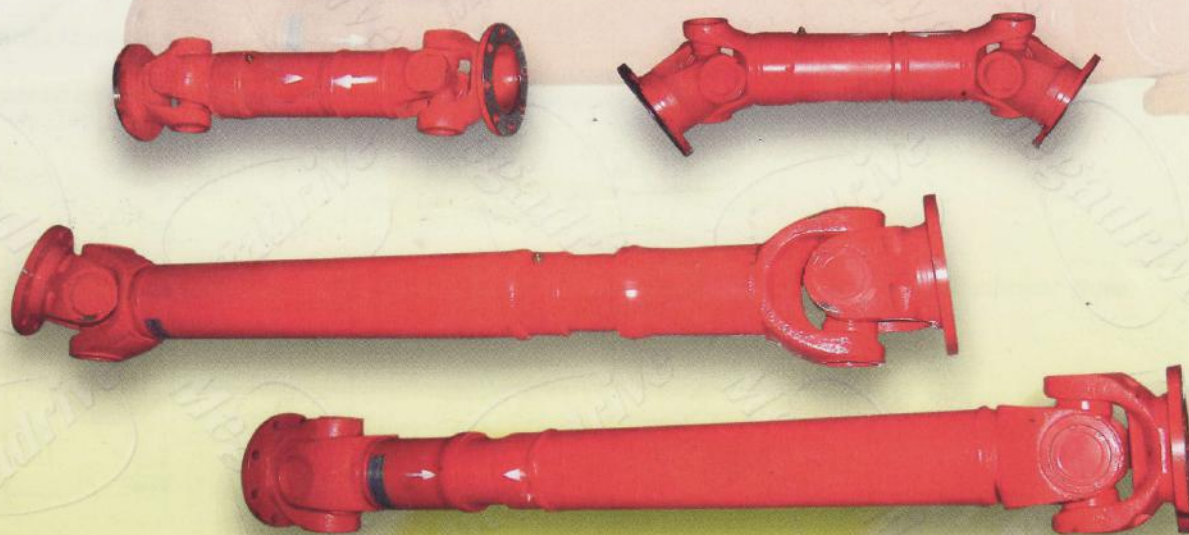
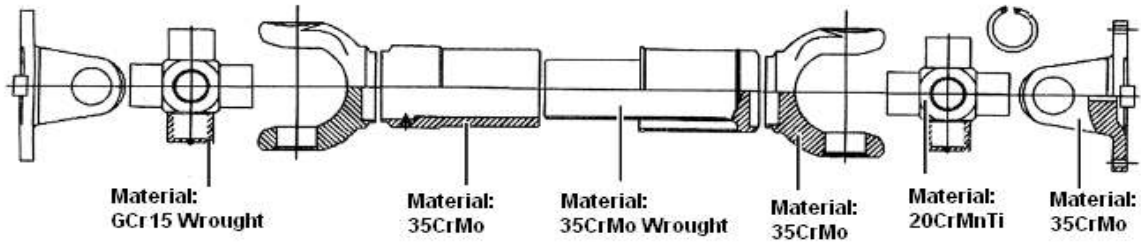


Carden Shafts



Megadrive



The invention of the Universal joint also known as Cardan joint enable the transmission of torque from one inclined shaft to another.

The uniform rotation ω_1 of a single universal joint deflected at a certain angle β will result in a non-uniform rotation of the output side of the joint as illustrated in below diagram 1.

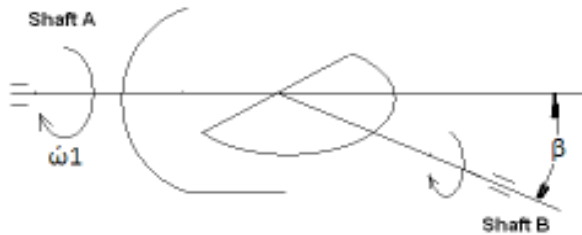
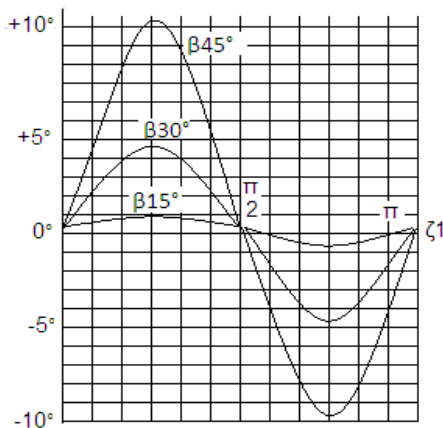


Diagram 1

This result in an irregularity which is known as Carden error. It is an oscillation of the angular velocity ω_2 and a phase difference of Shaft B rotation angle ζ with the amplitude of plus or minus ζ_1 - ζ_2 .



The non constant velocity can be compensated by a second joint when they are both in phase.

This is where the yokes (A) of the intermediate shafts must be situation in the same plate.

Arrows marking (B) must be noted. Refer to Diagram

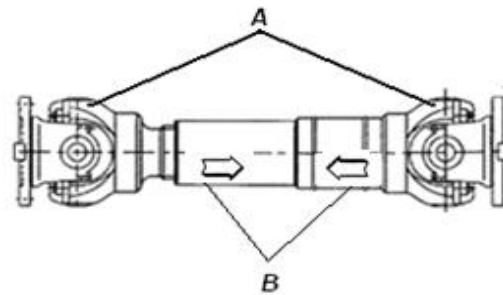
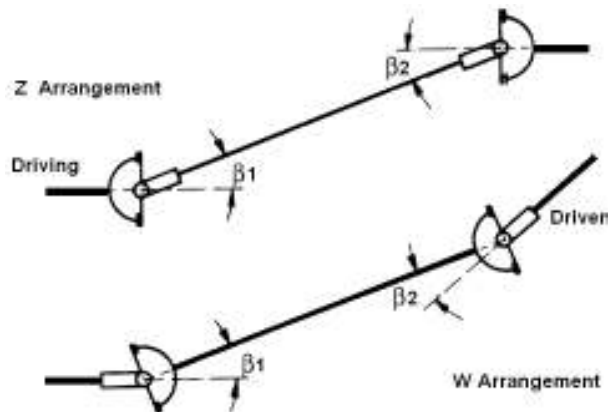


Diagram 2

The angle β_1 and β_2 must be equal. This can be achieved by two common methods as showed in W and Z arrange-ments.



Selection

Series S and P ranges of universal joints can be based from the following selection criteria.

1.0 Designed or Transmissible Torque.

Calculation of designed transmissible torque (Td) can be based on the following formula:

$$T_d = \frac{P \cdot 9550}{n} * F_s \text{ [Nm]}$$

Where :-

P = Motor power in kW
n = Speed in rpm
F_s = Service Factor (Table 1)

The designed transmissible torque (Td) calculated must exceed the rated Nominal Torque (Tn) listed in the data sheet

1.1 Peak Torque

Peak Torque (Ts) can occurred unexpectedly during operations and this can caused severe damages to both the prime mover, drive unit and the machine. To prevent this from happened, the peak torque calculated must be lower than the Nominal Torque (Tn). Following is the formula for peak torque:

$$T_s = K_s * T \text{ [Nm]}$$

Where :-

T = Theoretical Torque in Nm
K_s = Prime mover cut-off factor (used 2.75)

2.0: Bearing Life

Calculation of theoretical bearing life **Lh** :-

$$L_h = \frac{1.5 \times 10^6}{\beta \cdot n} \left[\frac{T_c}{T} \right]^{10/3}$$

Where :-

L_h = Theoretical bearing life in hours
β = Working angle in degree
T_c = Torque duration
T = Rated Torque

2.1 Calculation of theoretical bearing life working under variable conditions: **Lnh**

$$L_{nh} = \frac{1000}{\frac{q_1}{L_{nh1}} + \frac{q_2}{L_{nh2}} + \dots + \frac{q_n}{L_{nhn}}}$$

Where :-

q₁, q₂ = fraction of time in percentage %
L_{nh1}, L_{nh2} = duration in hour

3.0 : Horizontal and Vertical Angular Misalignment

When there are simultaneous horizontal and vertical angular misalignments present on the universal joint shaft, the composite deflection angle is calculated using the below formula:

$$tg \beta = \sqrt{tg^2 \beta_1 + tg^2 \beta_2}$$

Where :-

β = Compounded deflection angle in degree
β₁ = Horizontal deflection angle in degree
β₂ = Vertical deflection angle in degree

4.0 : Maximum Speed

When the joint diameter of the shaft is 390mm or less, check the maximum speed in addition to the torque and bearing life.

n_{max} = maximum operating speed in rpm

n_β = max. permissible speed in respect to the operating deflection angle. See Table2

n_L = max. permissible speed in respect to the operating length and speed. See Table3

4:1: When speed exceed 7m/sec, dynamic balancing is required and it accuracy should be between G6.3 to G16 and customer is advised to use the lower rank in grade for better performances.

