






## 8. Data sheets

L1 = compressed length, L2 = length compensation

Series	Size	S				M				L				XL				XXL				XXL+				
		07600	10000	11600	12600	14400	15800	17200	17800	20400	21500	21510	22580	25080	28580	31510	35000	39000	44000	49000	55000	62000	68000	75000	84000	
Bearing Torque Nm		600	1.400	3.000	5.300	6.000	8.800	12.500	17.000	20.000	26.000	29.000	45.000	70.000	100.000	140.000	210.000	300.000	500.000	700.000	1.000.000	1.250.000	1.950.000	2.650.000	3.900.000	
Reversing Fatigue Torque Nm		300	700	1.500	2.300	2.900	4.400	5.100	8.500	11.000	13.000	14.500	23.000	35.000	50.000	70.000	100.000	150.000	250.000	345.000	500.000	625.000	950.000	1.350.000	1.850.000	
Joint Performance Factor Nm		220	660	990	1.780	2.070	2.400	3.500	4.600	6.800	8.050	8.350	12.050	18.650	26.200	28.140	40.300	56.800	81.500	112.000	154.000	210.000	320.000	750.000	2.230.000	
Swing Diameter mm		76	100	116	126	144	158	172	178	204	220	220	225	250	285	315	350	390	440	490	550	620	680	750	840	
100	L1 min	250	421	451	536	572	635	566	661	746	797	775	900	995	1.115	1.205	1.295	1.450	1.660	1.810	1.965	2.240				
	L2 min	40	110	110	110	110	180	110	110	110	110	140	140	140	140	140	150	170	190	190	190	240	250			
	tube size	50	50/76,2	70/90	90	100	100	120	120	140	144	150	160/170	180	200	219	245	273	335	351	402	445				
105	L1 min																					3.250	4.000	4.250		
	L2 min																					250	350	350		
	tube size																					559	609	660		
110	L1 min	214	240	290	340	409	400	430	490	480	551	580	585	645	990	980	1.175	1.140	1.300	1.300	1.770	2.050				
	L2 min	15	15	30	40	45	35	40	40	40	50	40	40	40	50	100	50	80	70	50	55	55				
	L1 max	249	420	450	535	571	559	565	660	745	796	650	899	994	1.114	1.204	1.294	1.449	1.659	1.809	1.964	2.239				
130	L2 max	40	110	110	110	110	110	110	110	110	150	110	140	140	140	140	150	170	190	190	240	250				
	L1 min	190	218	278	309	369	355	400	353	440	506	538	615	680	760	890	930	1.040	1.250	1.360	1.480	1.690				
	tube size	50	50/76,2	70/90	90	100	120	120	120	140	144	150	160/170	180	200	215	245	273	324	355	406	445				
135	L1 min																					1.950	2.400	2.700		
	tube size																					559	609	660		
DIN		75-6-6	90-4-8	100-6-8	120-8-10	150-8-12	150-8-12	180-8-14	180-8-14	180-8-14	225-8-16	225-8-16	225-8-16	290-8-18	285-8-20	315-8-22	350-10-22	390-10-24	435-10-27							
		90-4-8	100-6-8	120-8-8	150-8-12	180-8-14	180-8-14	180-8-16	180-8-16	180-8-16	250-8-18	250-8-18	250-8-18	285-8-20	285-8-20	315-8-22	350-10-22	390-10-24	435-10-27							
		100-8-8	120-8-10	180-8-10	180-8-10	180-8-10	180-8-10	180-8-10	180-8-10	180-8-10	285-8-20	285-8-20	285-8-20	285-8-20	285-8-20	285-8-20	285-8-20	285-8-20	285-8-20	285-8-20	285-8-20	285-8-20	285-8-20	285-8-20	285-8-20	285-8-20
		120-8-8	150-8-10	180-8-14	180-8-14	180-8-14	180-8-14	180-8-14	180-8-14	180-8-14	180-8-14	180-8-14	180-8-14	180-8-14	180-8-14	180-8-14	180-8-14	180-8-14	180-8-14	180-8-14	180-8-14	180-8-14	180-8-14	180-8-14	180-8-14	180-8-14
SAE		87-4-8	87-4-8	119-4-13,1	146-4-12,7	174-8-8-9,6	174-8-8-9,6	203,2-8-9,6	203,2-8-9,6	203,2-12-11,1	203,2-12-11,1	241,5-8-16,1														
		98,8-4-9,6	149-4-12,7	180-4-12,7	180-4-12,7	180-4-12,7	180-4-12,7	180-4-12,7	180-4-12,7	180-4-12,7	180-4-12,7	180-4-12,7	180-4-12,7	180-4-12,7	180-4-12,7	180-4-12,7	180-4-12,7	180-4-12,7	180-4-12,7	180-4-12,7	180-4-12,7	180-4-12,7	180-4-12,7	180-4-12,7	180-4-12,7	
Cross serration		100-4-8,5	122-4-11	122-4-11	122-4-11	122-4-11	150-4-13	150-4-13	150-4-13	180-4-15	180-4-15	180-4-15														
DIN with face key													225-8-17 (32-09)	225-8-17 (32-09)	225-8-17 (32-09)	250-8-19 (40x12)	285-8-21 (40x15)	315-10-23 (40x15)	350-10-23 (50x18)	390-10-25 (70x18)	435-16-28 (90x20)	480-16-31 (90x22,5)	550-16-31 (100x22,5)	620-16-38 (100x25)		
Hirth-serration													285-8-21 (40x15)	285-8-21 (40x15)	285-8-21 (40x15)	315-10-23 (50x18)	350-10-23 (70x18)	435-16-28 (90x20)	480-16-31 (90x22,5)	550-16-31 (100x22,5)	620-16-38 (100x25)	680-24-33	750-24-33	840-24-38		

\*At a purely frictionally engaged torque transmission there could be a reduction of the based nominal torque. Please contact our technical department in this case.

## Notes

- Friction transfer of torque as well as special flange patterns can result in reduction of the torque output rating. (Applies only for Cardan shafts with smooth flanges; marked with \*)
- Bolt sets in strength class 10.9 to DIN EN 898-1 are required to transfer the specified torque. Here it is necessary to observe the appropriate tightening torque depending on type of coating in compliance with VDI2230.
- In addition to the flange dimensions illustrated, special solutions are also available to meet customer specifications.
- Cardan shafts in series S, M and L are equipped with Rilsan coated length compensation. Moreover the special coatings used on the other series are also available.
- Our Development and Design Department will be pleased to provide support for questions regarding other possible versions.
- Subject to technical changes without prior notice.