

Plastic Ball Cage

N 500



Suitability

Cage made of polyacetal resin with steel balls.

- High acceleration is possible due to the light composition of the plastic material.
- Excellent dry running characteristics.
- Smoothest possible run.

Features

- Injection-molded.
- The balls are captive but can move easily.
- Balls which are staggered in the axial direction extend the service life of the rotary stroke bearing.
- The cages which are provided with mating pins and slots can be used for combining individual sections to form any desired length.
- See page 37-41 for instructions on installation and servicing.

Material

Cage:

- Polyacetal resin, injection-molded
- Density 1.42 kg/dm³
- Heat resistance 100°C, maximum constant working temperature 80°C

Balls:

- Hardened, special roller bearing steel 100 Cr 6 (1.2067)
- DIN 5401/ISO 3290 grade 5 sorting group P0

Loading capacity

Column C shows the load ratings of the ball cages under uniform radial load. The loading capacity must be computed when moments are in play.

Special designs

The ball cages can be supplied with stainless steel or ceramic balls. Based on workpiece drawings, other dimensions are available in small-scale production lots or, for batches from approx. 10,000 units, as injection-molded parts. The combinable ball cages are also available without balls (ball-free spacers).

Order Information

Ball Cage N 500/d_w/d₁/l₂

Order No. 50000 . .