Table 1 Service Factor Table Fs

Load	Driven Equipment	Service Factor Fs	
Continous Load	Generators Centrifugal pumps Generators	1	1.5
Light Shock Load	Wood working machines Paper machines Medium size fans Bars and rod mills	1.25	2
Medium Shock Load	Compressor Presses Roller tables Calendar Pinch rolls	1.5	2.25
Heavy Shock Load	Mixers Levelers Blooming mitls Continuous pipe mills	2	3
Extreme Shock Load	Reversing blooming mills Coiling roll drive Vibration conveyors Reversing roller tables	3	5

Table 2

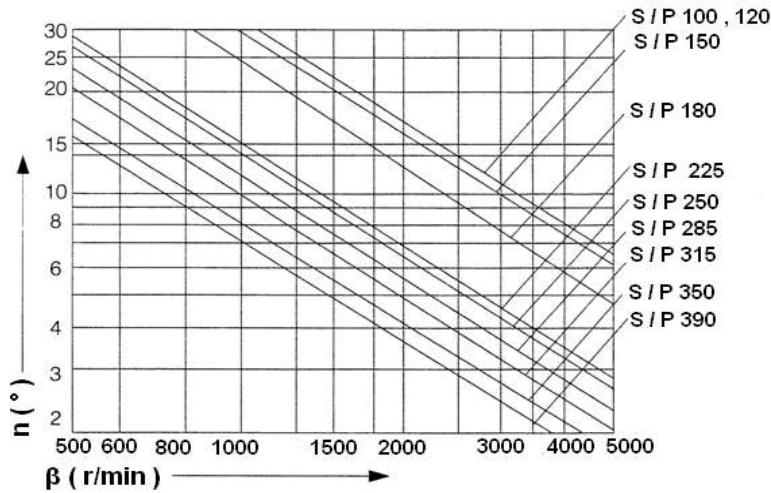
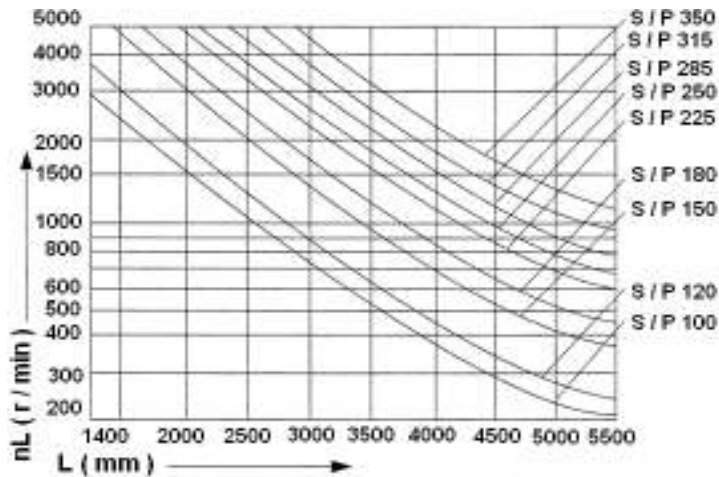
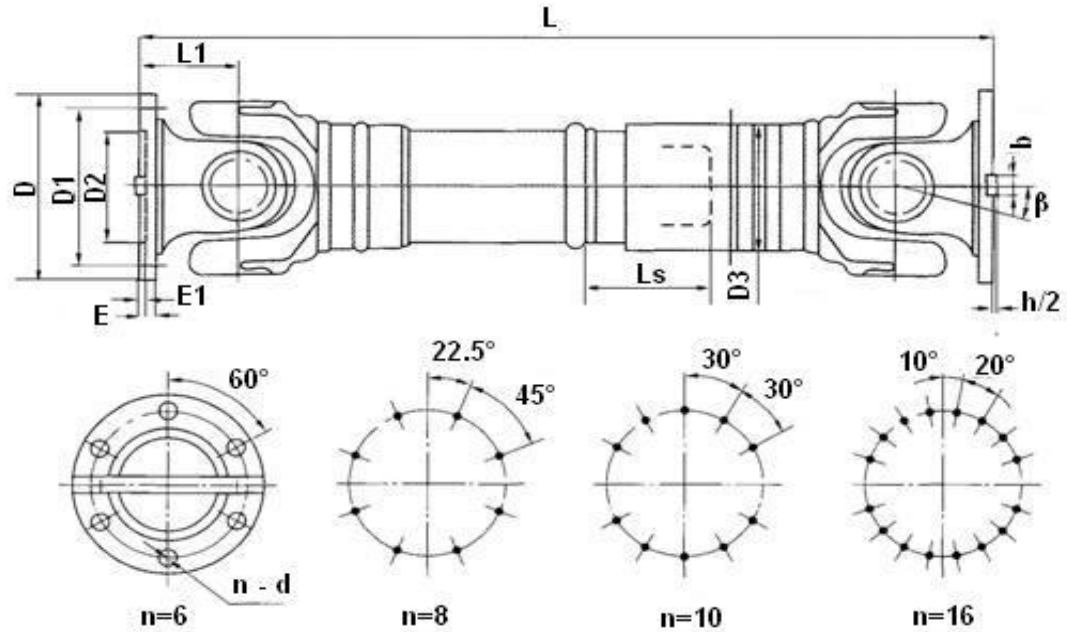


Table 3



Basic Type

C□□□ - 00

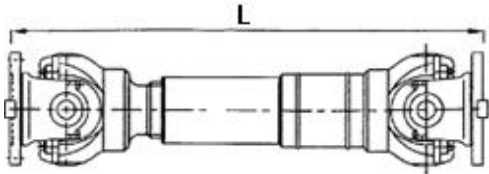
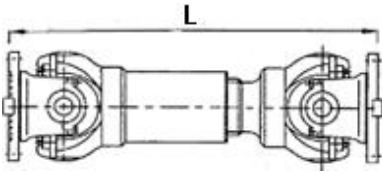
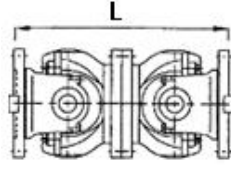
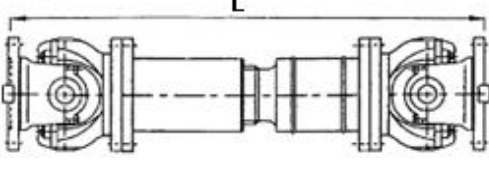
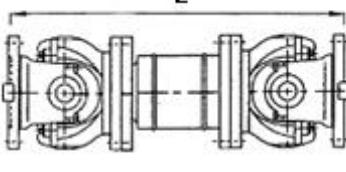
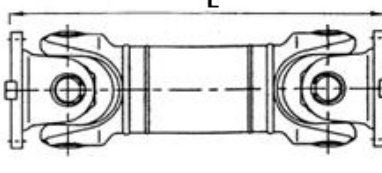


