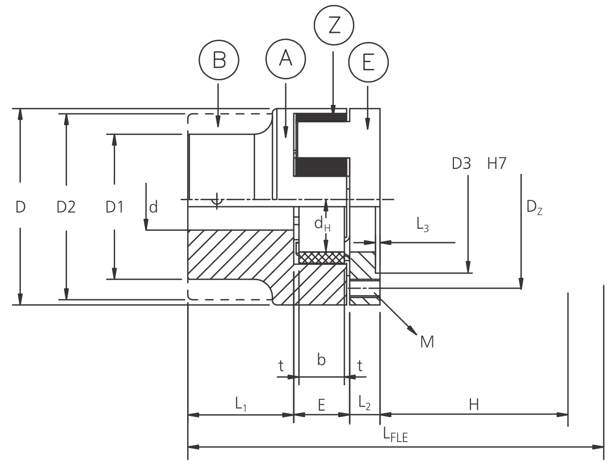


- For temperature range of elastomers please see on page no. 47 - coupling selection

UTL FLEXIBLE COUPLINGS

Utkarsh® FLEXIBLE COUPLINGS Revolutionizing Rotation

UTL UTEX FLANGE B TYPE COUPLINGS



FEATURES

- Flanged version for general mechanical engineering applications requiring a flange to shaft connection

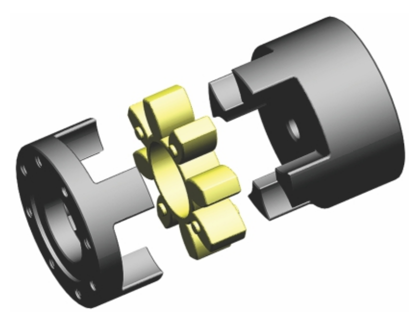
DIMENSIONS & TECHNICAL DATA

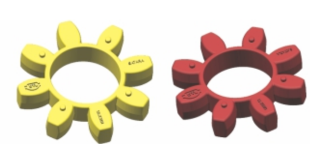
Size B	Finish bore Hub A Ød (mm) Min	Hub A Max	Hub B Ød (mm) Min	Hub B Max	Dimensions are in mm: L_{FLE}	L_1	L_2	L_3	E	b	t	ØD	ØD1	ØD2	ØD3	ØDz	dH	M	H*	No. of Screws	Angle (°)	Weight in Kg	Moment of inertia (kg.m²)
24	10	24	14	32	56	30	8	1.5	18	14	2	55	40	55	36	45	27	M5	16	8	8x45°	On request UTL will provide data.	On request UTL will provide data.
28	12	28	28	38	65	35	10	1.5	20	15	2.5	65	48	65	44	54	30	M6	18	8	8 x 45°		
38	14	38	38	45	79	45	10	1.5	24	18	3	80	66	79	54	66	38	M8	19	8	8 x 45°		
42	19	42	42	55	88	50	12	2	26	20	3	95	75	94	65	80	46	M8	21	12	16 x 22.5°		
48	19	48	48	60	96	56	12	2	28	21	3.5	105	85	102	75	90	51	M8	22	12	16 x 22.5°		
55	19	55	55	70	111	65	16	2	30	22	4	120	98	118	84	102	60	M10	23	8	8 x 45°		
65	22	65	65	75	126	75	16	2	35	26	4.5	135	115	132	96	116	68	M10	27	12	16 x22.5°		
75	30	75	75	90	144	85	19	2.5	40	30	5	160	135	158	112	136	80	M12	31	15	20 x 18°		
90	40	90	90	100	165	100	20	3	45	34	5.5	200	160	196	145	172	100	M16	35	15	20 x 18°		
100	-	-	55	110	185	110	25	4	50	38	6	225	180	-	165	195	113	M16	39	15	20 x 18°		

- H* - H is the minimum dimension required for the disassembly of the couplings in the radial direction

MATERIAL SPECIFICATIONS

Hub	Size - 24 - 100	Cast Iron	CI	EN-GJL - 250 (GG 25)
Flange	Size - 24 - 100	Cast Iron	CI	EN-GJL - 250 (GG 25)
Spider 92° Shore A (Yellow Colour)	Size - 24 - 100	Polyurethane	PU	
Spider 98° Shore A (Red Colour)	Size - 24 - 100	Polyurethane	PU	





- For temperature range of elastomers please see on page no. 47 - coupling selection

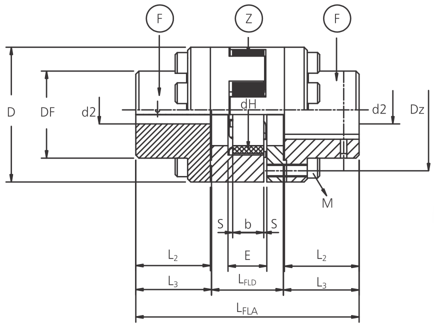
UTL FLEXIBLE COUPLINGS

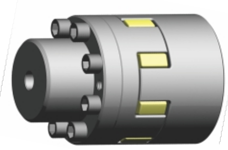
Utkarsh®

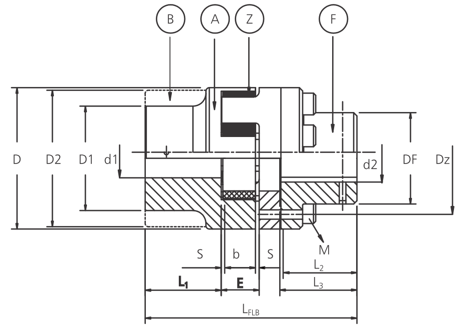
FLEXIBLE COUPLINGS

Revolutionizing Rotation

UTL UTEX (BOLTED HUB) TYPE COUPLINGS







FEATURES

- For general machinery
- Radial assembly of driving or driven machine after disassembly of driving flanges
- Power flow can be disconnected while coupling is installed

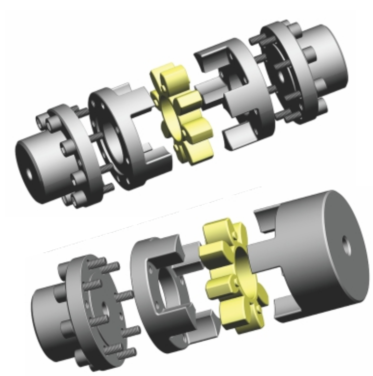
DIMENSIONS & TECHNICAL DATA

Size	Finish bore mm			Dimensions are in mm																	No. of Screws	Angle (°)	Weight in Kg	Moment of inertia (kg.m²)
	d1	Pre-bored d2	d2 Max	LFLA	LFLB	LFLD	L1	L2	L3	E	b	S	ØD	ØD1	ØD2	DF	Dz	DH	M	T (Nm)				
24	10	7	24	94	86	34	30	30	30.5	18	14	2	55	40	55	36	45	27	M5x16	10	8	8x45°	On request UTL will provide data.	On request UTL will provide data.
28	12	9	28	110	100	40	35	35	35.5	20	15	2.5	65	48	65	42	54	30	M6x20	17	8	8 x 45°		
38	14	13	38	134	124	44	45	45	45.5	24	18	3	80	66	79	52	66	38	M8x22	41	8	8 x 45°		
42	19	13	42	150	138	50	50	50	51	26	20	3	95	75	94	62	80	46	M8x25	41	12	16 x 22.5°		
48	19	16	48	164	152	52	56	56	57	28	21	3.5	105	85	102	70	90	51	M8x25	41	12	16 x 22.5°		
55	19	16	55	192	176	62	65	65	66	30	22	4	120	98	118	80	102	60	M10x30	83	8	8 x 45°		
65	22	18	65	217	201	67	75	75	76	35	26	4.5	135	115	132	94	116	68	M10x30	83	12	16 x22.5°		
75	30	25	75	248	229	78	85	85	86.5	40	30	5	160	135	158	108	136	80	M12x40	120	15	20 x 18°		
90	40	29	100	285	265	85	100	100	101.5	45	34	5.5	200	160	196	142	172	100	M16x40	295	15	20 x 18°		
100	-	29	110	320	295	100	110	110	111.5	50	38	6	225	180	-	158	195	113	M16x50	295	15	20 x 18°		

- 1 - Thread in driving flange E between the cams
- 2 - Coupling is supplied unassembled

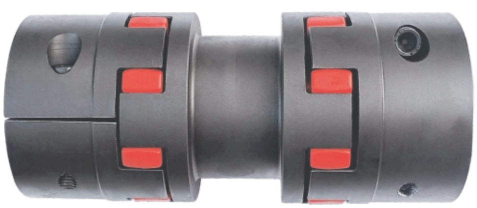
MATERIAL SPECIFICATIONS

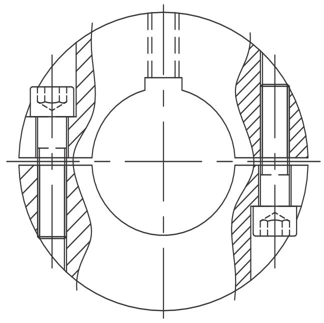
Hub	Size - 24 - 100	Cast Iron	CI	EN-GJL - 250 (GG 25)
Spider 92° Shore A (Yellow Colour)	Size - 24 - 100	Polyurethane	PU	
Spider 98° Shore A (Red Colour)	Size - 24 - 100	Polyurethane	PU	

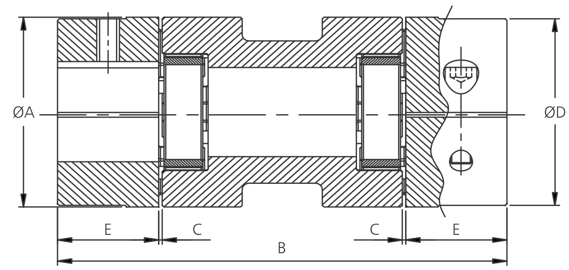


- For temperature range of elastomers please see on page no. 47 - coupling selection

UTL UTEX SPLIT HUB SPACER COUPLINGS (USHS)







FEATURES

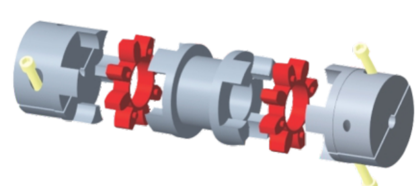
- Split hub design with screws ensuring positive locking on shafts
- Designed for machines requiring space for maintenance
- Varying elastomer hardness of spiders
- Temperatures within the range -30°C to 70°C

DIMENSIONS & TECHNICAL DATA

Utex Coupling Size	DBSE	Rated Torque Nm		Max Speed rpm	Min Bore	Max Bore	ØA	ØD	E	C	B	Max Misalignments		
		92° Shore A (Yellow Colour)	98° Shore A (Red Colour)									Angular	Axial (±)	Radial
24	100 140	35	60	10600	9	28	56	-	30	2	160 200	1°	1.8	0.2
28	100 140	95	160	8500	10	38	66	-	35	2.5	170 210	1°	2	0.2
38	100 140	190	325	7100	12	45	80	78	45	3	190 230	1°	2.2	0.25
42	100 140	265	450	6000	14	55	95	94	50	3	200 240	1°	2.3	0.3
48	100 140	310	525	5600	15	60	105	104	56	3.5	212 252	1°	3	0.35
55	100 140 180 200	410	685	4750	20	70	120	118	65	4	230 270 310 330	1°	3	0.35
65	140 180	625	940	4250	22	80	135	133	75	4.5	290 330	1°	3.5	0.4
75	140 180 200 250	1280	1920	3520	30	90	160	158	85	5	310 350 370 420	1.5°	3.5	0.45
90	180 250	2400	3600	2800	40	110	200	198	100	5.5	380 450	1.5°	4.5	0.5

MATERIAL SPECIFICATIONS

Hub	Size - 24 - 90	Cast Iron	CI	EN-GJL - 250 (GG 25)
Spacer	Size - 24 - 90	Cast Iron	CI	EN-GJL - 250 (GG 25)
Spider 92° Shore A (Yellow Colour)	Size - 24 - 90	Polyurethane	PU	
Spider 98° Shore A (Red Colour)	Size - 24 - 90	Polyurethane	PU	



- For temperature range of elastomers please see on page no. 47 - coupling selection

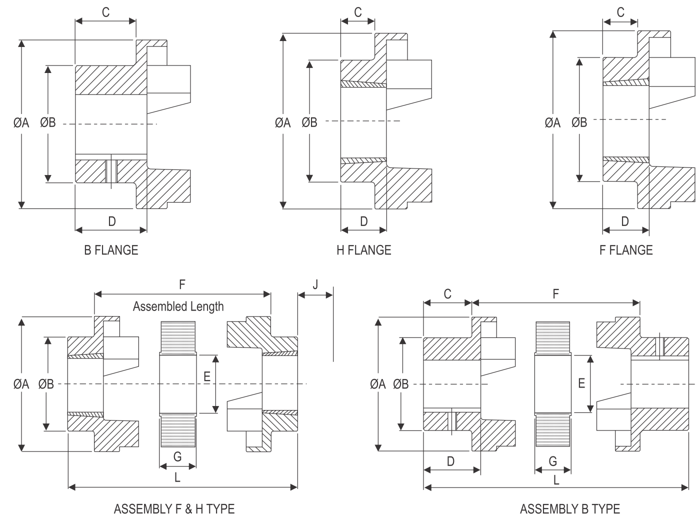
UTL FLEXIBLE COUPLINGS

RELIABILITY IN ROTATION

Utkarsh®

FLEXIBLE COUPLINGS

Revolutionizing Rotation



FEATURES

- UFC couplings are essentially general purpose couplings with a flexible spider which can accommodate higher degree of misalignment.
- Parallel misalignment upto 0.5 mm
- Axial misalignment up to 1.7 mm
- The design of the UFC coupling has been optimised so that power capacities are balanced to the appropriate shaft diameters.
- Spider are unaffected by moisture, grease and oils-including non-aromatic and non-ketone solvents & temperatures within the range 40°C to + 100°C virtually eliminated and lubrication free.

DIMENSIONS & TECHNICAL DATA

Size	kW rating at 100 rpm	Type F & H								Type B						A	B	E	G	Weight in Kg	Moment of inertia (kg.m^2)
		TLB Size	Min. Bore	Max. Bore	C	D	F	L	J*	Min. Bore	Max. Bore	C	D	F	L						
70	0.33	1008	9	25	20.0	24	26.0	66.0	29	10	32	20	24	26.0	66.0	69	60	31	18.0	On request UTL will provide data.	On request UTL will provide data.
90	0.84	1108	9	28	19.5	24	31.5	70.5	29	10	35	26	30	30.5	82.5	85	70	32	22.5		
110	1.68	1210	11	32	18.5	27	46.0	83.0	38	10	55	37	45	45.0	119.0	112	100	45	29.0		
110A	1.68	1610	14	42	18.5	27	46.0	83.0	38	-	-	-	-	-	-	112	100	45	29.0		
130	3.30	1610	14	42	18.0	27	54.0	90.0	38	14	60	47	56	54.0	148.0	130	105	50	36.0		
150	6.28	2012	14	50	23.5	34	61.0	108.0	44	19	70	50	60	60.0	160.0	150	115	62	40.0		
180	9.95	2517	16	60	34.5	47	74.0	143.0	48	35	80	58	70	73.0	189.0	180	125	77	49.0		
230	20.90	3020	25	75	39.5	53	86.5	165.5	55	38	100	77	90	85.5	239.5	225	155	99	59.5		
280	33.00	3525	35	90	51.0	67	106.5	208.5	67	48	115	90	105	104.5	284.5	275	206	119	74.5		

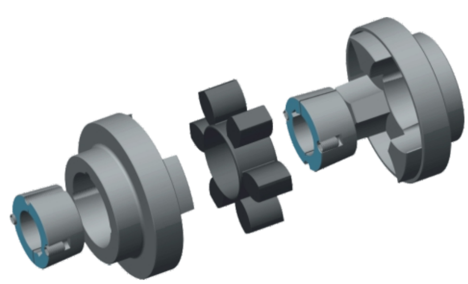
- * J - Wrench clearance to allow tightening and loosening the bush on the shaft

MATERIAL SPECIFICATIONS

Hub	70 - 280	Cast Iron	CI	DIN 1693 GG 25
Spider	80°	Synthetic Rubber	NBR	St. ASTM D 2000BG810

ALTERNATIVE SPIDERS

Execution in Hytrel, Polyurethane available on request.



