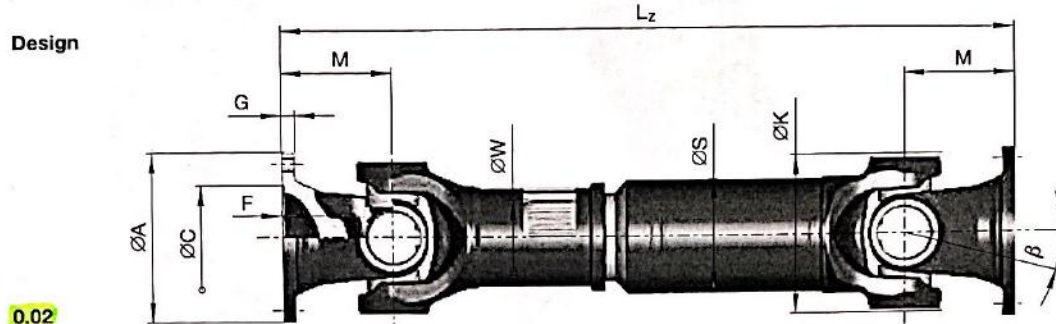


Data sheet series 687/688

0.02 with length compensation, tubular design
 0.03 without length compensation, tubular design
 9.01 with length compensation, short design

9.03 with length compensation, short design
 9.04 without length compensation, double flange shaft design



0.02

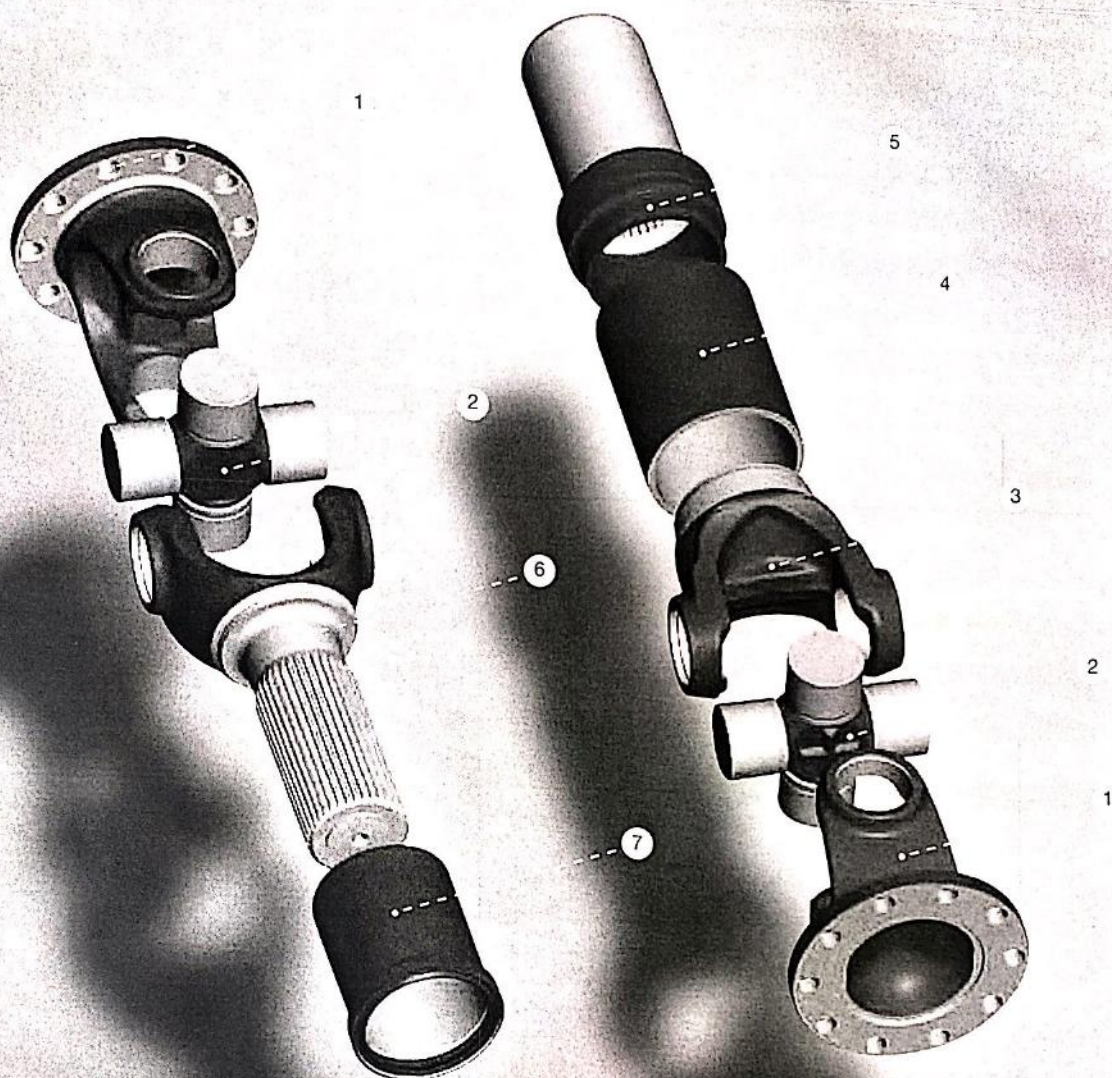
Shaft size		687/688.15	687/688.20	687/688.25	687/688.30	687/688.35	687/688.40				
Tcs	kNm	2,4	3,5	5	6,5	10	14				
T _{DW}	kNm	0,7	1,0	1,6	1,9	2,9	4,4				
L _c	-	1,79 x 10 ⁻⁴	5,39 x 10 ⁻⁴	1,79 x 10 ⁻³	2,59 x 10 ⁻³	0,0128	0,0422				
β	°	25	25	25	25	25	25	44	25	44	
A	mm	100	120	120	120	150	180	150	150	180	180
K	mm	90	98	113	127	127	144	144	160	160	160
B ± 0,1 mm	mm	84	101,5	101,5	101,5	130	130	155,5	130	130	155,5
C H7	mm	57	75	75	75	90	90	110	90	90	110
F ¹⁾	mm	2,5	2,5	2,5	2,5	3	3	3	3	3	3
G	mm	7	8	8	8	10	10	12	10	10	12
H + 0,2 mm	mm	8,25	10,25	10,25	10,25	12,25	12,1	14,1	12,1	12,1	14,1
f ²⁾	-	6	8	8	8	8	8	8	8	8	8
M	mm	48	54	70	72	78	95	90	102	102	102
S	mm	63,5 x 2,4	76,2 x 2,4	89 x 2,4	90 x 3	90 x 3	100 x 3	100 x 3	120 x 3	100 x 4,5	120 x 3
W DIN 5480	mm	36 x 1,5	40 x 1,5	45 x 1,5	48 x 1,5	48 x 1,5	54 x 1,5	54 x 1,5	62 x 1,75		