Dimensions and specifications

Dimensions & Specifications

Size Type	OD D	Normal Torque Tn kNm	Fatigue Torque Tk kNm	Axis Angle $\beta \leq$	Dimensions (mm)								
					D1	D2 (H7)	D3	L1	n-d	E	E1	b (h9)	h/2
C100 00	100	1.25	0.63	25°	84	57	60	55	6-9	7	2.5	-	-
C120 00	120	2.5	1.25	25°	102	75	70	65	8-11	8	2.5	-	-
C150 00	150	5	2.5	25°	130	90	89	80	8-13	10	3	-	-
C160 00	160	10	5	25°	140	95	108	90	6-13	16	4	20	6
C180 00	180	12.5	6.3	25°	155	105	114	110	8-17	17	5	-	-
C200 00	200	26	13	15°	175	125	127	115	8-17	17	5	28	8
C225 00	225	40	20	15°	196	135	152	120	8-17	20	5	32	9
C250 00	250	63	31.5	15°	218	150	168	140	8-19	25	6	40	12.5
C285 00	285	90	45	15°	245	170	194	160	8-21	27	7	40	15
C315 00	315	125	63	15°	280	185	219	180	10-23	32	8	40	15
C350 00	350	180	90	15°	310	210	267	194	10-23	35	8	50	16
C390 00	390	250	125	Angle	345	235	267	215	10-25	40	8	70	18
C440 00	440	355	180	15°	390	255	325	260	16-28	42	10	80	20
C490 00	490	500	250	15°	435	275	325	270	16-31	47	12	90	22.5
C550 00	550	710	355	15°	492	320	426	305	16-31	50	12	100	22.5
C620 00	620	1000	500	15°	555	380	426	340	10-38	55	12	100	25

Other Types

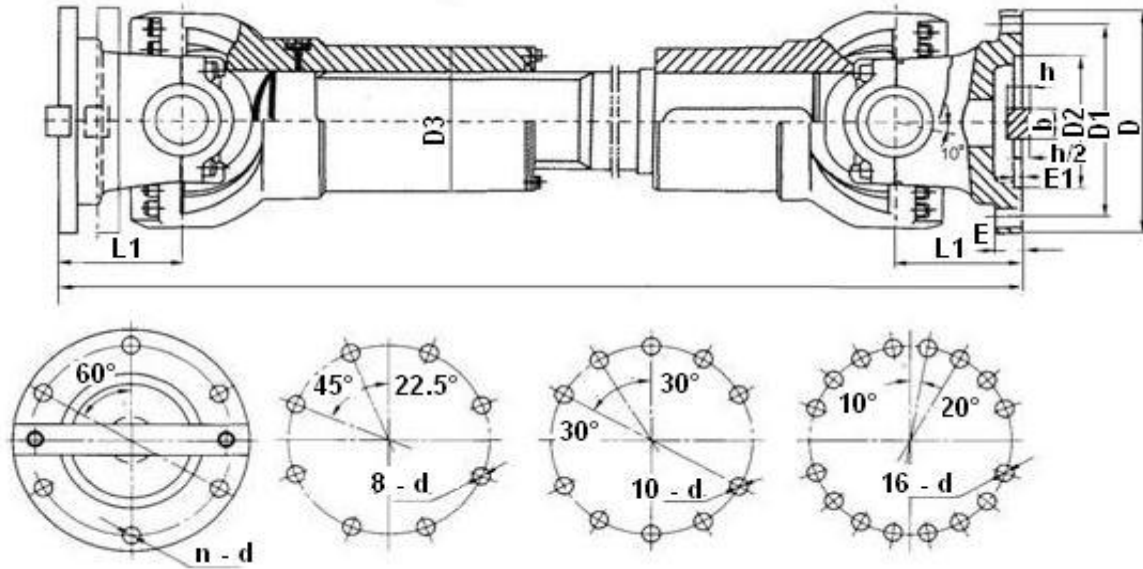
Type 01	Longer Length - Splined	
Type 02	Shorter Length - Splined	
Type 03	Double Flange - Fixed Length	
Type 04	Bolt On Flange Longer Length - splined	
Type 05	Bolt On Flange Fixed length	
Type 06		

Other Type	Dimensions	Size													
		C100	C120	150	180	225	250	285	315	350	390	440	490	550	C620
00	Min Length Lmin	410	485	590	860	920	1035	1190	1315	1410	1590	1875	1985	2300	2350
	Compensation LS*	55	80	80	100	140	140	140	140	150	170	190	190	240	250
	Weight (kg)	7	12	26	75	130	180	273	389	601	758	1210	1602	2503	3100
01	Min Length Lmin	-	-	-	810	920	1035	1190	1315	1410	1590	1875	1985	2300	2500
	Compensation LS*	-	-	-	100	140	140	140	140	150	170	190	190	240	240
	Weight (kg)	-	-	-	90	148	210	315	440	662	857	1380	1731	2667	3367
02	Min Length Lmin	-	-	-	550	640	735	880	980	1070	1200	-	-	-	-
	Compensation LS*	-	-	-	40	70	70	80	90	90	90	-	-	-	-
	Weight (kg)	-	-	-	62	102	148	240	350	500	655	-	-	-	-
03	Min Length Lmin	-	-	-	925	1080	1215	1475	1600	1715	1845	2110	2220	2585	-
	Compensation LS*	-	-	-	200	200	300	400	400	400	400	400	400	500	-
	Weight (kg)	-	-	-	103	180	230	350	510	820	960	1530	1760	3000	-
04	Min Length Lmin	243	307	350	480	520	620	720	805	875	955	1155	1205	1355	1600
	Weight (kg)	5	8.5	20	52	85	144	215	302	715	566	870	1140	1630	2350
05	Min Length Lmin	-	-	-	560	610	715	810	915	980	1100	1290	1360	1510	1690
	Weight (kg)	-	-	-	58	104	150	240	332	452	668	980	1274	1763	2442
06	Min Length Lmin	-	-	-	440	480	560	640	720	776	860	1040	1080	1220	1360
	Weight (kg)	-	-	-	60	90	140	201	291	395	554	854	1156	1624	2220

* Ls and other dimensions, refer to drawing on basic unit.

Basic Type

P□□□ - 00



Dimensions & Specifications

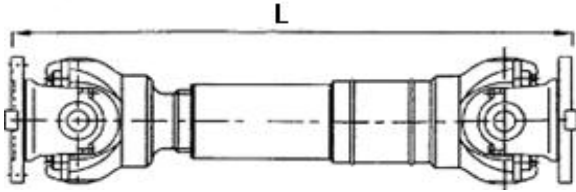
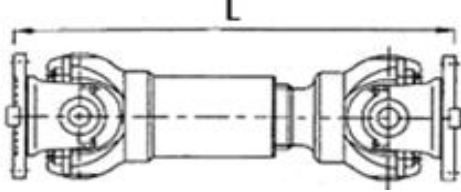
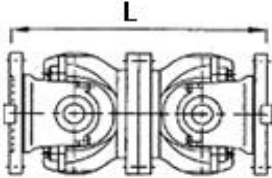
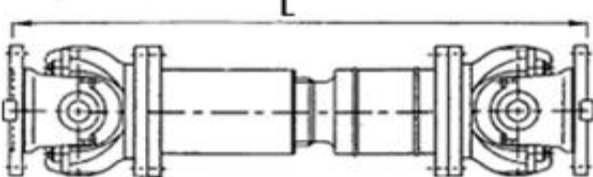
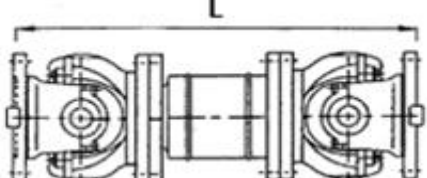
Size Type	OD D	Nominal Torque Tn kNm	Fatigue Torque Tk kNm	Axis Angle $\beta \leq$	Standard Compensation S	Dimensions (mm)								
						D1	D2 (H7)	D3	E	E1	b x h	S/2	L1	n - d
P160 00	160	16	8	10°	50	140	95	114	15	4	20x12	6	85	6-13
P180 00	180	20	10	10°	60	155	105	121	15	4	24x14	7	95	6-15
P200 00	200	31.5	16	10°	70	175	125	127	17	5	28x16	8	110	8-15
P225 00	225	40	20	10°	75	196	135	152	20	5	32x18	9	130	8-17
P250 00	250	63	31.5	10°	80	218	150	168	25	5	40x25	12.5	135	8-19
P285 00	285	90	45	10°	100	245	170	194	27	7	40x30	15	150	8-21
P315 00	315	126	63	10°	110	280	185	219	32	7	40x30	15	170	10-23
P350 00	350	180	90	10°	120	310	210	245	35	8	50x32	16	185	10-23
P390 00	390	250	120	10°	120	345	235	273	40	8	70x36	18	205	10-25
P435 00	435	355	160	10°	150	385	255	299	42	10	80x40	20	235	16-28
P480 00	480	450	224	10°	170	425	275	351	47	12	90x45	22.5	265	16-31
P550 00	550	710	355	10°	190	492	320	402	50	12	100x45	22.5	290	16-31
P600 00	600	1000	500	10°	210	544	380	450	55	15	90x55	27.5	330	22-34
P640 00	640	1250	630	10°	230	575	385	480	60	15	100x60	30	350	18-38

Flange diameter of both ends of couplings are similar to gyration diameter.

