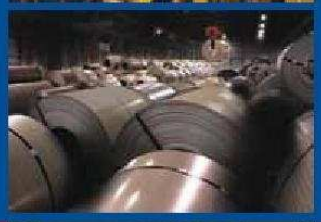
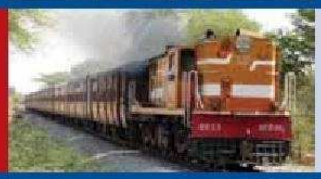


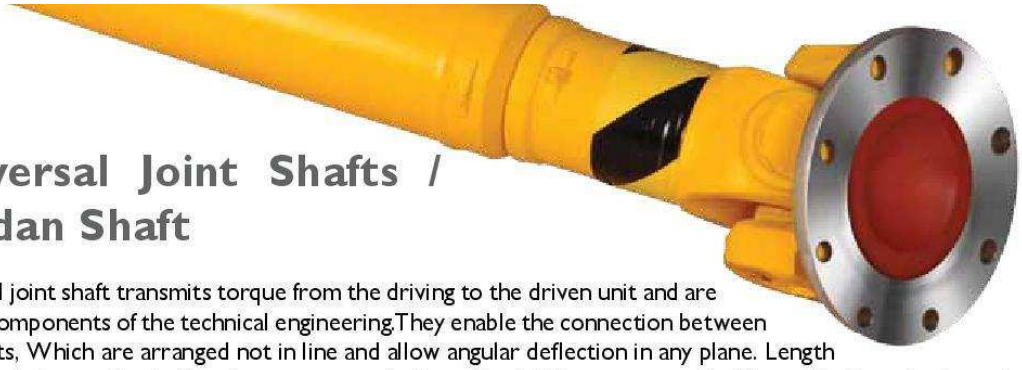


Dullabh Commercials

Cardan Shafts

Complete Range Catalogue

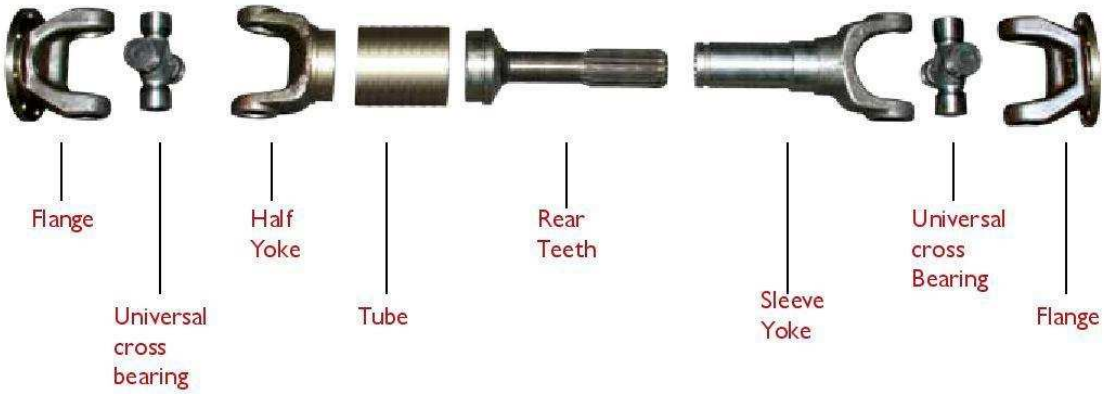
Edition 2016



Universal Joint Shafts / Cardan Shaft

Universal joint shaft transmits torque from the driving to the driven unit and are proved components of the technical engineering.They enable the connection between two shafts, Which are arranged not in line and allow angular deflection in any plane. Length variations between the shaft end are compensated by splined sliding components. The application of universal shafts will result in following cost reductions for the user :

Simplified assembly : No alignment of the units to be connected.
Economical Maintenance : High Class bearings gurantee long service life.
Production down time is reduced by simplified arrangements of total installation.