- For temperature range of elastomers please see on page no. 47 - coupling selection

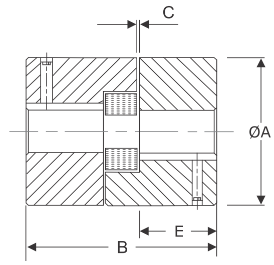
UTL FLEXIBLE COUPLINGS

Utkarsh®

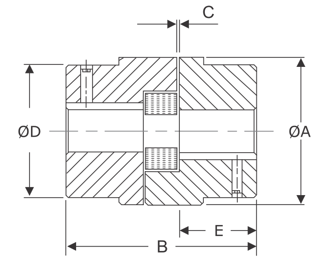
FLEXIBLE COUPLINGS

Revolutionizing Rotation

UTL US COUPLINGS
(Spider Elastomer)



Size 035 to 075



Size 090 to 350

FEATURES

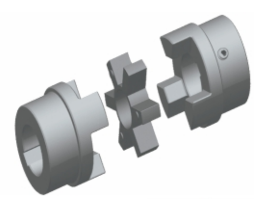
- Simple construction, quick and easy installation
- Spider design presets correct distance between hubs, using raised dimple on leg of the spider
- Spiders are unaffected by moisture, grease and oils including non - aromatic and non - ketone solvents
- Temperatures within the range - 40°C to + 100°C
- Range up to 4308 Nm
- 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 are in mm							Torsional Stiffness Nm / rad	Material of hubs		Weight in Kg SI	Weight in Kg CI	Weight in Kg AL	Moment of inertia (kg.m²)
		100 rpm	1500 rpm	3000 rpm	Min. Bore	Max. Bore	ØA	B	C	ØD	E							
35	0.38	0.004	0.06	0.12	3	10	16	19	1	16	5.5	4	SI	AL	0.02	-	-	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	35	51	2	36	19	80	SI	AL	0.26	-	0.12	2.91×10^{-5}
75	9.80	0.100	1.50	3.00	9	22	45	55	2	45	21	119	SI/CI	AL	0.44	-	0.19	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	SI/CI	AL	-	-	0.31	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	-	0.75	0.61	7.67×10^{-4}
110	89	0.930	13.95	27.90	15	42	85	108	3	76	43	1719	CI	AL	-	3.20	-	2.77×10^{-3}
150	141	1.490	22.35	44.70	15	48	96	115	3	80	45	2120	CI	-	-	3.90	-	4.19×10^{-3}
190	190	2.010	30.15	60.30	20	60	115	133	3	102	54	3495	CI	-	-	7.50	-	0.01200
225	265	2.760	41.40	82.80	20	65	127	153	3	111	64	4584	CI	-	-	10.50	-	0.01800
226	324	3.430	51.45	102.90	25	70	137	178	3	119	70	6990	CI	-	-	13.00	-	0.03000
276	532	5.600	84.00	168.00	25	75	157	200	3	127	80	12720	CI	-	-	19.00	-	0.05300
280	782	8.200	123.00	246.00	30	80	192	200	3	140	80	22517	CI	-	-	25.00	-	0.10200
295	1279	13.400	201.00	-	40	95	237	238	3	162	95	51222	CI	-	-	44.00	-	0.27100
2955	2132	22.400	336.00	-	50	105	237	264	3	180	108	85428	CI	-	-	51.00	-	0.32000
300	3047	31.900	478.50	-	50	105	254	283	3	180	115	126395	CI	-	-	58.00	-	0.41000
350	4308	45.000	675.00	-	50	115	305	309	3	200	128	183633	CI	-	-	86.00	-	0.82100

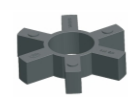
MATERIAL SPECIFICATIONS

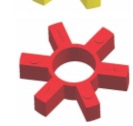
Hub	Size - 050-110	Aluminum	AL	BS 1490 - LM 4
Hub	Size - 035-070	Sintered Iron	SI	DIN - 30910 C 11
Hub	Size - 090-225	Cast Iron	CI	DIN 1693 GG 25
Hub	Size - 226-350	Cast Iron	CI	DIN 1693 GG 25
Spider 80° Shore A	Size - 035-350	Synthetic Rubber	NBR	ASTM D2000 BG 810



- 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 D2000 AA 810	Torque as per standard
Spider 92° Shore A (Yellow Colour)	Size - 035-350	Polyurethane	PU		Torque 1.8 times of standard
Spider 98° Shore A (Red Colour)	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 =35m / sec
- Max speed not to exceed for Aluminum hubs for surface speed V =30m / sec
- Max speed not to exceed for SI hubs for surface speed V =25m / sec

Atex Certified Coupling Available on request

- For temperature range of elastomers please see on page no. 47 - coupling selection

UTL FLEXIBLE COUPLINGS

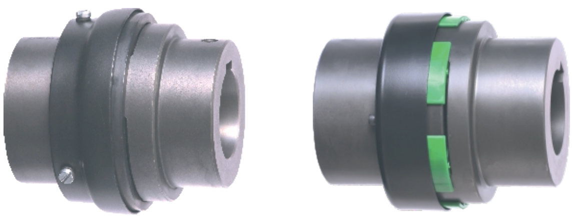
Utkarsh®

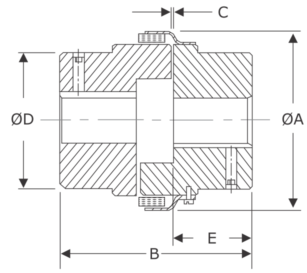
FLEXIBLE COUPLINGS

Revolutionizing Rotation

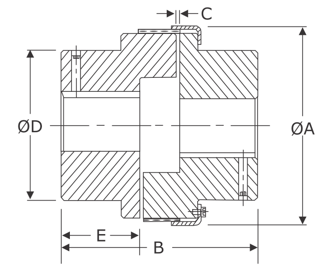
UTL UW / UCW COUPLINGS

(Snap Wrap / T Cushion Elastomer)





UW



UCW

FEATURES

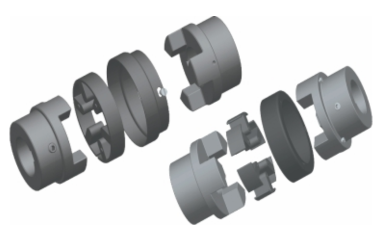
- Simple construction, quick and easy installation
- Snap-wrap design presets correct distance between hubs, using raised dimple on leg of the snap-wrap
- Snap-wrap are unaffected by moisture, grease and oils including non - aromatic and non - ketone solvents
- Temperatures within the range - 40°C to + 100°C
- Inspection / Replacement of Snap-wrap / T cushion within 5 minutes and only screw drive is required
- Above size 226 T cusion is used as an element
- Range up to 4308 Nm
- 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 are in mm							Torsional Stiffness Nm / rad	Weight in Kg approx	Moment of inertia (kg.m²)
		100 rpm	1500 rpm	3000 rpm	Min. Bore	Max. Bore	ØA	B	C	ØD	E			
95	21	0.220	3.30	6.60	10	28	64	63	2	49	25	275	0.80	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	1.58	7.67×10^{-4}
110	89	0.930	13.95	27.90	15	42	96	108	3	76	43	1719	3.31	2.77×10^{-3}
150	141	1.490	22.35	44.70	15	48	111	115	3	80	45	2120	4.05	4.19×10^{-3}
190	190	2.010	30.15	60.30	20	60	130	133	3	102	54	3495	7.70	0.0120
225	265	2.760	41.40	82.80	20	65	142	153	3	111	64	4584	10.70	0.0180
226	324	3.430	51.45	102.90	25	70	153	178	3	119	70	6990	15.00	0.0300
276	532	5.600	84.00	168.00	25	75	173	200	3	127	80	12720	21.000	0.0530
280	782	8.200	123.00	246.00	30	80	205	200	3	140	80	22517	29.00	0.1020
295	1279	13.400	201.00	-	40	95	251	238	3	162	95	51222	48.00	0.2710
2955	2132	22.400	336.00	-	50	105	251	264	3	180	108	85428	59.00	0.3200
300	3047	31.900	478.50	-	50	105	267	283	3	180	115	126395	86.00	0.4100
350	4308	45.000	675.00	-	50	115	318	309	3	200	128	183633	132.00	0.8210

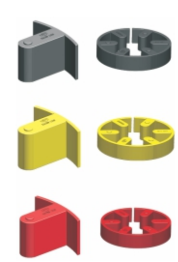
MATERIAL SPECIFICATIONS

Hub	Size - 095-225	Cast Iron	CI	DIN 1693 GG 25
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

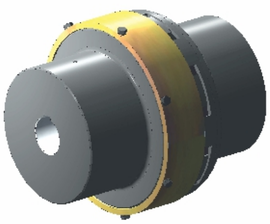


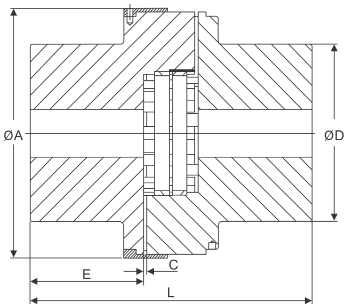
- Max speed not to exceed surface speed V = 35m / sec

Atex Certified Coupling Available on request

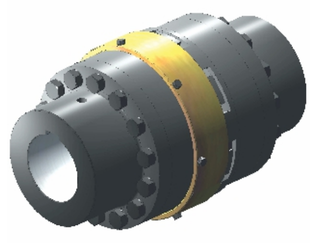
- For temperature range of elastomers please see on page no. 47 - coupling selection

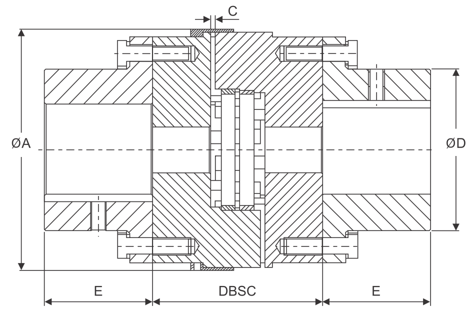
www.utlcoupling.com





FROM SIZE UH 3067 TO SIZE UH 3667





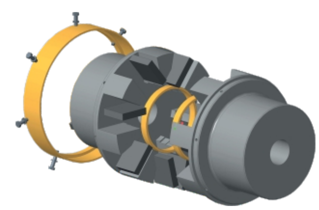
FROM SIZE UHS 3067 TO SIZE UHS 7069

FEATURES

- Individual free-floating load cushions held in place by outside steel collar.
- Easy to assemble & disassemble.
- Cushion easily inspected at all times.

DIMENSIONS & TECHNICAL DATA (UH)

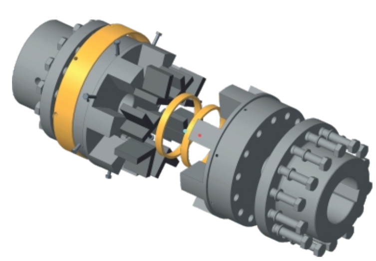
Size	Rated Torque Nm	kW. at 100 rpm	Max. Speed rpm	Min Bore	Max. Bore	ØA	ØD	E	C	L	Weight in Kg approx Pilot Bore	Moment of inertia (kg.m²)
3067	5307	55.9	2200	60	105	262	180	121	3	295	58	On request UTL will provide data.
3567	7124	74.6	2000	60	115	288	197	127	3	314	73	
3667	9903	104	1800	70	130	313	222	143	3	353	105	



DIMENSIONS & TECHNICAL DATA (UHS)

Size	Rated Torque Nm	kW. at 100 rpm	Max. Speed rpm	DBSE	Bore		Out side Diameter ØA	Length Thru Bore E	Adaptor Diameter ØD	Wt in. Kg approx Pilot Bore	Moment of inertia (kg.m²)
					Min	Max					
3067	3507	55.9	2200	140, 180	45	100	266	80	167	On request UTL will provide data.	On request UTL will provide data. According to spacer length.
3567	7124	74.6	2000		50	107	293	90	183		
3667	9903	104	1800	180, 250	55	125	317	100	209		
4067	14228	149	1700		65	140	349	110	231		
4567	19195	201	1500		70	165	400	120	288		
5069	22822	239	1450		90	175	412	135	298		
6069	33518	351	1300		100	210	461	150	360		
7069	46982	492	1100	250	100	240	524	170	425		

- All diemensions are in mm
- Rating based on S.F. = 1
- Maintain gap C = 3 mm for UHS 3067 to UHS 4567 dn6 mm. for higher size at the time of assembly.

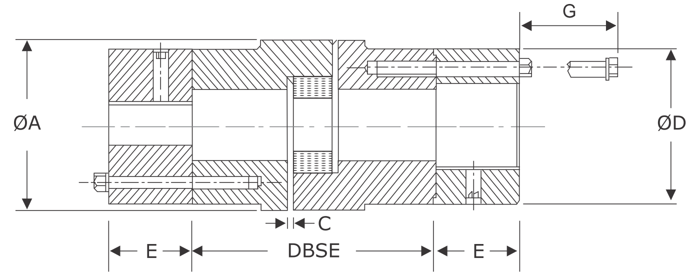


- For temperature range of elastomers please see on page no. 47 - coupling selection

UTL FLEXIBLE COUPLINGS

Utkarsh®
FLEXIBLE COUPLINGS
Revolutionizing Rotation

UTL USS COUPLINGS
(Spider Elastomer with Spacer)



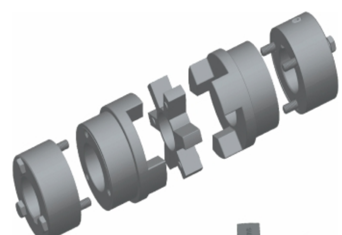
FEATURES

- Simple construction, quick and 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, generator & blowers etc.
- Range up to 265 Nm
- 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 are in mm								Torsional Stiffness Nm / rad	Weight in Kg approx	Moment of inertia (kg.m²)
		100 rpm	1500 rpm	3000 rpm	Min. Bore	Max. Bore	DBSE	ØA	ØD	E	C	G			
095	21.10	0.220	3.30	6.60	10	30	90, 100, 140	54	54	25	2	20	275	2.31	On request UTL will provide data. According to spacer length.
100	46.40	0.490	7.35	14.70	10	38	90, 100, 140	65	65	30	2	20	688	4.38	
110	89	0.930	13.95	27.90	15	42	90, 100, 140, 180	85	76	35	3	21	1719	5.62	
150	141	1.490	22.35	44.70	15	48	90, 100, 140, 180	96	90	40	3	27	2120	7.95	
190	190	2.010	30.15	60.30	20	55	90, 100, 140, 180	115	102	46	3	27	3495	11.57	
225	265	2.760	41.40	82.80	20	65	90, 100, 140, 180	127	115	52	3	21	4584	13.72	

- For non standard DBSE please contact UTL



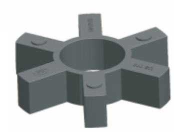
MATERIAL SPECIFICATIONS

Jaw	Size - 095-225	Cast Iron	CI	DIN 1693 GG 25
Adaptor	Size - 095-225	Cast Iron	CI	DIN 1693 GG 25
Spider 80° Shore A	All Size	Synthetic Rubber	NBR	ASTM D2000 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 92° Shore A	All Size	Synthetic Rubber	NBR	ASTM D2000 BG 910	Torque 1.6 times of standard
Spider 80° Shore A	All Size	Synthetic Rubber	EPDM	ASTM D2000 AA 810	Torque as per standard
Spider 92° Shore A (Yellow Colour)	All Size	Polyurethane	PU		Torque 1.8 times of standard
Spider 98° Shore A (Red Colour)	All Size	Polyurethane	PU		Torque 2.5 times of standard

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

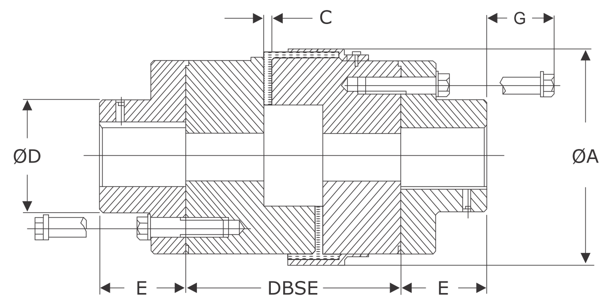


Atex Certified Coupling Available on request

- For temperature range of elastomers please see on page no. 47 - coupling selection

UTL FLEXIBLE COUPLINGS

Utkarsh®
FLEXIBLE COUPLINGS
Revolutionizing Rotation



FEATURES

- Simple construction, quick and easy installation
- T Cushion design presets correct distance between hubs, using raised dimple on leg 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, generator & blowers etc.
- Range up to 4308 Nm
- 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 are in mm								Torsional Stiffness Nm / rad	Weight in Kg approx	Moment of inertia (kg.m²)
		100 rpm	1500 rpm	3000 rpm	Min. Bore	Max. Bore	DBSE	ØA	ØD	E	C	G			
226	324	3.430	51.45	102.90	25	70	135, 140, 180	141.5	134	50	3	40	6990	20.81	On request UTL will provide data. According to spacer length.
276	532	5.600	84.00	168.00	25	75	135, 140, 180	161.5	135	60	3	40	12720	22.50	
280	782	8.200	123.00	246.00	30	75	135, 140, 180	196.5	135	60	3	-	22517	35.00	
295	1279	13.400	201.00	-	40	95	135, 140, 180	251.0	160	65	3	-	51222	57.60	
2955	2132	22.400	336.00	-	50	100	135, 140, 180	251.0	160	65	3	-	85428	-	
300	3047	31.900	478.50	-	50	110	135, 140, 180	265.0	180	80	3	-	126395	81.00	
350	4308	45.00	675.00	-	50	115	135, 140, 180	318.0	205	90	3	-	183633	101.00	