Flange diameter may further increase upon customer's requests.

Couplings with excessive extension length may be manufactured upon customer's requests.

Other Types

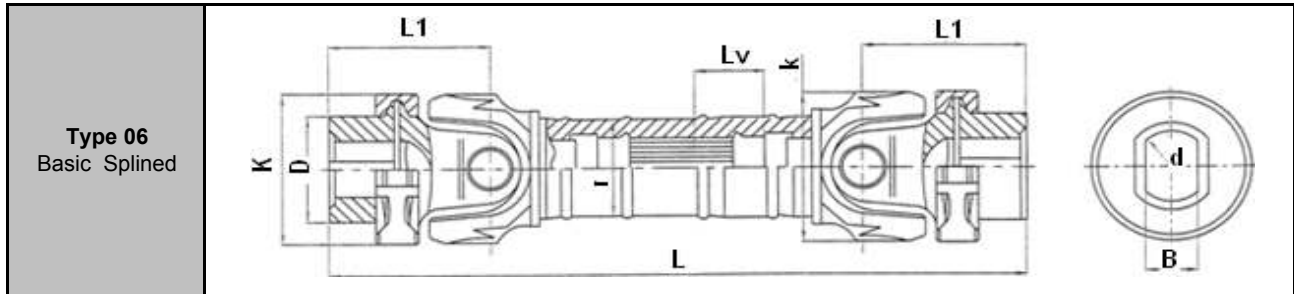
Type 01	Longer Length - Splined	
Type 02	Shorter Length - Splined	
Type 03	Double Flange - Fixed Length	
Type 04	Bolt On Flange Longer Length - Splined	
Type 05	Bolt On Flange Fixed Length	

Other Type	Dimensions	Size													
		160	180	200	225	250	285	315	350	390	435	480	550	600	640
00	Lmin	610	700	780	928	958	1103	1240	1400	1480	1740	1940	2125	2400	2700
	Weight G (kg)	60	75	98	135	168	273	367	515	645	1214	1497	2053	2730	3700
01	Lmin	660	737	823	933	978	1133	1250	1380	1495	1710	1910	2135	2355	2685
	Weight G (kg)	57	70	91	119	157	255	345	458	596	962	1394	1944	2530	3453
02	Lmin	585	640	730	830	860	1000	1120	1230	1310	1555	1740	1905	2100	2240
	Weight G (kg)	54	66	85	116	148	249	329	438	557	953	1343	1745	2440	2850
03	Lmin	340	380	440	520	540	600	680	740	820	940	1060	1160	1320	1400
	Weight G (kg)	38	50	70	90	130	185	250	330	472	760	1000	1400	1480	2700
04	Lmin	430	474	544	636	690	760	860	940	1060	1180	1360	1460	1720	1790
	Weight G (kg)	45	57	77	104	155	220	291	375	531	855	980	1700	2343	3240
05	Lmin	715	800	880	1000	1055	1210	1345	1480	1630	1860	2122	2338	2640	2960
	Weight G (kg)	59	79	95	121	189	305	395	518	693	1267	1452	2260	2820	3921

*Other dimensions, refer to drawing on basic unit.

Coupling End Type

A □ □ □ - 06

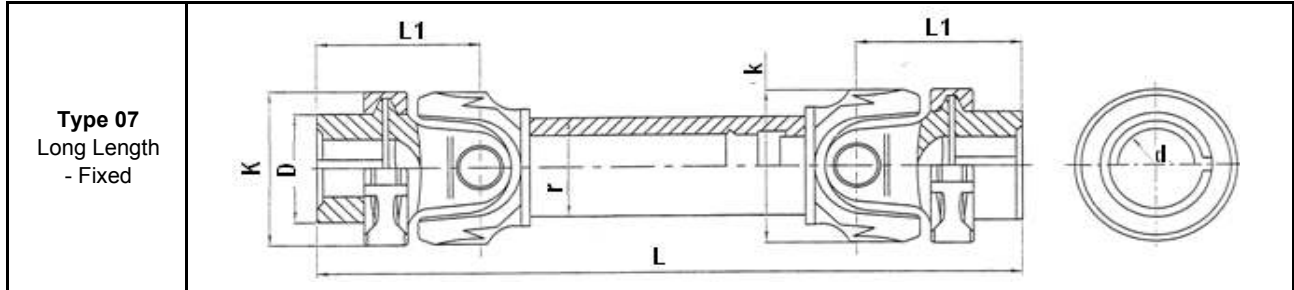


Dimensions & Specifications

Size Type	Length	kNm		Max Obliquity ≥ β	Kgm ²		Dimension (mm)						
	L min	Nominal Torque M2	Fatigue Torque M1		Rotary inertia J	+100mm Increment ΔJ	D	ØK	Lv	L1	d max H9	B max H9	Ør
C150 06	743	10	4.5	25°	0.076	0.0018	110	150	-45	195	75	60	93
C180 06	748	23	10	25°	0.14	0.0033	125	180	-55	250	85	70	114
C200 06	875	32	15	25°	0.273	0.0046	145	200	-60	300	100	80	136
C225 06	915	45	23	25°	0.548	0.0235	155	225	-70	305	110	90	155
C250 06	1030	64	28	15°	0.985	0.0279	170	250	-85	330	120	100	175
C285 06	1086	100	50	15°	2.051	0.0520	200	285	-100	380	140	110	194
C315 06	1186	143	71	15°	3.677	0.0802	220	315	-110	440	160	130	219
C350 06	1310	200	100	15°	7.194	0.1419	260	350	-120	500	190	150	245
C390 06	1584	275	138	15°	12.407	0.2232	285	390	-130	525	220	180	273
C440 06	1870	400	200	15°	21.848	0.4791	325	440	-170	615	250	200	325
C490 06	1978	525	263	15°	34.174	0.7366	360	490	-170	680	280	220	351
C550 06	2290	750	375	15°	70.147	1.3706	410	550	-195	720	320	260	426
C600 06	3110	1140	670	15°			445	600	-160	830	340	270	508

