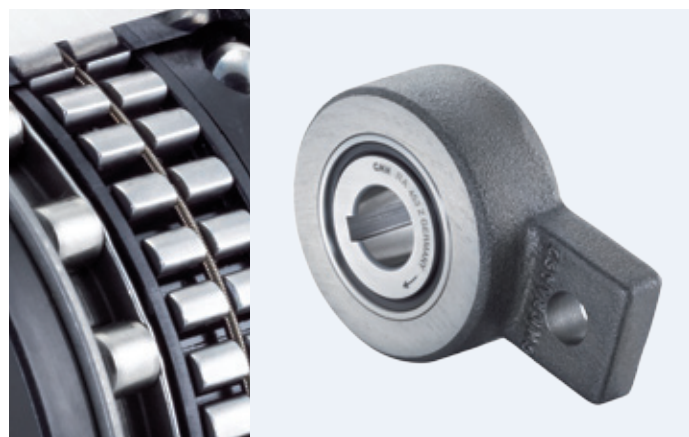


Complete Freewheel Clutch Unit RA

with seals, keyway (IR) and mounting tab (OR)



Components

Freewheel clutch insert element Complete freewheel clutch unit, series FND FE 400 Z (tension spring)

+ Raceways
inner ring Bearing steel, hardened and ground
Keyway per DIN 6885, Sheet 1
P9 with back clearance
outer ring With mounting tab (cast steel or steel)*

+ Ball bearing Integrated

+ Roller bearing RL 400

+ Lubrication Lifetime oil lubrication

+ Seal GMN rubber seal

* Not suitable for indexing freewheel clutch applications.

Characteristics

Width
34 mm

Operating temperature
max. 100°C

Lubrication

Operative lifetime oil lubrication

Installation

Installation tolerances
Shaft js6 (k5)

Mating parts

Hardening and grinding of the mating parts is not necessary. Thoroughly clean (grease free) the mating parts in the vicinity of the freewheel clutch as well as the freewheel clutch's rings before making the press fit.

Bearing

The freewheel clutch includes ball and roller bearings. Additional external bearing support is not necessary.

Press fit pressure

Press fit pressure must not be applied to the balls. Installation/removal through inner ring only.

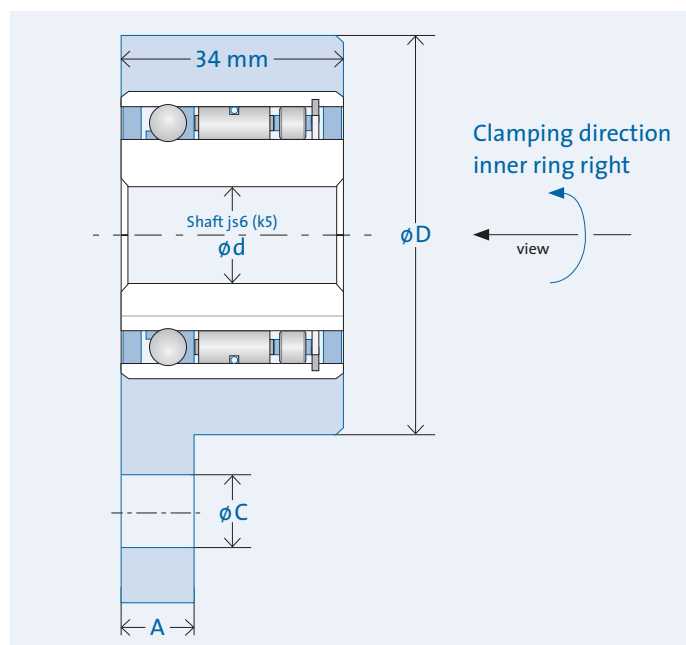
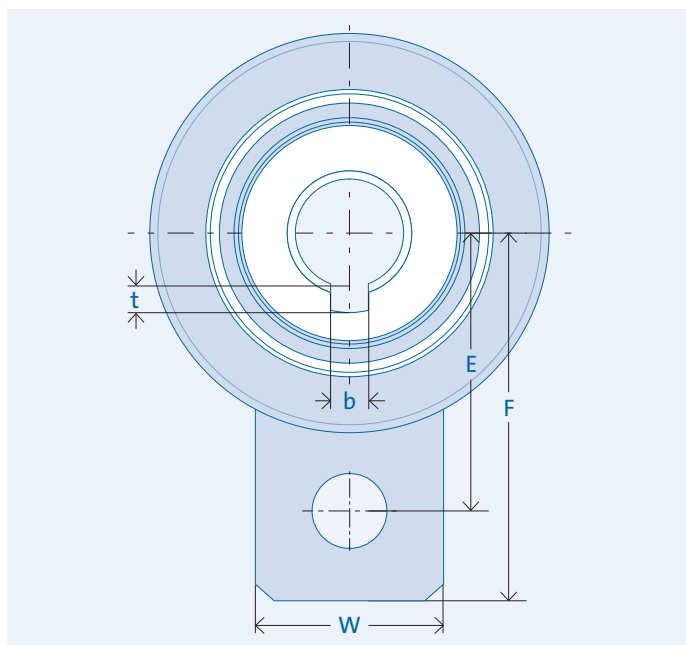
Clamping direction

The arrow on the inner ring designates the inner ring's clamping direction.

Mounting tab

Mounting tab must not be fixed to the housing tight.

Data



Designation	d [mm]	D [mm]	A [mm]	W [mm]	C [mm]	E [mm]	F [mm]	T _{nom} [Nm]	n _{max} [rpm]	C _{dyn.} [N]	C _{stat.} [N]	Weight [kg]	b [mm]	t [mm]	Item no.
RA 437 Z	15	65	12	32	10	47	62	161	1,700	8,962	8,661	0.81	5	2.3	301026
RA 442 Z	20	75	16	36	12	54	72	208	1,500	10,247	10,708	1.08	6	2.8	301030
RA 453 Z	25	90	16	45	16	62	84	314	1,200	11,417	13,577	1.50	8	3.3	301043
RA 459 Z	30	100	16	50	16	68	92	381	1,100	12,691	16,320	1.81	8	3.3	301048
RA 463 Z	35	100	16	50	16	68	92	428	1,100	13,070	17,063	1.75	10	3.3	306681
RA 470 Z	40	110	20	50	20	85	115	509	1,000	14,050	19,840	2.28	12	3.3	301056
RA 473 Z	45	110	20	50	20	85	115	543	1,000	14,128	19,896	2.2	14	3.8	306682

Inner ring clamping direction left available on request. Rotation speed n = shaft speed

The specified nominal torque refers to the integrated freewheel clutch insert element, not the key way.

Drawing legend

E = bore spacing
F = support lever length
T = torque
n = rotation speed
C = mounting tab bore

d = inner diameter
b = keyway width
t = keyway depth
D = outer diameter
B = mounting tab width
A = mounting tab thickness