

Couplings



Brammer Workshop Services



Custom CNC Machined Seals and Components

Brammer's seal production service provides the ultimate solution for Designers and Maintenance Engineers requiring one off seals for development projects or breakdowns where a replacement seal is needed in a hurry.

The service is the result of Brammer's partnership with SKF Economos, Europe's largest producer of CNC machined specialist seals and ancillary products.

- Machined to order
- Available from 5mm to 4,000mm diameter
- No tooling costs
- A variety of class leading materials including:
 - Polyurethane
 - Nitrile
 - Viton
 - EPDM
 - PTFE
 - Polyacetal
 - Plus many other materials

Water Jet Cutting

Flat seals and gaskets manufactured on site at the National Distribution Centre (NDC). This process gives an excellent finished part and also means that complex gasket arrangements can be manufactured without the need for tooling.

Machine Engineering Plastics

We manufacture a full range of engineering plastics components with materials available up to 500°C.

Workshop services also include:

- Transmission chain & leaf chain cutting
- Synchronous belts cut to order
- Self-lube make-ups
- Hydraulic hose assemblies
- Polyurethane extruded belt made to customer specification
- Linear shaft & rail cutting

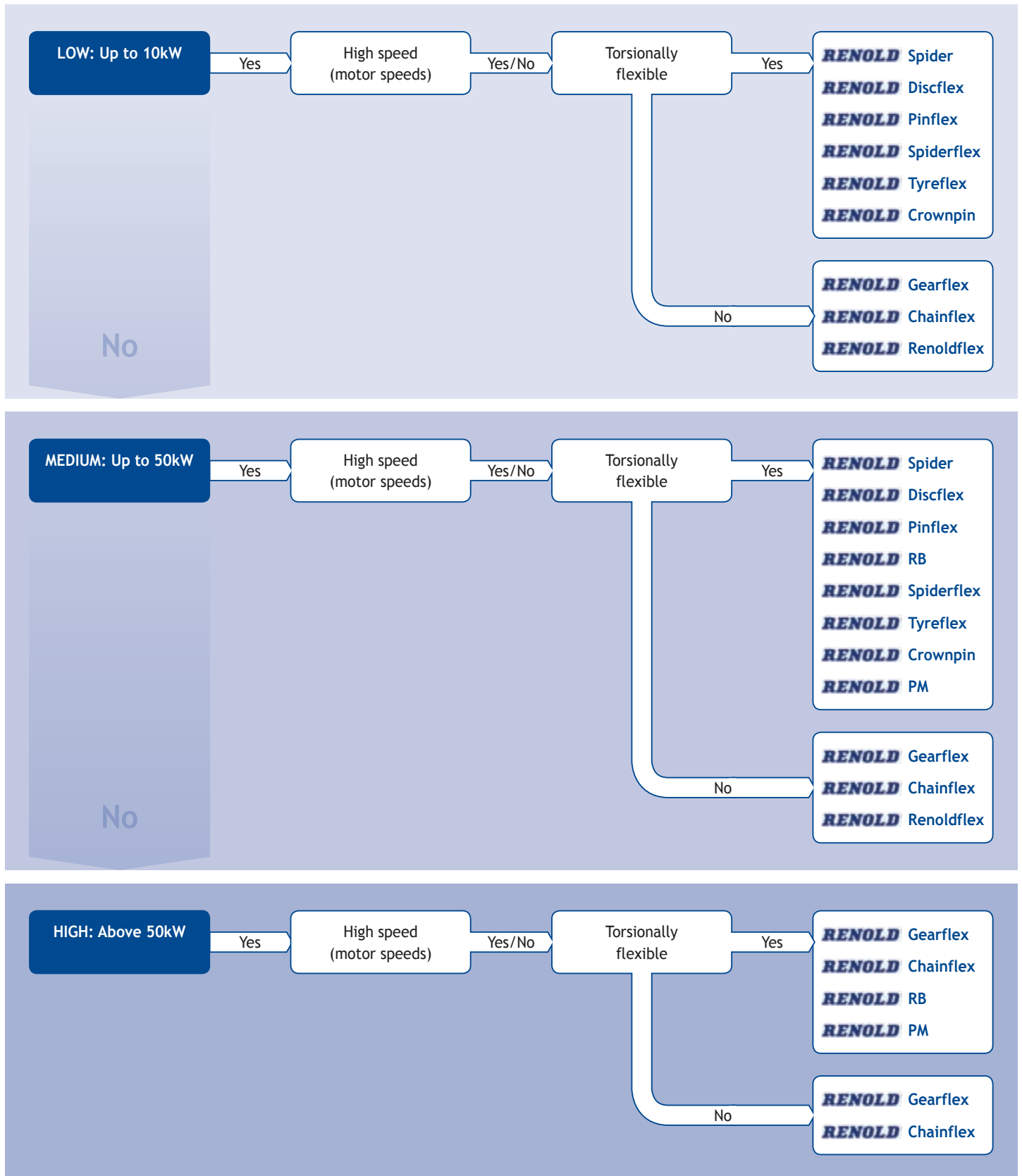


For more information, contact your local Brammer Sales & Service Centre on 0870 240 2100

BRAMMER 

Coupling Selection Guide

DRIVE POWER



For more information on Renold Couplings please contact your local sales & service centre on 0870 240 2100

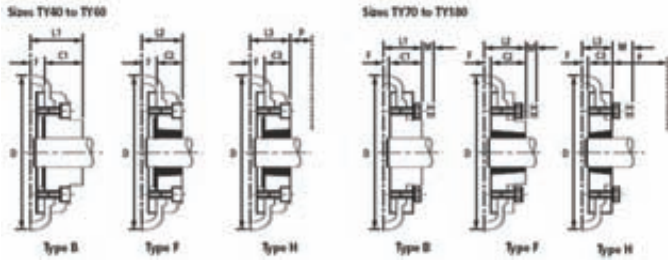
RENOLD

Superior Gear and Coupling Technology

www.renold.com

Renold Couplings

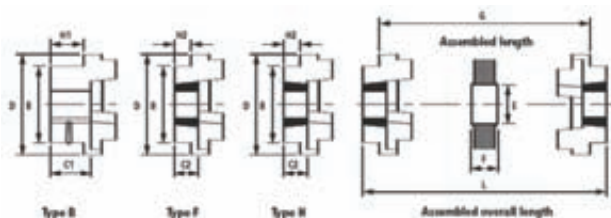
Renold Tyreflex Couplings



- High misalignment capabilities - high flexibility
- Shock absorbing - extended machine life
- Maintenance free - minimum number of wearing parts
- Standard fire retardant, anti-static elements up to size TY100 for use in flame proof environments
- Interchangeable means no re-engineering
- Pump spacer option for easy pump maintenance
- Taper bush bores available for ease of replacement
- ATEX approved

Coupling Ref/Size	Nominal Torque Nm	Max Speed rpm	Type B Max Bore	Type F Max Bore	Type F Taper Bush	Type H Max Bore	Type H Taper Bush
TY40 / 7131104	25	4500	30mm	25mm	TB1008	25mm	TB1008
TY50 / 7131105	66	4500	38mm	32mm	TB1210	32mm	TB1210
TY60 / 7131106	127	4000	45mm	42mm	TB1610	42mm	TB1610
TY70 / 7132107	250	3600	50mm	50mm	TB2012	42mm	TB1610
TY80 / 7132108	375	3100	60mm	60mm	TB2517	50mm	TB2012
TY90 / 7132109	500	3000	70mm	60mm	TB2517	60mm	TB2517
TY100 / 7132110	675	2600	80mm	75mm	TB3020	60mm	TB2517
TY110 / 7132111	875	2300	95mm	75mm	TB3020	75mm	TB3020
TY120 / 7132112	1300	2050	110mm	100mm	TB3525	75mm	TB3020
TY140 / 7132114	2320	1800	130mm	100mm	TB3525	100mm	TB3525
TY160 / 7132116	3770	1600	140mm	115mm	TB4030	115mm	TB4030
TY180 / 7132118	6270	1500	150mm	125mm	TB4535	125mm	TB4535

Renold Spiderflex Couplings

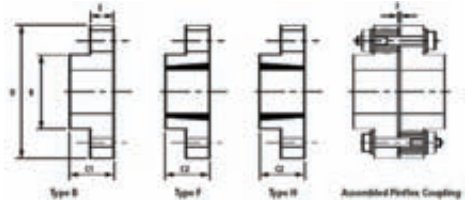


Superior Coupling and Gear Technology

- Torsionally flexible - shock absorbing, extending machine life
- Maintenance free - minimum number of wearing parts
- Misalignment capabilities allowing flexibility in installation
- Cost effective - offering a low cost product with high quality design
- Dimensionally similar to other spider couplings - interchangeable
- Optional fire retardant anti-static elements for use in flameproof environments
- Taper bush bores available for ease of maintenance
- Compact design - small, with high torque capacity
- ATEX approved

Coupling Ref/Size	Power/ 100rpm Kw	Max Speed rpm	Nominal Torque Nm	Type B Max bore	Type F & H Max Bore	Taper Bush
RSC70 / 644907	0.33	7700	32	32mm	25mm	TB1008
RSC90 / 644909	0.84	6300	80	42mm	28mm	TB1108
RSC110 / 644911	1.68	5000	160	55mm	42mm	TB1610
RSC130 / 644913	3.3	4100	315	60mm	42mm	TB1610
RSC150 / 644915	6.28	3600	600	70mm	50mm	TB2012
RSC180 / 644918	9.95	3000	950	80mm	65mm	TB2517
RSC230 / 644923	21	2600	2000	100mm	75mm	TB3020
RSC280 / 644928	33	2200	3150	115mm	90mm	TB3525

Renold Pinflex Couplings



- Steel half bodies, strong yet compact
- Heavy duty pin and buffer couplings - for heavy shock load conditions and maintenance free
- Torsionally flexible - shock absorbing, extending machine life
- Maintenance free - minimum number of wearing parts
- Misalignment capabilities allowing flexibility in installation
- Polyurethane buffers, reliable/flexible temperature resistant
- Modular construction - available as coupling, break drum and shear pin designs
- Taper bush bores available for ease of maintenance
- ATEX approved

Ordering Details

- When ordering you need to specify which hub type you require for both hubs
- PF1##3 the # represents hub types B F or H
- Example PF1BH3/8001042/3
- Please remember to order appropriate taper bush when selecting hubs type F & H