- For non standard DBSE please contact UTL

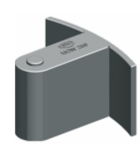
MATERIAL SPECIFICATIONS

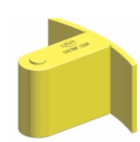
Jaw	Size - 226-350	Cast Iron	CI	DIN 1693 GG 25
Adaptor	Size - 226-350	Cast Iron	CI	DIN 1693 GG 25
T Cushion 80° Shore A	All Size	Synthetic Rubber	NBR	ASTM D2000 BG 810
Hex Bolt	All Size	High Tensile	St	ISO 4014 : Gr 8.8
Outer ring	Size - 226-350	Mild. Steel	CRCA	BS 970

- 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 = 35m / sec





Atex Certified Coupling Available on request

- For temperature range of elastomers please see on page no. 47 - coupling selection

UTL FLEXIBLE COUPLINGS

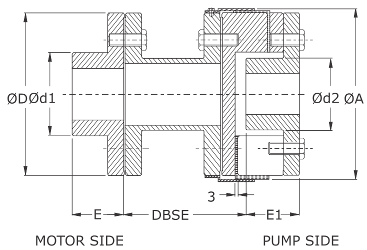
Utkarsh®

FLEXIBLE COUPLINGS

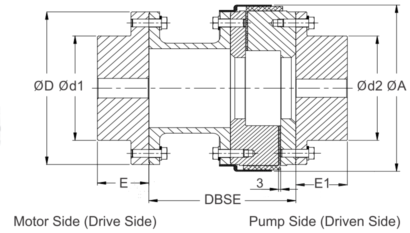
Revolutionizing Rotation

UTL USWS TYPE A / B COUPLINGS

(T Cushion with Spacer)



USWS TYPE A



USWS TYPE B

FEATURES

- Rigid construction yet flexible
- Design made for ease in maintenance yet accommodating shaft constraints
- No down time or lost production, No metal to metal contact, Lubrication free, Long life
- For non standard DBSE please contact UTL
- For Large bore size is for (motor side / drive side hub), For Small bore size is for (pump side / driven side hub)
- USWS-B coupling is suitable where distance between shaft ends (DBSE) is large. Spacer member is radially removable without disturbing shaft alignment.
- Flexible rubber element can be inspection / replaced without disturbing the hubs.
- Maximum permissible misalignment: angular 1°, parallel 0.4 mm & axial 3 mm (initial alignment must be 25 % of maximum)

DIMENSIONS & TECHNICAL DATA (TYPE A)

Size	Power Rating at				Dimensions are in mm											Weight in Kg approx	Moment of inertia (kg.m²)
	Synthetic Rubber		Polyurethane		Motor side bore		Pump side bore		DBSE	ØA	ØD	Ød1	Ød2	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	140,180 200,250, 300,350	173	154	130	70	60	60	On request UTL will provide data.	On request UTL will provide data. According to spacer length.
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		

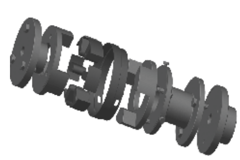
DIMENSIONS & TECHNICAL DATA (TYPE B)

Size	Power Rating at		Dimensions are in mm											Weight in Kg approx	Moment of inertia (kg.m²)
	Synthetic Rubber		Motor side bore		Pump side bore		DBSE	ØA	ØD	Ød1	Ød2	E	E1		
	Rated Torque Nm	kW @ 100 rpm	Min. Bore	Max. Bore	Min. Bore	Max. Bore									
276	534	5.6	25	75	25	75	200 250 300 350	173	154	130	105	60	60	On request UTL will provide data.	On request UTL will provide data. According to spacer length.
280	783	8.2	30	80	30	80		208	189	130	130	60	60		
295	1280	13.4	30	95	30	95		253	234	160	160	70	70		
2955	2139	22.4	30	105	30	105		253	234	160	160	75	75		
300	3046	31.9	30	105	30	105		272	251	180	180	80	80		
350	4298	45.0	30	115	30	115		323	302	200	200	90	90		

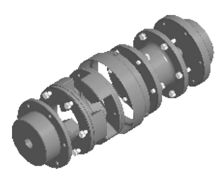
- For non standard DBSE please contact UTL

MATERIAL SPECIFICATIONS

Spacer (Type A)	Size - 276-350	SG Iron/ASTM A 536	SG	DIN 1693 GGG 40
Spacer (Type B)	Size - 276-350	Carbon Steel/ASTM A 105	CS	ASTM A 105
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	CRCA	BS 970
Hex Bolt	Size - 276-350	High Tensile	St	ISO 4014 : Gr 8.8



TYPE A



TYPE B

- 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

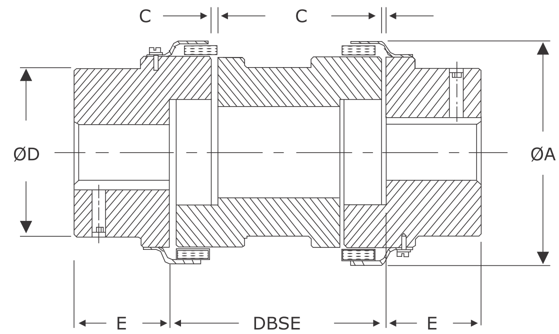
Atex Certified Coupling Available on request

- Max speed not to exceed surface speed V = 35m / sec
- For temperature range of elastomers please see on page no. 47 - coupling selection

UTL FLEXIBLE COUPLINGS

Utkarsh®
FLEXIBLE COUPLINGS
Revolutionizing Rotation

UTL UWS COUPLINGS
(Two Snap wrap Elastomers with Spacer)



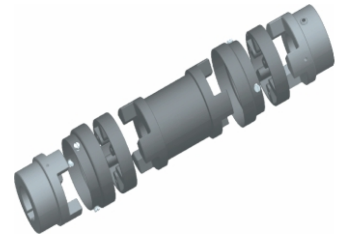
FEATURES

- Specially designed for machines requiring space for maintenance
- Snap wrap design present correct distance between hubs, using raised dimple on leg of the snap wrap
- Snap wrap are unaffected by moisture, grease and oils including ono-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 light weight aluminium spacer
- Range up to 327 Nm
- 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 are in mm							Torsioal Stiffness Nm / rad	Weight in Kg approx	Moment of inertia (kg.m²)
		100 rpm	1500 rpm	3000 rpm	Min. Bore	Max. Bore	DBSE	ØA	ØD	E	C			
95	21.1	0.22	3.3	6.6	10	28		64	49	25	2	275	1.10	
100	46.4	0.49	7.35	14.7	10	35		78	57	35	2	688	1.13	
110	89	0.93	13.95	27.9	15	42		96	76	43	3	1719	3.93	
150	141	1.49	22.35	44.7	15	48	90, 100, 135, 140, 180	111	80	45	3	2120	4.97	On request UTL will provide data. According to spacer length.
190	190	2.01	30.15	60.3	20	60		130	102	54	3	3495	9.00	
225	265	2.76	41.4	82.8	20	65		142	111	64	3	4584	12.20	
226	327	3.43	51.45	102.9	25	70		153	115	70	3	6990	15.60	

- For non standard DBSE please contact UTL

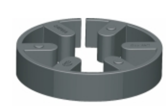


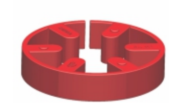
MATERIAL SPECIFICATIONS

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 D2000 BG 810
Outer ring	Size - 095-226	Mild. Steel	CRCA	BS 970

- Alternative 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



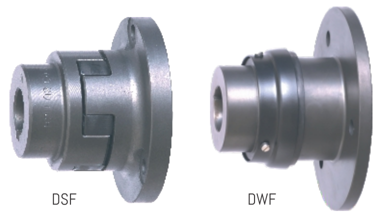


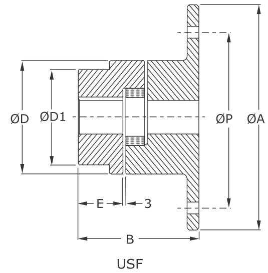
- Max speed not to exceed 3300 rpm

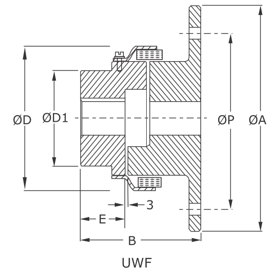
- For temperature range of elastomers please see on page no. 47 - coupling selection

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 an element (size 150 to 2955)
- For UWF snap wrap is used as an element (size 150 to 225) & T cushions are used as elements (size 226 to 2955)
- Maximum permissible misalignment: angular 1°, parallel 0.4 mm & axial 3 mm (initial alignment must be 25 % of maximum)

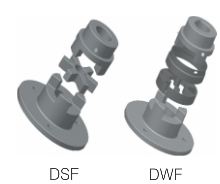
DIMENSIONS & TECHNICAL DATA

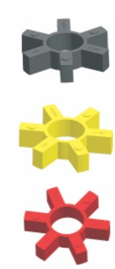
Size	Rated Torque Nm	kW Rating at 100 rpm	Max. Speed rpm	SAE size Inches	Flange dimensions in mm				Hub dimensions in mm						Weight in Kg USF	Weight in Kg UWF	Moment of inertia (kg.m²)
					ØA	ØP	No. of holes	Hole Dia	ØD UWF / USF	ØD1	E	Min. Bore	Max. Bore	B			
150	141	1.49	3400	5.5	190.0	137.0	3	12	111 / 96	80	45	15	48	122	On request UTL will provide data.	On request UTL will provide data.	On request UTL will provide data.
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									
			1500	14.0	466.7	438.3	8	13.5									
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	2132	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

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	CRCA	BS 970

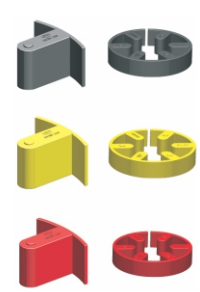
Atex Certified Coupling Available on request





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

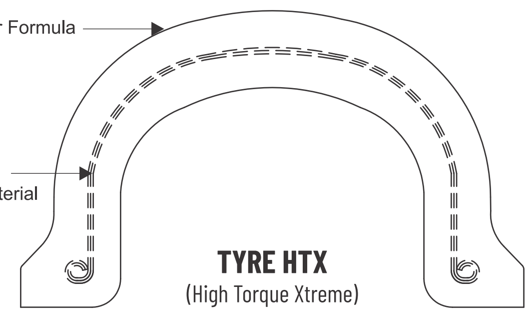


- For temperature range of elastomers please see on page no. 47 - coupling selection

UTL Couplings proudly introduces the UTL TYRE HTX – (High Torque Xtreme), an innovative advancement that significantly enhances the performance of our standard tyre couplings.

This cutting-edge tire design increases the torque capacity by 50-60% while maintaining the same dimensions as the standard coupling.

KEY BENEFITS:



Higher Torque, Same Size

- Achieve 50-60% more torque capacity without increasing coupling size.

Compact & Lightweight

- Enables the use of smaller couplings, reducing weight and system costs.

No Dimensional Changes

- Fits seamlessly into existing designs without modifications.

Advanced Material Science

- Developed using a new elastomer formulation and reinforced materials for superior performance.

Proven Reliability

- Rigorously tested in both laboratory and real-world applications for durability and consistency.

Uncompromised Flexibility

- Maintains the same misalignment capability, ensuring smooth operation and system longevity.

By increasing torque density, th UTL HTX Tyre allows customers to optimize their power transmission systems, enhancing effieciency and reducing overall costs. This breakthrough technology offers a smaller, stronger and more cost- effective coupling solution without compromising performance.

Upgrade to the UTL HTX – (High Torque Xtreme) and experience the next level of efficiency and reliability with UTL Couplings!

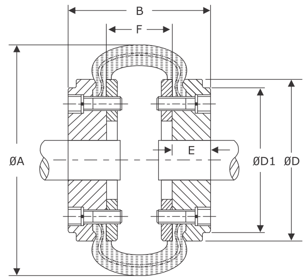
- For temperature range of elastomers please see on page no. 47 - coupling selection

UTL FLEXIBLE COUPLINGS

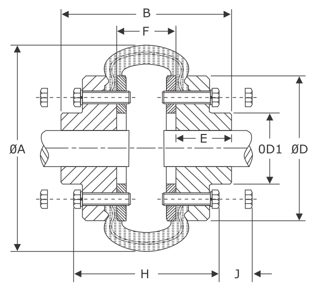
Utkarsh®
FLEXIBLE COUPLINGS
Revolutionizing Rotation

UTL UT / UTO COUPLINGS
(High torsional damping)

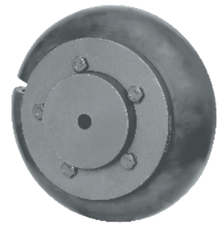

UT

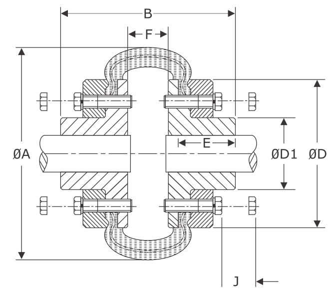


Size UT 0040 to 0060



Size UT 0070 to 0120


UTO



Size UTO 0070 to 0200

FEATURES

- High flexibility & highest misalignment tolerances (angular – Max 4°)
- Elastomer is designed to shear in the event of tyre failure. The torque transmission is stopped as tyre shears at failure, thus protecting the machinery
- Better protection in impact load & heavy shocks
- Easy to assemble & disassemble, Lubrication free
- UTL offer two types of tyres option based on torque ratings

DIMENSIONS & TECHNICAL DATA (UT)

Size	Rated Torque Nm	Rated Torque HTX Nm	Min. Bore	Max. Bore	Max. speed rpm	Dimensions in mm								Weight in kg approx	Torsional Stiffness Nm / rad	Moment of Inertia (WR^2) ($kg.m^2$)	Max. Misalignment (mm)	
						ØA	ØD	ØD1	B	E	F	H	J				Parallel	End float±
0040	21	48	10	30	4500	104	82	82	66	22	22	-	43	1.90	286	0.00161	1.10	1.30
0045	37	77	10	32	4500	120	94	94	74	25	24	-	43	2.70	515	0.00331	1.20	1.50
0050	53	102	14	38	4500	133	100	79	89	32	25	-	43	3.45	745	0.00358	1.30	1.70
0060	106	203	15	48	4000	165	125	73	109	38	33	-	43	5.10	1490	0.01050	1.60	2.00
0070	162	249	15	55	3600	197	144	82	130	45	40	101	10	7.60	2349	0.01945	1.90	2.30
0080	253	407	20	65	3100	210	167	95	145	51	43	106	10	10.70	3610	0.03428	2.10	2.60
0085	306	475	20	70	3000	222	180	103	150	53	44	107	13	14.00	4354	0.05015	2.20	2.80
0090	365	509	20	76	2880	235	190	110	160	57	46	119	13	15.90	5214	0.06496	2.40	3.00
0100	505	610	25	85	2600	254	216	124	168	60	48	123	13	23.70	7219	0.12963	2.60	3.30
0110	712	876	30	90	2300	279	233	134	174	65	44	127	14	29.90	10199	0.19501	2.90	3.70
0120	1184	1424	35	102	2050	314	264	152	201	76	49	140	14	41.00	16960	0.34302	3.20	4.00

DIMENSIONS & TECHNICAL DATA (UTO)

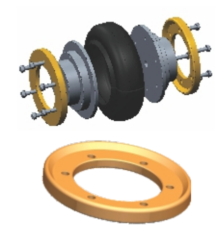
Size	Rated Torque Nm	Rated Torque HTX Nm	Min. Bore	Max. Bore	Max. speed rpm	Dimensions in mm								Torsional Stiffness Nm / rad	Moment of Inertia (WR^2) ($kg.m^2$)	Max. Misalignment (mm)	
						ØA	ØD	ØD1	B	E	F	J	Weight in kg approx			Parallel	End float±
0070	162	249	19	55	3600	197	144	82	106	45	16	38	8.45	2349	0.0177	1.90	2.30
0080	253	407	25	65	3100	210	429	96	123	51	21	42	11.45	3610	0.0329	2.10	2.60
0090	365	509	30	76	3000	235	167	110	138	57	24	48	16.10	5214	0.0599	2.40	3.00
0100	505	610	32	85	2600	254	188	125	140	60	20	48	22.65	7219	0.1148	2.60	3.30
0110	712	876	32	90	2300	279	216	140	151	65	21	55	28.35	10199	0.1631	2.90	3.70
0120	1184	1424	38	102	2050	314	233	152	177	76	25	67	40.15	16960	0.2902	3.20	4.00
0140	1881	3117	58	125	1800	359	264	195	200	89	22	67	60.55	26929	0.6045	3.70	4.60
0160	3113	4271	65	140	1600	395	313	218	220	103	16	80	86.35	44576	1.2755	4.20	5.30
0180	5481	5482	70	150	1500	470	345	260	250	114	22	89	134.0	79068	2.1525	4.80	6.00
0200	9301	9321	70	150	1300	508	429	220	276	114	48	-	145	112250	3.18	5.3	6.6

MATERIAL SPECIFICATIONS

Flange	Size - 0040-0200	Cast Iron	CI	DIN 1693 GG 20
Tyre	All Size	Natural Rubber	NR	ASTM D2000 810
Clamping Ring UT	Size - 0040-0120	Mild Steel	St	BS 970
Clamping Ring UTO	Size - 0070-0200	SG Iron	SG	
Hex Bolt	Size - 0040-0200	High Tensile	St	ISO 4014 : Gr 8.8