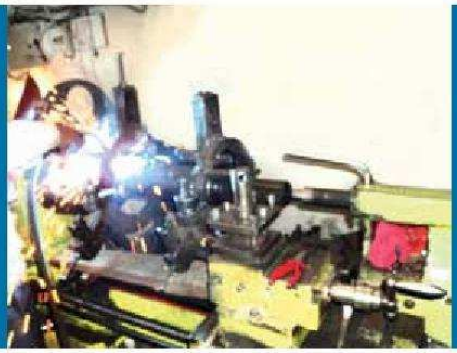


Applications of Cardan Shafts

- Steel Plants
- Rolling Mills
- Paper Machinery
- Roller Drives
- Cement Industries
- Vibrating Screens
- Mining Equipments
- Tea Machinery
- Textile Machines

Features of Cardan Shaft :

- High Quality
- 100% Forging
- 100% New Production
- Balanced
- Low maintenance
- Dimentional Accuracy



Forged Material on Arrival


Rear Teeth Forging

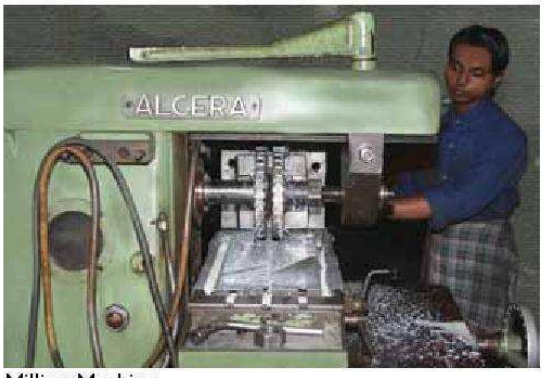

Flange Forging

Different Processes


Spline Hobbing Machine


Drilling Machine


Broaching Machine



Milling Machine

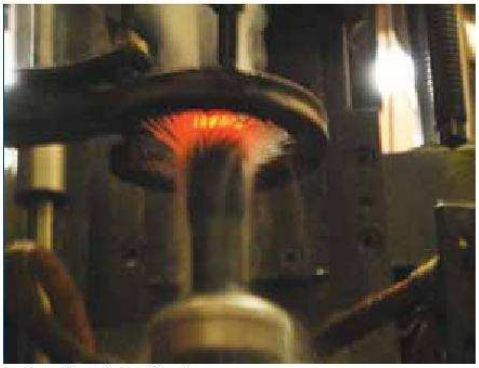

UJ Cross Grinding

Quality Management system

Micro Structure Testing Equipment

Chemical Compossition Testing Equipment

Annealing Plant



Induction Hardening

Stock is always ready for you

Universal Shafts

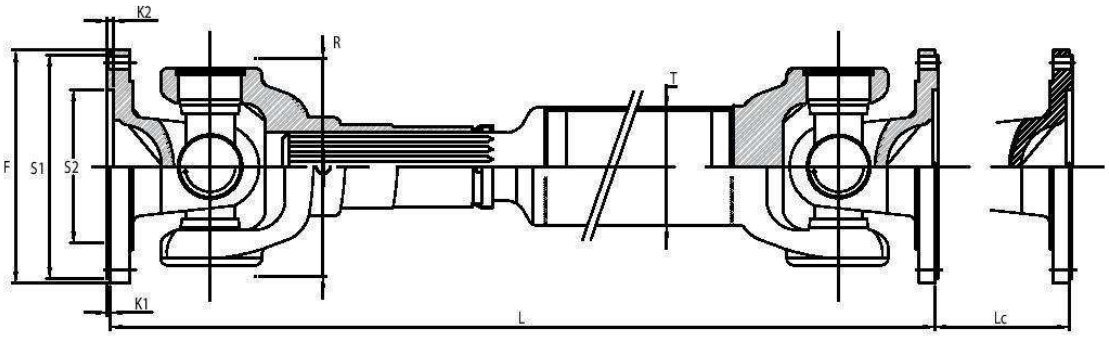
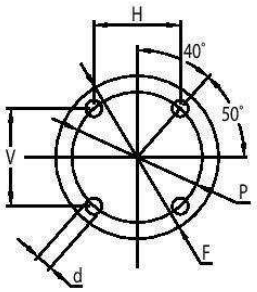