Coupling End Type

A□□□ - 07

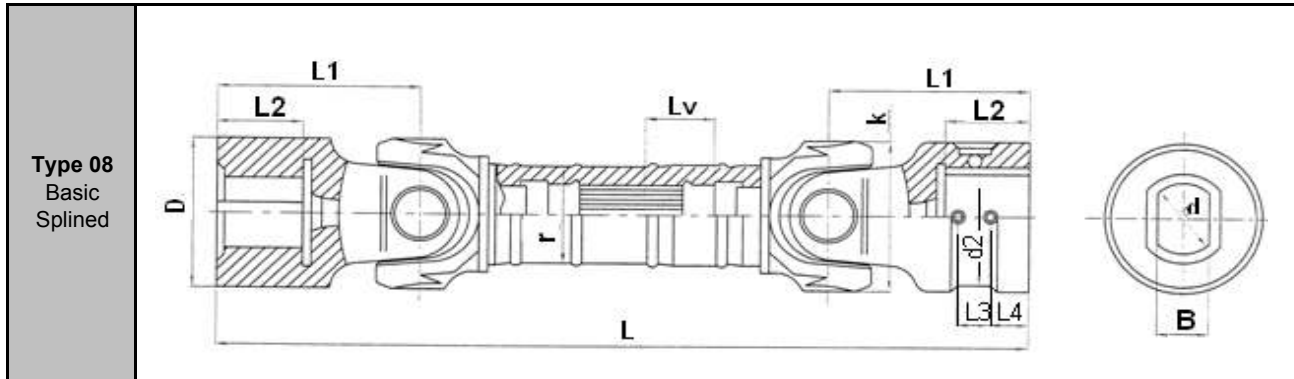


Dimensions & Specifications

Size Type	Length	kNm		Max Obliquity ≥ β	Kgm ²		Dimension (mm)					
	L min	Nominal Torque M2	Fatigue Torque M1		Rotary inertia J	+100mm Increment ΔJ	D	ØK	L1	d max H9	L1 max	Ør
C150 07	448	10	4.5	25°	0.076	0.0018	110	150	195	75	107	93
C180 07	498	23	10	25°	0.14	0.0033	125	180	250	85	132	114
C200 07	515	32	15	25°	0.273	0.0046	145	200	300	100	167	136
C225 07	515	45	23	25°	0.548	0.0235	155	225	305	110	167	155
C250 07	615	64	28	15°	0.985	0.0279	170	250	330	120	167	175
C285 07	716	100	50	15°	2.051	0.0520	200	285	380	140	202	194
C315 07	800	143	71	15°	3.677	0.0802	220	315	440	160	242	219
C350 07	870	200	100	15°	7.194	0.1419	260	350	500	190	282	245
C390 07	950	275	138	15°	12.407	0.2232	285	390	525	220	282	273
C440 07	1150	400	200	15°	21.848	0.4791	325	440	615	250	330	325
C490 07	1198	525	263	15°	34.174	0.7366	360	490	680	280	380	351
C550 07	1347	750	375	15°	70.147	1.3706	410	550	720	320	380	426
C600 07	1860	1140	670	15°			445	600	830	340	450	508

Rigid Flange Type

A □ □ □ - 08

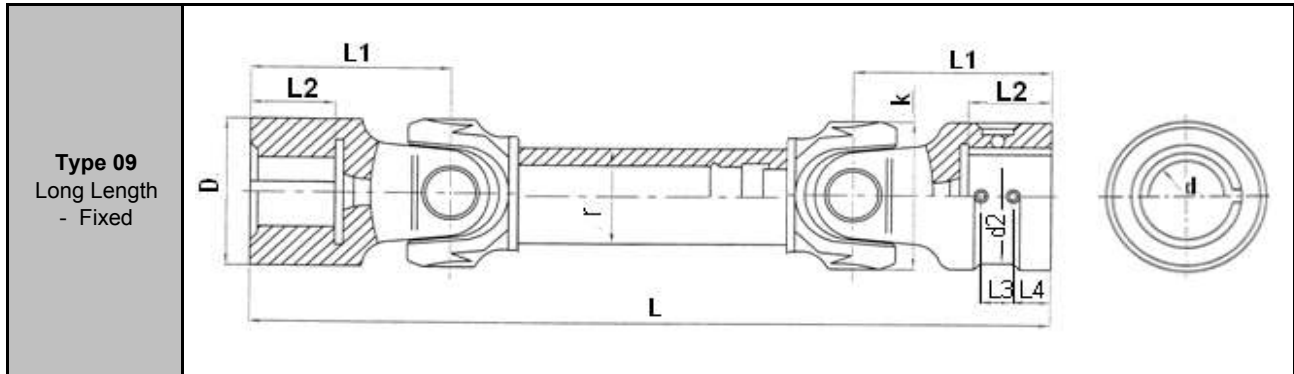


Dimensions & Specifications

Size Type	Length	kNm		Max Obliquity $\geq \beta$	Kgm ²		Dimension (mm)										
	L min	Nominal Torque M2	Fatigue Torque M1		Rotary inertia J	+100mm Increment ΔJ	D	$\varnothing K$	Lv	L1	d max H9	B max H9	L2	L3	L4	d2	$\varnothing r$
C150 08	1055	10	4.5	25°	0.100	0.0018	150	150	-110	230	100	80	167	40	100	140	93
C180 08	1060	23	10	25°	0.185	0.0034	180	180	-110	246	120	100	167	40	110	40	110
C200 08	1240	32	15	15°	0.362	0.0046	200	200	-120	300	140	110	202	45	140	45	136
C225 08	1360	45	23	25°	0.758	0.0235	225	225	-140	340	160	130	242	50	150	50	155
C250 08	1465	64	28	15°	1.232	0.0279	250	250	-140	355	180	140	242	50	160	50	175
C285 08	1700	100	50	15°	2.754	0.0520	285	285	-140	415	200	160	282	60	180	60	194
C315 08	1815	143	71	15°	4.795	0.0802	315	315	-140	430	220	186	282	60	200	60	219
C350 08	2000	200	100	15°	9.602	0.1419	350	350	-150	490	250	200	330	70	240	70	245
C390 08	2270	275	138	15°	16.652	0.2232	390	390	-170	555	300	240	380	75	280	75	273

Rigid Flange Type

A - 09

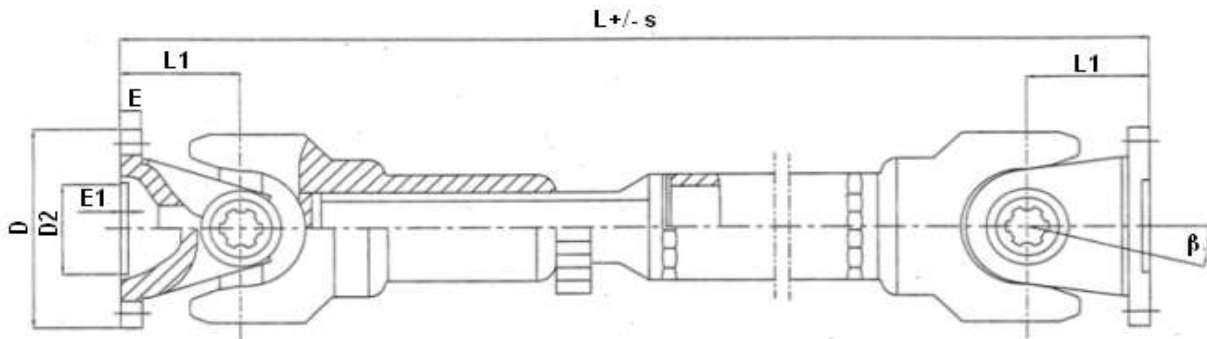


Dimensions & Specifications

Size Type	Length	kNm		Max Obliquity ≥ β	Kgm ²		Dimension in mm								
	L min	Nominal Torque M2	Fatigue Torque M1		Rotary inertia J	+100mm Increment ΔJ	D	ØK	L1	d max H9	L max	L3	L4	d2	Ør
C150 09	760	10	4.5	25°	0.100	0.0018	150	150	230	100	167	40	100	140	93
C180 09	800	23	10	25°	0.185	0.0034	180	180	246	120	167	40	110	40	110
C200 09	880	32	15	15°	0.362	0.0046	200	200	300	140	202	45	140	45	136
C225 09	960	45	23	25°	0.758	0.0235	225	225	340	160	242	50	150	50	155
C250 09	1050	64	28	15°	1.232	0.0279	250	250	355	180	242	50	160	50	175
C285 09	1230	100	50	15°	2.754	0.0520	285	285	415	200	282	60	180	60	194
C315 09	1305	143	71	15°	4.795	0.0802	315	315	430	220	282	60	200	60	219
C350 09	1465	200	100	15°	9.602	0.1419	350	350	490	250	330	70	240	70	245
C390 09	1635	275	138	15°	16.652	0.2232	390	390	555	300	380	75	280	75	273

Light Duty Type

L□□□ - 00



Size Type	Unit			Flange Bolt Hole (Avg) h-d	Center of flange bolt hole D1	D2	E	E1	L1	Compensation length L +/- s	Lmin
	mm	Nm	≥°								
L060 00	60	250	25	6-Ø7	45	20	6	3	40	20	280
L080 00	80	450	25	6-Ø7	65	35	8	3	45	30	360
L100 00	100	1150	25	6-Ø9	84	50	9	3	55	35	480
L120 00	120	2000	20	8-Ø11	101.5	75	10	3.5	70	37	520
L140 00	140	3000	20	8-Ø13	120	75	12	3.5	78	40	570
L150 00	150	4500	20	8-Ø13	130	90	12	3.5	80	40	650

**Flange Adaptors
Flange Connectors**

The universal joint shaft is usually connected to the flange adaptor at both ends by either bolting or flanging output yoke flanges to the flange connectors. There are basically four (4) types of connecting adaptors available



A : Bolt Hole



B: Slot Keys



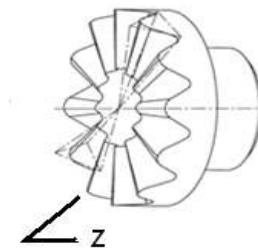
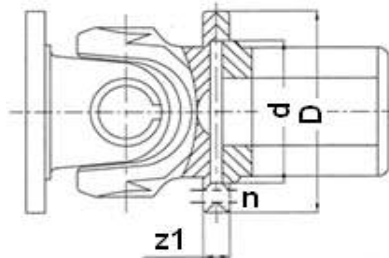
C: Jaws Type



C: Girth Gear Type

Upon request of flange connections, please indicate your designated choice.