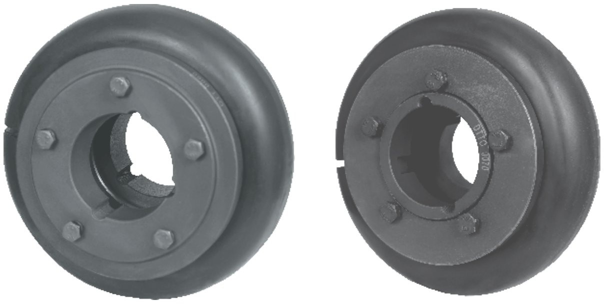
Atex Certified Coupling Available on request

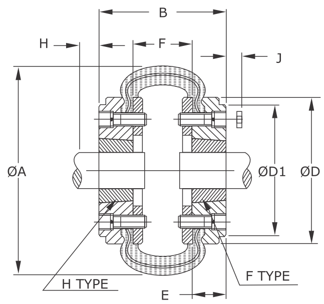

UT


UTO

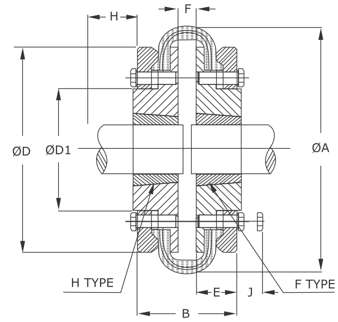
- For temperature range of elastomers please see on page no. 47 - coupling selection

UTL UTT / UTTO COUPLINGS
(High torsional damping)





Size UTT 0040 to 0060



UTTO 0070 to 0180

FEATURES

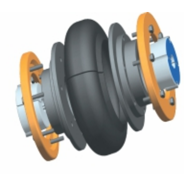
- High flexibility & highest misalignment tolerances (angular – Max 4°)
- Elastomer is designed to shear in the event of tyre failure. The torque transmission is stopped as tyre shears at failure, thus protecting the machinery
- Better protection in impact load & heavy shocks
- Easy to assemble & disassemble, Lubrication free
- Taper bush give clamping on shaft total surface
- Easy to replace thus minimising maintenance time
- UTL offer two types of tyres option based on torque ratings

DIMENSIONS & TECHNICAL DATA

Size	Rated Torque Nm	Rated Torque HTX Nm	Max. Speed rpm	Type	Taper Bush Size	Max. Bore	Dimensions are in mm								Torsional stiffness Nm/rad	Max. Misalignment (mm)		Weight in kg	Moment of Inertia (WR²) (kg.m²)
							ØA	ØD	ØD1	L	E	F	J	H		Parallel	End float±		
0040	21	48	4500	F/H	1008	25	104	82	-	65	22	21	17	29	286	1.10	1.30	On request UTL will provide data.	On request UTL will provide data.
0050	53	102	4500	F/H	1210	32	133	100	79	75	25	25	19	38	745	1.30	1.70		
0060	106	203	4000	F/H	1610	42	165	125	103	80	25	30	19	38	1490	1.60	2.00		
0070	162	249	3600	F	2012	50	197	144	82	80	32	16	9	38	2349	1.90	2.30		
				H	1610	42				66	25								
0080	253	407	3100	F	2517	60	210	167	96	111	45	21	9	42	3610	2.10	2.60		
				H	2012	50				85	32								
0090	365	509	3000	F/H	2517	60	235	188	110	114	45	24	-	48	5214	2.40	3.00		
0100	505	610	2600	F	3020	75	254	216	125	122	51	20	-	48	7219	2.60	3.30		
				H	2517	60				110	45								
0110	712	876	2300	F/H	3020	75	279	233	140	123	51	21	-	55	10199	2.90	3.70		
0120	1184	1424	2050	F	3525	100	314	264	152	155	65	25	-	55	16960	3.20	4.00		
				H	3020	75				127	51								
0140	1881	3117	1800	F/H	3525	100	359	311	195	152	65	22	-	67	26929	3.70	4.60		
0160	3113	4271	1600	F/H	4030	115	395	345	216	162	77	8	-	80	44576	4.20	5.30		
0180	5481	5482	1500	F/H	4535	125	470	398	220	200	89	22	-	89	79068	4.80	6.00		
0200	9301	9321	1300	F/H	4545	125	508	429	220	276	114	48	-	103	112255	5.30	6.60		

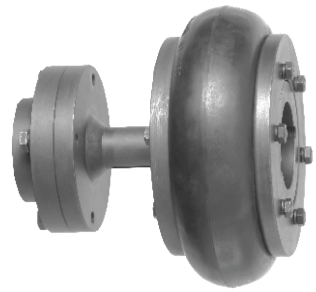
MATERIAL SPECIFICATIONS

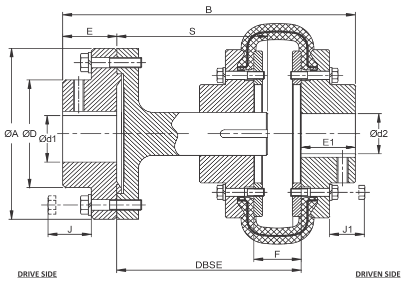
Flange	Size - 0040-0200	Cast Iron	CI	DIN 1693 GG 20
Tyre	All Size	Natural Rubber	NR	ASTM D2000 810
Clamping Ring	Size - 0040-0200	Mild Steel	St	BS 970
Hex Bolt	Size - 0040-0200	High Tensile	St	ISO 4014 : Gr 8.8
Taper Bush	Size - 1008-4545	Cast Iron	CI	DIN 1693 GG 20



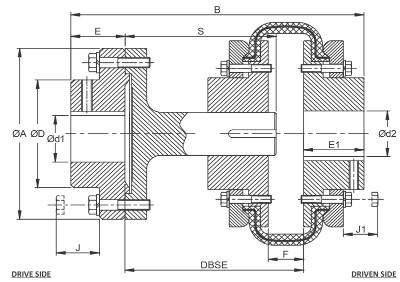
Atex Certified Coupling Available on request

- For temperature range of elastomers please see on page no. 47 - coupling selection





UTS 0040 to 0060



UTOS 0070 to 0140

FEATURES

- Spacer makes maintenance more efficient and easy as a space between two shafts up to DBSE is available
- No requirement of re-aligning after dismantling of coupling

DIMENSIONS & TECHNICAL DATA (UTS / UTOS)

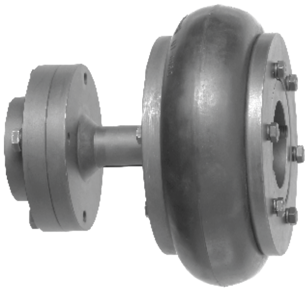
Size	Rated Torque Nm	Rated Torque HTX Nm	DBSE	Ød1		ØA	ØD	B		E	J	Tyre Size	Ød2		E1	J1		F	
				PB	Max Bore			UT	UTO				PB	Max Bore		UT	UTO	UT	UTO
12	21	48	80	14	50	118	83	157	-	55	22	UT 0040	10	30	22	43	-	21	-
	21	48	90	14	50	118	83	167	-	55	22	UT 0040	10	30	22	43	-	21	-
	21	48	100	14	50	118	83	177	-	55	22	UT 0040	10	30	22	43	-	21	-
16	21	48	90	14	48	127	80	167	-	55	24	UT 0040	10	30	22	43	-	21	-
	21	48	100	14	48	127	80	177	-	55	24	UT 0040	10	30	22	43	-	21	-
	21	48	140	14	48	127	80	217	-	55	24	UT 0040	10	30	22	43	-	21	-
	53	102	90	14	48	127	80	177	-	55	24	UT 0050	14	38	32	43	-	25	-
	53	102	100	14	48	127	80	187	-	55	24	UT 0050	14	38	32	43	-	25	-
	53	102	140	14	48	127	80	227	-	55	24	UT 0050	14	38	32	43	-	25	-
	106	203	90	14	48	127	80	183	-	55	24	UT 0060	15	48	38	43	-	30	-
	106	203	100	14	48	127	80	193	-	55	24	UT 0060	15	48	38	43	-	30	-
	106	203	140	14	48	127	80	233	-	55	24	UT 0060	15	48	38	43	-	30	-
25	162	249	90	26	82	178	127	-	215	80	27	UTO 0070	19	55	45	-	38	-	16
	162	249	100	26	82	178	127	-	225	80	27	UTO 0070	19	55	45	-	38	-	16
	162	249	135	26	82	178	127	-	260	80	27	UTO 0070	19	55	45	-	38	-	16
	162	249	140	26	82	178	127	-	265	80	27	UTO 0070	19	55	45	-	38	-	16
	162	249	180	26	82	178	127	-	305	80	27	UTO 0070	19	55	45	-	38	-	16
	253	407	90	26	82	178	127	-	221	80	27	UTO 0080	25	65	51	-	42	-	21
	253	407	100	26	82	178	127	-	231	80	27	UTO 0080	25	65	51	-	42		21
	253	407	135	26	82	178	127	-	266	80	27	UTO 0080	25	65	51		42	-	21
	253	407	140	26	82	178	127		271	80	27	UTO 0080	25	65	51	-	42	-	21
	253	407	180	26	82	178	127	-	311	80	27	UTO 0080	25	65	51	-	42	-	21
	365	509	90	26	82	178	127	-	227	80	27	UTO 0090	30	76	57	-	48	-	24
	365	509	100	26	82	178	127	-	237	80	27	UTO 0090	30	76	57	-	48	-	24
	365	509	135	26	82	178	127	-	272	80	27	UTO 0090	30	76	57	-	48	-	24
	365	509	140	26	82	178	127	-	277	80	27	UTO 0090	30	76	57	-	48		24
	365	509	180	26	82	178	127	-	317	80	27	UTO 0090	30	76	57		48	-	24
30	505	610	135	26	95	216	146		285	90	33	UTO 0100	32	85	60	-	48	-	20
	505	610	140	26	95	216	146	-	290	90	33	UTO 0100	32	85	60	-	48	-	20
	505	610	180	26	95	216	146	-	330	90	33	UTO 0100	32	85	60	-	48	-	20
	712	876	135	26	95	216	146	-	290	90	33	UTO 0110	32	90	65	-	55	-	21
	712	876	140	26	95	216	146	-	295	90	33	UTO 0110	32	90	65	-	55	-	21
	712	876	180	26	95	216	146	-	335	90	33	UTO 0110	32	90	65	-	55	-	21
35	1184	1424	135	30	115	248	178	-	321	110	33	UTO 0120	38	102	76	-	67	-	25
	1184	1424	140	30	115	248	178	-	326	110	33	UTO 0120	38	102	76	-	67	-	25
	1184	1424	180	30	115	248	178	-	366	110	33	UTO 0120	38	102	76	-	67	-	25
	1881	3117	135	30	115	248	178	-	334	110	33	UTO 0140	58	125	89	-	67	-	22
	1881	3117	140	30	115	248	178	-	339	110	33	UTO 0140	58	125	89	-	67	-	22
	1881	3117	180	30	115	248	178	-	379	110	33	UTO 0140	58	125	89	-	67	-	22

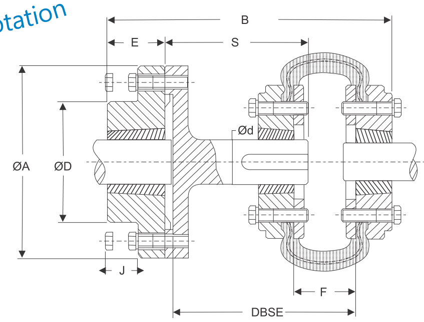
- For temperature range of elastomers please see on page no. 47 - coupling selection

UTL FLEXIBLE COUPLINGS

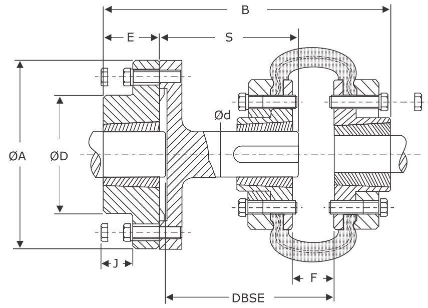
Utkarsh®
FLEXIBLE COUPLINGS
Revolutionizing Rotation

UTL UTTS / UTTOS COUPLINGS
(Tyre Spacer Couplings)





UTTS 0040 to 0060



UTTOS 0070 to 0140

FEATURES

- Spacer makes maintenance more efficient and easy as a space between two shafts up to DBSE is available
- No requirement of re-aligning after dismantling of coupling
- UTL offer two types of tyres option based on torque ratings

DIMENSIONS & TECHNICAL DATA

Size	Rated Torque Nm	Rated Torque HTX Nm	DBSE	Bush Size	ØA	ØD	B		E	J	S		Ød	Tyre size UT / UTT	Bush Size	F	
							UT	UTT			UT	UTT				UT	UTT
12	21	48	80	1210	118	83	130	-	25	22	57	-	25	UT 0040	1008	21	-
	21	48	100	1210	118	83	150	-	25	22	77	-	25	UT 0040	1008	21	-
16	21	48	100	1615	127	80	163	-	38	24	94	-	32	UT 0040	1008	21	-
	21	48	140	1615	127	80	203	-	38	24	134	-	32	UT 0040	1008	21	-
	53	102	100	1615	127	80	166	-	38	24	94	-	32	UT 0050	1210	25	-
	53	102	140	1615	127	80	206	-	38	24	134	-	32	UT 0050	1210	25	-
	106	203	100	1615	127	80	166	-	38	24	-	-	32	UT 0060	1610	30	-
	106	203	140	1615	127	80	206	-	38	24	-	-	32	UT 0060	1610	30	-
25	162	249	100	2517	178	127	-	180	45	27	-	94	48	UTT 0070F	2012	-	16
	162	249	140	2517	178	127	-	220	45	27	-	134	48	UTT 0070F	2012	-	16
	162	249	180	2517	178	127	-	260	45	27	-	174	48	UTT 0070F	2012	-	16
	253	407	100	2517	178	127	-	193	45	27	-	94	48	UTT 0080F	2517	-	21
	253	407	140	2517	178	127	-	233	45	27	-	134	48	UTT 0080F	2517	-	21
	253	407	180	2517	178	127	-	273	45	27	-	174	48	UTT 0080F	2517	-	21
	365	509	140	2517	178	127	-	233	45	27	-	134	48	UTT 0090	2517	-	24
	365	509	180	2517	178	127	-	273	45	27	-	174	48	UTT 0090	2517	-	24
30	505	610	140	3030	216	146	-	270	76	33	-	134	60	UTT 0100F	3020	-	20
	505	610	180	3030	216	146	-	310	76	33	-	174	60	UTT 0100F	3020	-	20
	712	876	140	3030	216	146	-	270	76	33	-	134	60	UTT 0110	3020	-	21
	712	876	180	3030	216	146	-	310	76	33	-	174	60	UTT 0110	3020	-	21
35	1184	1424	140	3535	248	178	-	297	89	33	-	134	80	UTT 0120F	3525	-	25
	1184	1424	180	3535	248	178	-	337	89	33	-	174	80	UTT 0120F	3525	-	25
	1881	3117	140	3535	248	178	-	297	89	33	-	134	80	UTT 0140	3525	-	22
	1881	3117	180	3535	248	178	-	337	89	33	-	174	80	UTT 0140	3525	-	22

MATERIAL SPECIFICATIONS

Flange	Size - 0040-0140	Cast Iron	CI	DIN 1693 GG 20
Tyre	All Size	Natural Rubber	NR	ASTM D2000 810
Clamping Ring	Size - 0040-0140	Mild Steel	St	BS 970
Spacer	Size - 0040-0140	Cast Iron	Cs	BS 970
Hex Bolt	Size - 0040-0140	High Tensile	St	ISO 4014 : Gr 8.8
Taper Bush	Size - 1008-3525	Cast Iron	CI	DIN 1693 GG 20

Atex Certified Coupling Available on request

- For temperature range of elastomers please see on page no. 47 - coupling selection

UTL FLEXIBLE COUPLINGS

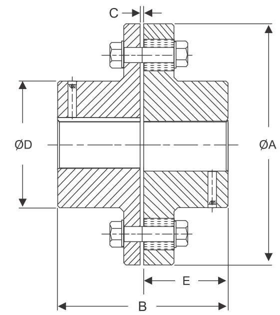
Utkarsh®

FLEXIBLE COUPLINGS

Revolutionizing Rotation

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 elements available on request
- The flexible bushes remain unaffected by water, dust and atmospheric conditions
- Range up to 197600 Nm
- Working temperature up 70° C