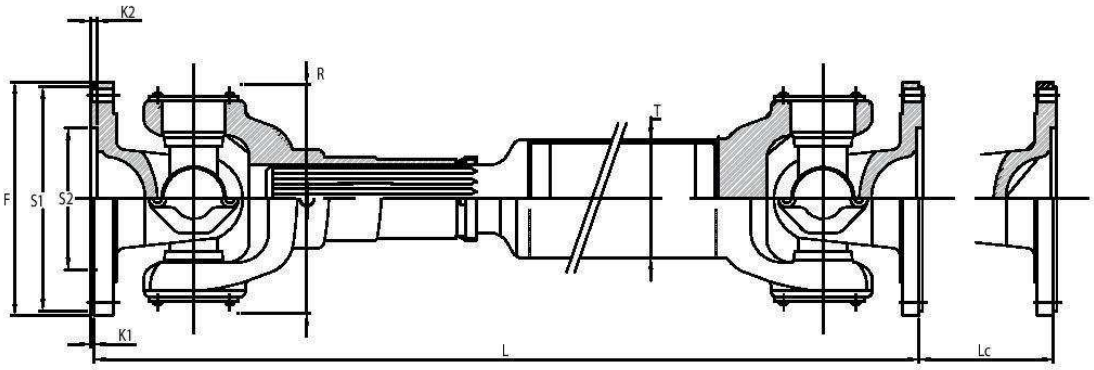
Diagram A

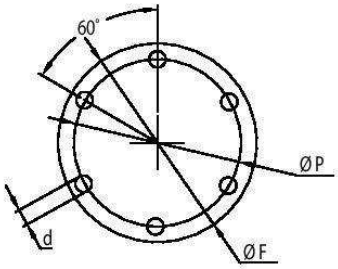
4- Hole Design

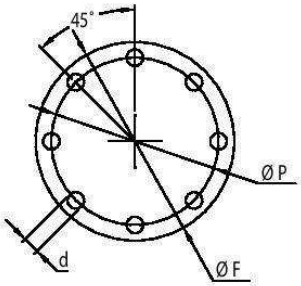


Model No	DC58	DC65	DC75	DC90	DC86	DC90	DC97	DC100	DC120H	DC146
Refrence Diagram	A	A	A	A	A	A	A	A	A	A
Max Torque (Nm)	250	360	410	500	570	750	770	1350	2600	3300
Rotation Dia {R} (mm)	60	68	74	89	82	100	98	102	110	137
Flange Dia {F}(mm)	58	65	75	90	86	90.5	97	100.5	120	146
PCD {P}(mm)	47	52	62	74	69.9	74.5	79.4	83.8	101.6	120.7
No of Hole {n}	4	4	6	4	4	6	4	6	6	4
Hole Dia {d}(mm)	5	5	6	8	8	10	9.9	8.1	10.15	12.8
Spigot Dia Male = S1(mm)	NIL	NIL	NIL	NIL	57	NIL	60.1	57	82.5	95.2
Spigot Dia Female = S2(mm)	30	35	42	48	NIL	47	NIL	NIL	NIL	NIL
Flange Spigot Thickness = K1(mm)	2	2	2	2	2	NIL	2	2	2	2
Flange Spigot { Depth = K2 }(mm)	NIL	NIL	NIL	NIL	NIL	2	NIL	NIL	NIL	NIL
Angular Movement	20	20	20	20	14°	20°	20°	20°	20°	18°
Length Compensation {Lc}(mm)	50	50	50	50	43	53	51	53	74	70
Tube Dia {T}(mm)	35	38	63.5	63.5	63.5	60.3	63.5	60.3	70	76
Min Compressed Length {L min}(mm)	200	200	250	250	260	400	333	374	465	464
Max Compressed Length {L max}(mm)	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000