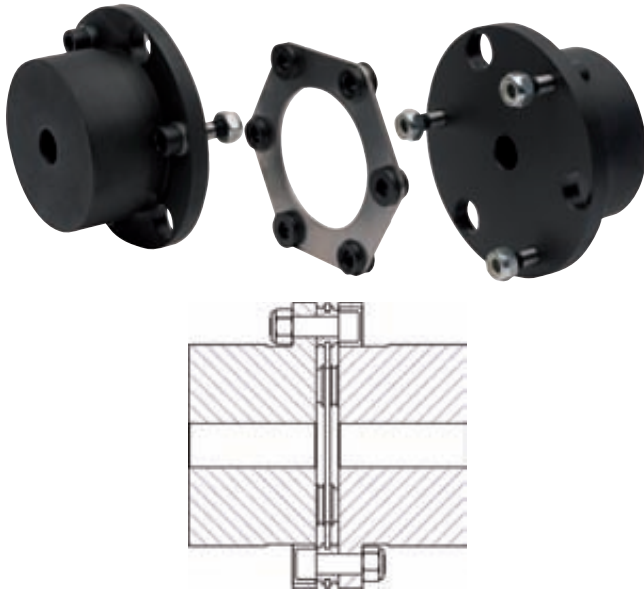
Coupling Ref/Size	Power/ 100rpm Kw	Max Speed rpm	Nominal Torque Nm	Type B Max Bore	Type F & H Max Bore	Taper Bush
PF1##3 / 8001042/3	2.03	6800	194	50mm	32mm	TB1215
PF1##6 / 8001042/6	4.05	6800	387	50mm	32mm	TB1215
PF1BB9 / 8001042/9	6.08	6800	581	50mm	32mm	TB1215
PF1BB12 / 8001042/12	8.10	6800	774	50mm	32mm	TB1215
PF2##3 / 8002050/3	3.59	5900	343	55mm	42mm	TB1615
PF2##6 / 8002050/6	7.18	5900	685	55mm	42mm	TB1615
PF2BB9 / 8002050/9	10.76	5900	1028	55mm	42mm	TB1615
PF2BB12 / 8002050/12	14.35	5900	1370	55mm	42mm	TB1615
PF3##3 / 8003060/3	4.24	5200	405	72mm	50mm	TB2017
PF3##6 / 8003060/6	8.48	5200	810	72mm	50mm	TB2017
PF3BB9 / 8003060/9	12.71	5200	1214	72mm	50mm	TB2017
PF3BB12 / 8003060/12	16.96	5200	1620	72mm	50mm	TB2017



Coupling Ref/Size	Power/ 100rpm Kw	Max Speed rpm	Nominal Torque Nm	Type B Max Bore	Type F & H Max Bore	Taper Bush
PF4##3 / 8004075/3	8.32	4400	795	80mm	60mm	TB2525
PF4##6 / 8004075/6	16.65	4400	1590	80mm	60mm	TB2525
PF4BB9 / 8004075/9	24.97	4400	2384	80mm	60mm	TB2525
PF4BB12 / 8004075/12	33.29	4400	3179	80mm	60mm	TB2525
PF5##4 / 8005090/4	13.94	3600	1331	110mm	75mm	TB3030
PF5##8 / 8005090/8	27.88	3600	2662	110mm	75mm	TB3030
PF5##12 / 8005090/12	41.82	3600	3994	110mm	75mm	TB3030
PF5BB16 / 8005090/16	55.76	3600	5325	110mm	75mm	TB3030
PF6##3 / 8006110/3	24.70	2900	2359	130mm	90mm	TB3535
PF6##6 / 8006110/6	49.40	2900	4717	130mm	90mm	TB3535
PF6##9 / 8006110/9	74.10	2900	7076	130mm	90mm	TB3535
PF6BB12 / 8006110/12	98.80	2900	9435	130mm	90mm	TB3535
PF7##4 / 8007130/4	37.18	2600	3550	150mm	100mm	TB4040
PF7##8 / 8007130/8	74.35	2600	7100	150mm	100mm	TB4040
PF7##12 / 8007130/12	111.53	2600	10650	150mm	100mm	TB4040
PF7BB16 / 8007130/16	148.70	2600	14200	150mm	100mm	TB4040
PF8##4 / 8008150/4	64.70	2200	6179	175mm	125mm	TB5050
PF8##8 / 8008150/8	129.40	2200	12357	175mm	125mm	TB5050
PF8##12 / 8008150/12	194.10	2200	18536	175mm	125mm	TB5050
PF8BB16 / 8008150/16	258.80	2200	24714	175mm	125mm	TB5050
PF9BB4 / 8009240/4	85.00	1700	8130	260mm	N/A	N/A
PF9BB8 / 8009240/8	170.00	1700	16255	260mm	N/A	N/A
PF9BB12 / 8009240/12	255.00	1700	24385	260mm	N/A	N/A
PF9BB16 / 8009240/16	340.00	1700	32500	260mm	N/A	N/A

Renold Rigid Couplings

Renoldflex Torsionally Rigid Couplings



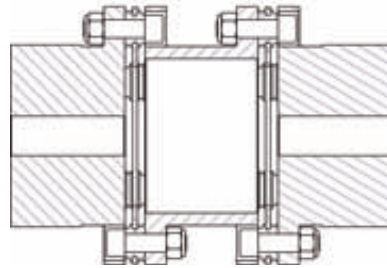
RENOLD
Superior Coupling and Gear Technology

- All steel construction
- Backlash free
- Maintenance free - Minimum number of wearing parts
- Misalignment capabilities allowing flexibility in installation
- Stainless steel flexible elements
- Modular construction - available with spacer
- Taper bores available for ease of maintenance
- Torsionally stiff
- ATEX approved

Coupling Ref / Size	Max Speed RPM	Nominal Torque Nm	Max Bore	Outer Dia
Type A				
RF53 / 500053	10000	75	22mm	53mm
RF70 / 500070	8400	170	35mm	70.5mm
RF88 / 500088	6800	320	45mm	88.3mm

Coupling Ref / Size	Max Speed RPM	Nominal Torque Nm	Max Bore	Outer Dia
Type A				
RF116 / 500116	5400	750	60mm	116.5mm
RF140 / 500140	4600	1350	75mm	140.5mm
RF166 / 500166	3800	2400	90mm	166.5mm
RF198 / 500198	3400	4000	100mm	198.5mm
RF238 / 500238	3000	6500	120mm	238mm

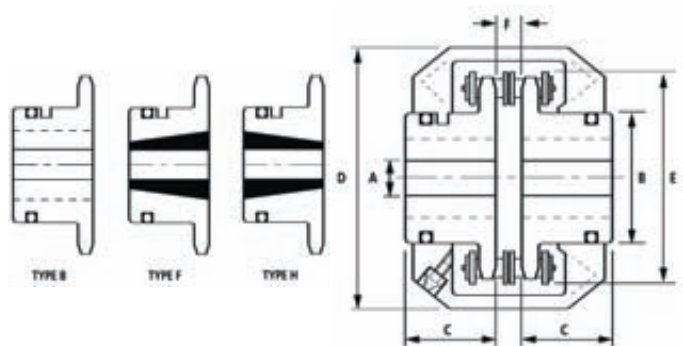
Renoldflex With Spacer



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Coupling Ref / Size	Max Speed RPM	Nominal Torque Nm	Max Bore	Outer Dia	Min Spacer Length
Type B (With Spacer)					
RF53 / 501053	10000	75	22mm	53mm	30mm
RF70 / 501070	8400	170	35mm	70.5mm	31.2mm
RF88 / 501088	6800	320	45mm	88.3mm	37.6mm
RF116 / 501116	5400	750	60mm	116.5mm	46.3mm
RF140 / 501140	4600	1350	75mm	140.5mm	55mm
RF166 / 501166	3800	2400	90mm	166.5mm	62.6mm
RF198 / 501198	3400	4000	100mm	198.5mm	71.8mm
RF238 / 501238	3000	6500	120mm	238mm	140mm

Renold Chainflex



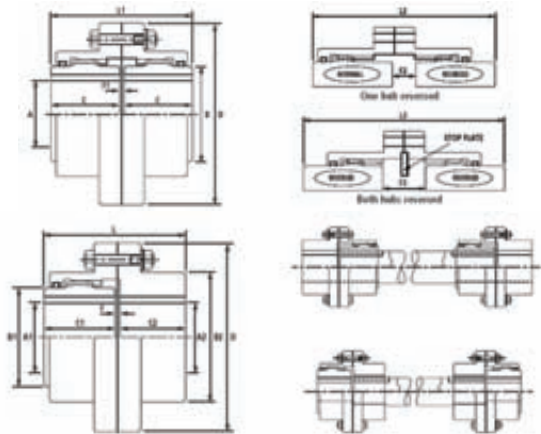
RENOLD
Superior Coupling and Gear Technology

- Torsionally stiff for use as a positive drive connection
- Easy installation for ease of maintenance
- Misalignment capabilities allowing flexibility in installation
- Hardened teeth giving long life with high torque capacity
- All metal coupling for use in hostile environments
- Taper bush bores available for ease of maintenance

Coupling ref/size	Power/ 100rpm Kw	Max Speed rpm	Nominal Torque Nm	Type B Max Bore	Type F & H Max Bore	Taper Bush
642602	0.55	3500	52.5	25mm		
642603	1	3000	95.5	30mm		
642604	2.25	2250	215	40mm	28mm	TB1108
642606	7.5	1500	716	60mm	42mm	TB1615
642608	17.5	1200	1671	80mm	60mm	TB2525
642610	33.5	960	3200	100mm		
642612	60	750	5730	130mm		
642614	90	700	8595	140mm		

Renold Gear Couplings

Renold Gearflex Couplings



RENOLD
Superior Coupling and Gear Technology

- Heavy duty gear coupling for strength in application, combined with long life - strength and long life
- AGMA standard - interchangeable and cost effective
- Single and double engagement types available, suiting all applicational requirements
- Crowned and barrelled teeth for optimum contact and long life
- Mill motor, shear pin and telescopic designs to give design stability for demanding applications

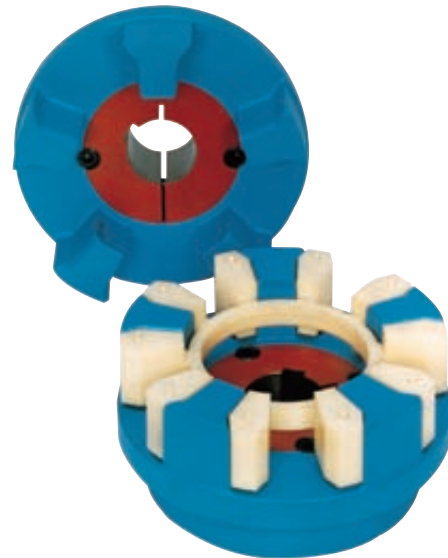
Coupling ref/Size	Nominal Torque Nm	Max Speed rpm	Max Bore Flexible Half	Max Bore Rigid Half	OD (mm)	Overall Length
GF10SA / 6908108	1423	7100	46mm	58mm	116mm	87mm
GF15SA / 6908158	2693	5400	57mm	75mm	152mm	100mm
GF20SA / 6908208	4584	4800	78mm	95mm	178mm	125mm
GF25SA / 6908258	7411	4250	90mm	110mm	213mm	156mm
GF30SA / 6908308	12224	4000	110mm	130mm	240mm	185mm
GF35SA / 6908358	18718	3600	127mm	155mm	279mm	216mm
GF40SA / 6908408	29796	3290	145mm	180mm	318mm	244mm
GF45SA / 6908458	41161	2920	165mm	200mm	346mm	274mm
GF50SA / 6908508	55199	2630	185mm	225mm	389mm	310mm
GF55SA / 6908558	81844	2320	205mm	250mm	425mm	348mm
GF60SA / 6908608	104668	2120	225mm	265mm	457mm	380mm
GF70SA / 6908708	156620	1830	260mm	310mm	527mm	454mm

