

# Insert Element FE 508 Z



Item number 300519

## Components

<b>Freewheel clutch</b>	<b>Insert Element FE 400 Z</b>
· Spring	Tension spring (Z)
· Cage	Stamped steel/ Plastic (PA)
· Sprags	Hardened bearing steel
	Start gap height $h_0 = 4 \text{ mm}$

## Key values

Ø Shaft d:	100 mm
Ø Hub D:	108 mm
Installed width W:	12 mm
Torque $T_{nom}$ :	889 Nm
Speed $n_{max}$ :	1700 rpm
Number of sprags:	106
Weight:	0.0548 kg
Operating temperature:	max. 140°C

## Lubrication

### Oil or grease lubrication

Delivered with corrosion protection.  
Operative grease filling on request.

## Installation

### Installation tolerances

Shaft h5; hub H6

### Inner ring/shaft

Steel, HRC 60<sup>+4</sup> (HV 700<sup>+100</sup>); Eht ≥ 1,3 mm; Rz ≤ 2,5 μm

### Outer ring/housing

Steel, HRC 60<sup>+4</sup> (HV 700<sup>+100</sup>); Eht ≥ 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.

### Bearing

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

