

supfina

Superfinishing-Machine

Supfina MultiTool



**The compact
solution for superfinish
machining of shafts**



Superfinish

Supfina MultiTool - compact and universal

The new Supfina MultiTool is the next generation of the Supfina 660/668 series designed to meet customers requirements today.

The MultiTool combines many years of Supfina surface superfinishing Know How with ideas from our numerous well known customers in the automobile industry as well as suppliers to the automobile industry.

Areas of Application:

The MultiTool is designed for superfinishing small shafts up to max. 700 mm length especially camshafts, gear shafts, balancing shafts and even eccentric shafts between centers.

Depending on the customer requirements, superfinishing of high volume workpieces can be optimized to the shortest finishing cycle or designed for flexible production of similar workpieces. Tooling can be either tape or stone.

You have the choice –
Supfina MultiTool has the solution.



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Center width: 50–500mm

Spindle speed: 100–375 RPM

Optional: 750 RPM

Oscillation Frequency:

Standard: max. 350
double strokes/min

Option: max. 800
double strokes/min

Superfinishing
Attachments: max. 15



Ergonomics → User Friendly

- Low construction and movable service positions guarantee easy reach of all important components
- Wide operator doors at the front and rear as well as movable tools optimize accessibility
- Supfina standard: all valves and electrical equipment are assembled outside the machine work area and are easily accessible

Economy → Your Advantage

- Highest tool efficiency by using 300 m tape rolls and individual, adjustable tape feed
- Integrated tape removal system without production stoppage
- Lowest change-overs via Supfina quick-change system of finishing shoes and stone holders
- Short cycle times via cycle time parallel loading/unloading (manual or automatic)
- Economical connection of several finishing stations via integrated workpiece shuttle system

Advantages via compactness and universality:

- Self-contained machine
- Simple pneumatic/electric construction for low acquisition and operation costs
- Newly developed, compact superfinishing units facilitate the simultaneous finishing of adjacent surfaces, or two step processes with varying workpiece specifications with only one clamping
- Machine can be tooled-up with stone and/or tape
- Possibility to use "Soft" or "hard" shoes

- Possibility to select individual attachments or arms for rework
- Easy and economic adaptation to new workpieces

Special processes:

- Lead-free finishing of sealing surfaces
- Removal of chatter marks and waviness
- Removal of ferrite caps on cast workpieces
- Deburring of oil holes



Easy accessibility via movable tools



Manual loading or simple integration into automatic systems



Examples of applications:

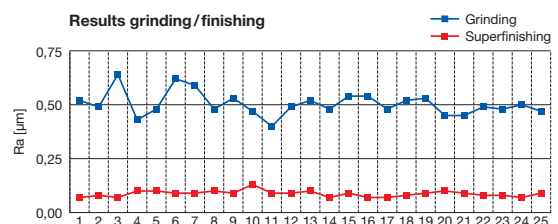
- Mains
- Cams
- Eccenters
- Pins
- Flanges
- Radii

Drive shaft (steel, case hardened)



Results

Ra < 0,2 µm
One step process
Cycle time including loading 24 s



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Surface Finishing Systems
www.supfina.com

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



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