Universal Shafts



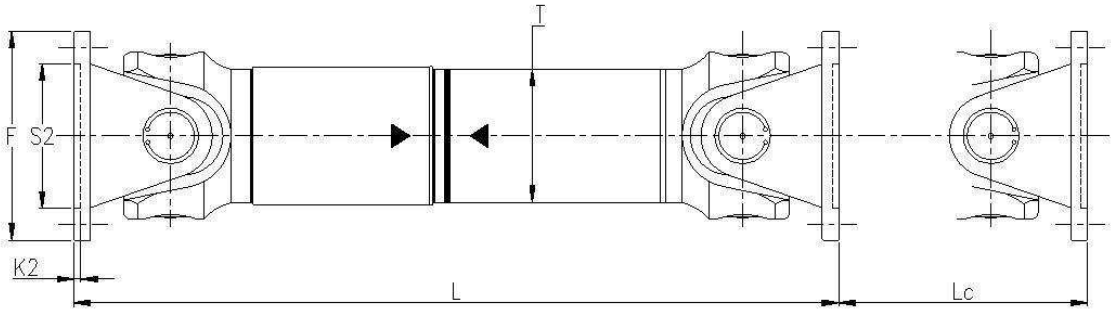




6- Hole Design

8- Hole Design

Model No	DC146R	DC150	DC165	DC175	DC 180	DC200H	DC225	DC230	DC240
Refrence Diagram	A	A	B	A	B	B	B	B	B
Max Torque (Nm)	3300	3800	7500	4050	10000	12000	14000	14000	16000
Rotation Dia {R} (mm)	148	152	176	159	176	183	183	183	183
Flange Dia {F}(mm)	RECT	150	165	175	180	203	230	230	240
PCD {P}(mm)	120.7	130	139.8	155.5	155.5	184	205	196	218
No of Hole {n}	4	8	8	8	8	8	8	8	8
Hole Dia {d}(mm)	12.8	12.2	16.2	9.8	12.2	10.5	12.2	16	16
Spigot Dia Male = S1(mm)	95.2	NIL	NIL	168	NIL	196.8	222.5	222.5	NIL
Spigot Dia Female = S2(mm)	NIL	90	95	NIL	110	140	140	140	140
Flange Spigot Thickness = K1(mm)	2	NIL	NIL	2	NIL	2	2	2	NIL
Flange Spigot { Depth = K2 }(mm)	NIL	3	2	NIL	4	4	4	4	4
Angular Movement	18°	18°	17°	20°	15°	15°	15°	15°	15°
Length Compensation {Lc}(mm)	70	98	95	70	95	105	105	105	105
Tube Dia {T}(mm)	88.6	101.6	101.6	89		114.3	114.3	114.3	114.3
Min Compressed Length {L min}(mm)	422	587	635	525	585	650	650	650	650
Max Compressed Length {L max}(mm)	3000	3000	3000	3000	3000	3000	3000	3000	3000



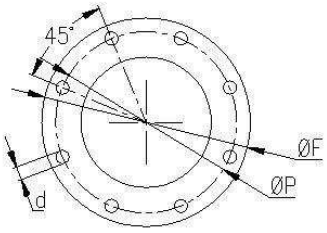
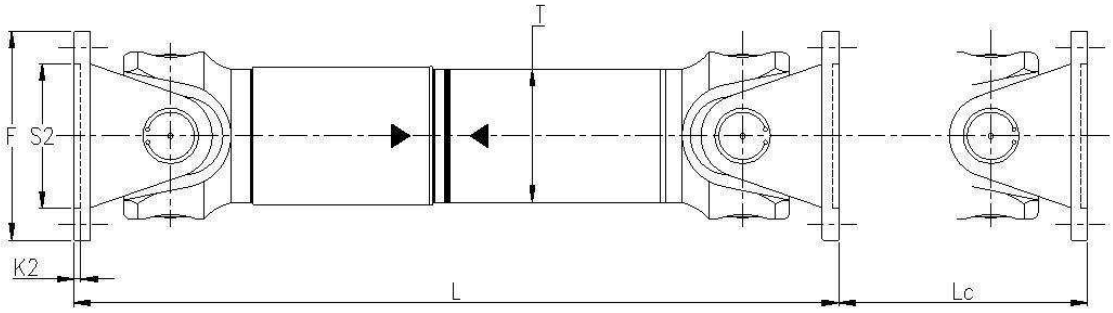


Diagram C

Model No	DC 225L	DC 250L	DC 285L	DC 315L
Refrence Diagram	C	C	C	C
Max Torque (Nm)	10000	22000	45000	65000
Flange Dia {F}(mm)	230	250	285	315
PCD{P}(mm)	196	218	245	280
No of holes {N}	8	8	8	8
Hole Dia {d}(mm)	16	18	20	22
Spigot Dia Female = S2(mm)	140	140	140	140
Flange Spigot (Depth=K2)(mm)	5	5	5	5
Angular Movement	15	15	15	15
Length Compensa-tion {Lc}(mm)	95	110	110	110
Tube Dia{T}(mm)	114	140	152	168
Min Compressed Length{Lmin}(mm)	650	745	920	1035
Max Compressed-length {Lmax}(mm)	4000	4000	4000	4000



