

supfina



Flexible superfinishing of shafts
with stone or tape

MULTITOOL

Supfina MultiTool

Flexible superfinishing of rotationally symmetrical components



The latest machine in Supfina's 660/668 series, the MultiTool is designed to flexibly meet our customers' exact requirements.

The MultiTool combines many years of Supfina surface-finishing expertise with input from some of the biggest names in the automobile industry (as well as from ancillary suppliers).

Areas of Application

The MultiTool is designed to superfinish small shafts up to 500 mm or 700 mm long (between centers), especially camshafts, gear shafts, balancing shafts, and even eccentric shafts.

Depending on the customer's requirements, high volumes of workpieces can be finished using the shortest cycle times. The MultiTool is also designed for the flexible production of similar workpieces. Tooling can be either tape or stone.

Examples of applications

- Mains
- Cams
- Eccenters
- Pins
- Flanges
- Fitting bearing

Whatever your superfinishing requirement, the Supfina MultiTool provides a compact solution.

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Center width	50 - 500 mm 250 - 700 mm
Spindle speed	100-375 RPM optional bis 750 RPM
Oscillation frequency in double strokes/min.	max. 350 optional max. 800
Superfinishing attachments	max. 15

Other advantages

- Compact, self-contained machine
- Simple pneumatic/electric construction for low acquisition and operation costs
- Newly developed, compact superfinishing units for simultaneous finishing of adjacent surfaces
- Two-step processes for varying workpiece specifications with only one clamping
- Use of finishing stone and/or tape
- Use of "soft" or "hard" shoes
- Possibility to select individual attachments or arms for rework
- Easy and economical adaptation to new workpieces

Special processes

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



Convincing Advantages

- 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.
- All valves and electrical equipment are assembled outside of the machine work area and thus are easily accessible.
- 300-meter tape rolls and individual, adjustable tape feed ensure highest tool efficiency.
- Integrated tape-removal system prevents production stoppage.
- Supfina quick-change system speeds changes of finishing shoes and stone holders.
- Parallel loading/unloading (manual or automatic) allows short cycle times.
- Integrated workpiece-shuttle system economically connects several finishing stations.

Your solution provider

An ideal solution is the result of constant interaction and development. We know this as well as our customers do, which is why Supfina's corporate philosophy is based on an integrated approach. This means combining traditional knowledge and experience with high technology and uncompromising customer service.

Supfina Grieshaber conducts targeted research and combines many years of experience in the field of superfinishing and grinding as well as automation with knowledge of upstream and downstream processes.

As a system supplier, we offer you complete solutions from one source. We develop the right professional solution for every requirement. This allows you to react quickly to changing customer requirements and strengthen your own market position.

Our systems are supplemented by a comprehensive, digitally supported service to ensure that as a customer, you can continue to rely on Supfina at all times.

Supfina Grieshaber is your reliable partner worldwide when it comes to implementing economical machining solutions for the highest demands – both today and into the future!

Are you looking for the right and economical solution for your manufacturing processes?

Talk to us!

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