DIMENSIONS & TECHNICAL DATA

Size	Rated Torque Nm	kW Rating at			Min. Bore	Max. Bore	Max. speed rpm	Dimensions are in mm					No. of holes	Weight in kg approx	Moment of Inertia (WR^2) ($kg.m^2$)
		100 rpm	1440 rpm	3000 rpm				ØA	B	E	C	ØD			
95	77	0.81	11.66	24.3	12.7	28	6100	95	79	38	3	40	3	1.738	0.0015
114	310	3.25	46.8	97.5	12.7	30	5100	114	99	48	3	42	4	2.883	0.0038
130	516	5.4	77.8	162	16	42	4400	130	105	51	3	60	6	4.316	0.0069
160	621	6.5	93.6	195	16	48	3600	160	107	51	5	68	4	8.733	0.024
191	831	8.7	125.3	261	20	65	3000	191	125	60	5	90	4	13.596	0.051
191	1241	13	187.5	390	20	65	3000	191	125	60	5	90	6	13.666	0.052
200	1241	13	187.5	390	20	65	2800	200	125	60	5	90	6	14.68	0.061
225	1662	17.4	250.6	-	25	75	2600	225	157	76	5	105	6	20.634	0.102
254	2359	24.7	355.7	-	45	90	2300	254	183	89	5	135	8	30.106	0.181
254	2932	30.7	442	-	45	90	2300	254	183	89	5	135	10	30.176	0.182
254	3533	37	532.6	-	45	90	2300	254	183	89	5	135	12	30.245	0.182
290	4154	43.5	626.4	-	60	115	1950	290	235	115	5	170	12	49.983	0.364
300	5195	54.4	783.4	-	60	120	1900	300	235	115	5	180	14	59.571	0.495
310	5816	60.9	877	-	65	130	1850	310	255	125	5	195	16	70.279	0.614
340	7268	76.1	1096	-	65	135	1650	340	265	130	5	200	18	81.565	0.836
360	8729	91.4	1316	-	70	140	1590	360	276	135	6	210	12	107.42	1.379
390	9932	104	-	-	80	150	1470	390	316	155	6	225	12	134.09	1.956
410	13274	139	-	-	90	160	1400	410	336	165	6	240	15	154.04	2.459
440	14420	151	-	-	100	170	1300	440	366	180	6	255	16	185.69	3.32
480	18050	181	-	-	110	180	1200	480	386	190	6	270	18	232.7	5.107
530	23780	249	-	-	120	190	1080	530	406	200	6	285	20	280.03	7.436
580	35100	367.38	-	-	120	220	950	580	426	210	6	315	24	357	11.05
630	41600	435.41	-	-	140	240	900	630	532	260	12	360	14	576	22.05
710	58500	612.3	-	-	140	260	800	710	572	280	12	390	16	748	35.2
800	87750	918.45	-	-	180	290	700	800	612	300	12	430	18	993	61.8
900	111800	1170.17	-	-	200	325	625	900	652	32	14	480	12	1485	124.6
1000	197600	2068.21	-	-	230	350	575	1000	714	350	14	540	16	1937	195.5

MATERIAL SPECIFICATIONS

Hub	Size - 95 - 360	Cast Iron	CI	DIN 1693 GG 25
Hub	Size - 360 - 1000	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

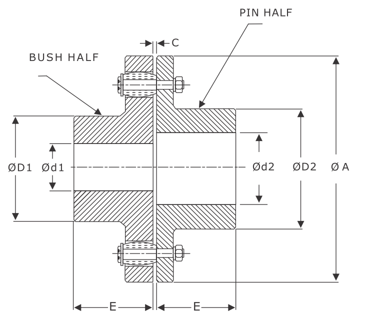
Atex Certified Coupling Available on request

- Alternative Bush for higher power ratings is available on request

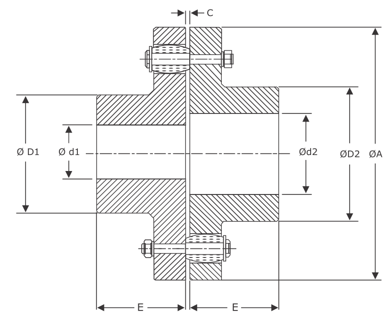
Bush 92° Shore A	All Size	Natural Rubber	NR	ASTM D2000 910	Torque 1.6 times of standard
Bush 92° Shore A (Yellow Colour)	All Size	Polyurethane	PU		Torque 1.8 times of standard
Bush 98° Shore A (Red Colour)	All Size	Polyurethane	PU		Torque 2.5 times of standard

- For temperature range of elastomers please see on page no. 47 - coupling selection

UTL UB COUPLINGS
(Coupling with Curved Bushes)



Up to size UB - 360



From size UB - 400 and above

FEATURES

- Assembling and dismantling is very easy
- By removing the pins, prime mover can be run independently
- Standard bushes (element) 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
- Working temperature up 70° C

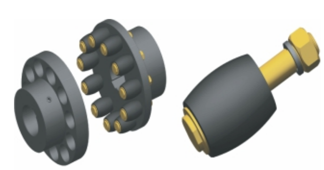
DIMENSIONS & TECHNICAL DATA

Size	Rated Torque Nm	kW Rating at 100 rpm	Maximum speed rpm	Dimensions are in mm								Max. Misalignment			No of holes	Pin Name	Bush Name	Weight in kg approx	Moment of Inertia (kg.m²)
				Min. Bore	Max. Bore Ød1	Max. Bore Ød2	ØA	ØD1	ØD2	E	C	Angular (°)	Parallel (mm)	Axial (mm)					
105	95	1.00	7200	11	30	32	105	48	50	45	2-6	1°	0.3	2	3	UB 10	UB 10	2.682	0.003
116	146	1.53	6100	12	39	42	116	60	68	45	2-6	1°	0.3	2	4			3.575	0.005
125	166	1.73	5500	14	45	50	125	68	78	50	2-6	1°	0.4	2	4			4.891	0.007
144	318	3.33	4900	18	50	60	144	82	91	55	2-6	1°	0.4	2	6			6.679	0.012
162	525	5.50	4500	22	60	65	162	89	100	60	2-6	1°	0.4	2	6	UB 20	UB 20	9.393	0.030
178	643	6.73	3800	24	70	75	178	105	115	70	2-6	1°	0.5	2	6			13.306	0.040
198	1248	13.07	3400	28	80	90	198	124	135	80	2-6	1°	0.5	2	10			18.37	0.062
228	2050	21.47	3000	28	90	100	228	133	146	90	4-10	1°	0.6	3	11	UB 30	UB 30	27.241	0.100
252	3069	32.13	2700	38	105	115	252	156	167	100	4-10	1°	0.6	3	12			37.005	0.170
285	4552	47.67	2400	48	115	125	285	170	186	110	4-10	1°	0.7	3	11	UB 40	UB 40	52.163	0.310
320	6099	63.87	2100	55	125	135	320	196	212	125	4-10	1°	0.7	3	12			74.359	0.530
360	8900	93.20	1900	65	135	150	360	212	232	140	4-12	1°	0.9	4	11	UB 50	UB 50	105.055	1.020
400	12051	126.20	1700	75	160	160	400	230	230	160	4-12	1°	1.1	4	10	UB 60	UB 60	133.63	1.700
450	18602	194.80	1500	85	180	180	450	260	260	180	4-12	0.5°	1.1	4	12			183.734	2.900
500	25802	270.20	1350	95	200	200	500	290	290	200	4-12	0.5°	1.1	4	14			244.977	4.700
560	31003	324.67	1200	95	225	225	560	320	320	220	4-8	0.5°	1.5	2	10	UB 70	UB 70	390.925	10.700
630	41998	439.80	1050	100	250	250	630	355	355	240	4-8	0.5°	1.5	2	12			519.049	17.400
710	75000	785.40	950	100	260	260	710	385	385	260	5-9	0.5°	1.8	2	12	UB 80	UB 80	711.633	33.000
800	100000	1047.20	850	100	280	280	800	420	420	290	5-9	0.5°	1.8	2	14			984.192	53.000
900	160000	1623.13	750	100	305	305	900	465	465	320	5-9	0.5°	1.8	2	16			1299.423	86.000

MATERIAL SPECIFICATIONS

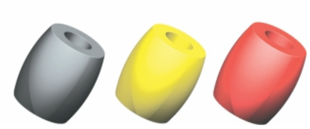
Hub	Size - 105-360	Cast Iron	CI	DIN 1693 GG 25
Hub	Size - 360 - 900	Cast Iron	CI	DIN 1693 GG 25
Bush 80° Shore A	All Size	Natural Rubber	NR	ASTM D2000 810
Coupling pin	All Size	Steel C 40	St	EN / DIN 10263 - 2

Atex Certified Coupling Available on request



- 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



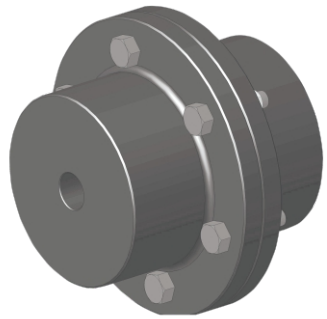
- For temperature range of elastomers please see on page no. 47 - coupling selection

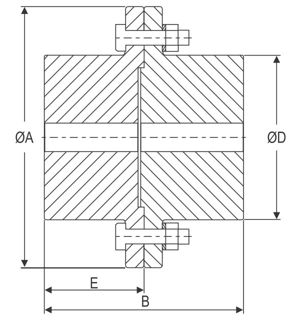
UTL FLEXIBLE COUPLINGS

Utkarsh®

FLEXIBLE COUPLINGS

Revolutionizing Rotation





From size UB RIGID 105 to size UB RIGID 360

FEATURES

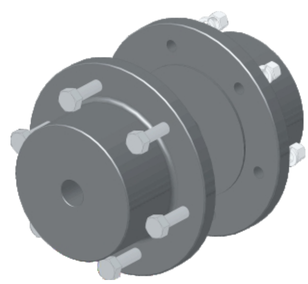
- Rigid couplings are robust, simple & ideal for exactly aligned shafts.
- They are torsionally stiff & backlash free.
- Type UB rigid permits lager finish bore in both hubs.

DIMENSIONS & TECHNICAL DATA

Size	Rated Torque Nm	kW Rating at 100 rpm	Maximum speed rpm	Dimensions are in mm						No of holes	Weight in kg approx	Moment of Inertia (kg.m²)
				Min. Bore	Max. Bore	ØA	ØD	E	B			
105	237	2.48	7200	11	32	105	50	45	90	3	2.24	0.002
116	365	3.82	6100	12	42	116	68	45	90	4	3.36	0.003
125	415	4.35	5500	14	50	125	78	50	100	4	4.50	0.005
144	795	8.33	4900	18	60	144	91	55	110	6	6.49	0.010
162	1312	13.74	4500	22	65	162	100	60	120	6	9.26	0.020
178	1607	16.83	3800	24	75	178	115	70	140	6	13.15	0.034
198	3120	32.67	3400	28	90	198	135	80	160	10	19.47	0.063
228	5125	53.67	3000	28	100	228	146	90	180	11	27.64	0.127
252	7672	80.35	2700	38	115	252	167	100	200	12	38.95	0.210
285	11380	119.17	2400	48	125	285	186	110	220	11	54.38	0.386
320	15247	159.67	2100	55	135	320	212	125	250	12	77.00	0.666
360	22250	233	1900	65	150	360	232	140	280	11	104.55	1.126

MATERIAL SPECIFICATIONS

Hub	Size - 105-360	Cast Iron	CI	DIN 1693 GG 25
Hex Bolt	Size - 105 - 360	High Tensile	St	ISO 4014 Gr 8.8



Atex Certified Coupling Available on request

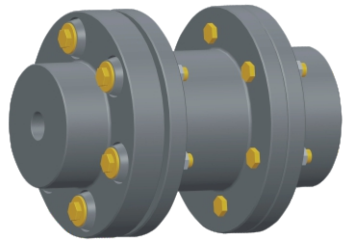
- For temperature range of elastomers please see on page no. 47 - coupling selection

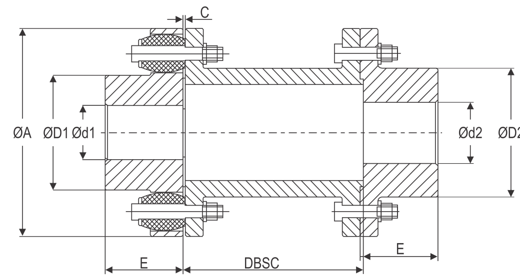
UTL FLEXIBLE COUPLINGS

Utkarsh®

FLEXIBLE COUPLINGS

Revolutionizing Rotation





FROM SIZE UBS 105 TO SIZE UBS 360

FEATURES

- Assembling and dismantling is very easy.
- By removing the pins, prime mover can be run independently.
- Standard bushes (Element) in Natural rubber.
- After removing the pins, the hub with shaft can be removed up wards without disturbing the alignment.
- The flexible bushes remain unaffected by water, dust and atmospheric conditions.
- Working temperature up to 70° C
- Maximum permissible misalignment : Angular 1° , Parallel 0.9 mm & Axial 4 mm

DIMENSIONS & TECHNICAL DATA

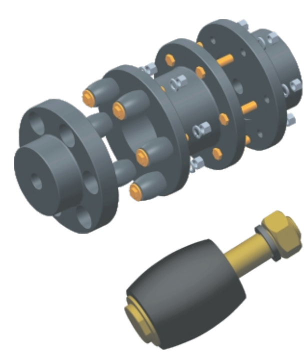
Size	Rated Torque Nm	kW. Rating at 100 rpm	Max. Speed rpm	Min Bore	Max. Bore		DBSC	ØA	ØD1	ØD2	E	C	Max. Misalignment			No of Holes	Weight in Kg approx Pilot Bore	Moment of Inertia (kg.m²) Pilot Bore
					Ød1	Ød2							Angular (°)	Radial mm	Axial mm			
105	95	1.00	7200	11	30	32	100 140	105	48	50	45	2-6	0.5°	0.3	2	3	4.57 4.86	0.005
116	146	1.53	6100	12	39	42	100 140	116	60	68	45	2-6	0.5°	0.3	2	4	6.04 6.63	0.007
125	166	1.73	5500	14	45	50	100 140	125	68	78	50	2-6	0.5°	0.4	2	4	7.43 8.13	0.011
144	318	3.33	4900	18	50	60	100 140 180	144	82	91	55	2-6	0.5°	0.4	2	6	9.99 10.75 11.52	0.020
162	525	5.50	4500	22	60	65	100 140 180	162	89	100	60	2-6	0.5°	0.4	2	6	14.35 14.28 16.33	0.039
178	643	6.73	3800	24	70	75	100 140 180	178	105	115	70	2-6	0.5°	0.5	2	6	20.00 20.16 21.31	0.060
198	1248	13.07	3400	28	80	90	100 140 180	198	124	135	80	2-6	0.5°	0.5	2	10	25.39 26.78 28.16	0.100
228	2050	21.47	3000	28	90	100	140 180	228	133	146	90	4-10	0.5°	0.6	3	11	39.22 40.78	0.210
252	3069	32.13	2700	38	105	115	140 180	252	156	167	100	4-10	0.5°	0.6	3	12	50.81 52.68	0.330
285	4552	47.67	2400	48	115	125	140 180	285	170	186	110	4-10	0.5°	0.7	3	11	73.11 75.50	0.660
320	6099	63.87	2100	55	125	135	140 180	320	196	212	125	4-10	0.5°	0.7	3	12	99.42 102.26	1.070
360	8900	93.20	1900	65	135	150	180	360	212	232	140	4-12	0.5°	0.9	4	11	145.36	2.020

MATERIAL SPECIFICATIONS

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

- Alternative for higher power ratings

Bush	92° Shore A	Natural Rubber	NR	ST.ASTM D2000 910
Bush	98° Shore A	Polyurethane	PU	-



- For temperature range of elastomers please see on page no. 47 - coupling selection

UTL

RELIABILITY IN ROTATION

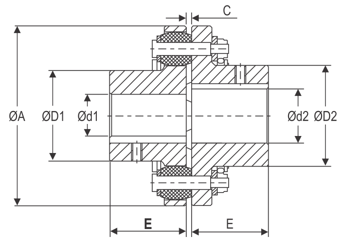
UTL FLEXIBLE COUPLINGS

Utkarsh®

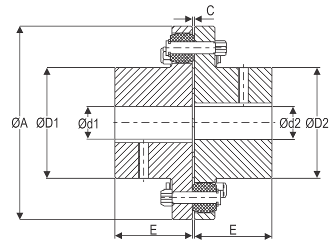
FLEXIBLE COUPLINGS

Revolutionizing Rotation

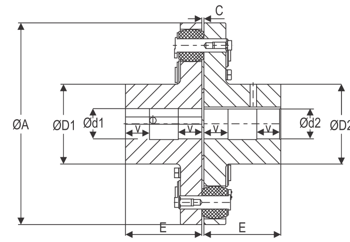
UTL UBN COUPLINGS - CAST IRON



UP TO SIZE UBN 360



SIZE UBN 400



FROM SIZE UBN 450 ONWARDS

FEATURES

- UBN coupling require less maintenance.
- Only elastomer buffers, as wear parts need to be replaced.
- Standard bushes (Element) in Nitrile rubber.
- Their robust design, UBN coupling are suitable for rough operating condition.
- UBN coupling are suitable for reversing operation & horizontal & vertical fitting at any required angle.
- Range up to 195000 Nm Torque-ratings.
- Working temperature up to -30° C and +80° C