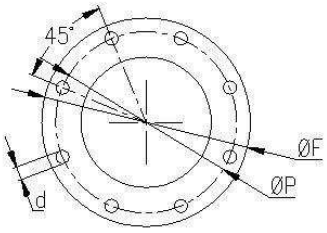
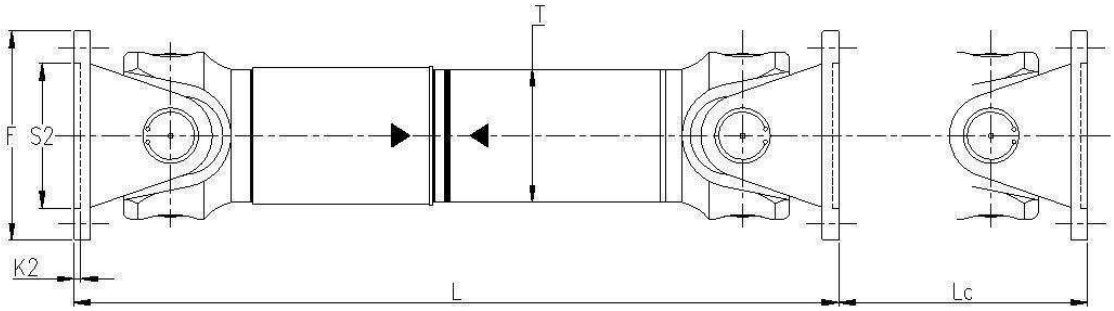


Diagram C

Model No	DC225H	DC 250H	DC 285H	DC315H
Refrence Diagram	C	C	C	C
Max Torque (Nm)	22000	45000	65000	100000
Flange Dia {F}(mm)	230	250	285	315
PCD{P}(mm)	196	218	245	280
No of holes {N}	8	8	8	8
Hole Dia {d}(mm)	16	18	20	22
Spigot Dia Female = S2(mm)	140	140	140	175
Flange Spigot (Depth=K2)(mm)	5	5	5	5
Angular Movement	15	15	15	15
Length Compensation {Lc}(mm)	110	110	110	110
Tube Dia{T}(mm)	140	152	168	194
Min Compressed Length{Lmin}(mm)	745	920	1035	1190
Max Compressedlength {Lmax}(mm)	4000	4000	4000	4000



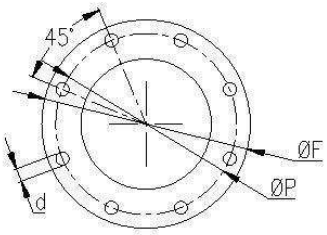
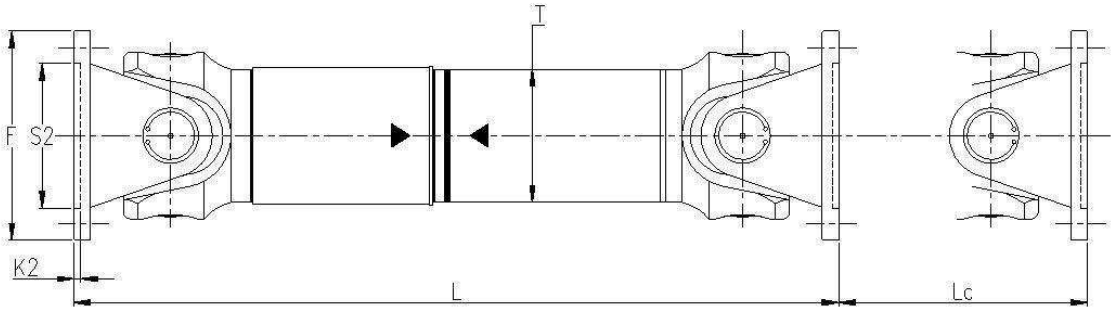