Coupling ref/Size	Nominal Torque Nm	Max Speed rpm	Max Bore Flexible Half	Max Bore Rigid Half	OD (mm)	Overall Length
GF10DA / 6901108	1423	7100	46mm	46mm	89mm	89mm
GF15DA / 6901158	2693	5400	57mm	57mm	102mm	102mm
GF20DA / 6901208	4584	4800	78mm	78mm	127mm	127mm

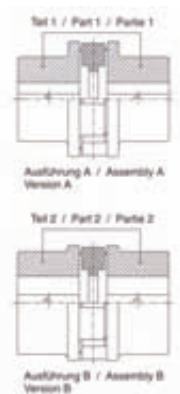
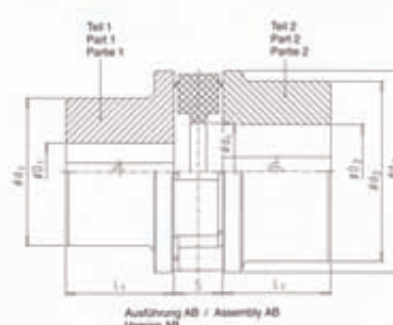
Coupling ref/Size	Nominal Torque Nm	Max Speed rpm	Max Bore Flexible Half	Max Bore Rigid Half	OD (mm)	Overall Length
GF25DA / 6901258	7411	4250	90mm	90mm	156mm	156mm
GF30DA / 6901308	12224	4000	110mm	110mm	185mm	185mm
GF35DA / 6901358	18718	3600	127mm	127mm	216mm	216mm
GF40DA / 6901408	29796	3290	145mm	145mm	244mm	244mm
GF45DA / 6901458	41161	2920	165mm	165mm	274mm	274mm
GF50DA / 6901508	55199	2630	185mm	185mm	310mm	310mm
GF55DA / 6901558	81844	2320	205mm	205mm	348mm	348mm
GF60DA / 6901608	104668	2120	225mm	225mm	380mm	380mm
GF70DA / 6901708	156620	1830	260mm	260mm	451mm	451mm

Siemens Couplings

Siemens BIPEX Couplings



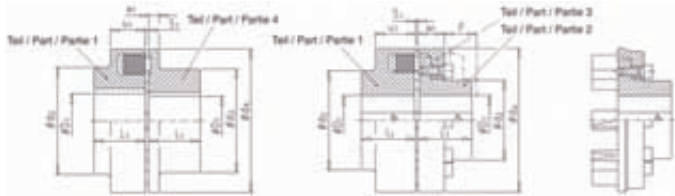
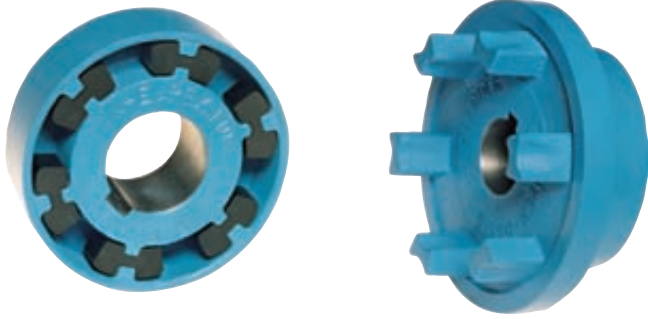
Mount / Type BWN



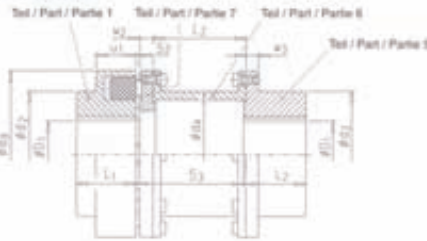
SIEMENS

- Flexible failsafe universal coupling
- Misalignment capabilities allowing unavoidable shaft misalignment
- Ideal for applications with constant transmission of power is required
- Maximum operational reliability and require practically no maintenance

Part Number	Nominal Torque Nm	Max Bore mm	da mm	l1 mm	S1 mm
43	0.0014	25	43	22	12
53	0.0025	30	53	25	14
62	0.0044	35	62	30	16
72	0.0078	42	72	35	18
84	0.0136	48	84	40	21
97	0.0230	50	97	50	24
112	0.0376	60	112	60	27
127	0.0575	65	127	65	27
142	0.0837	75	142	75	31
162	0.1308	80	162	80	36
182	0.1831	90	182	90	42
202	0.2773	100	202	100	48
227	0.3874	110	227	110	54



H mit Zwischenhülse / with intermediate sleeve / avec entreeuse



S₁ = Wellenabstand
= Space between shafts
= Ecartement des arbres

L₂ = Länge der Zwischenhülse
= Length of intermediate sleeve
= Longueur de l'entreeuse

SIEMENS

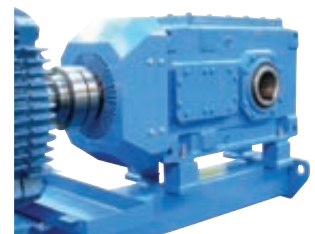
- Failsafe
- Provides torsional, angular, transverse and axial flexibility
- Suitable for both directions of rotation and for reversing operation
- Suitable for use in explosive protected areas (ATEX approved)

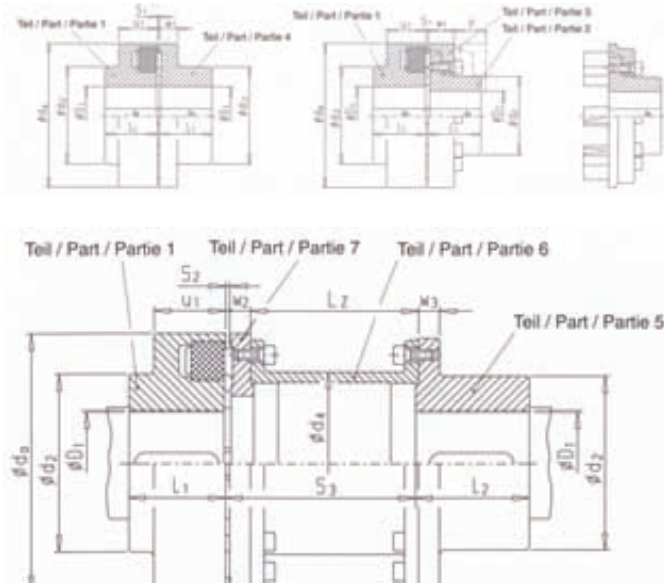
Product Code	Nominal Torque	Max Bore mm	da mm	l1 mm	S1 mm
B58	0.002	19	58	20	2...4
B68	0.0036	24	68	20	2...4
B80	0.0063	30	80	30	2...4
B95	0.011	42	95	35	2...4
B110	0.017	48	110	40	2...4
B125	0.025	55	125	50	2...4
B140	0.038	60	140	55	2...4
B160	0.059	65	160	60	2...6
B180	0.093	75	180	70	2...6
B200	0.14	85	200	80	2...6
B225	0.21	90	225	90	2...6
N250	0.29	100	250	100	3...8
B280	0.41	110	280	110	3...8
A110	0.017	48	110	40	2...4
A125	0.025	55	125	50	2...4
A140	0.038	60	140	55	2...4
A160	0.059	65	160	60	2...6
A180	0.092	75	180	70	2...6
A200	0.14	85	200	80	2...6
A225	0.21	90	225	90	2...6
A250	0.29	100	250	100	3...8
A280	0.41	110	280	110	3...8
A315	0.58	100	315	125	3...8
A315	0.58	120	315	125	3...8
A350	0.81	110	350	140	3...8
A350	0.81	140	350	140	3...8
A400	1.1	120	400	160	3...8
A400	1.1	150	400	160	3...8
A440	1.4	130	440	180	5...10
A440	1.4	160	440	180	5...10

Product Code	Nominal Torque	Max Bore mm	da mm	l1 mm	S1 mm
A480	1.7	145	480	190	5...10
A480	1.7	180	480	190	5...10
A520	2.2	150	520	210	5...10
A520	2.2	190	520	210	5...10
A560	3	200	560	220	6...12
A610	4	220	610	240	6...12
A660	5.1	240	660	260	6...12
A710	6.5	260	710	290	6...12

Product Code	Nominal Torque	Max Bore Part 5 mm	da	Lz mm	S3 mm
H80	0.0063	30	80	87	100
H80	0.0063	30	80	127	140
H95	0.011	42	95	87	100
H95	0.011	42	95	127	140
H110	0.017	48	110	85	100
H110	0.017	48	110	125	140
H110	0.017	48	110	165	180
H125	0.025	55	125	85	100
H125	0.025	55	125	125	140
H125	0.025	55	125	165	180
H125	0.025	55	125	185	200
H125	0.025	55	125	235	250
H140	0.038	60	140	82	100
H140	0.038	60	140	122	140
H140	0.038	60	140	162	180
H140	0.038	60	140	182	200
H140	0.038	60	140	232	250
H160	0.059	65	160	81.5	100
H160	0.059	65	160	121.5	140
H160	0.059	65	160	161.5	180
H160	0.059	65	160	181.5	200
H160	0.059	65	160	231.5	250
H180	0.092	75	180	118.5	140
H180	0.092	75	180	158.5	180
H180	0.092	75	180	178.5	200
H180	0.092	75	180	228.5	250
H200	0.14	85	200	118.5	140
H200	0.14	85	200	158.5	180
H200	0.14	85	200	178.5	200
H200	0.14	85	200	228.5	250
H225	0.21	90	225	118.5	140
H225	0.21	90	225	158.5	180
H225	0.21	90	225	178.5	200
H225	0.21	90	225	228.5	250
H250	0.29	100	250	152.5	180
H250	0.29	100	250	172.5	200
H250	0.29	100	250	222.5	250

Check out our Flender Range of Gearboxes





SIEMENS

- Non failsafe allowing positive disconnection on both sides upon failure of the flexible element
- Provides torsional, angular, transverse and axial flexibility
- Suitable for both directions of rotation and for reversing operation
- Suitable for use in explosive protected areas (ATEX approved)

