

Wire Shaping & Polishing Machine RF-15

Wire stroke action:

- Motor power 250 W AC.
- Adjustable speed from 20 to 250 strokes per minute.
- Fixed strokes of 70 mm.

Die rotation:

- 250 W AC motor.
- Electronic variable control up to 1800 RPM.
- V belt drive.
- Die holder for 25 up to 55 mm case diameter



GENERAL SPECIFICATIONS:

Die size range	: 1.5 to 9.0 mm
Standard die holder	: maxi Ø 55 mm H = 40 mm
Standard wire clamp	: with spring from 1.50 to 3.00 mm : with «V» block from 3.00 to 9.00 mm
Width	: 330 mm (430 mm)
Depth	: 415 mm
Height	: 700 mm
Weight	: 70 Kg
Power supply	: 220 V AC 50/60 Hz - 600 W 1 Ph



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The RF-15 is a wire type polishing machine to calibrate and give the final polish to natural and polycrystalline diamond dies of sizes from 1.5 up to 9.0 mm.

The RF-15 has been specially developed to minimize all vibrations created by the combined motions at high speed. This absence of vibration is necessary to ensure the minimum out of roundness while providing a precise geometry and a superfine finish.

The RF-15 complements our range of wire shaping and polishing machines:

- AJF 97 used for calibrating and polishing of small dies from 0.010 to 0.10 mm
- RF 06 used for calibrating and polishing of dies from 0.025 to 3.00 mm

The process uses diamond powder acting on the surface of the die profile by the combined reciprocation of the wire and the rotation of the die.

The die holder on this machine does not oscillate due to the size range of dies worked and corresponding wire diameter. The polishing of the reduction cone must be done separately on a BALLOFFET ultrasonic machine of type BD.

Each motion can be adjusted independently with electromechanical timers to set the final stops or pauses for abrasive refills without danger to the operator.



Shown above as a stand alone machine, the RF-15 is compact and several can be banked together. The RF range, being of the same dimensions, can also be banked altogether.

To do so, the side handles can be dismantled, thus reducing the space required on the work bench.

An adjustable halogen lamp provides a good view of the working area.

Maintenance is facilitated by the use of common mechanical, electrical and electronic parts between the machines of our range.