Diagram C

Model No	DC225EH	DC250EH	DC285EH	DC315EH
Refrence Diagram	C	C	C	C
Max Torque (Nm)	45000	65000	100000	140000
Flange Dia {F}(mm)	230	250	285	315
PCD{P}(mm)	196	218	245	280
No of holes {N}	8	8	8	8
Hole Dia {d}(mm)	16	18	20	22
Spigot Dia Female = S2(mm)	140	140	175	175
Flange Spigot (Depth=K2)(mm)	5	5	5	5
Angular Movement	15	15	15	15
Length Compensation {Lc}(mm)	110	110	110	110
Tube Dia{T}(mm)	152	168	194	219
Min Compressed Length{Lmin}(mm)	920	1035	1190	1315
Max Compressedlength {Lmax}(mm)	4000	4000	4000	4000



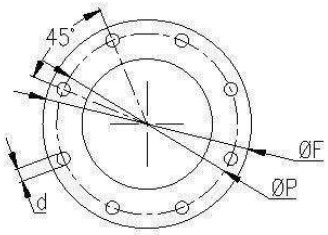
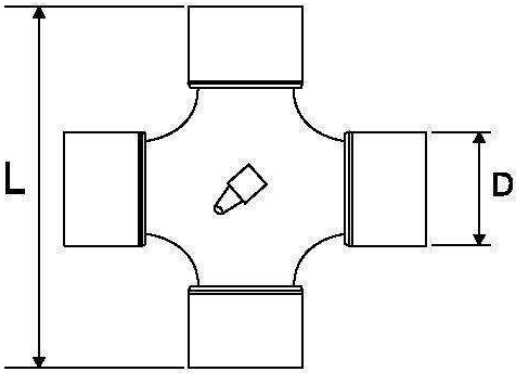


Diagram C

Model No	DC350EH	DC400EH	DC440EH	DC490EH	DC550EH
Refrence Diagram	C	C	C	C	C
Max Torque (Nm)	90000	135000	180000	250000	355000
Flange Dia {F}(mm)	350	400	440	490	550
PCD{P}(mm)	310	345	390	435	492
No of holes {N}	8	8	8	8	8
Hole Dia {d}(mm)	23	25	28	31	31
Spigot Dia Female = S2(mm)	210	235	255	275	320
Flange Spigot (Depth=K2)(mm)	5	5	5	5	5
Angular Movement	15	15	15	15	15
Length Compensation {Lc}(mm)	110	110	110	110	110
Tube Dia{T}(mm)	152	168	194	219	254
Min Compressed Length{Lmin}(mm)	920	1035	1190	1315	1315
Max Compressedlength {Lmax}(mm)	4000	4000	4000	4000	4000

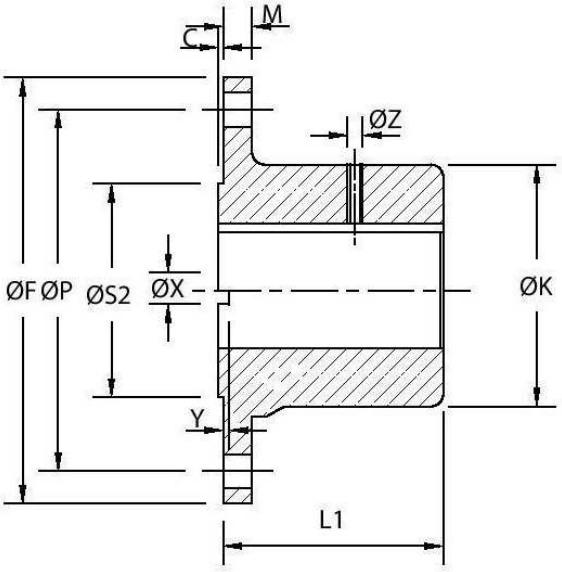
Universal Cross Joint



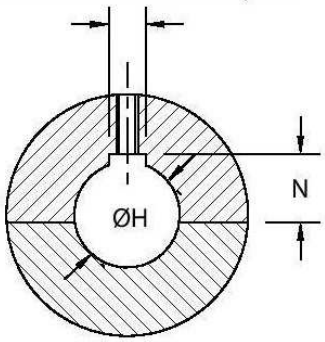
Life hours 10000

Model	D (mm)	L (mm)
DC 26	23.83	61.2
DC 28	27	81.8
DC 38	30	81.8
DC 310	30.1	106.3
DC 312	34.94	126.3
DC 31	38	100
DC 311	39.7	116
DC 412	41.28	126
DC 411	46	119
DC 413	47.64	135
DC 415	49	155
DC 516	59	168
DC 603	60	158
DC 720	65	172
DC 810	72	185
DC 900	74	185
DC 1080	83	210
DC 1170	95	228
DC 1233	110	210
DC 1350	135	250
DC 1440	200	410