Flange Connectors



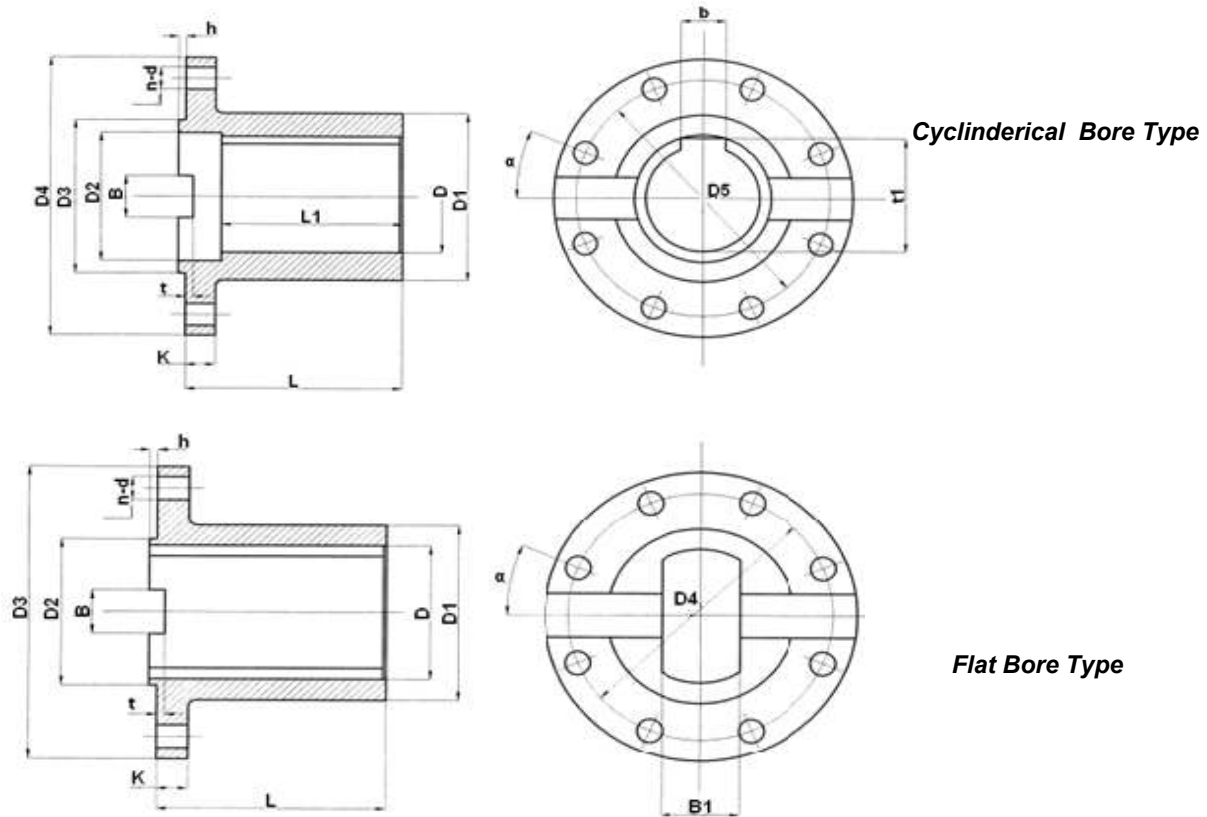
Dimension

Dimension	Size										
	180	225	250	285	315	350	390	440	490	550	620
Overall Flange Dia D	180	225	250	285	315	350	390	440	490	550	620
Gear Face Internal Dia d	140	180	200	225	250	280	315	350	380	440	500
No. Of bolt/nut n	4xM16	4xM16	4xM18	4xM20	4xM22	6xM22	6xM24	6xM27	8xM30	8xM30	8xM36
No. Of Teeth Z	36	48	48	60	60	72	72	96	96	96	120
Thickness z1	28	35	45	50	58	65	74	80	87	92	104

**Flange Adaptors
Flange Connectors**

Flange Conectors

Companies flange connectors are provided separately upon request. Customers will need to submit drawings, or provide details for customized designs. Please fill in the required dimensions as belows:

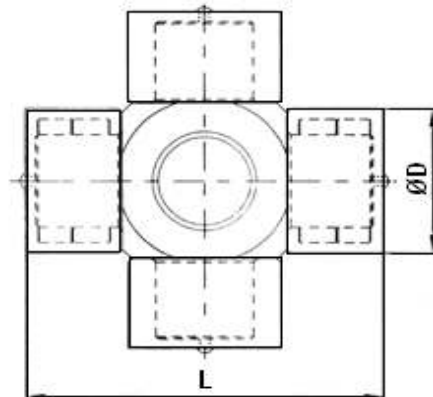


For both Standard Cylindrical Bore and Flat Bore Type

Type	D	D1	D2	D3	D4	D5	L	L1	K	h	t	t1	B	B1	b	n-d	α
100																	
120																	
150																	
160																	
180																	
200																	
225																	
250																	
285																	
315																	
350																	
390																	
440																	
550																	
620																	

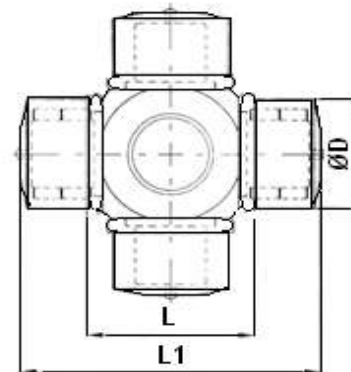
* Customers will fill up the dimensions and submit for request.

Cross Journal



Cross Journal For Series C

Dimensions	Size - Series C													
	C100	C120	C150	C180	C200	C225	C250	C285	C315	C350	C390	C440	C490	C550
Diameter of Flange	100	120	150	180	200	225	250	285	315	350	390	440	490	550
D	38	45	55	75	81	90	95	110	120	135	160	180	200	225
L	83	101	128	152.5	174	191	217	247	275	307	334	377	421	471



Cross Journal For Series P

Dimensions	Size - Series C											
	P160	P180	P200	P225	P250	P285	P315	P350	P390	P435	P480	P550
Diameter of Flange	160	180	200	225	250	285	315	350	390	435	480	550
D	52	60	66	74	83	95	110	120	130	154	170	195
L	98	108	118	132	140	160	176	196	216	250	276	315
L 1	156	174	194	218	244	276	306	339	380	424	470	535

Proper installation, correct application and regular maintenance are important so that the universal joint can achieve its maximum efficiency and life expectation.

Transportation and Storage

1. Carden shaft with spline connection must be laid in a horizontal position during transportation. If the universal joint is transported in a vertical position, then extra packing to protect against damages on the bearings and extra care is required to avoid damages during handling. Product should be stored in a dry place without exposing to sunlight and rain.

2. When lifting, it is recommended that a nylon rope tied on both end of the yokes to prevent the spline elements from sliding apart.

Installations and usage

1. Be sure that carden shaft are arranged in order and axles are kept in the same phase. Either ends can be set as master or slave. However, it is recommended that the matching point of splines are kept away from sources of vibrations and shocks.

2. Before installations, removed all oil and paint stains, and ensure the surface of all flanges are free from residue, anti corrosion agent etc and clean.

3. The arrows (sometime painted in red) marking on spline shaft and spline housing should be aligned.

4. No 242 anaerobic adhesive must be carefully added at the threads whilst tightening.

5. If universal joint is stored for a long period of time, it should be regreased before being put into operation.

6. Do not rotate the universal joint with assembly levers in the joint because this will damage the joints, grease nipples where fitted.