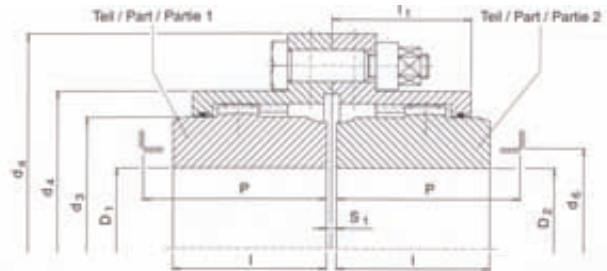
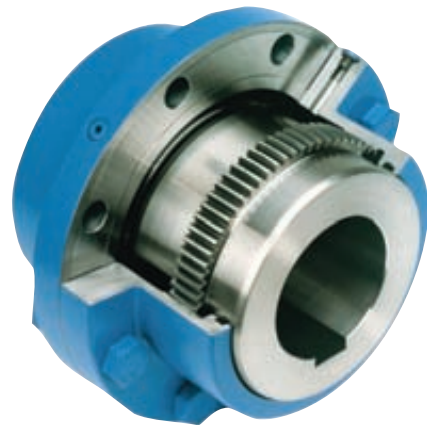
Product Code	Nominal Torque	Max Bore mm	da mm	l1 mm	S1 mm
BDS66	0.002	19	66	20	2...4
BDS76	0.0036	24	76	20	2...4
BDS88	0.0063	30	88	30	2...4
BDS103	0.011	42	103	35	2...4
BDS118	0.017	48	118	40	2...4
BDS135	0.025	55	135	50	2...4
BDS152	0.038	60	152	55	2...4
BDS172	0.059	65	172	60	2...6
BDS194	0.092	75	194	70	2...6
BDS218	0.14	85	218	80	2...6
BDS245	0.21	90	245	90	2...6
BDS272	0.29	100	272	100	3...8
BDS305	0.41	110	305	110	3...8
ADS118	0.017	48	118	40	2...4
ADS135	0.025	55	135	50	2...4
ADS152	0.038	60	152	55	2...4
ADS172	0.059	65	172	60	2...6
ADS194	0.092	75	194	70	2...6
ADS218	0.14	85	218	80	2...6
ADS245	0.21	90	245	90	2...6
ADS272	0.29	100	272	100	3...8
ADS305	0.41	110	305	110	3...8

Product Code	Nominal Torque	Max Bore mm	da mm	l1 mm	S1 mm
ADS340	0.58	120	340	125	3...8
ADS380	0.81	140	380	140	3...8
ADS430	1.1	150	430	160	3...8
ADS472	1.4	160	472	180	5...10
ADS514	1.7	180	514	190	5...10
ADS556	2.2	190	556	210	5...10

Product Code	Nominal Torque	Max Bore mm	da mm	l1 mm	S1 mm
HDS88	0.0063	30	88	30	5
HDS103	0.011	42	103	35	5
HDS118	0.017	48	118	49	5
HDS135	0.025	55	135	50	5
HDS152	0.038	60	152	55	5
HDS172	0.059	65	172	60	6
HDS194	0.092	75	194	70	6
HDS218	0.14	85	218	80	6
HDS245	0.21	90	245	90	6
HDS272	0.29	100	272	100	8

Siemens Gear Couplings

Siemens ZAPEX Couplings



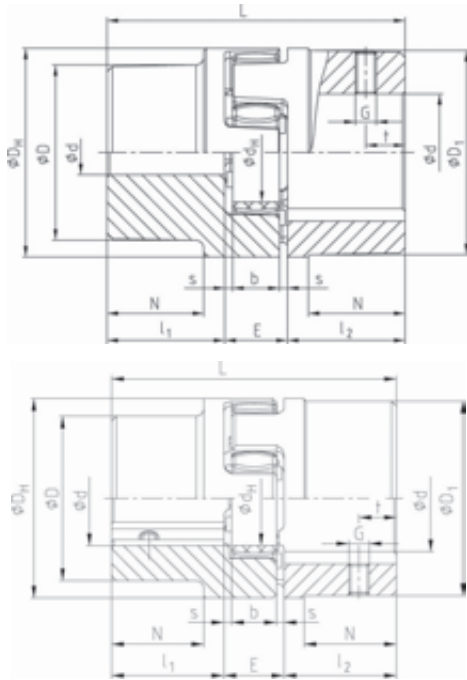
SIEMENS

- Double jointed gear coupling allowing for angular, parallel and axial misalignment
- Maintenance free - not subject to wear
- Ideal for applications where high torques have to be transmitted under shock-load conditions
- Can be used for rotation in both directions and for reversing operations
- Suitable for horizontal installation and also in vertical installation with special design

Product Code	Nominal Torque Nm	Max Bore mm	da mm	l1 mm	S1 mm
1	850	50	117	42	3
1.5	1700	64	152	48	3
2	3350	80	178	59	3
2.5	6000	98	213	69	5
3	10000	112	240	82	5
3.5	16000	133	280	98	6
4	23600	158	318	107	6
4.5	33500	172	347	120	8
5	47500	192	390	131	8
5.5	67000	210	425.5	151	8
6	90000	232	457	170	8
7	125000	276	527	195	10

KTR Couplings

KTR ROTEX Coupling - Cast Hubs



- Torsionally flexible, maintenance-free
- Dampening of vibrations
- Axial plug-in, fail-safe
- All over machining - good dynamic properties
- Compact design / small flywheel effect
- ATEX approved according to EC Standards 94/9/EC (without aluminium AL-D)
- Spider elements available separately

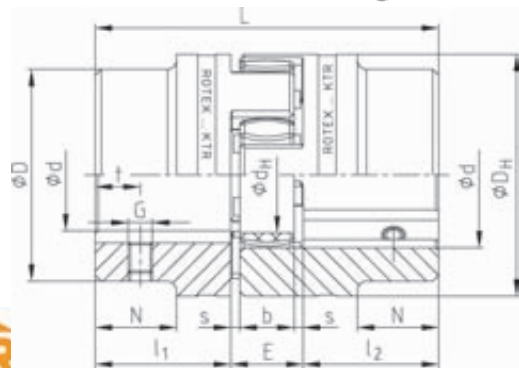
Aluminium						Rated Torque Nm	Rated Torque Nm
Size	Component	Bore (min-Max)	L	I1 & I2	Dh	Yellow	Red
14	1a	6-16	35	11	30	7.5	12.5
19	1	6-19	66	25	41	10	17
19	1a	19-24	66	25	41	10	17
24	1	9-24	78	30	56	35	60
24	1a	22-28	78	30	56	35	60
28	1	10-28	90	35	67	95	160
28	1a	28-38	90	35	67	95	160

Cast Iron						Rated Torque Nm	Rated Torque Nm
Size	Component	Bore (min-Max)	L	I1 & I2	Dh	Yellow	Red
38	1	12-38	114	45	80	180	325
38	1a	38-45	114	45	80	180	325

42	1	14-42	126	50	95	265	450
42	1a	42-55	126	50	95	265	450
48	1	15-48	140	56	105	310	525
48	1a	48-60	140	56	105	310	525
55	1	20-55	160	65	120	410	685
55	1a	55-70	160	65	120	410	685
65	1	22-65	185	75	135	625	940
75	1	30-75	210	85	160	1280	1920
90	1	40-90	245	100	200	2400	3600

Nodular Iron						Rated Torque Nm	Rated Torque Nm
Size	Component	Bore (min-Max)	L	I1 & I2	Dh	Yellow	Red
100	1	50-115	270	110	225	3300	4950
110	1	60-125	295	120	255	4800	7200
125	1	60-145	340	140	290	6650	10000
140	1	60-160	375	155	320	8550	12800
160	1	80-185	425	175	370	12800	19200
180	1	85-200	475	195	420	18650	28000

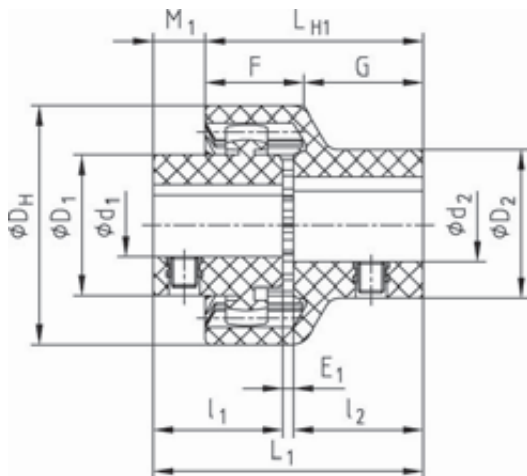
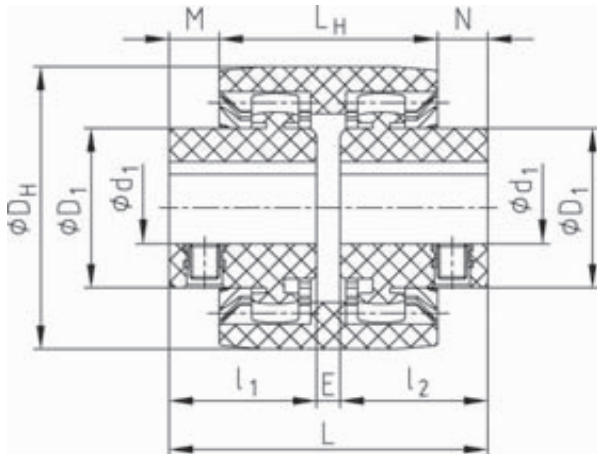
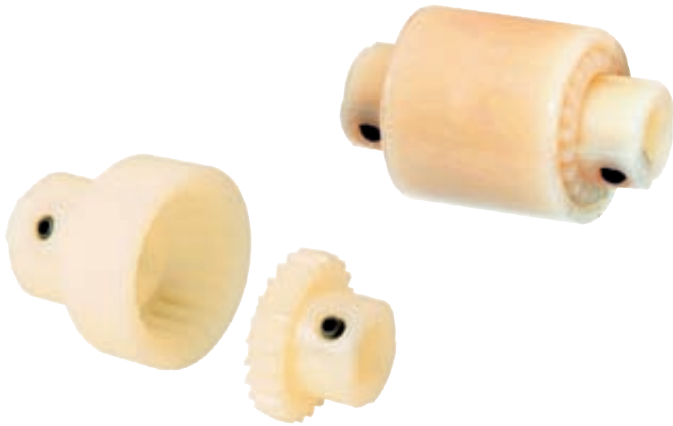
KTR ROTEX Coupling - Steel Hubs



- Steel hubs specifically suitable for drive elements subject to high loads
- Torsionally flexible, maintenance-free
- Axial plug-in, fail-safe
- All-over machining - good dynamic properties
- Compact design / small flywheel effect
- ATEX approved according to EC Standards 94/9/EC (without aluminium AL-D)
- Spider elements available separately