Companion Flanges



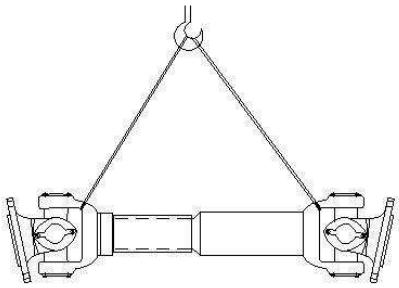
Other sizes are also available on request



Avoid risks by using original spare and wearing parts. Only these are manufactured with Dullabh know how and guarantee reliable and safe operation of your Dullabh products. High availability, combined with efficient logistics, ensures quick delivery of parts.

Transport And Storage

Universal Shafts are delivered as complete units.
They are balanced and lubricated.



Care Should be taken with the following points :

- The shafts should be transported in horizontal position. For vertical transport an additional protection must be provided in order to avoid the shaft coming apart. The dust cap of the spline seal must not be loaded by the weight of the universal shaft . Hemp or nylon rope to be used (for small shaft only)
- Balance weights or plates should not be removed . Unbalance will cause uneven running and premature wear of the universal shaft and bearings of the connected units.
- Universal shafts, which have been stored for a long time, should be re greased in working position before installation.

General Maintenance

Maintenance should be carried out at regular intervals, and it is advisable to co-ordinate this with the maintenance work of the other machine parts. The maintenance intervals mentioned in the following section are only recommendation.

Noise testing – continuously

Any deviation from normal working noise should be located and corrected immediately.

Backlash inspection

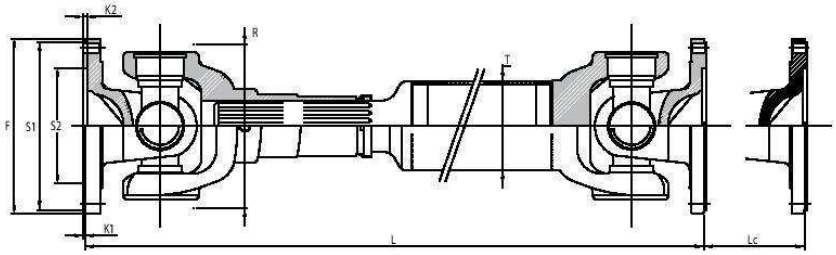
Examination of the roller bearings and the sliding splined parts should be carried out before lubricating.

Checking Of Bolts

The bolts should be checked for tightness when greasing the shaft

Universal Shaft Selection Sheet

Company Name :		Address Line 1	
Contact Person Name :		Address Line 2	
Designation :		City	
Mobile No :		Pincode	
Email 1 :		State	
Email 2 :		Telephone	
Fax :		Website	



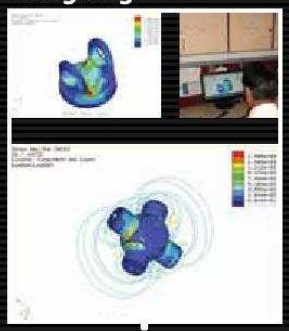
Please Fill The Maximum Data Possible					
Technical Data	Application1	Application2	Application3	Application4	Application5
Application					
Motor Power (KW)					
Minimum Motor Operating Speed (rpm)					
Gear box Reduction ratio i					
Min roll diameter (mm)					
No of shaft in one motor					
No of shaft required					
No of spare kit required					
If Any Cardan Shaft Already Exists Please Provide The Connection Parameter					
Flange diameter F (mm)					
PCD P (mm)					
Hole Dia D (mm)					
No of Holes					
Compressed Length L (mm)					
Length Compensation Lc (mm)					

Send us your enquiry at : Dullabh Commercials
386,Ahmed Chambers
Lamington Road,
Near Opera house
Mumbai - 400004
Tel No. - 022 23876633
Mob No. - +91 9820967337
9320314324