7. Nuts and bolts are of correct size and evenly tightened crosswise and locked to it recommended tightening torque value.

8. Connecting flange must be checked for it concentricity, radial runout and fits shaft.

Maintenance and overhaul

1. Regular inspection is required and the interval should follow the general maintenance works schedule by the engineer, However, it is recommended that an inspection to be conducted once a year.

2. Check the bolts for tightness and retighten them with the prescribed torque. If necessary, replace it with new one. Bolts should be only slightly oiled and lubricants containing MOS 2 additives or similar must not be used.

3. Check if lubrication schedule is being maintained.

4. Backlash inspection. Lift the universal joint and check the joint and the length compensation for visible or tangible backlash. If there is any perceptible play, repair is necessary.

5. Check for unusual noise, vibration or abnormal behaviour and repair the damages.

6. The universal joint should be greased with a Lithium based grease with EP additives. Grease nipples must be cleaned before greasing and the maximum greasing pressure is 15bar.

7. The grease areas of the carden shaft are the drive shaft, the universal joint and the splined sleeve. **Important : The lubrication of the splined sleeve should be carried out with the drive shaft fully compressed to prevent excessive axial force developing.**

8. Overhaul period is 6-12 months. Wear and indentation of bearings and cross axles must be examined. If wear and indentation exceeds 0.25mm, replacement should be done.



Double Engagement Torque

Torque Rating : Up to 4000Kn

Max. Bore : Up to 1040mm



Single Engagement Torque

Torque Rating : Up to 4000Kn

Max. Bore : 104mm



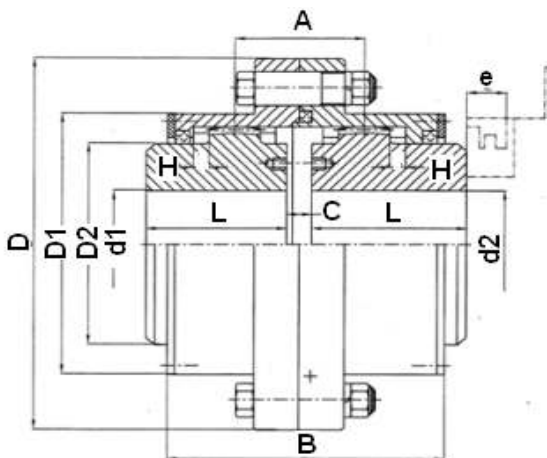
Taper Bore - For Mill Application

Torque Rating : Up to 45Kn

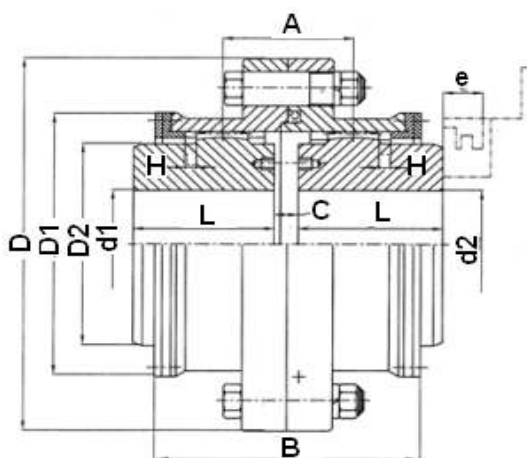
Max. Bore : 200mm



CL Type - Double Engagement



Model G2 Size 01 to Size 13



Model G2 Size 14 to Size 25

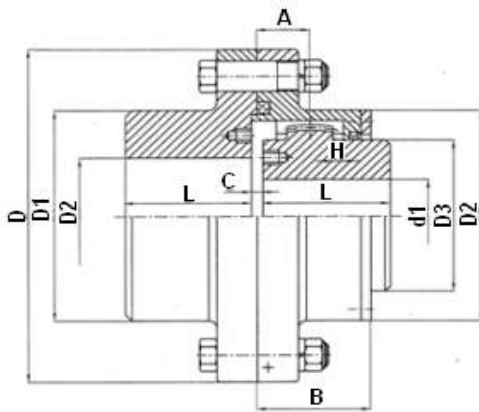
Dimensions & Specifications

Model	Nominal Torque T _n kNm	Max speed rpm	Bore Dia min - max	Hub Length Range L	D	D1	D2	C	H	A	B	e	Grease Vol. ml	Wt kgs	Inertia kgm ²
G2 CL 01	0.355	4000	16-35	38-60	103	71	50	8	2	36	76	38	51	5.1	0.015
G2 CL 02	0.63	4000	20-45	44-112	115	83	60	8	2	42	88	42	70	6.2	0.027
G2 CL 03	1	4000	22-55	44-112	127	95	75	8	2	44	90	42	78	8.6	0.045
G2 CL 04	1.6	4000	38-65	82-142	149	116	90	8	2	49	98	42	87	14.5	0.098
G2 CL 05	2.8	4000	40-75	84-142	167	134	105	10	2.5	55	108	42	125	19.6	0.173
G2 CL 06	4.5	4000	45-90	84-172	187	153	125	10	2.5	56	110	42	148	31.2	0.337
G2 CL 07	6.3	3750	50-105	84-212	204	170	140	10	2.5	60	118	42	175	47.5	0.602
G2 CL 08	9	3300	55-115	84-212	230	186	155	12	3	67	142	47	268	60.2	0.964
G2 CL 09	14	3000	60-135	107-252	256	212	180	12	3	69	146	47	310	95.8	1.878
G2 CL 10	20	2650	65-150	107-252	287	239	200	14	3.5	78	164	47	472	119	2.981
G2 CL 11	31.5	2350	70-175	107-302	325	276	235	14	3.5	81	170	47	550	189	6.35
G2 CL 12	45	2100	75-200	107-352	362	313	270	16	4	89	190	49	695	285	12.22
G2 CL 13	63	1850	150-225	202-352	412	350	300	18	4.5	98	208	49	1019	360	19.67
G2 CL 14	100	1650	170-250	242-410	462	420	335	22	5.5	172	296	63	3900	544	38.9
G2 CL 15	160	1500	190-285	282-470	512	470	380	22	5.5	182	316	63	4000	786	69.8
G2 CL 16	224	1300	220-320	282-470	580	522	430	28	7	209	354	67	4500	1027	116.4
G2 CL 17	315	1200	250-365	330-550	644	582	490	28	7	198	364	67	4900	1532	214.9
G2 CL 18	450	1050	280-400	380-650	726	658	540	28	8	222	430	75	7000	2278	398
G2 CL 19	630	950	300-470	380-650	818	748	630	32	8	232	440	75	8900	3026	702
G2 CL 20	900	800	360-540	450-800	928	838	720	32	10.5	247	470	75	11000	4430	1443
G2 CL 21	1250	750	400-600	540-800	1022	928	810	40	11.5	255	490	75	13000	6152	2246
G2 CL 22	1600	650	450-680	540-900	1134	1036	915	40	13	262	510	75	16000	7738	3619
G2 CL 23	2240	600	530-770	680-900	1282	1178	1030	50	14.5	299	580	80	28000	11553	6900
G2 CL 24	3150	550	560-850	680-1000	1428	1322	1175	50	16.5	317	610	80	33000	16615	12527
G2 CL 25	4000	460	670-1040	780-1000	1644	1538	1390	50	19	325	620	80	43000	27797	28793

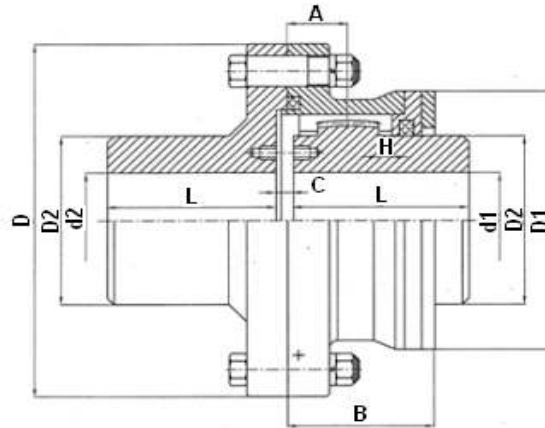
*Diameters and length are on customer's requirements.