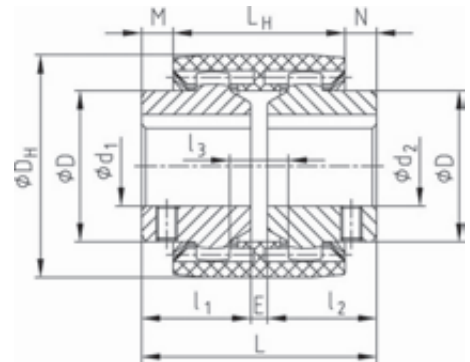
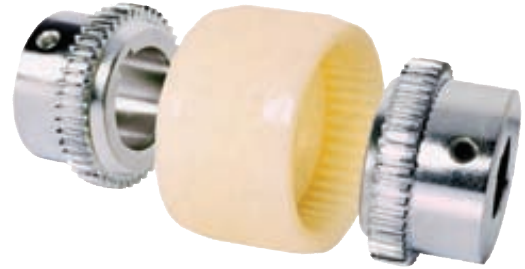
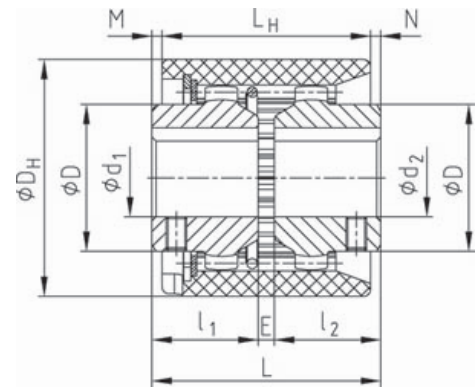
Steel						Rated Torque Nm	Rated Torque Nm
Size	Component	Bore (min-Max)	L	I1 & I2	Dh	Yellow	Red
19	1a	0-25	66	25	40	10	17
24	1a	0-35	78	30	55	35	60
28	1a	0-40	90	35	65	95	160
38	1	0-48	114	45	80	190	325
42	1	0-55	126	50	95	265	450
48	1	0-62	140	56	105	310	525
55	1	0-74	160	65	120	410	685
65	1	0-80	185	75	135	625	940
75	1	0-95	210	85	160	1280	1920
90	1	0-110	245	100	200	2400	3600

Sintered Steel						Rated Torque Nm	Rated Torque Nm
Size	Component	Bore (min-Max)	L	I1 & I2	Dh	Yellow	Red
14	1a	0 8 10 11 12 14	35	11	30	7.5	12.5
19	1a	0 14 16 19 20 22 24	66	25	40	10	17



- Nylon curved tooth gear coupling, plug-in design (2 parts)
- Type M - Nylon double cardanic curved-tooth gear coupling (3 parts)
- Maintenance-free due to nylon material combination
- Compensates for axial, radial and angular shaft misalignment
- Low weight and small flywheel effect
- Axial plug-in for easy assembly
- Operating range -25°C to +100°C
- Sleeves available separately

Size	Bore Hub 1b	D1	Bore Hub 2b	D2	Dh	I1 & I2	L	Rated Torque Nm
14 & M14	6 7 8 9	22	8	22	40	23	50	5
14 & M14	10 11	25	10 11	25	40	23	50	5
14 & M14	12 14	25	12 14	26	40	23	50	5
19 & M19	12 14	27	14 15	29	48	25	54	8
19 & M19	16	30	14 15	29	48	25	54	8
19 & M19	19	32	19	35	48	25	54	8
24 & M24	10 11 12	26	14 16	32	52	26	56	12
24 & M24	14 15 16	32	14 16	32	52	26	56	12
24 & M24	18 19 20	36	19 20	36	52	26	56	12
24 & M24	24	38	24	40	52	26	56	12



- Double cardanic curved-tooth gear coupling
- Ideal for general engineering and hydraulic applications
- Maintenance-free due to the material combination of nylon and steel
- Compensates for axial, radial and angular shaft misalignment
- Axial plug-in for easy assembly
- Types M...C with carbon fibre reinforced PA - ATEX approved
- Sleeves available separately

Size	Max Bore	I1 & I2	L	Dh	Rated Torque Nm	
					M-Type	MC-Type (ATEX)
M14 & M-14C	15	23	50	40	10	15
M19 & M-19C	20	25	54	48	16	24
M-24 & M-24C	24	26	56	52	20	30
M-28 & M-28C	28	40	84	66	45	70
M-32 & M-32C	32	40	84	76	60	90
M-38 & M-38C	38	40	84	83	80	120
M-42	42	42	88	92	100	N/A
M-48 & M-48C	48	50	104	95	140	200
M-65 & M-65C	65	55	114	132	380	560
I-80	80	90	186	175	700	N/A
I-100	100	110	228	210	1200	N/A
I-125	125	140	290	270	2500	N/A

KTR Gearex Gear Coupling



Couplings

- Manufactured to AGMA Standards
- Interchangeable with other AGMA standard couplings
- High torque coupling
- Higher torque available using CrMo material
- All Steel
- Will accept both parallel & angular misalignment
- Suitable for use between -20°C to + 80°C
- Available as single or double engagement types
- Available with ATEX certification
- Can be supplied with hubs unbored or bored & keyed to suit

KTR-FA-SERIES

Size	Rating Nm	Max Speed RPM	Max Bore mm
10	930	8500	50
15	2000	7700	64
20	3500	6900	80
25	6500	6200	98
30	10000	5800	112
35	17000	5100	133
40	28500	4500	158
45	37000	4000	172
50	51000	3750	192
55	65000	3550	210
60	85000	3400	232
70	135000	3200	276

Ruland Couplings

Ruland Beam Couplings



- Machined from a single piece of material
- Accommodates misalignment with zero-backlash
- Two sets of cuts separated by centre section to better accommodate parallel offset of shafts
- Material is type 7075 aluminium for long life. Stainless steel also available
- Maximum speed is 6000 rpm
- Divide torque rating by 2 for non-reversing applications and by 4 for reversing applications

Product Code	OD (mm)	Length (mm)	Bore 1 (mm)	Bore 2 (mm)	Static Torque (Nm)	Torsional Stiffness (Deg./Nm)
RULAND-PSMR19-4-4-A	19.1	22.9	4	4	1.92	2.27
RULAND-PSMR19-5-5-A	19.1	22.9	5	5	1.92	2.27
RULAND-PSMR19-6-6-A	19.1	22.9	6	6	1.58	2.90
RULAND-PSMR25-6-6-A	25.4	31.8	6	6	4.07	1.41
RULAND-PSMR25-8-8-A	25.4	31.8	8	8	3.73	1.57

Product Code	OD (mm)	Length (mm)	Bore 1 (mm)	Bore 2 (mm)	Static Torque (Nm)	Torsional Stiffness (Deg./Nm)
RULAND-PSMR25-10-10-A	25.4	31.8	10	10	3.39	1.80
RULAND-PCMR19-4-4-A	19.1	22.9	4	4	1.92	2.27
RULAND-PCMR19-5-5-A	19.1	22.9	5	5	1.92	2.27
RULAND-PCMR19-6-5-A	19.1	22.9	6	5	1.58	2.90
RULAND-PCMR19-6-6-A	19.1	22.9	6	6	1.58	2.90
RULAND-PCMR25-6-6-A	25.4	31.8	6	6	4.07	1.41
RULAND-PCMR25-8-6-A	25.4	31.8	8	6	3.73	1.57
RULAND-PCMR25-8-8-A	25.4	31.8	8	8	3.73	1.57
RULAND-PCMR25-10-6-A	25.4	31.8	10	6	3.39	1.80
RULAND-PCMR25-10-8-A	25.4	31.8	10	8	3.39	1.80
RULAND-PCMR25-10-10-A	25.4	31.8	10	10	3.39	1.80
RULAND-PCMR32-10-10-A	31.8	38.1	10	10	6.78	0.62
RULAND-PCMR32-12-10-A	31.8	38.1	12	10	5.88	1.10
RULAND-PCMR32-12-12-A	31.8	38.1	12	12	5.88	1.10
RULAND-FCMR38-12-12-A	38.1	57.15	12	12	12.43	0.24
RULAND-FCMR38-14-14-A	38.1	57.15	14	14	12.43	0.24
RULAND-FCMR38-16-16-A	38.1	57.15	16	16	10.73	0.39

Note PS = Set Screw Style PC = Clamp Style

Ruland Oldham Couplings



- Very light bearing loads with high parallel misalignment capability
- Electrically isolating design
- Hubs are balanced for high rpms, aluminium for low inertia, and anodized for long life
- Clamp and set screw style hubs offered
- Choice of discs from engineered plastic (acetal) with long zero-backlash life or more compliant nylon
- Maximum speed 4500 rpm
- For a complete coupling choose two hubs and one disc of the same OD

Product Code	OD (mm)	Bore (mm)	Coupling Length (mm)	Description
RULAND-MOST13-3-A	12.7	3	15.9	Set screw style
RULAND-MOST13-4-A	12.7	4	15.9	Set screw style
RULAND-MOST13-5-A	12.7	5	15.9	Set screw style
RULAND-MOST13-6-A	12.7	6	15.9	Set screw style
RULAND-MOST19-4-A	19.1	4	22.2	Set screw style
RULAND-MOST19-5-A	19.1	5	22.2	Set screw style
RULAND-MOST19-6-A	19.1	6	22.2	Set screw style
RULAND-MOST25-6-A	25.4	6	28.6	Set screw style
RULAND-MOST25-8-A	25.4	8	28.6	Set screw style
RULAND-MOST25-10-A	25.4	10	28.6	Set screw style
RULAND-MOCT19-4-A	19.1	4	25.4	Clamp style
RULAND-MOCT19-5-A	19.1	5	25.4	Clamp style
RULAND-MOCT19-6-A	19.1	6	25.4	Clamp style
RULAND-MOCT25-6-A	25.4	6	31.8	Clamp style
RULAND-MOCT25-8-A	25.4	8	31.8	Clamp style
RULAND-MOCT25-10-A	25.4	10	31.8	Clamp style
RULAND-MOCT33-8-A	33.1	8	47.6	Clamp style
RULAND-MOCT33-10-A	33.1	10	47.6	Clamp style
RULAND-MOCT41-10-A	41.3	10	50.8	Clamp style
RULAND-MOCT41-12-A	41.3	12	50.8	Clamp style
Oldham Coupling Discs	OD (mm)	Rated Torque (Nm)	Torsional Stiffness (Deg./Nm)	Material
RULAND-OD8/13-AT	12.7	0.68	0.636	Acetal
RULAND-OD8/13-NL	12.7	0.17	2.56	Nylon
RULAND-OD12/19-AT	19.1	2.25	0.38	Acetal

Product Code	OD	Bore	Coupling Length	Description
Coupling Hubs	(mm)	(mm)	(mm)	
RULAND-OD12/19-NL	19.1	0.57	1.24	Nylon
RULAND-OD16/25-AT	25.4	4.75	0.291	Acetal
RULAND-OD16/25-NL	25.4	1.13	1.11	Nylon
RULAND-OD21/33-AT	33.1	8	0.079	Acetal
RULAND-OD21/33-NL	33.1	2.05	0.46	Nylon
RULAND-OD26/41-AT	41.3	14.75	0.068	Acetal
RULAND-OD26/41-NL	41.3	3.65	0.33	Nylon

Ruland Rigid Couplings



- Precision honed bores on straight bore couplings for excellent fit and alignment
- Special treatment on screws to prevent loosening
- Steel and stainless steel (SS) with or without keyways
- Popular for shaft to shaft connections and in motion control where precise alignment is required
- One piece clamp-style
- Two piece styles and stepped-bore couplings also available

Product Code	Bore 1	Bore 2	OD	Length	Keyway
Rigid Couplings Steel	(mm)	(mm)	(mm)	(mm)	
RULAND-MCLX-6-6-F	6	6	18	30	No
RULAND-MCLX-8-8-F	8	8	24	35	No
RULAND-MCLX-10-10-F	10	10	29	45	No
RULAND-MCLX-12-12-F	12	12	29	45	No
RULAND-MCLX-16-16-F	16	16	34	50	No
RULAND-MCLX-20-20-F	20	20	42	65	No
RULAND-MCLX-25-25-F	25	25	45	75	No
RULAND-MCLC-20-20-F	20	20	42	65	Yes
RULAND-MCLC-25-25-F	25	25	45	75	Yes
RULAND-MCLC-30-30-F	30	30	53	83	Yes
RULAND-MCLC-35-35-F	35	35	67	95	Yes
RULAND-MCLC-40-40-F	40	40	77	108	Yes