DIMENSIONS & TECHNICAL DATA

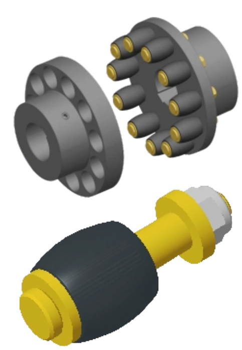
Size	Rated Torque Nm	kW. at 100 rpm	Max. Speed rpm	Min Bore	Max. Bore		ØA	ØD1	ØD2	E	C	Max. Misalignment			No of Holes	Pin Name	Bush Name	Weight in Kg approx Pilot Bore	Moment of Inertia (kg.m²) Pilot Bore
					Ød1	Ød2						Angular (°)	Radial mm	Axial mm					
105	200	2.09	7000	11	32	38	105	53	59	45	3	0.11	0.2	0.2	8	UBN 10	UBN 10	2.04	0.0024
125	350	3.69	6000	14	40	48	125	65	68	50	3	0.10	0.2	0.2	8	UBN 20	UBN 20	4.26	0.0059
144	500	5.24	5250	18	45	55	144	76	84	55	3	0.09	0.23	0.23	10			6.18	0.0119
162	750	7.85	4650	22	50	60	162	85	92	60	3.5	0.09	0.25	0.25	9	UBN 30	UBN 30	8.85	0.0213
178	950	9.95	4200	24	60	70	178	102	108	70	3.5	0.09	0.27	0.27	10			12.57	0.0345
198	1300	13.61	3750	28	70	80	198	120	128	80	3.5	0.08	0.29	0.29	12			18.18	0.0599
228	2200	23.04	3300	28	80	90	228	129	140	90	3.5	0.08	0.3	0.3	11	UBN 40	UBN 40	26.20	0.1163
252	2750	28.80	3000	38	90	100	252	150	160	100	3.5	0.08	0.34	0.34	12			35.65	0.1905
285	4300	45.03	2650	48	100	110	285	164	175	110	4.5	0.07	0.36	0.36	11	UBN 50	UBN 50	50.03	0.3608
320	5500	57.60	2350	55	110	120	320	180	192	125	4.5	0.07	0.4	0.4	12			67.58	0.5914
360	7800	61.68	2100	65	120	130	360	200	210	140	4.5	0.07	0.43	0.43	10	UBN 60	UBN 60	98.06	1.1454
400	12500	130.90	2050	75	140	140	400	230	230	160	4.5	0.07	0.48	0.48	14			131.71	1.8348
450	18500	193.73	1800	85	160	160	450	260	260	180	5.5	0.07	0.52	0.52	12	UBN 70	UBN 70	194.46	3.5261
500	25000	261.80	1600	95	180	180	500	290	290	200	5.5	0.07	0.57	0.57	14			256.09	5.5367
560	39000	408.81	1450	100	140	140	560	250	250	220	6	0.06	0.62	0.62	12	UBN 80	UBN 80	348.26	9.8867
				140	180	180		300	300										
				180	200	200		320	320										
630	52000	544.54	1280	100	140	140	630	250	250	240	6	0.06	0.68	0.68	14			370.70	14.144
				140	180	180		300	300										
				180	220	220		355	355										
710	84000	879.65	1150	110	160	160	710	290	290	260	7	0.06	0.75	0.75	14	UBN 90	UBN 90	542.86	26.383
				160	200	200		330	330										
				200	240	240		385	385										
800	110000	1151.92	1000	125	180	180	800	320	320	290	7	0.06	0.84	0.84	16			776.22	44.732
				180	220	220		360	360										
				220	260	260		420	420										
900	150000	1570.80	900	140	220	220	900	360	360	320	7.5	0.06	0.93	0.93	16	UBN 100	UBN 100	1001	77.912
				220	260	260		425	425										
				260	290	290		465	465										
1000	195000	2042.04	810	150	240	240	1000	395	395	350	7.5	0.06	1.03	1.03	18			1300	120
				240	280	280		460	460										
				280	320	320		515	515										

MATERIAL SPECIFICATIONS

Hub	Size -105 - 360	Cast Iron	CI	DIN 1693 GG 25
Hub	Size -400 -1000	Cast Iron	CI	DIN 1693 GG 25
Bush	80° Shore A	Nitrile Rubber	NBR	ST.ASTM D2000 910
Coupling pin	-	42CrMo4	-	EN 19

- Alternative for higher power ratings

Bush	92° Shore A	Nitrile Rubber	NBR	ST.ASTM D2000 910
Bush	98° Shore A	Polyurethane	PU	-



- Note : From size - 560 bores D1 & D2 are each provided with a recess of D = +1mm halfway along the hub.
  V≈ 1/3 NL

- For temperature range of elastomers please see on page no. 47 - coupling selection

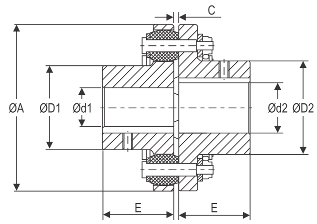
UTL FLEXIBLE COUPLINGS

Utkarsh®

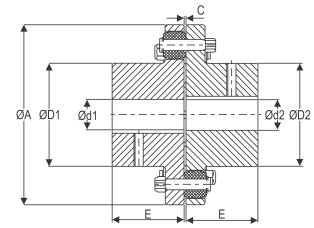
FLEXIBLE COUPLINGS

Revolutionizing Rotation

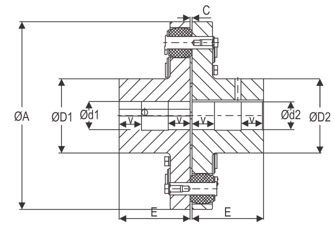
UTL UBN COUPLINGS - CAST STEEL



UP TO SIZE UBN 360



SIZE UBN 400



FROM SIZE UBN 450 ONWARDS

FEATURES

- UBN coupling require less maintenance.
- Only elastomer buffers, as wear parts need to be replaced.
- Standard bushes (Element) in Nitrile rubber.
- Steel variant is also especially suitable for high-speed drives.
- Their robust design, UBN coupling are suitable for rough operating condition.
- UBN coupling are suitable for reversing operation & horizontal & vertical fitting at any required angle.
- Range up to 195000 Nm Torque-ratings.
- Working temperature up to -30° C and +80° C

DIMENSIONS & TECHNICAL DATA

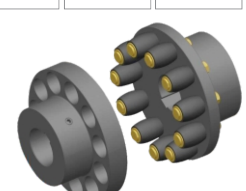
Size	Rated Torque Nm	kW. at 100 rpm	Max. Speed rpm	Min Bore	Max. Bore		ØA	ØD1	ØD2	E	C	Max. Misalignment			No of Holes	Pin Name	Bush Name	Weight in Kg approx Pilot Bore	Moment of Inertia (kg.m²) Pilot Bore
					Ød1	Ød2						Angular (°)	Radial mm	Axial mm					
105	200	2.09	10000	11	32	38	105	53	59	45	3	0.11	0.2	0.2	8	UBN 10	UBN 10	2.20	0.0026
125	350	3.69	9000	14	40	48	125	65	68	50	3	0.10	0.2	0.2	8	UBN 20	UBN 20	4.59	0.0064
144	500	5.24	7800	18	50	60	144	76	84	55	3	0.09	0.23	0.23	10			6.67	0.0120
162	750	7.85	6900	22	55	65	162	85	92	60	3.5	0.09	0.25	0.25	9	UBN 30	UBN 30	9.54	0.0229
178	950	9.95	6300	24	70	75	178	102	108	70	3.5	0.09	0.27	0.27	10			13.58	0.0371
198	1300	13.61	5600	28	80	85	198	120	128	80	3.5	0.08	0.29	0.29	12			19.64	0.0645
228	2200	23.04	4900	28	85	95	228	129	140	90	3.5	0.08	0.3	0.3	11	UBN 40	UBN 40	28.30	0.125
252	2750	28.80	4400	38	100	110	252	150	160	100	3.5	0.08	0.34	0.34	12			38.55	0.205
285	4300	45.03	3900	48	110	120	285	164	175	110	4.5	0.07	0.36	0.36	11	UBN 50	UBN 50	54.02	0.3878
320	5500	57.60	3500	55	125	130	320	180	192	125	4.5	0.07	0.4	0.4	12			73.04	0.6367
360	7800	61.68	3100	65	135	140	360	200	210	140	4.5	0.07	0.43	0.43	10	UBN 60	UBN 60	105.97	1.2333
400	12500	130.90	2800	75	150	150	400	230	230	160	4.5	0.07	0.48	0.48	14			142.22	1.9729
450	18500	193.73	2500	85	170	170	450	260	260	180	5.5	0.07	0.52	0.52	12	UBN 70	UBN 70	210.04	3.7937
500	25000	261.80	2200	95	190	190	500	290	290	200	5.5	0.07	0.57	0.57	14			276.71	5.9601
560	39000	408.81	2000	100	165	165	560	250	250	220	6	0.06	0.62	0.62	12	UBN 80	UBN 80	375.62	10.609
				165	200	200		300	300										
				200	210	210		320	320										
630	52000	544.54	1800	100	165	165	630	250	250	240	6	0.06	0.68	0.68	14			399.65	15.183
				165	200	200		300	300										
				200	235	235		355	355										
710	84000	879.65	1600	110	190	190	710	290	290	260	7	0.06	0.75	0.75	14	UBN 90	UBN 90	585.09	28.310
				190	220	220		330	330										
				220	250	250		385	385										
800	110000	1151.92	1400	125	210	210	800	320	320	290	7	0.06	0.84	0.84	16			837.90	48.902
				210	240	240		360	360										
				240	280	280		420	420										
900	150000	1570.80	1250	140	210	210	900	320	320	320	7.5	0.06	0.93	0.93	16	UBN 100	UBN 100	1089.63	83.714
				210	240	240		360	360										
				240	280	280		425	425										
				280	310	310		465	465										
1000	195000	2042.04	1100	150	230	230	1000	355	355	350	7.5	0.06	1.03	1.03	18			1390	128
				230	260	260		395	395										
				260	300	300		460	460										
				300	340	360		515	515										

MATERIAL SPECIFICATIONS

Hub	Size -105 - 360	Cast Steel	CS	-
Hub	Size -400 - 1000	Cast Steel	CS	-
Bush	80° Shore A	Nitrile Rubber	NBR	ST.ASTM D2000 910
Coupling pin		42CrMo4	-	EN 19

- Alternative for higher power ratings

Bush	92° Shore A	Nitrile Rubber	NBR	ST.ASTM D2000 910
Bush	98° Shore A	Polyurethane	PU	-



- Note : From size - 560 bores D1 & D2 are each provided with a recess of D = +1mm halfway along the hub.
  V≈ 1/3 NL

- For temperature range of elastomers please see on page no. 47 - coupling selection

UTL FLEXIBLE COUPLINGS

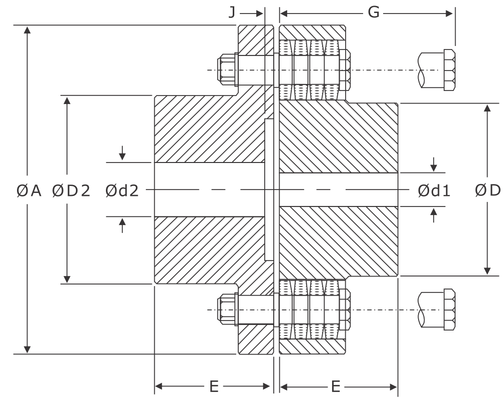
Utkarsh®

FLEXIBLE COUPLINGS

Revolutionizing Rotation

UTL URC COUPLINGS

(Coupling with Cone Rings as Elastomers)



FEATURES

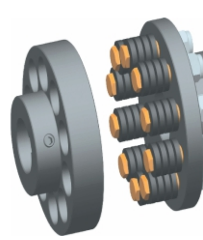
- Simple mechanism, easy to inspect and change the flex cone rings, without moving either shaft or hub of the coupling
- Flex cone rings are the only wear parts, minimise running cost
- Range up to 45000 Nm

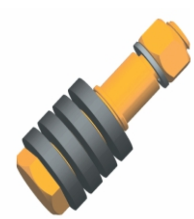
DIMENSIONS & TECHNICAL DATA

Size	Rated Torque Nm	kW Rating at 100 rpm	Maximum speed rpm	Dimensions are in mm									Misalignment			Weight in kg approx	Moment of Inertia (kg.m²) (Min bore)
				Min. Bore	Max. Bore		ØA	ØD1	ØD2	E	G	J	Angular (°)	Parallel (mm)	Axial (mm)		
					Ød1	Ød2											
20	50	0.56	6500	12	20	28	89	35	44	33	73	6	1°	0.1	1.5	1.8	0.002
30	110	1.2	4600	12	30	38	127	51	66	41	88	6	1°	0.1	1.5	3.5	0.007
38	190	2.0	4400	15	38	42	132	64	72	48	88	6	1°	0.1	1.5	4.9	0.009
42	290	3.0	4000	15	42	48	146	70	82	56	88	6	1°	0.1	1.5	6.3	0.013
48	480	5.0	3400	21	48	55	171	82	94	61	114	6	1°	0.15	1.5	10.4	0.034
58	760	8.0	3000	21	58	65	193	97	110	68	114	6	1°	0.15	1.5	14.2	0.055
70	1000	11.0	2700	21	70	75	216	117	130	76	114	6	1°	0.15	1.5	19.8	0.092
75	2600	27.0	2300	28	75	80	254	127	142	88	179	6	1°	0.2	1.5	36.9	0.269
85	3500	37.0	2090	28	85	90	279	147	160	100	179	6	1°	0.2	1.5	48.5	0.408
105	5300	56.0	1760	34	105	120	330	180	210	117	179	6	1°	0.2	1.5	76.4	0.832
120	9000	94.0	1570	61	120	130	370	206	225	132	244	9	1°	0.25	1.5	121	1.811
135	12000	128.0	1390	67	135	150	419	230	260	147	244	9	1°	0.25	1.5	163	2.998
150	16000	167.0	1280	82	150	170	457	256	300	165	244	11	1°	0.25	1.5	209	4.397
170	25000	258.0	1090	96	170	190	533	292	320	188	318	11	1°	0.25	1.5	305	9.998
190	34000	360.0	975	122	190	215	597	330	380	211	318	6	1°	0.40	1.5	397	15.900
215	45000	467.0	880	135	215	240	660	368	430	237	318	6	1°	0.40	1.5	508	24.950
240	92030	964.0	900	140	250	250	737	407	407	264	170	6	1.5°	1.00	2.5	760	52.994
265	121900	1277.0	800	160	285	285	826	457	457	292	170	6	1.5°	1.00	2.5	997	89.411
280	158800	1663.0	720	180	310	310	927	508	508	311	170	6	1.5°	1.00	2.5	1300	141.075
305	191060	2000.0	675	180	330	330	991	533	533	324	170	6	1.5°	1.00	2.5	1509	182.174
330	251200	2631.0	625	200	355	355	1067	572	572	330	170	6	1.5°	1.00	2.5	1755	240.094

MATERIAL SPECIFICATIONS

Hub	Size - 20-105	Cast Iron	CI	DIN 1693 GG 25
Hub	Size - 120-215	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 C 40	St	EN / DIN 10263 - 2





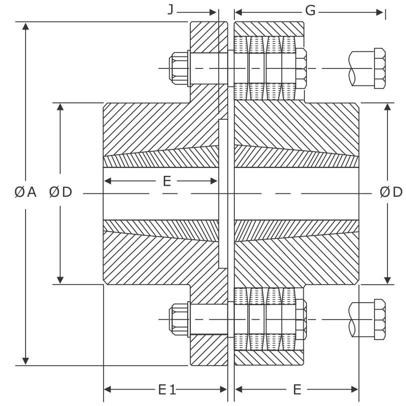
Atex Certified Coupling Available on request

- For temperature range of elastomers please see on page no. 47 - coupling selection

UTL FLEXIBLE COUPLINGS

Utkarsh FLEXIBLE COUPLINGS Revolutionizing Rotation

UTL URCT COUPLINGS
(Coupling with Taper Bore & Cone Rings as Elastomers)



FEATURES

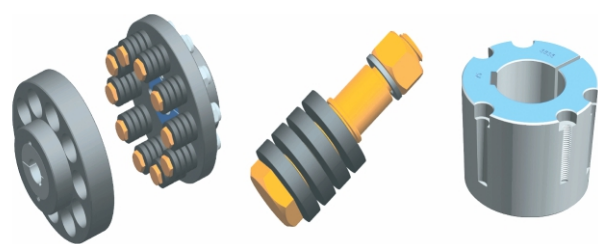
- Simple mechanism, easy to inspect and change the flex cone rings, without moving either shaft or hub of the coupling
- Flex cone rings are the only wear parts. Minimise running cost
- Range up to 16000 Nm
- Taper bush gives clamping on shaft total surface
- Easy to replace thus minimising maintenance time