Email us : raj@dullabhcommercials.com
dullabhcommercials@gmail.com

CARDAN SHAFTS

Designing



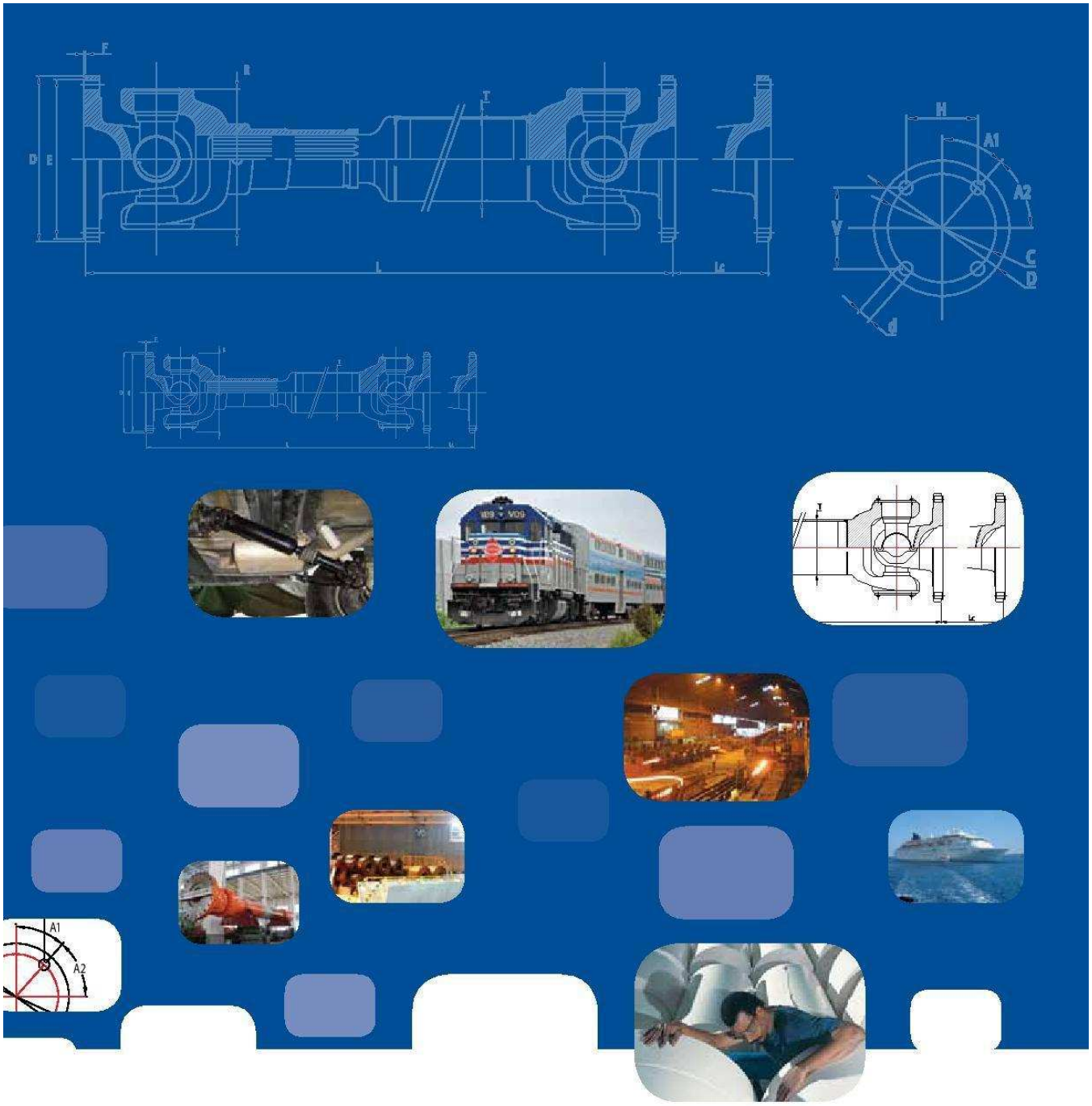
Raw Material

Heat Treatment

Machining

Quality control

Finished product



Registered Office :

Dullabh Commercials
386,Ahmed Chambers,
Lamington Road,
Near Opera house,
Mumbai - 400004

Tel No. : 022 23876633,64160788
Mobile No. : +91 9820967337 , 9320314324
Tele Fax : 022 23801770
Email : raj@dullabhcommercials.com
Website : www.dullabhcommercials.com