Rigid Couplings Stainless Steel

RULAND-MCLX-6-6-SS	6	6	18	30	No
RULAND-MCLX-8-8-SS	8	8	24	35	No
RULAND-MCLX-10-10-SS	10	10	29	45	No
RULAND-MCLX-12-12-SS	12	12	29	45	No
RULAND-MCLX-16-16-SS	16	16	34	50	No
RULAND-MCLX-20-20-SS	20	20	42	65	No
RULAND-MCLX-25-25-SS	25	25	45	75	No
RULAND-MCLC-20-20-SS	20	20	42	65	Yes
RULAND-MCLC-25-25-SS	25	25	45	75	Yes
RULAND-MCLC-30-30-SS	30	30	53	83	Yes
RULAND-MCLC-35-35-SS	35	35	67	95	Yes
RULAND-MCLC-40-40-SS	40	40	77	108	Yes

See our extensive range of Locking Bushes On Page 148



Ruland Jaw Couplings



- Zero-backlash for greater precision, especially in reversing applications (standard jaw couplings are not zero-backlash)
- Clamp-style hubs provide good holding power and do not mark the shaft
- Precision machined high grade aluminium accept full clamping torque without deformation
- Maximum speed 8000rpm
- Precision molded spiders available in three durometers
- Hubs with keyways also available
- **For a complete coupling choose two hubs and one spider of the same OD**

Product Code	OD	Bore	Coupling Length	Description
Jaw Coupling Hubs Aluminium	(mm)	(mm)	(mm)	
RULAND-MJC15-3-A	15	3	22.9	Clamp-style Jaw Coupling Hub
RULAND-MJC15-4-A	15	4	22.9	Clamp-style Jaw Coupling Hub
RULAND-MJC15-5-A	15	5	22.9	Clamp-style Jaw Coupling Hub
RULAND-MJC15-6-A	15	6	22.9	Clamp-style Jaw Coupling Hub
RULAND-MJC19-4-A	19.1	4	27.9	Clamp-style Jaw Coupling Hub
RULAND-MJC19-5-A	19.1	5	27.9	Clamp-style Jaw Coupling Hub
RULAND-MJC19-6-A	19.1	6	27.9	Clamp-style Jaw Coupling Hub
RULAND-MJC19-8-A	19.1	8	27.9	Clamp-style Jaw Coupling Hub
RULAND-MJC25-10-A	25.4	10	31.8	Clamp-style Jaw Coupling Hub
RULAND-MJC25-12-A	25.4	12	31.8	Clamp-style Jaw Coupling Hub
RULAND-MJC25-6-A	25.4	6	31.8	Clamp-style Jaw Coupling Hub
RULAND-MJC25-8-A	25.4	8	31.8	Clamp-style Jaw Coupling Hub
RULAND-MJC41-10-A	41.3	10	50.8	Clamp-style Jaw Coupling Hub
RULAND-MJC41-12-A	41.3	12	50.8	Clamp-style Jaw Coupling Hub
RULAND-MJC41-14-A	41.3	14	50.8	Clamp-style Jaw Coupling Hub
RULAND-MJC41-16-A	41.3	16	50.8	Clamp-style Jaw Coupling Hub
RULAND-MJC41-20-A	41.3	20	50.8	Clamp-style Jaw Coupling Hub
RULAND-MJC57-14-A	57.1	14	80	Clamp-style Jaw Coupling Hub
RULAND-MJC57-16-A	57.1	16	80	Clamp-style Jaw Coupling Hub
RULAND-MJC57-20-A	57.1	20	80	Clamp-style Jaw Coupling Hub
RULAND-MJC57-25-A	57.1	25	80	Clamp-style Jaw Coupling Hub
RULAND-MJC57-30-A	57.1	30	80	Clamp-style Jaw Coupling Hub

Spiders Jaw Coupling	OD	Zero backlash Rated Torque	Torsional Stiffness	Material
	(mm)	(Nm)	(Deg./Nm)	
RULAND-JD10/15-92Y	15	0.6	2.384	Polyurethane 92 Shore A
RULAND-JD10/15-98R	15	0.9	1.068	Polyurethane 98 Shore A
RULAND-JD10/15-85B	15	0.3	3.972	Polyurethane 85 Shore A
RULAND-JD12/19-92Y	19.1	1	2.269	Polyurethane 92 Shore A
RULAND-JD12/19-98R	19.1	1.7	1.007	Polyurethane 98 Shore A
RULAND-JD12/19-85B	19.1	0.6	3.583	Polyurethane 85 Shore A
RULAND-JD16/25-92Y	25.4	3.3	0.592	Polyurethane 92 Shore A
RULAND-JD16/25-98R	25.4	8.5	0.212	Polyurethane 98 Shore A
RULAND-JD16/25-98B	25.4	1.7	0.953	Polyurethane 85 Shore A
RULAND-JD26/41-92Y	41.3	11	0.106	Polyurethane 92 Shore A
RULAND-JD36/57-98R	41.3	18.7	0.053	Polyurethane 98 Shore A
RULAND-JD36/57-92Y	57.1	32.3	0.035	Polyurethane 92 Shore A
RULAND-JD36/57-98R	57.1	46.5	0.026	Polyurethane 98 Shore A

Ruland Bellows Couplings



Couplings

- Very high torsional stiffness with some misalignment capability
- Popular alternative to beam couplings in servo motor applications
- Maximum speed 10000rpm
- Stainless steel bellows with aluminium hubs for low inertia

Product Code	OD (mm)	Bore 1 (mm)	Bore 2 (mm)	Length (mm)	Static Torque (Nm)	Torsional Stiffness (Nm/Deg.)	Description
RULAND-MBC19-6-6-A	19.1 mm	6	6	30	4.5	14	Clamp Style Hubs
RULAND-MBC25-10-10-A	25.4 mm	10	10	33	6.8	27	Clamp Style Hubs
RULAND-MBC25-12-12-A	25.4 mm	12	12	33	6.8	27	Clamp Style Hubs
RULAND-MBC25-6-6-A	25.4 mm	6	6	33	6.8	27	Clamp Style Hubs
RULAND-MBC25-8-8-A	25.4 mm	8	8	33	6.8	27	Clamp Style Hubs
RULAND-MBC33-10-10-A	33.1 mm	10	10	40	13.6	45	Clamp Style Hubs
RULAND-MBC33-12-12-A	33.1 mm	12	12	40	13.6	45	Clamp Style Hubs
RULAND-MBC33-8-8-A	33.1 mm	8	8	40	13.6	45	Clamp Style Hubs
RULAND-MBC41-12-12-A	41.3 mm	12	12	51	28	63	Clamp Style Hubs
RULAND-MBC41-16-16-A	41.3 mm	16	16	51	28	63	Clamp Style Hubs
RULAND-MBC41-20-20-A	41.3 mm	20	20	51	28	63	Clamp Style Hubs
RULAND-MBC51-16-16-A	50.8 mm	16	16	59	45.2	108	Clamp Style Hubs
RULAND-MBC51-20-20-A	50.8 mm	20	20	59	45.2	108	Clamp Style Hubs
RULAND-MBC51-25-25-A	50.8 mm	25	25	59	45.2	108	Clamp Style Hubs

Ruland Shaft Collars



- RULAND's signature product. Stamped with RULAND name and bore size
- Most recognised shaft collar brand in the industry
- Superior materials - lead-free steel, type 303 stainless steel, type 2024 (high strength) aluminum
- RoHs compliant
- Single point faced collars to ensure face to bore perpendicularity (TIR<=.05 mm)
- Forged socket cap screws including DIN12.9 metric screws on metric bore collars
- Proprietary techniques and extra manufacturing steps to ensure a fine finish and superior holding power

Product Code	Bore (mm)	OD (mm)	Width (mm)	Description
RULAND-MCL-5-F	5	16	9	One-piece Clamp-style Shaft Collar
RULAND-MCL-6-F	6	16	9	One-piece Clamp-style Shaft Collar
RULAND-MCL-8-F	8	18	9	One-piece Clamp-style Shaft Collar
RULAND-MCL-10-F	10	24	9	One-piece Clamp-style Shaft Collar
RULAND-MCL-12-F	12	28	11	One-piece Clamp-style Shaft Collar
RULAND-MCL-14-F	14	30	11	One-piece Clamp-style Shaft Collar
RULAND-MCL-15-F	15	34	13	One-piece Clamp-style Shaft Collar

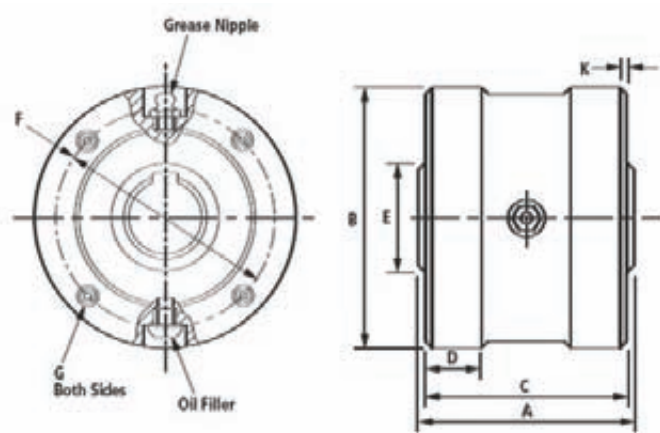
Product Code	Bore (mm)	OD (mm)	Width (mm)	Description
Clamp Style Shaft Collars Steel				
RULAND-MCL-16-F	16	34	13	One-piece Clamp-style Shaft Collar
RULAND-MCL-20-F	20	40	15	One-piece Clamp-style Shaft Collar
RULAND-MCL-25-F	25	45	15	One-piece Clamp-style Shaft Collar
RULAND-MCL-30-F	30	54	15	One-piece Clamp-style Shaft Collar
RULAND-MCL-35-F	35	57	15	One-piece Clamp-style Shaft Collar
RULAND-MCL-40-F	40	60	15	One-piece Clamp-style Shaft Collar
RULAND-MCL-50-F	50	78	19	One-piece Clamp-style Shaft Collar
RULAND-MCL-55-F	55	82	19	One-piece Clamp-style Shaft Collar
RULAND-MCL-60-F	60	88	19	One-piece Clamp-style Shaft Collar
RULAND-MCL-65-F	65	93	19	One-piece Clamp-style Shaft Collar
RULAND-MCL-70-F	70	98	19	One-piece Clamp-style Shaft Collar
RULAND-MCL-75-F	75	103	19	One-piece Clamp-style Shaft Collar
RULAND-MCL-80-F	80	108	19	One-piece Clamp-style Shaft Collar
RULAND-MSP-5-F	5	16	9	Two-piece Clamp-style Shaft Collar
RULAND-MSP-6-F	6	16	9	Two-piece Clamp-style Shaft Collar
RULAND-MSP-8-F	8	18	9	Two-piece Clamp-style Shaft Collar
RULAND-MSP-10-F	10	24	9	Two-piece Clamp-style Shaft Collar
RULAND-MSP-12-F	12	28	11	Two-piece Clamp-style Shaft Collar
RULAND-MSP-14-F	14	30	11	Two-piece Clamp-style Shaft Collar
RULAND-MSP-15-F	15	34	13	Two-piece Clamp-style Shaft Collar
RULAND-MSP-16-F	16	34	13	Two-piece Clamp-style Shaft Collar
RULAND-MSP-20-F	20	40	15	Two-piece Clamp-style Shaft Collar
RULAND-MSP-25-F	25	45	15	Two-piece Clamp-style Shaft Collar
RULAND-MSP-30-F	30	54	15	Two-piece Clamp-style Shaft Collar
RULAND-MSP-35-F	35	57	15	Two-piece Clamp-style Shaft Collar
RULAND-MSP-40-F	40	60	15	Two-piece Clamp-style Shaft Collar
RULAND-MSP-50-F	50	78	19	Two-piece Clamp-style Shaft Collar
RULAND-MSP-55-F	55	82	19	Two-piece Clamp-style Shaft Collar
RULAND-MSP-60-F	60	88	19	Two-piece Clamp-style Shaft Collar
RULAND-MSP-65-F	65	93	19	Two-piece Clamp-style Shaft Collar
RULAND-MSP-70-F	70	98	19	Two-piece Clamp-style Shaft Collar
RULAND-MSP-75-F	75	103	19	Two-piece Clamp-style Shaft Collar
RULAND-MSP-80-F	80	108	19	Two-piece Clamp-style Shaft Collar

