Simplex Rapid

A TRADITION OF QUALITY

AFC0

PRECISION GRINDING MACHINE FOR TOOLS AND CUTTING MANDRELS

Precision grinding machine for tools and cutting mandrels, specially developed for roughing and finishing tools normally used to produce small or very small springs (cutting mandrel, coiling finger – excl. grooves, pitch and cutting tools)

Chuck: mandrel-holding chuck rotating on precision bearings, assembled on a turning table translating on XY plane by means of linear guides with micrometrical adjustment.

Grinding wheel holding head: tilting grinding wheel holding head that allows a quick wheel change by simply pressing a button.

Grinding wheels: two special pre-shaped grinding wheels with different roughness grade (coarse and fine) and one polishing wheel.

Functionality: solid supporting structure with storage compartment for grinding wheels.

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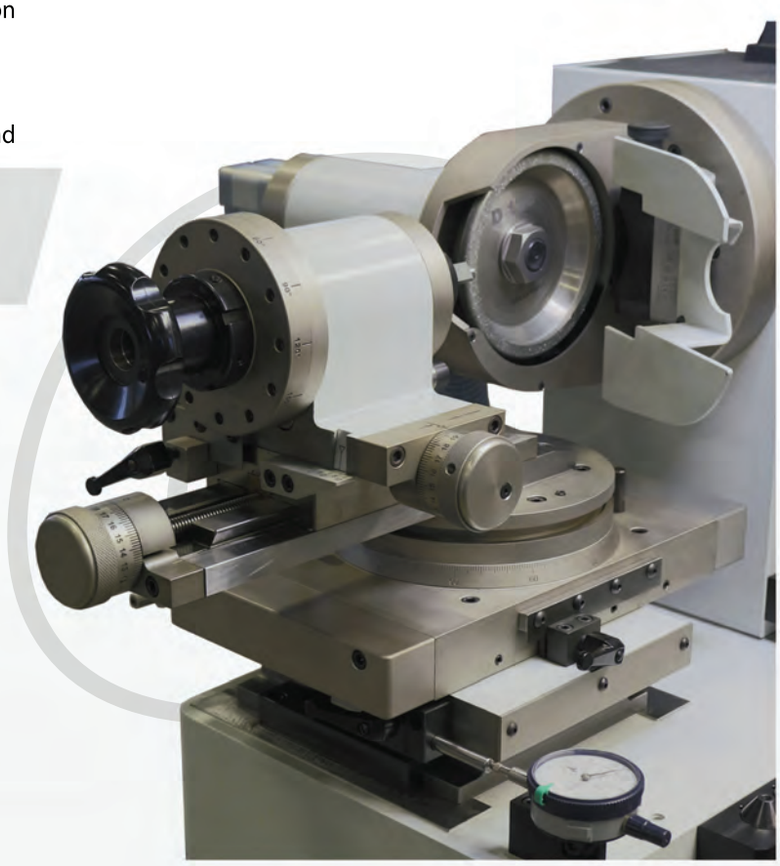
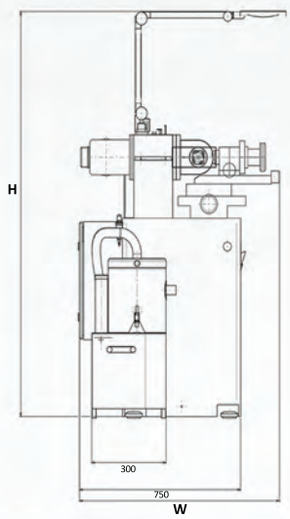
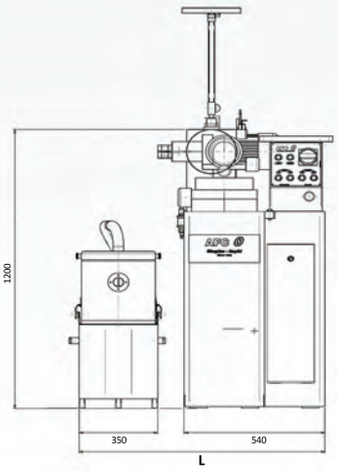
Features

- tool-holding chuck with high precision angular ball bearings (preloaded bearings).
- locking system on the tool-holding chuck without the use of wrenches.
- the chuck bidirectional rotation is particularly useful during the finishing stage of very small tools.
- chuck support assembled on a rotating base equipped with a large scale plate for the exact repetition of the required grinding angle.
- the grinding wheels are assembled on a special hub with a centring hole, a large frontal plane and a locating pin to ensure the grinding plane repeatability and flatness.
- easy-to-read device for the grinding wheel angular positioning on the scale plate.
- centesimal vernier callipers and a dial indicator for reading movements/positionings with centesimal accuracy.
- cast iron slides with hardened steel guides moved by hardened and ground screws.

Equipment

- solid base in electro-welded sheet steel with a storage compartment.
- dust suction device.
- lamp with lens.
- 2 special shaped grinding wheels for SC tooling (1 roughing wheel - 1 finishing wheel).
- 1 special polishing grinding wheel for SC tooling.
- 1 set of 3 accessories for grinding all machine tools (coiling finger, mandrel, pitch tools for size 5 or 10 or 15).
- 1 set of 15 spacers for the offset grinding of the cutting mandrel.
- tempered and ground working table for the manual shaping of the wire guides.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Ø Grinding wheels (mm)	125
Max. tool size (mm)	7 x 10
Electric power (kW)	2.0
Dimensions (LxWxH mm)	950 x 970 x 1700
Net weight (kg)	350