DIMENSIONS & TECHNICAL DATA

Size	Rated Torque Nm	kW Rating at 100 rpm	Maximum speed rpm	Taper Bush Size	Dimensions are in mm							Misalignment			Weight in kg approx	Moment of Inertia ($kg.m^2$) (without Taper Bush)
					Bore Range	ØA	ØD	E	E1	G	J	Angular (°)	Parallel (mm)	Axial (mm)		
42	290	3.0	4000	1215	12-32	146	70	38	41	88	6	1°	0.1	1.5	5.5	0.013
48	480	5.0	3400	1615	14-42	171	82	38	41	114	6	1°	0.15	1.5	9	0.032
58	760	8.0	3000	2017	14-50	193	97	45	47	114	6	1°	0.15	1.5	13	0.053
70	1000	11.0	2700	2525	16-60	216	117	64	68	114	6	1°	0.15	1.5	18.1	0.088
75	2600	27.0	2300	2525	16-60	254	127	64	68	179	6	1°	0.2	1.5	35.2	0.265
85	3500	37.0	2090	3030	24-75	279	147	76	80	179	7	1°	0.2	1.5	44.1	0.39
105	5300	56.0	1760	3535	35-90	330	180	89	93	179	6	1°	0.2	1.5	72.1	0.773
120	9000	94.0	1570	4040	40-100	370	206	102	106	244	10	1°	0.25	1.5	108	1.718
135	12000	128.0	1390	4545	55-115	419	230	114	119	244	11	1°	0.25	1.5	144	2.869
150	16000	167.0	1280	5050	70-127	457	256	127	132	244	11	1°	0.25	1.5	181	4.069

MATERIAL SPECIFICATIONS

Hub	Size - 42-105	Cast Iron	CI	DIN 1693 GG 25
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 C 40	St	EN / DIN 10263 - 2



Atex Certified Coupling Available on request

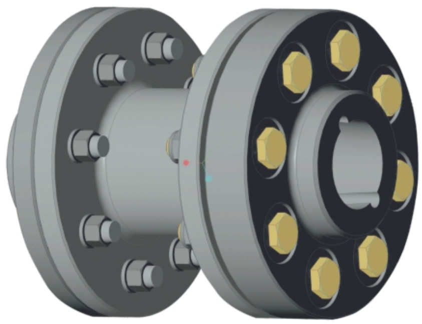
- For temperature range of elastomers please see on page no. 47 - coupling selection

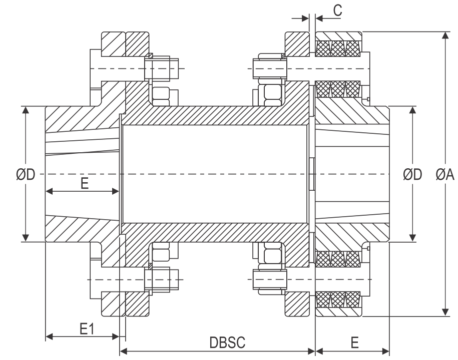
UTL FLEXIBLE COUPLINGS

Utkarsh®

FLEXIBLE COUPLINGS

Revolutionizing Rotation





FROM SIZE URCTS 042 TO SIZE URCTS 085

FEATURES

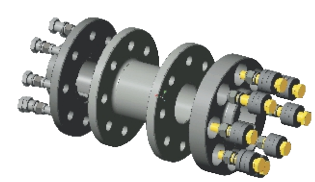
- Simple mechanism, easy to inspect and change the flex cone rings, without moving either shaft or hub of the coupling.
- Flex cone rings are the only wear parts. They cost very less.
- This makes the URCTS cone ring coupling economical in the long run.
- Range up to 3500 nm torque - ratings.
- Taper bush gives clamping on shaft total surface.
- Easy to replace thus minimising maintenance time.

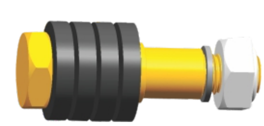
DIMENSIONS & TECHNICAL DATA

Size	Rated Torque Nm	kW. Rating at 100 rpm	Max. Speed rpm	Bush Size	Bore Range	DBSC	Dimensions are in mm					Max. Misalignment			Weight in Kg approx Pilot Bore	Moment of Inertia (kg.m^2) Pilot Bore
							ØA	ØD	E	E1	C	Angular (°)	Radial mm	Axial mm		
42	290	3.0	4000	1215	12-32	100,140,180	146	70	38	41	3	1°	1.75	1.5	8.06	0.020
48	480	5.0	3400	1615	14-42	100,140,180	171	82	38	41	3	1°	1.75	1.5	13.16	0.050
58	760	8.0	3000	2017	14-50	100,140,180	193	97	45	47	3	1°	1.75	1.5	17.67	0.084
70	1000	11.0	2700	2525	16-60	100,140,180	216	117	64	68	4	1°	1.75	1.5	22.60	0.135
75	2600	27.0	2300	2525	16-60	140,180	254	127	64	68	4	1°	2.44	1.5	48.65	0.403
85	3500	37.0	2090	3030	24-75	140,180	279	147	76	80	4	1°	2.44	1.5	61.09	0.624

MATERIAL SPECIFICATIONS

Hub	42-85	Cast Iron	CI	DIN 1693 GG 25
Cone ring	70° Shore A	Natural Rubber	NR	ST.ASTM D2000 710
Coupling pin		C 40		EN/DIN 10263-2
Spacer	42-85	SG 400-15	SG	EN-GJS-400-15





- Alternative cone ring for higher power ratings is available on request

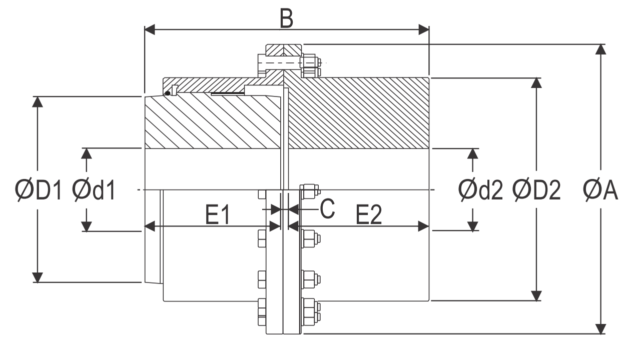
Cone ring	98° Shore A	Polyurethane	PU	

- For temperature range of elastomers please see on page no. 47 - coupling selection

UTL FLEXIBLE COUPLINGS

Utkarsh®
FLEXIBLE COUPLINGS
Revolutionizing Rotation

UTL UAG GEAR COUPLINGS
(Single Engagement Type-1)



FEATURES

- AGMA 9008-B00 Design Conformity: Interchangeability of half assembly with any other half gear coupling manufactured as per AGMA STD
- Multicrown teeth design
- Minimum backlash due to crowned teeth
- Cannot accommodate radial misalignment due single engagement of gear teeth
- High Power Capacity
- Compact design
- Design Variants : Brake Drum/Disc, Spacer type, Floating Shaft, Vertical design. etc.

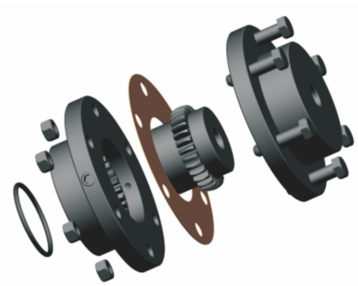
DIMENSIONS & TECHNICAL DATA

Size	Rated Torque Nm	kW Rating at 100 rpm	Maximum Speed rpm	Bore Ød1		Bore Ød2		Dimensions are in mm							Weight / Coupling kg approx. in kg	Moment of Inertia (WR²) (kg.m²)
				Min. Bore	Max. Bore	Min. Bore	Max. Bore	ØA	ØD1	ØD2	E1	E2	C	B		
UAG 101	1423	14.9	7100	14	46	14	58	116	60	76	43	40	4	87	4.8	0.005
UAG 151	2693	28.2	5400	20	57	20	75	152	76	98	49	47	4	100	8.4	0.019
UAG 201	4584	48.0	4800	27	78	27	95	178	102	124	62	60	4	126	17.2	0.044
UAG 251	7411	77.6	4250	27	90	27	110	213	117	148	77	75	5	157	29.0	0.107
UAG 301	12224	128	4000	39	110	39	130	240	143	173	91	89	5	185	39.0	0.200
UAG 351	18718	196	3600	39	127	39	155	279	165	201	106	104	6	216	63.5	0.446
UAG 401	29796	312	3290	55	145	55	180	318	191	233	121	116	8	245	93.9	0.842
UAG 451	41161	431	2920	55	165	55	200	346	216	262	135	130	9	274	127	1.350
UAG 501	55199	578	2630	55	185	55	225	389	241	294	153	148	9	310	186	2.800
UAG 551	81844	857	2320	55	205	55	250	425	267	324	175	164	9	348	244	3.940
UAG 601	104668	1096	2120	55	225	55	265	457	292	349	188	182	10	380	299	5.130
UAG 701	156620	1640	1830	55	260	55	310	527	343	406	221	221	13	455	472	11.040

- Catalogue torque ratings shown are nominal values at 1.50 degrees. For values at misalignments less than 1.50 degrees:- Multiply nominal catalogue values by factor in table left.

MISALIGNMENT SPECIFICATIONS

Misalignment Angle Gear Half (Degrees)	Rating Factor
1.50	1.00
1.00	1.15
0.75	1.30
0.50	1.55
0.00	2.00



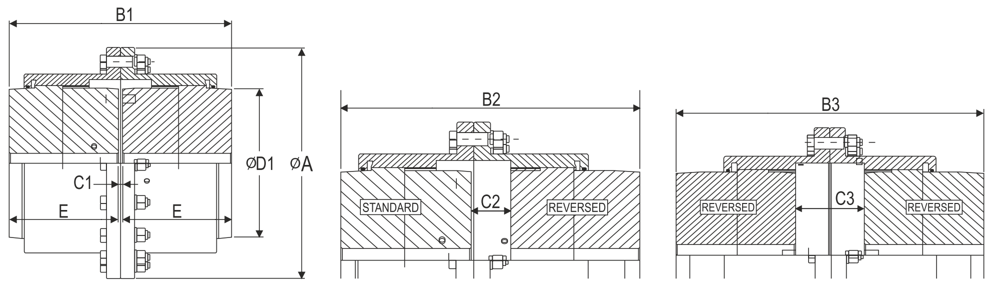
MATERIAL SPECIFICATIONS

Hub	All Size	Forged Steel EN9	St	C - 45
Sleeve	All Size	Forged Steel EN9	St	EN / DN - 10236
Rigid Hub	All Size	Forged Steel EN9	St	C - 45
O Ring	All Size	Synthetic Rubber	-	-
Gasket	All Size	Beta Flex	-	72 No
Hex Bolt & Nut	All Size	High Tensile	St	ISO 4014 : Gr 8.8

Atex Certified Coupling Available on request

- For temperature range of elastomers please see on page no. 47 - coupling selection

UTL UAG GEAR COUPLINGS
(Double Engagement Type-2)



FEATURES

- **AGMA 9008-B00 Design Conformity:** Interchangeability of half assembly with any other half gear coupling manufactured as per AGMA STD
- Multicrown teeth design
- Minimum backlash due to crowned teeth
- Can compensate axial, radial and angular misalignments due two engagements of gear teeth
- High Power Capacity
- Compact design
- **Design Variants :** Shear Pin, Brake Drum/Disc, Spacer type, Vertical design. etc.

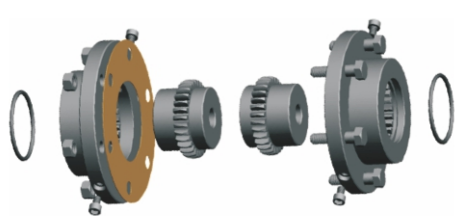
DIMENSIONS & TECHNICAL DATA

Size	Rated Torque Nm	kW Rating at 100 rpm	Maximum Speed rpm	Bore		Dimensions are in mm									Weight / Coupling kg approx. in kg	Moment of Inertia (WR^2) ($kg.m^2$)	End Float Max.
				Min. Bore	Max. Bore	ØA	ØD1	E	C1	C2	C3	B1	B2	B3			
UAG 102	1423	14.9	7100	14	46	116	60	43	3	5	6	89	91	92	4.2	0.006	1.2
UAG 152	2693	28.2	5400	20	57	152	76	49	3	8	13	101	106	111	7.7	0.020	1.5
UAG 202	4584	48.0	4800	27	78	178	102	62	3	14	25	127	138	149	15.0	0.044	2.0
UAG 252	7411	77.6	4250	27	90	213	117	77	5	12	19	159	166	173	25.4	0.105	2.3
UAG 302	12224	128	4000	39	110	240	143	91	5	23	42	187	205	224	36.7	0.188	3.0
UAG 352	18718	196	3600	39	127	279	165	106	6	27	48	218	239	260	60.8	0.436	3.5
UAG 402	29796	312	3290	55	145	318	191	121	6	32	57	248	274	299	90.7	0.822	4.0
UAG 452	41161	431	2920	55	165	346	216	135	8	37	65	278	307	335	122	1.305	4.5
UAG 502	55199	578	2630	55	185	389	241	153	8	50	92	314	356	398	178	2.550	5.3
UAG 552	81844	857	2320	55	205	425	267	175	8	53	98	358	403	448	235	3.780	6.0
UAG 602	104668	1096	2120	55	225	457	292	188	8	60	111	384	436	487	279	4.860	6.5
UAG 702	156620	1640	1830	55	260	527	343	221	9	71	133	451	513	575	443	10.350	7.8

- Catalogue torque ratings shown are nominal values at 1.50 degrees. For values at misalignments less than 1.50 degrees:- Multiply nominal catalogue values by factor in table left.
  e.g. UAG 602 at 1.50° = 104668 Nm at 0.75° = 104668 x 1.30 :- UAG 602 at 0.75° = 133068 Nm

MISALIGNMENT SPECIFICATIONS

Misalignment Angle Gear Half (Degrees)	Rating Factor
1.50	1.00
1.00	1.15
0.75	1.30
0.50	1.55
0.00	2.00

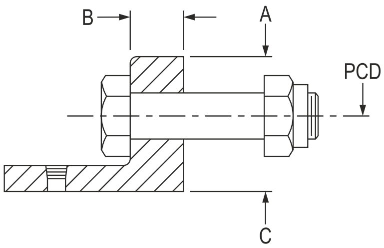


MATERIAL SPECIFICATIONS

Hub	All Size	Forged Steel EN9	St	C - 45
Sleeve	All Size	Forged Steel EN9	St	EN / DN - 10236
Rigid Hub	All Size	Forged Steel EN9	St	C - 45
O Ring	All Size	Synthetic Rubber	-	-
Gasket	All Size	Beta Flex	-	72 No
Hex Bolt & Nut	All Size	High Tensile	St	ISO 4014 : Gr 8.8

Atex Certified Coupling Available on request

- For temperature range of elastomers please see on page no. 47 - coupling selection



AGMA flange details - common diemensions

DIMENSIONS & TECHNICAL DATA

Size	No of bolts	Bolt size in inch	Dimensions are in mm			
			PCD	Outer dia (A)	Flange thickness (B)	Inner dia©
UAG 101 / 102	6	0.250"	95.25	116	14.3	70
UAG 151/ 152	8	0.375"	122.24	152	19	87
UAG 201/ 202	6	0.500"	149.23	178	19	113
UAG 251/ 252	6	0.625"	180.98	213	22.2	133
UAG 301/ 302	8	0.625"	206.38	240	22.2	159
UAG 351/ 352	8	0.750"	241.3	279	28.6	186
UAG 401/ 402	8	0.750"	279.4	318	28.6	211
UAG 451/ 452	10	0.750"	304.8	346	28.6	240
UAG 501/ 502	8	0.875"	342.9	389	38.1	265
UAG 551/ 552	14	0.875"	368.3	425	38.1	298
UAG 601/ 602	14	0.875"	400.05	457	25.4	327
UAG 701/ 702	16	1"	463.55	527	28.6	378

INTERCHANGEABILITY TO AGMA STANDARD

Manufacturer	Coupling range	AGMA standard	Coupling Sizes											
UTL	UAG	Yes	102	152	202	252	302	352	402	452	502	552	602	702
Renold	Gearflex DA	Yes	10	15	20	25	30	35	40	45	50	55	60	70
Flender	Zapex ZIN	Yes	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	7
Falk / Rexnord	Lifelign G20	Yes	1010G	1015G	1020G	1025G	1030G	1035G	1040G	1045G	1050G	1055G	1060G	1070G
Davind Brown	Series X G20	Yes	1010G	1015G	1020G	1025G	1030G	1035G	1040G	1045G	1050G	1055G	1060G	1070G
Bibby	FD AGMA	Yes	10	15	20	25	30	35	40	45	50	55	60	70
Kopflex	Series H	Yes	1	1½	2½	2½	3	3½	4	4½	5	5½	6	7
Maina	AGMA N	Yes	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	7
Maina	GO-A	Yes	0	1	2	3	4	5	6	7	8	9	10	11
Jaure	MT	No	52	62	78	98	112	132	156	174	190	210	233	275
Esco	FST	No	45	60	75	95	110	130	155	175	195	215	240	275
Lovejoy / Sier Bath	-	Yes	1	1½	2½	2½	3	3½	4	4½	5	5½	6	7
CMD	Senior	No	50	68	80	100	115	135	150	170	190	215	230	250
Renk	LBk	No	30 or 38	48	60	70 or 80	90	110	125	140	160	180 or 190	200	225