Clamp Style Shaft Collars Stainless Steel

RULAND-MCL-5-SS	5	16	9	One-piece Clamp-style Shaft Collar
RULAND-MCL-6-SS	6	16	9	One-piece Clamp-style Shaft Collar
RULAND-MCL-8-SS	8	18	9	One-piece Clamp-style Shaft Collar
RULAND-MCL-10-SS	10	24	9	One-piece Clamp-style Shaft Collar
RULAND-MCL-12-SS	12	28	11	One-piece Clamp-style Shaft Collar
RULAND-MCL-14-SS	14	30	11	One-piece Clamp-style Shaft Collar
RULAND-MCL-15-SS	15	34	13	One-piece Clamp-style Shaft Collar
RULAND-MCL-16-SS	16	34	13	One-piece Clamp-style Shaft Collar
RULAND-MCL-20-SS	20	40	15	One-piece Clamp-style Shaft Collar
RULAND-MCL-25-SS	25	45	15	One-piece Clamp-style Shaft Collar
RULAND-MCL-30-SS	30	54	15	One-piece Clamp-style Shaft Collar
RULAND-MCL-35-SS	35	57	15	One-piece Clamp-style Shaft Collar
RULAND-MCL-40-SS	40	60	15	One-piece Clamp-style Shaft Collar
RULAND-MCL-50-SS	50	78	19	One-piece Clamp-style Shaft Collar
RULAND-MCL-60-SS	60	88	19	One-piece Clamp-style Shaft Collar
RULAND-MSP-5-SS	5	16	9	Two-piece Clamp-style Shaft Collar
RULAND-MSP-6-SS	6	16	9	Two-piece Clamp-style Shaft Collar
RULAND-MSP-8-SS	8	18	9	Two-piece Clamp-style Shaft Collar
RULAND-MSP-10-SS	10	24	9	Two-piece Clamp-style Shaft Collar
RULAND-MSP-12-SS	12	28	11	Two-piece Clamp-style Shaft Collar
RULAND-MSP-14-SS	14	30	11	Two-piece Clamp-style Shaft Collar
RULAND-MSP-15-SS	15	34	13	Two-piece Clamp-style Shaft Collar
RULAND-MSP-16-SS	16	34	13	Two-piece Clamp-style Shaft Collar
RULAND-MSP-20-SS	20	40	15	Two-piece Clamp-style Shaft Collar
RULAND-MSP-25-SS	25	45	15	Two-piece Clamp-style Shaft Collar
RULAND-MSP-30-SS	30	54	15	Two-piece Clamp-style Shaft Collar
RULAND-MSP-35-SS	35	57	15	Two-piece Clamp-style Shaft Collar
RULAND-MSP-40-SS	40	60	15	Two-piece Clamp-style Shaft Collar
RULAND-MSP-50-SS	50	78	19	Two-piece Clamp-style Shaft Collar
RULAND-MSP-60-SS	60	88	19	Two-piece Clamp-style Shaft Collar

Renold Sprag Clutches

Renold Sprag Clutch



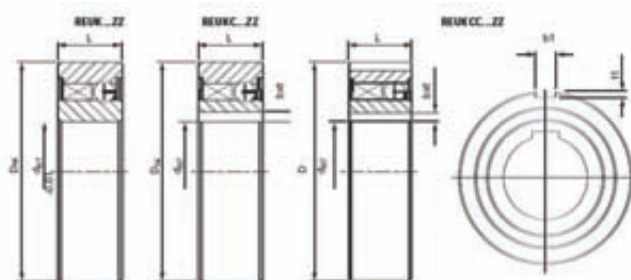
- All clutches are fitted with high precision heavy duty bearings for arduous duty applications
- Clutch sizes 400 to 700 are fitted with ARO sprags to resist vibration and high transient torques and overloads
- SO series clutches, oil lubricated suitable for overrunning, backstopping and medium duty indexing (up to 150 indexes/minute)
- Grease lubrication is available where high inner race overrunning speeds are required or maintenance is difficult
- SO series clutches, grease lubricated for use on general purpose overrunning and backstopping applications
- SX series clutches, oil lubricated designed for medium to heavy indexing applications (over 150 indexes/minute)

SO				
Sprag Clutch Ref	Max Torque Nm	Max Bore (mm)	B (mm)	A (mm)
S0400	407	22	88.9	69.85
S0500	1585	32	107.95	88.9
S0600	3100	50	136.53	95.25
S0700	6900	70	180.98	127
S0750	9660	80	222.25	152.4
S0800	17940	110	254	152.4
S0900	24400	130	304.8	161.9
S01000	33900	160	381	177.8

SX				
Sprag Clutch Ref	Max Torque Nm	Max Bore (mm)	B (mm)	A (mm)
SX400	407	22	88.9	69.85
SX500	1585	32	107.95	88.9
SX600	3100	50	136.53	95.25
SX700	6900	70	180.98	127
SX750	9660	80	222.25	152.4
SX800	17940	110	254	152.4
SX900	24400	130	304.8	161.9
SX1000	33900	160	381	177.8

Renold Freewheel Clutches

Renold Freewheel Clutch - REUK Series

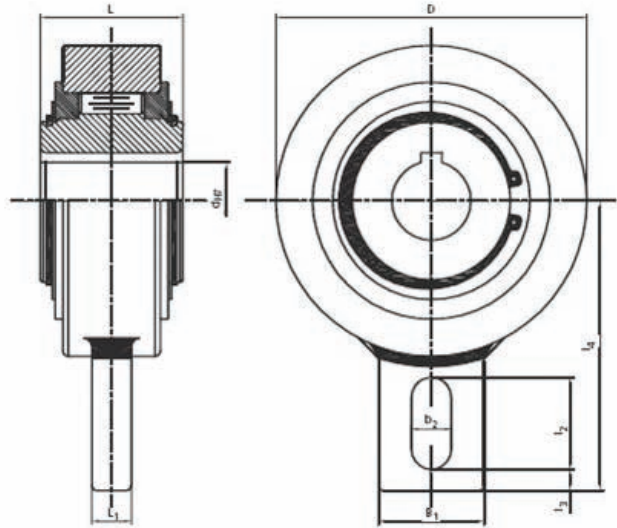
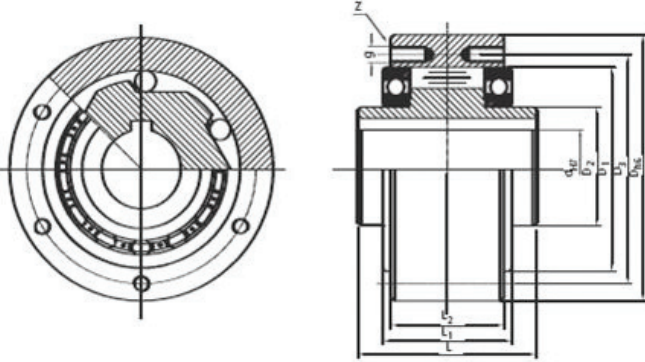


- The REUK series is a freewheel incorporating a 62 Series bearing
- The REUK series is built with a C5 clearance that turns into normal clearance after keying
- The race can be glued to the shaft and the seat. In this case the C5 clearance remains
- For the REUK model the transmission occurs by fitting keying with n6 tolerance for each shaft and N6 for the seat
- The REUKC model is equipped with a keyway on the inner race and should be fitted on k6 tolerance shafts. Seat fitting must be carried out with N6 keying tolerance
- REUKCC model is equipped with a keyway on the inner and outer race, the tolerances are N6 for the shaft and H6 for the rigid seat
- Interchangeable- No re-engineering required

REUK				
Freewheel Ref	Bore (mm)	Max Torque Nm	D h6 (mm)	L (mm)
REUK 8 ZZ	8	2.5	22	9
REUK 12 ZZ	12	9.3	32	10
REUK 15 ZZ	15	16.9	35	11
REUK 17 ZZ	17	30.6	40	12
REUK 20 ZZ	20	50	47	14
REUK 25 ZZ	25	85	52	15
REUK 30 ZZ	30	138	62	16
REUK 35 ZZ	35	175	72	17
REUK 40 ZZ	40	325	80	22

REUKC				
Freewheel Ref	Bore (mm)	Max Torque Nm	D h6 (mm)	L (mm)
REUKC 12 ZZ	12	9.3	32	10
REUKC 15 ZZ	15	16.9	35	11
REUKC 17 ZZ	17	30.6	40	12
REUKC 20 ZZ	20	50	47	14
REUKC 25 ZZ	25	85	52	15
REUKC 30 ZZ	30	138	62	16
REUKC 35 ZZ	35	175	72	17
REUKC 40 ZZ	40	325	80	22

REUKCC				
Freewheel Ref	Bore (mm)	Max Torque Nm	D h6 (mm)	L (mm)
REUKCC 15 ZZ	15	16.9	35	11
REUKCC 17 ZZ	17	30.6	40	12
REUKCC 20 ZZ	20	50	47	14
REUKCC 25 ZZ	25	85	52	15
REUKCC 30 ZZ	30	138	62	16
REUKCC 35 ZZ	35	175	72	17
REUKCC 40 ZZ	40	325	80	22



- Renold REGL series trapped roller freewheels are self-centering by means of a pair of 160 ball bearings
- Torque is transmitted to the inner race via a key and the outer race by means of bolts
- The REGL base unit may be used in combination with a range of standard fixing and cover plates. Allowing you to economically tailor the base unit to suit individual applications
- Interchangeable-No re-engineering required

