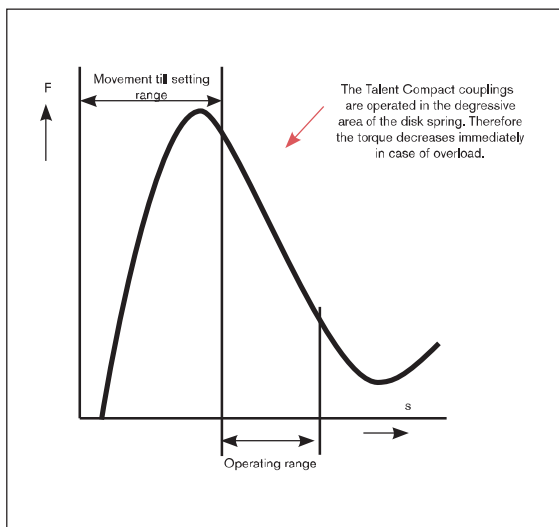


Backlash-free, torsionally stiff overload system

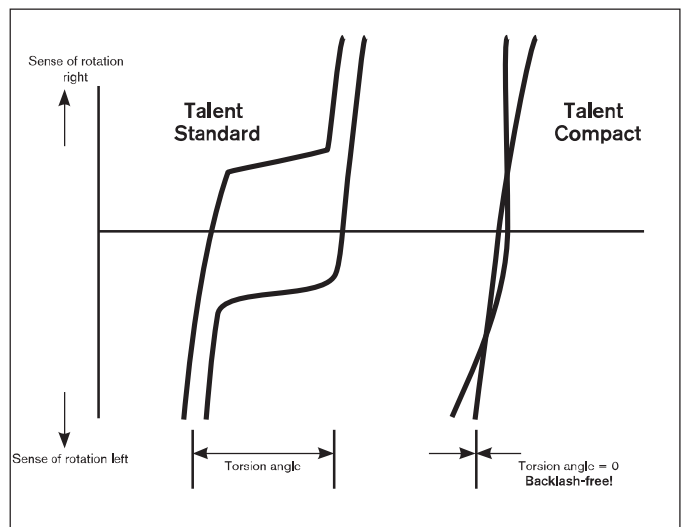


- Backlash-free overload system with declining spring characteristic
- Rugged design
- Accurate disengagement with high repeating accuracy
- Accurate backlash-free torque transmission, even in case of wear
- Easy torque setting by torque scale on the coupling
- Ball-bearing connection flange
- Hardened ratchet surfaces for a long service life
- Backlash-free shaft-hub-connection due to taper sleeve
- Can be used with proven flexible coupling as shaft-to-shaft connection

Spring characteristic



What does backlash-free mean?



Backlash-free ball-ratchet principle also with reversion of torsional direction

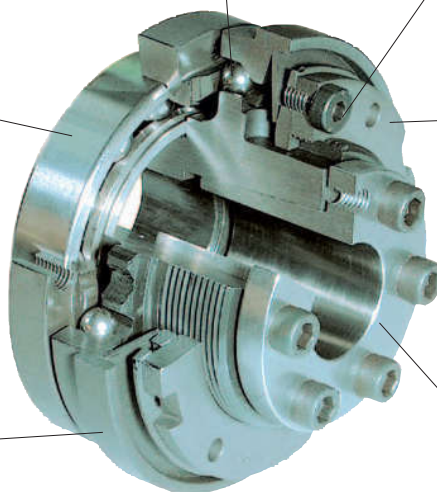
Positive protection of the setting nut against accidental adjustment

Ball-bearing flange ring for accurate concentricity and axial run-out

Setting nut with fine-pitch thread for easy and accurate torque setting

Shifting ring with setting scale for exact torque adjustment

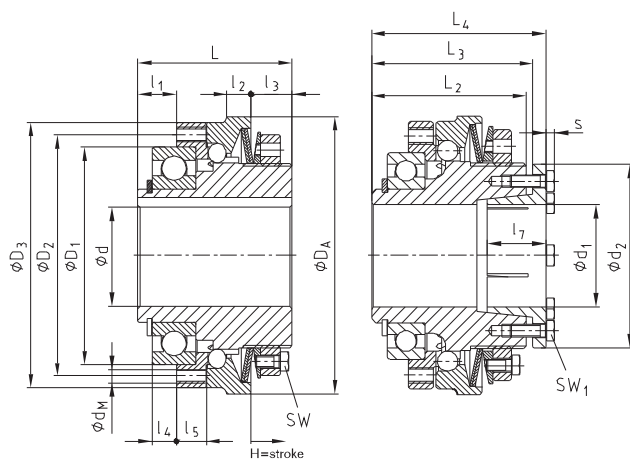
Backlash-free shaft-hub-connection due to taper sleeve



Type FT, FT-4.5



- Torque up to 3200 Nm
- Rugged design
- Maximum shaft diameter up to 75 mm
- Drive and driven-sided with backlash-free, frictionally engaged shaft-hub-connection
- Synchronous (SK) and ratchet design(DK)
- Finish bore acc. to ISO fit H7, feather keyway to DIN 6885 sheet 1 - JS9



Type FT-1.0

Type FT-4.5
with clamping connection

Technical data

Size	Speed [rpm]	Torques [Nm]				Dimensions [mm]														
		T1	T2	T3	T4	d	D1 ¹⁵	D2	D3	DA	dM	L	l1	l2	l3	l4	l5	l6	SW	H=stroke
01	4000	5-12.5	10-25	20-50	25-62.5	12-20	47	56	65	70	8xM4	40	8	7	12	5	6	-	8	1,2
02	3000	10-25	20-50	40-100	50-125	15-25	62	71	80	85	8xM5	48	11	8	13.5	7	7	-	8	1,5
03	2500	20-50	40-100	80-200	100-250	22-30	75	85	95	100	8xM6	59	14	9	16	9	9	-	8	1,8
04	2000	40-100	80-200	160-400	200-500	28-40	90	100	110	115	8xM6	64	16	10	17	10	10	-	10	2,0
05	1200	70-175	140-350	280-700	380-875	32-50	100	116	130	135	8xM8	75	18	12	20.5	10	12	-	10	2,2
06	800	120-300	240-600	480-1200	600-1500	40-65	130	150	171	166	8xM10	115	21	16	46	12	15	-	13	2,5
08	400	300-600	600-1200	1200-2400	1800-3200	50-75	145	165	220	220	8xM12	140	44	37	-	44	22	-	13	3,4

Dimensions with taper sleeve type 4.5 [mm]

Size	Max. finish bore	Dimensions [mm]								TA [Nm]
		d1	L2	L3	L4	l7	d2	s	SW1	
01	10-20	40	42	47	-	38	2,8	7	4	
02	15-25	48	49	56	-	44	2,8	7	4	
03	22-35	59	60	67	-	56	2,8	7	4	
04	32-45	64	68,5	73	-	70	3,5	8	8	
05	35-55	75	78,0	86	-	84	4,0	10	12	
06	40-65	115	118	130	-	100	5,3	13	25	
08	50-75	140	-	160	-	-	7	13	40	

- 1) further sizes for smaller and larger torques available on request.
- 2) smaller bores for low torques available on request.
- 3) tolerance user-side H7.

Ordering example

Talent Compact	04	DK	T2	Ø40	4.5	150 Nm
Type	Size	Type [DK/SK]	Disk springs	Bore	Hub design	Torque set