

Superfinishing-Machine

Supfina Race 707 • Supfina Race 717



**Machining of ball
bearing raceways**



Superfinish

Machining of ball bearing raceways inner and outer rings

The innovative Supfina Race 707 and Race 717 are setting new standards in Superfinishing ball bearing inner and outer rings. Both have been optimized to meet the highest productivity demands, while achieving best quality results, fast set-up times and superior reliability.

Valuable input from our customers, combined with extensive experience of the Supfina 727 machine types for the large diameter range, are the cornerstones of this newly developed machine concept.

The Race 707 and Race 717 cater to different diameter ranges. While the Supfina Race 707 can machine rings of up to 90 mm diameter, the Race 717 covers a range of up to 160 mm.

Workpieces:

- Deep groove ball bearing
- Angular contact ball bearing
- Spherical roller bearing
- Wheel bearing



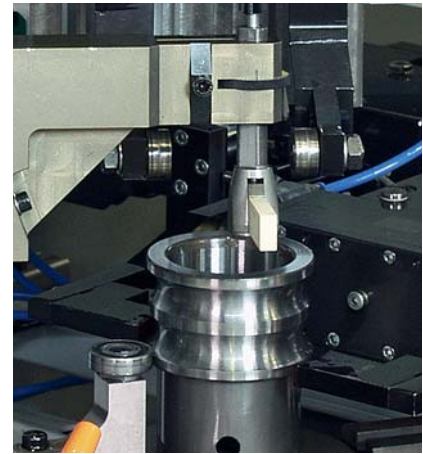
supfina Race 707

Working stations:	2
Workpiece diameters:	28–90 mm
Workpiece width:	up to 45 mm
Contact angle:	0–55°

supfina Race 717

Working stations:	2
Workpiece diameters:	62–160 mm
Workpiece width:	up to 65 mm
Contact angle:	0–55°

- 2 operating stations
- 2 Superfinishing units
- Vertical workpiece spindles
- NC positioning of the Superfinishing units
- NC-controlled spindle drives
- Variable centering systems
- Automatic loading and unloading
- Multi-step process with automatic sequence
- State-of-the-art control system
- Integrated control cabinet
- Multi-range tooling
- High productivity due to minimized loading times
- Low tooling cost
- Set-up times < 15 minutes
- Operator friendly HMI design
- Optimum accessibility
- Small footprint
- Swivel unit for angular contact ball bearing operation
- Optional attachment for OR outer diameter finishing



The optimum module for every task: In the highly productive Supfina Race 707 and Race 717 the highlights are the rotary oscillators with unmatched efficiency and a very fast loading system.

At the same time, setting the machine is easy, changing to another workpiece takes less than 15 minutes.

Versatile multi-range tooling makes the machine flexible while limiting additional expenses, making the Supfina Race a very reasonable investment.

Supfina Race 707 and Race 717 are fully integrated machines designed for simple transportation by crane or fork lift.

Installation and starting-up are fast, making the machine ready for operation in just a few hours.

The integrated part handling system offers two external loading/unloading positions for interfacing with the production part flow via conveyors, robots or gantry loaders.

Excellent accessibility and state-of-the-art controls are contributing to the operator friendliness of the concept. Via the control panel with LCD color display, setting, manual and automatic modes are monitored. The Superfinishing know-how is stored in the vast technology memory. This guarantees reproducible Superfinishing results and consistent quality parameters at all times.

Angular contact ball bearing inner ring, double row

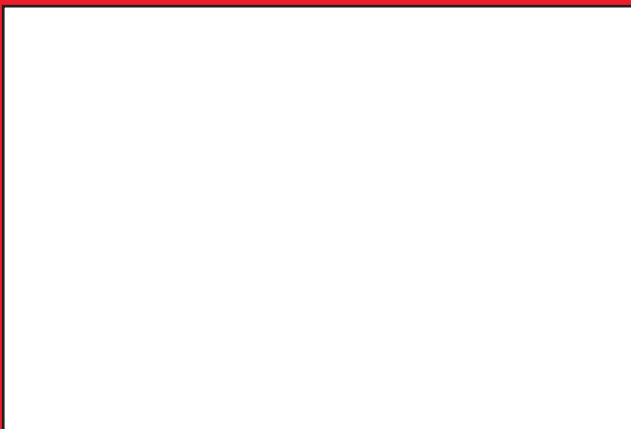


Ring outer Ø approx.:	64 mm	Roughness Ra:	< 0.04 µm
Ring width:	36 mm	Roundness:	< 1.2 µm
Material: hardened bearing steel		Profile error:	< 1.2 µm



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Surface Finishing Systems
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