TCS = Functional limit torque*
 If the permissible functional limit torque TCS is to be fully utilized, the flange connection must be reinforced.

T_{DW} = Reversing fatigue torque*
 L_c = Bearing capacity factor*
 * See specifications of driveshafts.
 β = Maximum deflection angle per joint

Tubular shafts with welded-on balancing plates have lower fatigue torques T_{DW}
 1) Effective splgot depth
 2) Number of flange holes

Design features series 687/688/587



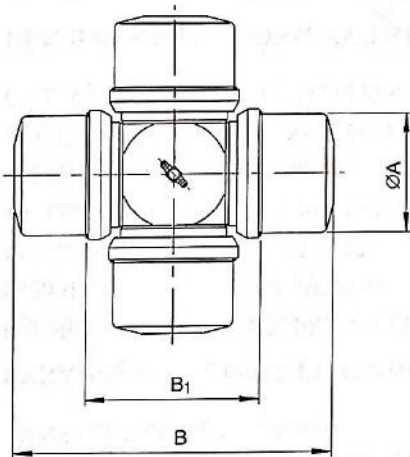
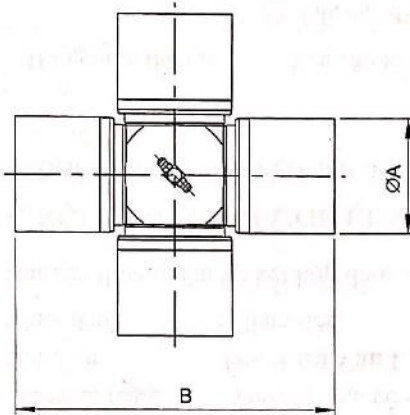
Main components of the driveshafts

1. Flange yoke
2. Journal cross assembly
3. Tube yoke
4. Tube
5. Sliding muff
6. Yoke shaft
7. Cover tube assembly

Data sheet Journal cross assemblies (unit packs)

Design

7.06 journal cross, complete



Journal cross assemblies are only supplied as complete units. For orders, please state shaft size or, if known, the drawing number of the complete drive-shaft. For lubrication of journal cross assemblies, see Installation and Maintenance/Safety Instructions.

* The dimensions of the journal cross assemblies for series 392/393 are equal to 292.

Shaft size	$\varnothing A$ mm	B mm
473.10	15	41
473.20	19	49,2
473.30	22	59
287.00	26	69,8
287.10	30	81,8
287.20	35	96,8
587.10	35	96,8
587.15	42	104,5
587.20	48	116,5
587.30	52	133
587.35/36	57	144
587.42	57	152,06
587.48	65	172
587.50	72	185
587.55	74	217
587.60	83	231,4
687/688.15	27,0	74,5
687/688.20	30,2	81,8
687/688.25	34,9	92,0
687/688.30	34,9	106,4
687/688.35	42,0	119,4
687/688.40	47,6	135,17
687/688.45	52,0	147,2
687/688.55	57,0	152,0
687/688.65	65,0	172,0

Shaft size	$\varnothing A$ mm	B mm	B ₁ mm
190.50	65	220	143
190.55	74	244	154
190.60	83	280	175
190.65	95	308	190
190.70	110	340	210
190.75	120	379	235
190.80	130	425	262
390.60	83	235,8	129
390.65	95	256,8	139
390.70	110	293,4	160
390.75	120	325,2	176
390.80	130	363,2	196
392.50*	74	222	129
392.55*	83	246	139
392.60*	95	279,6	160
392.65*	110	309,6	176
392.70*	120	343,4	196
393.75*	130	383,4	216
393.80*	154	430	250
393.85*	170	464	276
393.90*	195	530	315

Ultra heavy-duty unit pack sets for series 398 have been discontinued.

They are still available for series 492 and 498 on request.