

supfina

Superfinishing-Machine

Supfina MultiFlex



**Flexible machining
of components with
rotary symmetry**



Superfinish

Machining of toothed racks, threaded ball spindles, shafts and rollers

Supfina's MultiFlex series machines are modular constructions. The simple implementation of various processes using the same base machine, e.g. tape superfinishing, stone finishing, ball spindle finishing and brushing make them universally applicable.

In this way, all processes needed to finish state-of-the-art steering racks can be run using the same machine concept, with short cycle times and a high degree of flexibility.

supfina MultiFlex

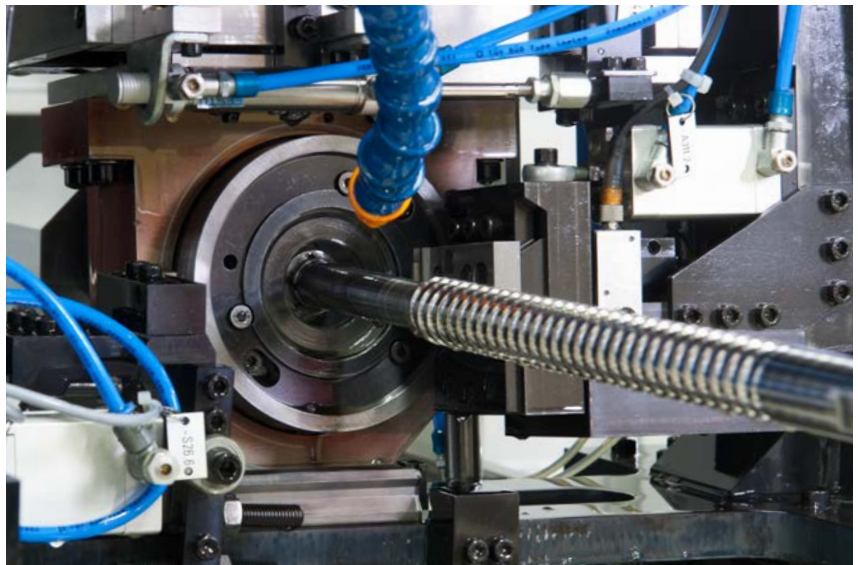
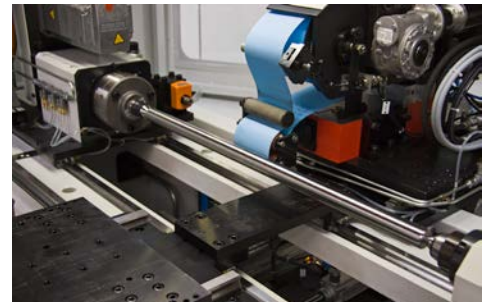
Workpiece length:	max. 1000mm
Workpiece diameter:	max. \varnothing 100mm
Ball spindle diameter:	max. \varnothing 35mm



Supfina 722/1 MultiFlex
with pallet system



Interlinked use of two Supfina MultiFlex machines



The Supfina MultiFlex can be used with up to two independently NC controlled unit slides.

The tools used can be tapes, stones, cup-wheels or brushes.

The workpieces are loaded with an NC double pallet system or optionally with a walking beam. It is also possible to opt for manual cycle time parallel loading using the double pallet system.

Thanks to its flexibility, the Supfina MultiFlex is suitable for a wide range of superfinishing operations for:

- steering racks and toothed racks
- ball screw spindles
- rotary-symmetrical shafts and rollers.

Due to the modular design, a wide range of different processes can be integrated in the same basic machine:

- threaded ball spindle finishing
- Y flats finishing
- superfinishing of the tooth backs
- superfinishing piston surfaces
- brush descaling and deburring
- journal and cam finishing with tape and / or stones



Toothed rack / ball spindle

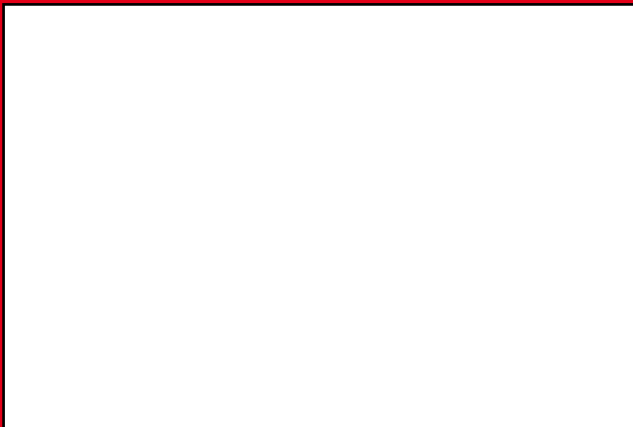


Ra	0,1 μm
R _{PK}	$\leq 0,15 \mu\text{m}$
R _K	$\leq 0,50 \mu\text{m}$
R _{VK}	$\leq 0,80 \mu\text{m}$
Cycle time	60s



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Surface Finishing Systems
www.supfina.com



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
Beijing representative office
DiYang Tower 1202B
Chaoyang District Beijing 100027 / P.R. China
Phone +86 84536-669 · Fax +86 84536-670
supfina@126.com · www.supfina.com