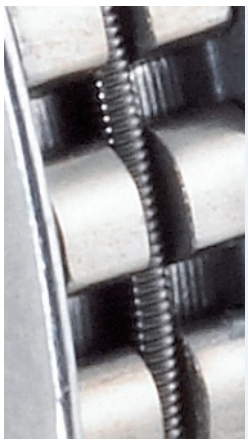
Insert Element FE 400 Z2

in narrow design with tension spring



Components

Freewheel	Insert element FE 400 Z2
· Spring	Tension spring (Z)
· Cage	Stamped steel / plastic (PA)
· Sprags	Hardened bearing steel
	Start gap height h_0 = 4 mm
- Thrust rings	-
- Ball bearing	-
- Roller bearing	-
- Lubrication	-
- Seal	-

Characteristics

Installed width
7 mm

Operating temperature
max. 140°C
higher temperatures on request

Indexing frequency
max. 10 Hz

Lubrication

Oil or grease lubrication *(Pg. 60–61)*
Delivered with corrosion protection.
Pre-greased on request.

Installation

Installation tolerances
Shaft h5; hub H6

Inner ring/shaft
steel, HRC 60^{+4} (HV 700^{+100}); Ehd ≥ 1.3 mm; Rz ≤ 2.5 µm

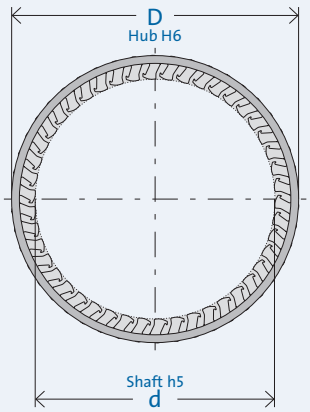
Outer ring/housing
steel, HRC 60^{+4} (HV 700^{+100}); Ehd ≥ 1.3 mm; Rz ≤ 2.5 µm

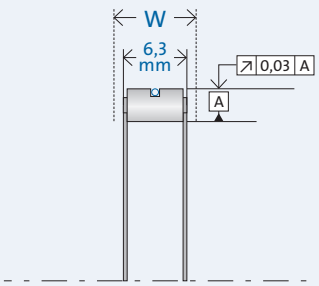
Constraints
The freewheel clutch insert element requires axial constraints on both sides.

Mating parts
Hardening and grinding of the mating parts is necessary.
Chamfered shafts and hubs ease installation *(Pg. 58)*.

Bearing
Freewheel clutch insert elements are not self-centering.
External bearing support to define the gap between mating parts (Shaft and housing) is necessary.

Data





Designation	d [mm]	D [mm]	W [mm]	T_{nom} [Nm]	n_{max} [rpm]	Weight [kg]	Item no.
FE 410 Z2	2	10	7	0,6	52,600	0.001	300390
FE 412 Z2	4	12	7	2,5	40,900	0.002	300394
FE 413 Z2	5	13	7	4	34,900	0.003	300395
FE 414 Z2	6	14	7	6	31,200	0.003	300396
FE 416 Z2	8	16	7	10	27,200	0.004	300399
FE 418 Z2	10	18	7	16	18,900	0.005	300401
FE 422 Z2	14	22	7	30	13,200	0.006	300406
FE 423 Z2	15	23	7	40	13,200	0.006	300410
FE 425 Z2	17	25	7	43	10,600	0.007	300416
FE 428 Z2	20	28	7	55	9,700	0.008	300431
FE 433 Z2	25	33	7	78	7,700	0.010	300446
FE 437 Z2	29	37	7	97	6,100	0.011	300457
FE 438 Z2	30	38	7	105	6,400	0.011	300461
FE 442 Z2	34	42	7	125	5,400	0.012	300465
FE 443 Z2	35	43	7	131	5,600	0.013	300472
FE 448 Z2	40	48	7	156	5,500	0.014	300477
FE 453 Z2	45	53	7	185	4,400	0.016	300484
FE 458 Z2	50	58	7	216	4,400	0.017	300490
FE 463 Z2	55	63	7	246	3,700	0.019	300498
FE 468 Z2	60	68	7	277	3,500	0.020	300502

The specified nominal torque is based on sufficient stiffness of mating parts. *(Pg. 22)*
Rotation speed n = insert element's inherent speed *(Pg. 57)*

Drawing legend

d = inner diameter
D = outer diameter
W = width
T = torque
n = rotation speed