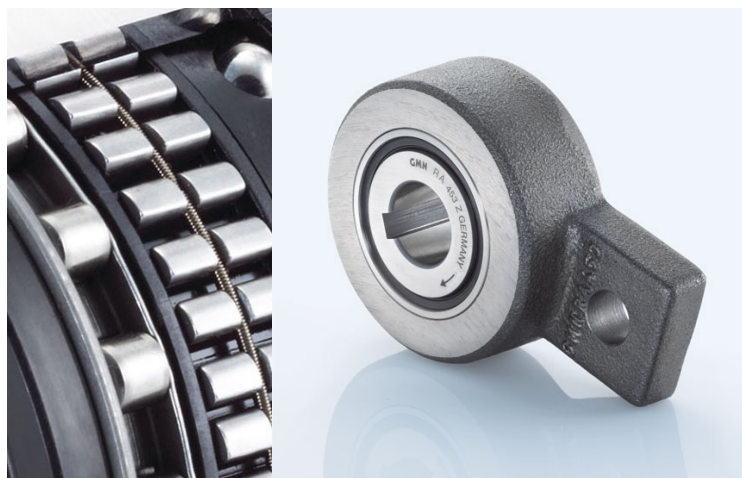


# Complete Freewheel Clutch Unit RA 459 Z



Item number 301048

## Components

<b>Freewheel clutch</b>	<b>Insert Element FE 400 Z</b>
<b>+ Rings</b>	Bearing steel, hardened and ground
Inner ring	Keyway per DIN 6885, Sheet 1 Tolerance: P9 with back clearance
Outer ring	With mounting tab (cast steel or steel) - not suitable for indexing clutch applications.
<b>+ Ball bearings</b>	integrated
<b>+ Roller bearing</b>	RL 400
<b>+ Lubrication</b>	Lifetime oil lubrication
<b>+ Seal</b>	GMN rubber seal

## Key values

Ø Shaft d:	30 mm	Ø Hub D:	100 mm
Mounting tab A:	16 mm	Mounting tab B:	50 mm
Mounting tab Ø C:	16 mm	Bore spacing E:	68 mm
Mounting tab F:	92 mm	Load capacity $C_{stat}$ :	16320 N
Load capacity $C_{dyn}$ :	12691 N	Keyway width b:	8 mm
Keyway depth t:	3,3 mm	Torque $T_{nom}$ :	381 Nm
Speed $n_{max}$ :	1100 rpm	Number of sprags:	57
Weight:	2.015 kg	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

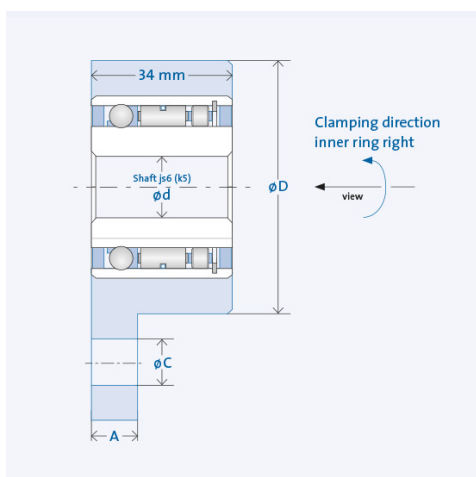
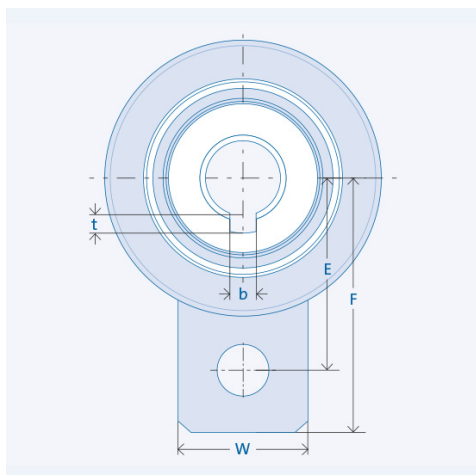
Press fit pressure must not be applied to the balls. Installation/removal through inner ring only.

### 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.



Inner ring clamping direction left available on request. The specified nominal torque refers to the integrated freewheel clutch insert element, not the key way.