- Renold REGV Series 2 trapped roller freewheels are self-centering by means of plain bearings
- Torque is transmitted to the inner race via a key and the outer race via the torque arm, shaft tolerances must be h6
- The primary use for the REGV is as a backstop
- The freewheel should be fixed to the machine body by placing brackets on either side of the torque arm or by using a pin or bolt in the slot
- Alternative application would be indexing where a push rod is connected to the torque arm slot
- The REGV is supplied pre-filled with grease and normally requires no further sealing
- Interchangeable-No re-engineering required
- *REGV 90-120 have 2 keyways at 120°

Freewheel Ref	Bore (mm)	Max Torque Nm	D h6 (mm)	L (mm)
REGL 12	12	55	62	42
REGL 15	15	125	68	52
REGL 20	20	181	75	57
REGL 25	25	288	90	60
REGL 30	30	500	100	68
REGL 35	35	725	110	74
REGL 40	40	1025	125	86
REGL 45	45	1125	130	86
REGL 50	50	2125	150	94
REGL 55	55	2625	160	104
REGL 60	60	3500	170	114
REGL 70	70	5750	190	134
REGL 80	80	8500	210	144
REGL 90	90	14500	230	158
REGL 100	100	20000	270	182
REGL 120	120	25000	310	202
REGL 130	130	31250	310	212
REGL 150	150	70000	400	246

Freewheel Ref	Bore (mm)	Max Torque Nm	D (mm)	L (mm)
REGV 20	20	275	83	35
REGV 25	25	275	83	35
REGV 30	30	1250	118	54
REGV 35	35	1250	118	54
REGV 40	40	1250	118	54
REGV 45	45	2180	155	54
REGV 50	50	2180	155	54
REGV 55	55	2180	155	54
REGV 60	60	2180	155	54
REGV 70	70	2180	155	54
REGV 80	80	2930	190	64
REGV 90*	90	7250	260	90
REGV 100*	100	7250	260	90
REGV 110*	110	7250	260	90
REGV 120*	120	11100	300	110

Check out our Gearbox Range



Tsubaki Emerson Cam Clutches

BB-Series



Cam Clutches are precision devices which lock the inner & outer races, through the wedging action of cams, to transmit torque in one direction.

Used in one or more of the following type applications:

- * Overrunning
- * Indexing
- * Backstopping

Design Features:

Full Cam Complement

Full complement of cams provide the maximum number of load transmitting members per given diameter. The result is greater torque capacity size for size than other clutches.

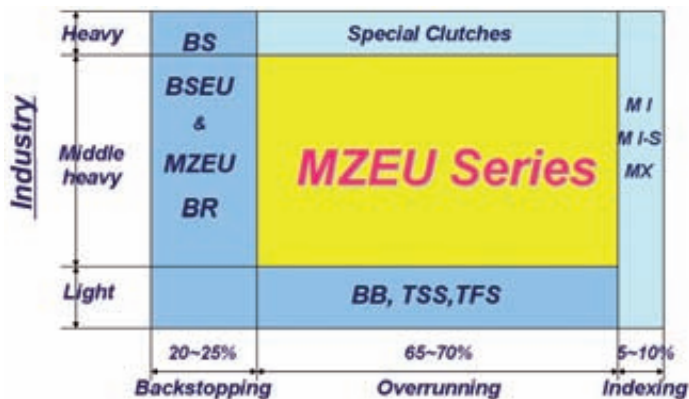
Cam Design

Precision formed cams made of a special alloy steel provide extra long wear and fatigue life.

High Quality Components

The clutch races are made of high-quality alloy steel with high surface hardened and core toughness. The races are precision ground, provide excellent concentricity & surface finish to obtain accurate cam rotation.

Tsubaki Clutches by typical Industry sector



For General Applications BB-Series

Model	Torque Capacity	Max. Overrunning Speed		Bore Size (mm)
	Nm	Inner Race (r/min)	Outer Race (r/min)	
BB15	29	3600	2000	15
BB17	43	3500	1900	17
BB20	61	3000	1600	20
BB25	78	2500	1400	25
BB30	140	2000	1100	30
BB35	173	1800	1000	35
BB40	260	1800	900	40

Available as standard or with one (1K) or two (2K) keyways and special lip seals (GD) for dust protection



TFS Series

This series has two vertical keyways on the outer race. Designed for press fit installation to the housing.

Model	Torque Capacity	Max. Overrunning Speed		Bore Size mm
	Nm	Inner Race r/min	Outer Race r/min	
TFS12	18	4,500	2,300	12
TFS15	28	3,500	1,800	15
TFS17	50	3,200	1,600	17
TFS20	84	2,500	1,300	20
TFS25	128	2,000	1,000	25
TFS30	200	1,600	800	30
TFS35	475	1,400	700	35
TFS40	607	1,300	650	40
TFS45	756	1,100	550	45
TFS50	1124	1,000	500	50
TFS60	1975	840	420	60
TFS70	2514	750	380	70
TFS80	3924	670	340	80

TSS-Series

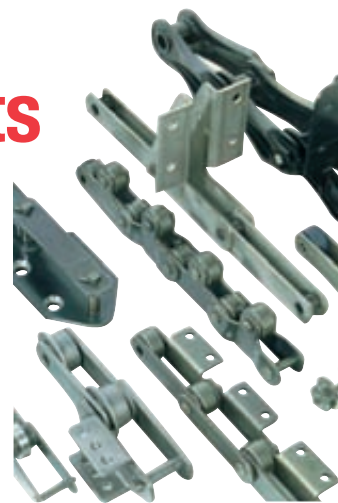


TSS Series

The outer race is designed for press fit installation.

Model	Torque Capacity	Max. Overrunning Speed		Bore Size mm
	Nm	Inner Race r/min	Outer Race r/min	
TSS8	6.7	6,000	3,000	8
TSS10	12	4,500	2,300	10
TSS12	17	4,000	2,000	12
TSS15	22	3,500	1,800	15
TSS20	41	2,600	1,300	20
TSS25	56	2,200	1,100	25
TSS30	105	1,800	900	30
TSS35	136	1,600	800	35
TSS40	296	1,400	700	40
TSS45	347	1,300	650	45
TSS50	403	1,200	600	50
TSS60	649	910	460	60

See our extensive range of Tsubaki Chain & Sprockets





Primarily for Overrunning Applications
MZEU Series

Modular cam clutches, suited to many applications but in particular Overrunning applications. Available with torque arms, flanges and covers to suit specific requirements.

Model	Torque Capacity	Max. Overrunning Speed		Bore Size
	Nm	Inner Race r/min	Outer Race r/min	
MZEU 12	60	2,000	1,000	12
MZEU 15	100	1,800	900	15
MZEU 20	245	1,600	700	20
MZEU 25	425	1,600	600	25
MZEU 30	735	1,500	500	30
MZEU 35	1,015	1,400	300	35
MZEU 40	1,350	1,400	300	40
MZEU 45	1,620	1,400	300	45
MZEU 50	2,070	1,300	250	50
MZEU 55	2,400	1,300	250	55
MZEU 60	2,950	1,200	250	60
MZEU 70	4,120	1,100	250	70
MZEU 80	5,170	800	200	80
MZEU 90	12,000	450	150	90
MZEU 100	17,600	400	130	100
MZEU 130	24,500	320	110	130
MZEU 150	33,800	240	80	150

BSEU-Series



For BackStop Applications

BSEU Series

- * Ideal for conveyor & bucket elevator applications

Model	Torque Capacity Nm	Max Overrun r/min	Bore Size mm
BSEU40-20	1,440	450	20
BSEU40-25	1,440	450	25
BSEU40-30	1,440	450	30
BSEU40-35	1,440	450	35
BSEU40-40	1,440	450	40
BSEU70-45	3,140	350	45
BSEU70-50	3,140	350	50
BSEU70-55	3,140	350	55
BSEU70-60	3,140	350	60
BSEU70-65	3,140	350	65
BSEU70-70	3,140	350	70
BSEU90-75	4,700	250	75
BSEU90-80	4,700	250	80
BSEU90-85	4,700	250	85
BSEU90-90	4,700	250	90

Precision Universal Joints



Lenze

- To DIN808
- Miniature precision universal joints to connect shafts with high misalignment. Single joints accepts up to 45°, double up to 90°
- Type G single and GD double have sliding plain bushes for lower speeds with a maximum of 1000r/min
- Type H single and HD double have needle roller bearings suiting faster speeds with a maximum of 4000r/min
- Gaiters are recommended for types G and GD
- Double joints should be fitted with equal running angle at the two knuckles
- Plain bores are toleranced to H7
- Torque figures are guide ratings based on 200r/min and a maximum of 10° misalignment

Order Code	Type	Bore mm	Outside Diameter mm	Length mm	Rated Torque Nm *
Single plain bearings					
LENZE-G02	G02	8	16	40	10
LENZE-G03	G03	10	22	48	26
LENZE-G04	G04	12	25	56	35
LENZE-G05	G05	14	28	60	48
LENZE-G1	G1	16	32	68	70
LENZE-G2	G2	18	36	74	95
LENZE-G3	G3	20	42	82	130
LENZE-G5	G5	25	50	108	200
Double plain bearings					
LENZE-GD01	GD01	6	16	56	10
LENZE-GD02	GD02	8	16	62	10

Order Code	Type	Bore mm	Outside Diameter mm	Length mm	Rated Torque Nm *
LENZE-GD03	GD03	10	22	74	26
LENZE-GD04	GD04	12	25	86	35
LENZE-GD05	GD05	14	28	96	48
LENZE-GD1	GD1	16	32	104	70
LENZE-GD2	GD2	18	36	114	95
LENZE-GD3	GD3	20	42	128	130
LENZE-GD5	GD5	25	50	163	200

Single needle roller bearings

LENZE-H03	H03	10	22	48	22
LENZE-H04	H04	12	25	50	36
LENZE-H05	H05	14	28	60	55
LENZE-H1	H1	16	32	68	80
LENZE-H2	H2	18	36	74	110
LENZE-H3	H3	20	42	82	140
LENZE-H5	H5	25	50	108	220

Double needle roller bearings

LENZE-HD03	HD03	10	22	74	22
LENZE-HD04	HD04	12	25	86	36
LENZE-HD05	HD05	14	28	96	55
LENZE-HD1	HD1	16	32	104	80
LENZE-HD2	HD2	18	36	114	110
LENZE-HD3	HD3	20	42	128	140
LENZE-HD5	HD5	25	50	163	220

Gaiters

LENZE-01M	01M	15	28	34	-
LENZE-02M	02M	16.5	32	40	-
LENZE-03M	03M	20.5	40	45	-
LENZE-04M	04M	24.5	48	50	-
LENZE-05M	05M	27.5	52	56	-
LENZE-1M	1M	30.5	56	65	-
LENZE-2M	2M	35.5	66	72	-
LENZE-3M	3M	40	75	82	-
LENZE-5M	5M	50	92	108	-

■ Larger universal joints and telescopic models on request