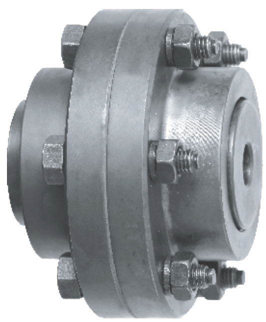
Atex Certified Coupling Available on request

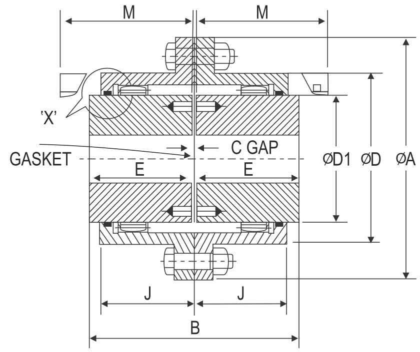
• For temperature range of elastomers please see on page no. 47 - coupling selection

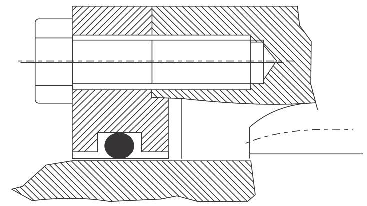
UTL
RELIABILITY IN ROTATION
UTL FLEXIBLE COUPLINGS

Utkarsh®
FLEXIBLE COUPLINGS
Revolutionizing Rotation

UTL UFG COUPLINGS
(Full Gear Couplings)







DETAIL 'X'
THIS COVER PLATE CONSTRUCTION FOR
SIZES UFG - 111 ONWARDS

FEATURES

- Less backlash
- Compact assembly
- Large bore capacities
- High power to weight ratio
- Accommodates angular, parallel and axial misalignments
- Generally used up to 120° C. Can be used for higher temperature by using proper grade of grease or oil
- Standard full flexible gear coupling type UFG accommodates angular & parallel misalignments or a combination of both as well as axial misalignment (end float)
  Ideal for all horizontal, close coupled applications including fans, overhead cranes, conveyors, steel & paper mill equipments. One or both the hubs can be easily reversed for more than normal shaft separation applications

DIMENSIONS & TECHNICAL DATA

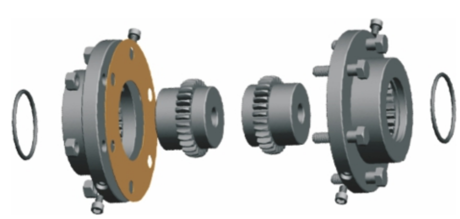
Size	Rated Torque Nm	kW Rating at 100 rpm	Maximum rpm	Bore		Dimensions are in mm								Solid Hub	
				PB	Max.	ØA	E	ØD1	ØD	M	C	J	B	Weight in kg approx	Moment of Inertia (WR^2) ($kg.m^2$)
100	497	5.2	7600	10	35	120	45	50	75	55	3	39.5	93	4.2	0.0075
101	1002	10.5	6300	20	50	170	55	65	110	65	5	49	115	11.00	0.035
102	2492	26.1	5000	30	60	185	70	85	125	80	5	62	145	15.00	0.05
103	4486	47	4000	40	75	220	85	105	150	105	5	78	175	25.00	0.12
104	8495	89	3350	50	90	250	105	130	175	125	5	96	215	39.00	0.238
105	12982	136	2800	60	110	290	110	155	200	140	10	106	230	57.00	0.488
106	19950	209	2500	75	125	320	125	175	230	155	10	117	260	85.00	0.75
107	34936	366	2100	90	140	350	140	205	260	175	10	134	290	103.00	1.313
108	44864	470	1900	105	160	380	155	230	290	190	10	147	320	138.00	2.125
109	55841	585	1700	125	180	430	165	250	330	205	10	156	340	210.00	3.75
110	81709	856	1400	140	220	490	180	310	390	220	10	171	370	277.00	7.625
111	109391	1146	1250	160	260	545	200	350	445	240	10	192	410	550.00	14.5
112	146236	1532	1120	180	300	590	240	400	490	280	10	231	490	710.00	22.0
113	198927	2084	1000	200	330	680	260	440	555	310	15	242	535	980.00	34.5
114	284455	2980	900	220	370	730	280	500	610	330	15	266	575	1320.00	72.75
115	345545	3620	800	250	410	780	320	540	660	370	15	305	655	1700.00	88.25
116	596591	6250	710	300	455	900	350	625	755	423	20	335	720	2550.00	172.0
117	848591	8890	630	375	520	1000	400	720	855	490	20	386	820	3620.00	309.0
118	1123500	11770	560	450	610	1100	450	810	950	533	20	430	920	4860.00	491.0
119	1481550	15521	500	520	710	1250	485	910	1050	558	30	446	1000	6380.00	753.0

- Spacer couplings also available on specific request

MATERIAL SPECIFICATIONS

Hub	All Size	Forged Steel EN9	St	C - 45
Sleeve	Size - 100-106	EN9	St	EN / DN - 10236
Sleeve	Size - 107-119	Cast Steel	St	-
O Ring	All Size	Synthetic Rubber	-	-
Gasket	All Size	Beta Flex	-	72 No
Hex Bolt	All Size	High Tensile	St	ISO 4014 : Gr 8.8

Atex Certified Coupling Available on request

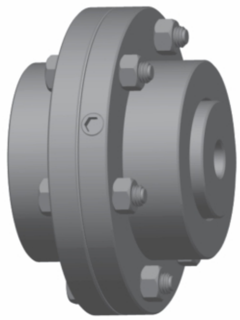


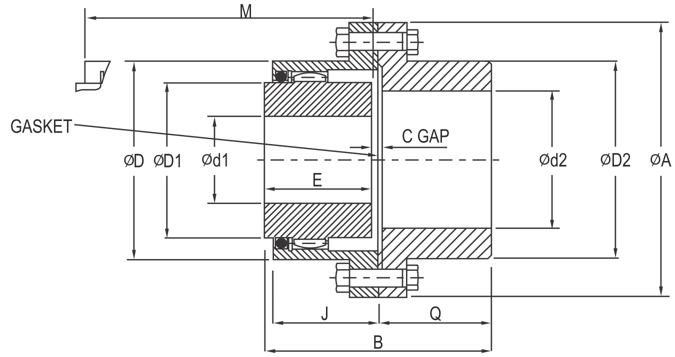
- For temperature range of elastomers please see on page no. 47 - coupling selection

UTL RELIABILITY IN ROTATION
UTL FLEXIBLE COUPLINGS

Utkarsh®
FLEXIBLE COUPLINGS
Revolutionizing Rotation

UTL UHG COUPLINGS
(Half Gear Couplings)





FEATURES

- Less backlash
- Compact assembly
- Large bore capacities
- High power to weight ratio
- Accommodates angular, parallel and axial misalignments
- Generally used up to 120° C. Can be used for higher temperature by using proper grade of grease or oil
- Standard half flexible gear coupling type UHG cannot accommodates parallel misalignment.
- Used primarily with floating shaft assemblies. Extensively used for cross traverse and long travel line shaft drives

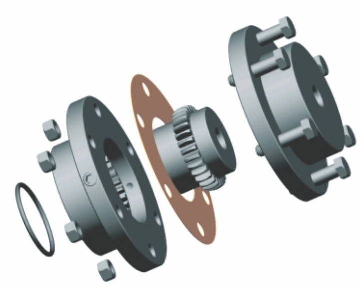
DIMENSIONS & TECHNICAL DATA

Size	Rated Torque Nm	kW Rating at 100 rpm	Maximum rpm	Bore			Dimensions are in mm										Solid Hub	
				PB	Max.													
					Ød1	Ød2	ØA	E	ØD1	ØD	M	C	J	B	Q	ØD2	Weight in kg	Moment of Inertia (WR^2) $(kg.m^2)$
100	497	5.2	7600	10	35	45	120	45	50	75	55	3	39.5	93	46.5	65	4.2	0.0075
101	1002	10.5	6300	20	50	60	170	55	65	110	65	5	49	115	57.5	85	11.00	0.0375
102	2492	26.1	5000	30	60	75	185	70	85	125	80	5	62	145	72.5	110	15.00	0.06
103	4486	47	4000	40	75	90	220	85	105	150	105	5	78	175	87.5	130	20.00	0.1275
104	8495	89	3350	50	90	110	250	105	130	175	125	5	96	215	107.5	160	40.00	0.25
105	12982	136	2800	60	110	130	290	110	155	200	140	10	106	230	115	185	60.00	0.5
106	19950	209	2500	75	125	150	320	125	175	230	155	10	117	260	130	215	80.00	0.825
107	34936	366	2100	90	140	170	350	140	205	260	175	10	134	290	145	240	106.00	1.45
108	44864	470	1900	105	160	200	380	155	230	290	190	10	147	320	160	285	149.00	2.375
109	55841	585	1700	125	180	220	430	165	250	330	205	10	156	340	170	315	170.00	4.2
110	81709	856	1400	140	220	260	490	180	310	390	220	10	171	370	185	370	264.00	8.75

- Spacer couplings also available on specific request

MATERIAL SPECIFICATIONS

Hub	All Size	Forged Steel EN9	St	C - 45
Sleeve	Size - 100-106	EN9	St	BS970
Sleeve	Size - 107-110	Cast Steel	St	-
O Ring	All Size	Synthetic Rubber	-	-
Gasket	All Size	Beta Flex	-	72 No
Hex Bolt	All Size	High Tensile	St	ISO 4014 : Gr 8.8



Atex Certified Coupling Available on request

- For temperature range of elastomers please see on page no. 47 - coupling selection

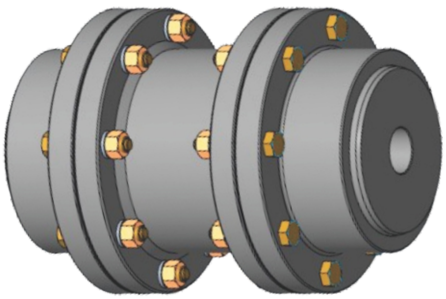
UTL FLEXIBLE COUPLINGS

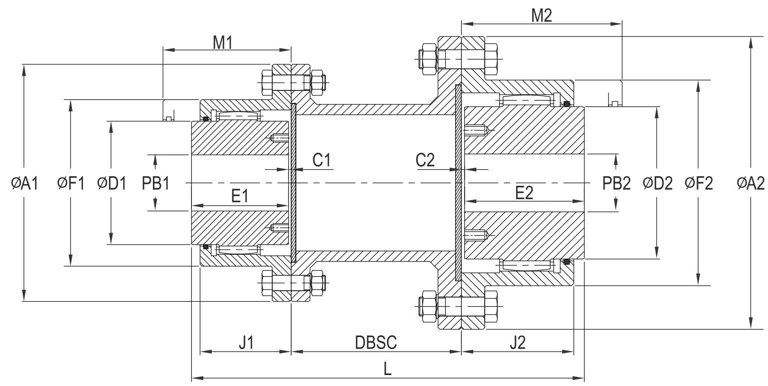
Utkarsh®

FLEXIBLE COUPLINGS

Revolutionizing Rotation

UTL UFGS COUPLINGS
(Full Gear Spacer Couplings)





FEATURES
- Less backlash
- Compact assembly
- Large bore capacities

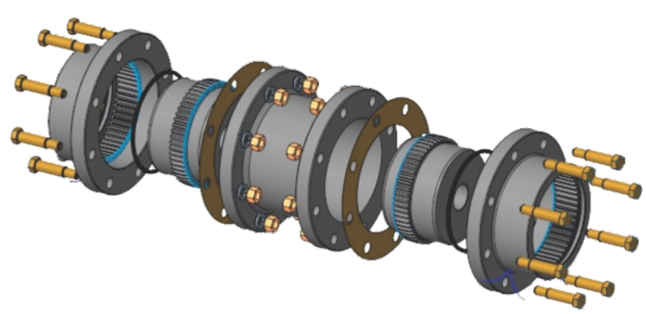
DIMENSIONS & TECHNICAL DATA

Coupling Size UFG	kW Rating at 100 rpm	Rated Torque Nm	Dimensions are in mm																			
			PB		Max Bore		ØA1	ØA2	E1	E2	ØD1	ØD2	ØF1	ØF2	J1	J2	M1	M2	C1	C2	DBSC	L
			1	2	1	2																
101-101	12	1127	20	20	50	50	170	170	55	55	65	65	110	110	49	49	65	65	2.5	2.5	140 180 210 280	255
101-102				30		60		185		70		85		125		62		80		2.5		270
101-103				40		75		220		85		105		150		78		105		2.5		285
101-104				50		90		250		105		130		175		96		125		2.5		305
101-105				60		110		290		110		155		200		106		140		5		312.5
102-102	29	2804	30	30	60	60	185	185	70	70	85	85	125	125	62	62	80	80	2.5	2.5		285
102-103				40		75		220		85		105		150		78		105		2.5		300
102-104				50		90		250		105		130		175		96		125		2.5		320
102-105				60		110		290		110		155		200		106		140		5		327.5
103-103	53	5047	40	40	75	75	220	220	85	85	105	105	150	150	78	78	105	105	2.5	2.5		315
103-104				50		90		250		105		130		175		96		125		2.5		335
103-105				60		110		290		110		155		200		106		140		5		342.5
104-104	100	9557	50	50	90	90	225	250	105	105	130	130	175	175	96	96	125	125	2.5	2.5		355
104-105				60		110		290		110		155		200		106		140		5		362.5
105-105	153	14605	60	60	110	110	290	290	110	110	155	155	200	200	106	106	140	140	5	5		370

- WT & GD2 VALUES WILL BE PROVIDED ON REQUEST FOR VARYING SPACER LENGTH
- TOTAL LENGTH `L' IS BASED ON DBSE=140 mm.

MATERIAL SPECIFICATIONS

Hub	All Size	Forged Steel EN9	St	C - 45
O Ring	All Size	Nitrile Rubber	-	-
Sleeve	All Size	Forged Steel EN9	St	C - 45
Hex Head Bolt	All Size	High Tensile	-	ISO 4014 : Gr 8.8
Gasket	All Size	Non-Asbestos Paper	-	-
Hex Head Nut	All Size	High Tensile	St	ISO 4014 : Gr 8.8
Spring Washer	All Size	Standard	-	-
Spacer	All Size	Carbon Steel	-	-
Spacer Plate	All Size	Carbon Steel	-	-



Atex Certified Coupling Available on request

- For temperature range of elastomers please see on page no. 47 - coupling selection

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

APPLICATION	NATURE LOAD			APPLICATION	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 UTL
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 speed 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.

UTL FLEXIBLE COUPLINGS

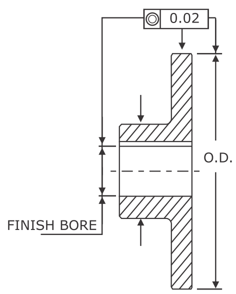
COUPLING INSTALLATION

Utkarsh®
FLEXIBLE COUPLINGS
Revolutionizing Rotation

Why a Flexible Coupling ?

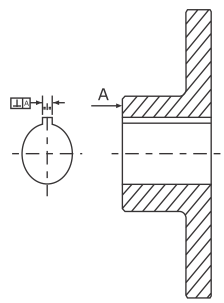
A flexible coupling connects two shafts, end-to-end in the same line, for two main purposes. The first is to transmit power (torque) from one shaft to the other, causing both to rotate in unison, at the same speed. The second is to compensate for minor amount of misalignment and random movement between 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



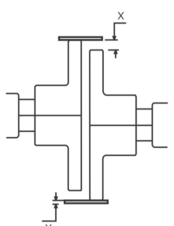
- The key-way must be in between the two adjacent holes or jaws of coupling
- Key-way to js9 tolerances

ALIGNMENT PROCEDURE

- During alignment, hold a straight edge on both the hubs & see that there is no gap. Check the gap at least at three different positions
- The gap between hubs 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

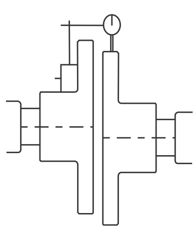
PARALLEL MISALIGNMENT

USING STRIGHT EDGE



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

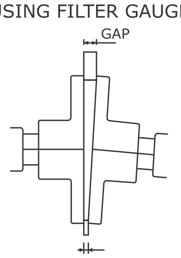
USING DIAL GAUGE



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

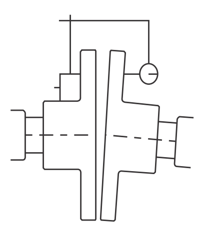
ANGULAR MISALIGNMENT

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

UTKARSH TRANSMISSIONS PVT. LTD.
L-51, Additional M.I.D.C., Satara - 415 004. India
Tel.: + 91 2162 - 240574, 240974
Email : sales@utlcoupling.com

ISSUE-04-FEBRUARY-2025

Utkarsh®

FLEXIBLE COUPLINGS

Revolutionizing Rotation

UTKARSH TRANSMISSIONS PVT. LTD.

L- 51, Additional M.I.D.C., Satara - 415 004. India

Tel.: +91 2162 - 240574, 240974

Email : sales@utlcoupling.com

www.utlcoupling.com