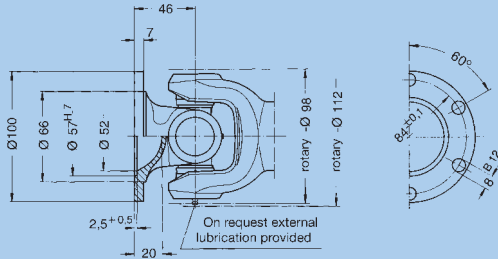


Cardan Drive-Shafts

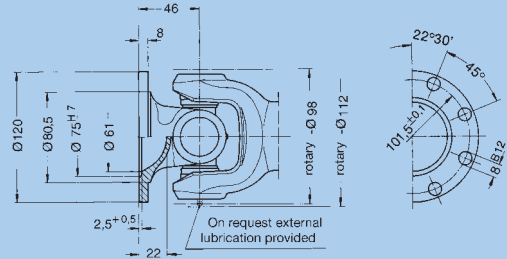
Series 0.100

Roller bearing version

At utilisation of the nominal torque a verification of the flange connection is necessary.



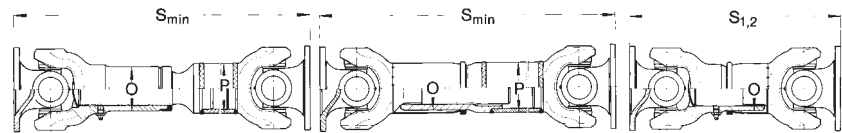
On both sides standard flange
end number: 0.110.XX0



On both sides larger flange
end number: 0.110.XX1

- β = Maximum angle of deflection per joint
- J_m = Moment of inertia
- G = Weight
- S_{min} = Minimum length of tubular types
- S_1 = Compressed lengths
- S_2 = of short types
- X_1 = Extension at S_{min} resp. S_1
- X_2 = Extension at S_2
- P_1 = Tube diameter. Dimensions in bold type for normal applications. Alternative dimensions are for long shafts at high speeds, see technical annex domain speed
- P_2 = Alternative tube
- P_3 = Alternative tube

Universal Cardan Drive-Shafts with extension



additional spline protection on request

Please indicate requested length „S“ and max. r.p.m. when ordering!

Order number	Tubular Type normal extension				Tubular Type larger extension				Short Type I		
	0.110.100	0.110.101	0.110.102	0.110.105	0.110.110	0.110.111	0.110.112	0.110.115	0.110.130	0.110.131	0.110.132
Angle of deflection β	20	18	20	35	20	18	20	35	20	18	20
Flange- \emptyset	100	120	Hub	100	100	120	Hub	100	100	120	Hub
S_{min} resp. S_1	374	374	464	405	464	464	554	490	255	255	343
S_2	-	-	-	-	-	-	-	-	280	280	368
X resp. X_1	40	40	40	40	95	95	95	95	30	30	30
X_2	-	-	-	-	-	-	-	-	40	40	40
P_1	50 x 3	50 x 3	50 x 3	50 x 3	50 x 3	50 x 3	50 x 3	50 x 3	-	-	-
P_2	70 x 3	70 x 3	70 x 3	70 x 3	70 x 3	70 x 3	70 x 3	70 x 3	-	-	-
P_3	80 x 4	80 x 4	80 x 4	80 x 4	80 x 4	80 x 4	80 x 4	80 x 4	-	-	-
Spline dim. DIN 5480	35x2x16	35x2x16	35x2x16	35x2x16	35x2x16	35x2x16	35x2x16	35x2x16	35x2x16	35x2x16	35x2x16
Number of flange holes	6	8	-	6	6	8	-	6	6	8	-
J_m (at S_{min} resp. S_1)	0,00378	0,0051	0,0040	0,0041	0,00406	0,00538	0,00428	0,00438	0,00389	0,00521	0,00410
J_m (at S_2)	-	-	-	-	-	-	-	-	0,00404	0,00536	0,00426
J_m /100 mm standard tube	0,00019	0,00019	0,00019	0,00019	0,00019	0,00019	0,00019	0,00019	-	-	-
G (at S_{min} resp. S_1)	6,32	6,77	7,08	6,56	7,48	7,93	8,23	7,62	5,12	5,57	5,87
G (at S_2)	-	-	-	-	-	-	-	-	5,44	5,89	6,19
G/100 mm standard tube	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35	-	-	-

