supfina

Superfinishing-Machine Supfina RaceFlex 725-727





Superfinish

Machining of ball bearing and roller bearing inner and outer rings

- NC controlled rotary oscillator to produce the desired surface (plateau)
- NC controlled, infinitely adjustable oscillating angle / amplitude optimized for the respective cycle
- Automatic infinitely adjustable contact angle
- NC-controlled linear oscillator for machining of any type of profile like e.g. concave, convex, straight, spherical and logarithmic with the NC-controlled superimposed stroke
- Infinitely adjustable oscillation frequency

- NC-controlled pressure rollers
- NC-controlled roller centering device
- NC controlled hydrostatic mandrels for bore centering
- Manual or optional automatic loading and unloading
- Control with digital drives for linear and rotary motions
- One- or multi-step operation method with 2/3 way stone indexing device
- Vertical spindles and actively controlled workpiece handling to avoid damages



SUPFINE RaceFlex 725-727

Type: Workpiece-Ø: Workpiece width:

A 50-320mm 8-100mm

B 100-650mm 20-200mm

C 600-1200mm 50-400mm

D 800-1600mm 100-450mm



Our system features

your benefit

NC-controlled rotary and linear oscillator Superfinishing units

- → Highest possible flexibility to machine any given raceway geometry
- → Reproducible top quality also in small batch production

Stone indexing device for two- or three-step process

- → Generation of optimized bearing surface quality
- ⇒ Extended tool live

Machine can be upgraded with one or two auxiliary Superfinishing units

- → Tape unit for OR outer diameter
- → Tape unit for tapered roller bearing IR lip

- Cup wheel unit for cylindrical roller bearing flange
- Cup wheel unit for spherical roller thrust bearing flange

Flexible, infinitely adjustable centering systems

- → Fast setting process
- → Range tooling with only few exchange parts

Large working range and versatility for different workpiece types

- → Suitability for small and medium size batches
- → Built-in capability to cope with future changes in your product range





The Supfina RaceFlex 725-727 is designed to achieve consistent top quality and highest flexibility in Superfinishing Aeroengine bearings, prototypes or other small production batches. Unmatched versatility is based on the combination of up to four different Superfinishing units in one machine.

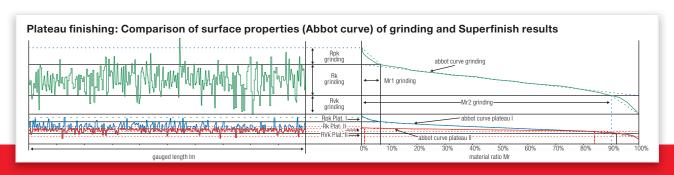
The powerful rotary and linear oscillator systems for the raceway finishing operation can be complemented with tape finishing units for outer diameters and flanges as well as cup wheel spindles for lip and thrust face operations.

Clamping and centering systems as well as the workpiece drive are just as flexible.

Supfina relies on state-of-the-art modules that have been optimized over decades and that can be adjusted to a new workpiece quickly while requiring only a minimum of type dependent tooling. Due to the intelligent design, set-up times of less than 20 minutes are achieved, supported by NC controlled adjusting axes.

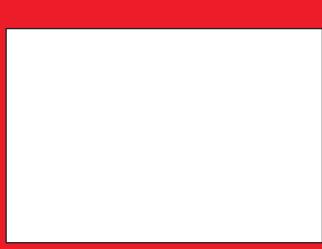








Surface Finishing Systems www.supfina.com



With locations in America and Asia and over 50 distributors worldwide we can offer customers comprehensive global service.

Supfina Grieshaber GmbH & Co. KG
Schmelzegrün 7 · 77709 Wolfach / Germany
Phone +49 7834 866-0 · Fax +49 7834 866-200
info@supfina.com · www.supfina.com

Supfina Machine Company, Inc.

181 Circuit Drive · N. Kingstown, RI 02852 / USA

Phone +1 401 294-6600 · Fax +1 401 294-6262

info@supfina.com · www.supfina.com

Supfina Grieshaber GmbH & Co. KG
Bejing representative Office
DiYang Tower 1202B
Chaoyang District Bejing 100027 / P.R. China
Phone +86 84536-669 · Fax +86 84536-670
supfina@126.com · www.supfina.com