**"e" is the required dimension for seal changing.

CS Type - Single Engagement



Model G2 Size 01 to Size 13

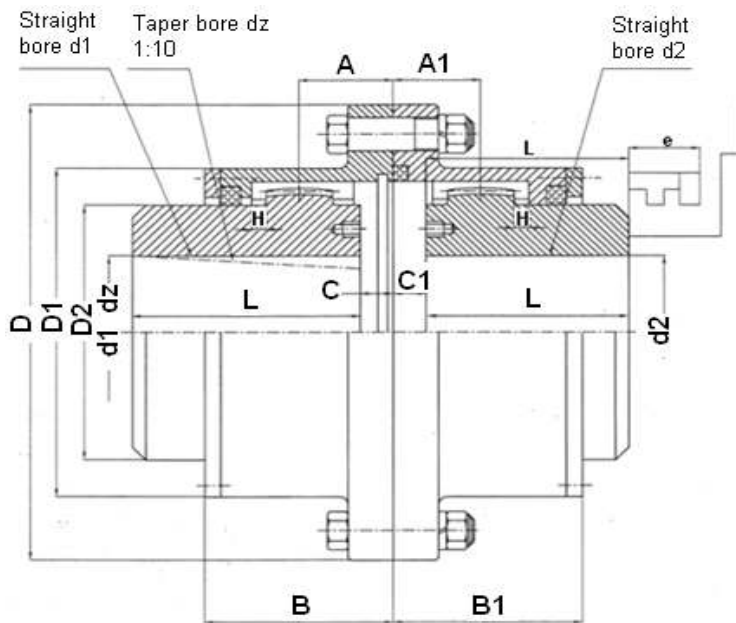


Model G2 size 14 to Size 25

Dimensions & Specifications

Model	Nom. Torque Tn kNm	Max speed rpm	Bore Dia min - max		Hub Length Range L	D	D1	D2	D3	C	H	A	B	Grease Vol. ml	Wt kgs	Inertia kgm ²
			d1	d2												
G2 CS 01	0.355	4000	16-35	16-50	38-112	103	71	71	50	8	2	18	38	5.7	5.7	0.028
G2 CS 02	0.63	4000	20-45	20-60	44-142	115	83	83	60	8	2	21	44	9.2	9.2	0.04
G2 CS 03	1	4000	22-55	22-70	44-142	127	95	95	75	8	2	22	45	12.5	12.5	0.067
G2 CS 04	1.6	4000	38-65	38-80	82-172	149	116	116	90	8	2	24.5	49	19.4	19.4	0.195
G2 CS 05	2.8	4000	40-75	40-90	84-172	167	134	134	105	10	2.5	27.5	54	28.5	28.5	0.25
G2 CS 06	4.5	4000	45-90	45-105	84-212	187	153	153	125	10	2.5	28	55	36.2	36.2	0.426
G2 CS 07	6.3	3750	50-105	50-115	84-212	204	170	170	140	10	2.5	30	59	54.3	54.3	0.759
G2 CS 08	9	3300	55-115	55-125	84-212	230	186	186	155	12	3	33.5	71	67.4	67.4	1.187
G2 CS 09	14	3000	60-135	60-150	107-252	256	212	212	180	12	3	34.5	73	104.4	105	2.3
G2 CS 10	20	2650	65-150	65-150	107-252	287	239	239	200	14	3.5	39	82	133.5	134	3.74
G2 CS 11	31.5	2350	70-175	110-175	167-302	325	250	276	235	14	3.5	40.5	85	193	193	6.5
G2 CS 12	45	2100	75-200	130-200	202-352	362	286	313	270	16	4	44.5	95	290	290	12.4
G2 CS 13	63	1850	150-225	150-225	202-352	412	322	350	300	18	4.5	49	104	370	370	25.4
G2 CS 14	100	1650	170-250	170-250	242-352	462	420	335	-	22	5.5	86	148	509	509	34.4
G2 CS 15	160	1500	190-285	190-285	282-470	512	470	380	-	22	5.5	91	158	740	740	62.5
G2 CS 16	224	1300	220-320	220-320	282-470	580	522	430	-	28	7	104.5	177	974	974	105.4
G2 CS 17	315	1200	250-365	250-365	330-550	644	582	490	-	28	7	99	182	1465	1465	198
G2 CS 18	450	1050	280-400	280-400	380-650	726	658	540	-	28	8	111	215	2160	2160	362
G2 CS 19	630	950	300-470	300-470	380-650	818	748	630	-	32	8	116	220	2892	2892	645
G2 CS 20	900	800	360-540	360-540	450-800	928	838	720	-	32	10.5	123.5	235	4680	4680	1340
G2 CS 21	1250	750	400-600	400-600	540-800	1022	928	810	-	40	11.5	127.5	245	5905	5905	2111
G2 CS 22	1600	650	450-680	450-680	540-900	1134	1036	915	-	40	13	131	255	7504	7504	3409
G2 CS 23	2240	600	530-770	530-770	680-900	1282	1178	1030	-	50	14.5	149.5	290	11133	11133	6555
G2 CS 24	3150	550	560-850	560-850	680-1000	1428	1322	1175	-	50	16.5	158.5	305	16110	16110	11945
G2 CS 25	4000	460	670-1040	670-1040	780-1100	1644	1538	1390	-	50	19	162.5	310	27797	27797	28793

Taper Bore Mill Coupling LD Type

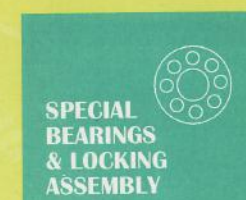
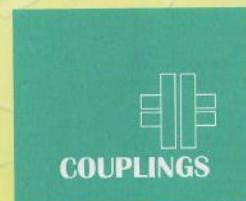
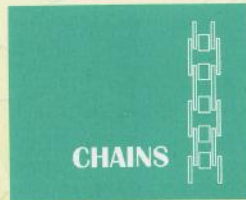
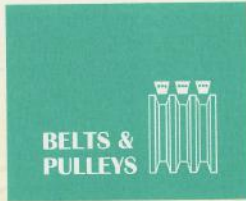
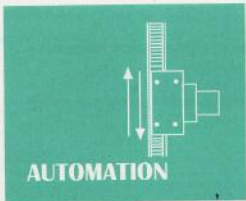


Specification

Model	Nominal Torque Tn kNm	Max speed rpm	Bore Dia Range d1, d2 & dz	Hub Length L	Grease Vol. ml	Wt kgs	Inertia kgm ²
G2 LD 03	1	4000	22-56	44-112	107	9.6	0.047
G2 LD 04	1.6	4000	38-65	84-142	137	16.4	0.106
G2 LD 05	2.8	4000	40-75	84-142	238	22.4	0.19
G2 LD 06	4.5	4000	45-90	84-172	258	35.6	0.38
G2 LD 07	6.3	3750	50-105	84-212	298	53.9	0.67
G2 LD 08	9	3300	55-115	84-212	465	67.5	1.07
G2 LD 09	14	3000	60-135	107-252	561	106.5	2.1
G2 LD 10	20	2650	65-150	107-252	734	123	3.2
G2 LD 11	31.5	2350	70-175	107-302	956	212	7
G2 LD 12	45	2100	75-200	107-352	1320	319	13.7

Dimensions

Model	D	D1	D2	C	C1	H	A	A1	B	B1	e
G2 LD 03	127	95	75	27	6	2	43	22	66	45	42
G2 LD 04	149	116	90	26.5	6.5	2	44.5	24.5	70	49	42
G2 LD 05	167	134	105	33	7	2.5	53.5	27.5	80	54	42
G2 LD 06	187	153	125	33.5	7.5	2.5	54	28	81	55	42
G2 LD 07	204	170	140	37.5	7.5	2.5	60	30	89	59	42
G2 LD 08	230	186	155	43.5	8.5	3	68.5	33.5	106	71	47
G2 LD 09	256	212	180	48	9	3	73.5	34.5	112	73	47
G2 LD 10	287	239	200	40.5	10.5	3.5	69	39	112	82	47
G2 LD 11	325	276	235	49.5	9.5	3.5	80.5	40.5	125	85	47
G2 LD 12	362	313	270	65	11	4	98.5	44.5	149	95	49



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