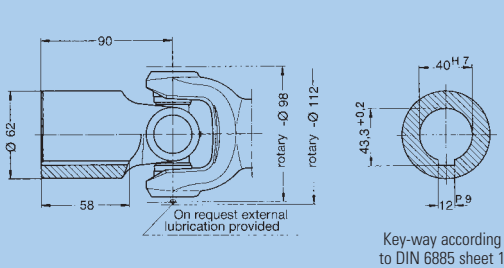
Size 0.110

Md_{Nom} 2300 Nm

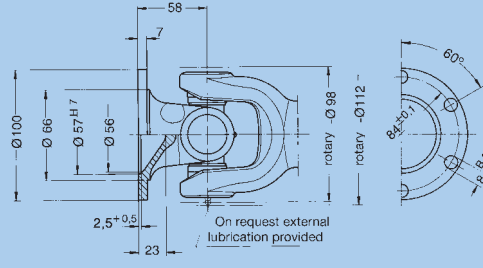
Md_{Lim} 3000 Nm

0.100

One keyway is not enough to transmit the max. torque. In such case a second keyway or an internal spline is recommended.



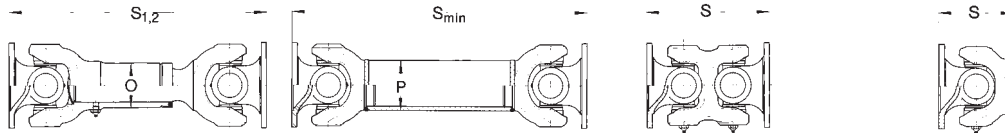
On both sides connecting hub
without key-way end number: 0.110.XX2
with key-way end number: 0.110.XX3



On both sides flange for larger angle deflection
end number: 0.110.XX5

Cardan Drive-Shafts without extension

Universal Joints without extension



additional spline protection on request

Short Type II				Tubular Type				Universal Joint Double			Universal Joint Single			
0.110.140	0.110.141	0.110.142	0.110.145	0.110.200	0.110.201	0.110.202	0.110.205	0.110.300	0.110.301	0.110.302	0.110.400	0.110.401	0.110.402	0.110.405
20	18	20	35	20	18	20	35	18	18	18	20	18	20	35
100	120	Hub	100	100	120	Hub	100	100	120	Hub	100	120	Hub	100
310	310	398	355	250	250	338	270	160	160	248	92	92	180	116
340	340	428	385	-	-	-	-	-	-	-	-	-	-	-
40	40	40	40	-	-	-	-	-	-	-	-	-	-	-
40	40	40	40	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	50 x 3	50 x 3	50 x 3	50 x 3	-	-	-	-	-	-	-
-	-	-	-	70 x 3	70 x 3	70 x 3	70 x 3	-	-	-	-	-	-	-
-	-	-	-	80 x 4	80 x 4	80 x 4	80 x 4	-	-	-	-	-	-	-
35x2x16	35x2x16	35x2x16	35x2x16	-	-	-	-	-	-	-	-	-	-	-
6	8	-	6	6	8	-	6	6	8	-	6	8	-	6
0,00415	0,00547	0,00437	0,00519	0,00352	0,00484	0,00374	0,00456	0,00319	0,00451	0,00340	0,00152	0,00284	0,00173	0,00204
0,00430	0,00562	0,00452	0,00542	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	0,00019	0,00019	0,00019	0,00019	-	-	-	-	-	-	-
5,63	6,08	6,38	6,05	4,9	5,35	5,65	5,02	3,98	4,43	4,73	2,25	2,70	3,00	2,39
5,88	6,33	6,63	6,25	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	0,35	0,35	0,35	0,35	-	-	-	-	-	-	-