

# Ultrasonic Die Polishing Machine

## MODEL: US BNG 250/300



The machine is designed and developed for resizing and repolishing of PCD, Natural & Mono diamond dies.

The machine mainly consists of ultrasonic generator, rotating ultrasonic head, Oscillating die table and built in needle grinder. Needle fixing is by soldering for Optimum transfer of ultrasonic power. The Die up and down is motorized. The Die pressure is magnetic.

The speciality of the machine is that accurate die angles can be produced repeatedly. The frequency and the amplitude of the ultrasonic waves can be varied. The machine can also be used for working round and conical holes of Tungsten carbide, ceramic and hard metals.

The machine is supplied with a set of spares and standard accessories which makes a package and ready to use.

### Standard Accessories:

USBNG 250: Soldering type horn : Ø 1.5, 2, 3, 4 & 6 mm: 2 nos each, US Needles: Ø 1.5, 2, 3 - 100 no's each & 4 & 6 mm - 50 nos each. Spanner: (18 - 19) - 2 nos, (16 - 17) - 1 no., Water can: 1 no, Wax cake: 250 gms, Round belt Ø 4 & 6 x 500 mm- 1 no each, Fuse: 5 Amps - 10 nos, Latch switch: 1 no, Potmeter: 1K -1 no, Grinding Wheel: Fine CBN Ø 80X20X23 mm.  
Additional Accessories for USBNG 300: Horn: Ø 8,10 & 12 mm each 5 nos., Fuse: 10 Amps - 10 nos

### Model Range

S. No.	Model	Type	Size Range
1.	USBNG 250	Semi Automatic	0.100 – 2.500 mm
2.	USBNG 300	Semi Automatic	0.100 – 8.000 mm

### Technical Specification

Item	US BNG 250/300	Item	US BNG 250/300
<b>Generator</b>		<b>Machine</b>	
System	Continuous current	Operation	Semi Automatic
Ultrasonic	250/300 Watts	Die rotation speed	60 - 120 rpm
Max hf current	400 m. amps	Die up and Down	25 mm
Tuning	Auto	Die pressure	Magnetic
Input mains	220 Volts AC	Needle size	Φ 2,3,4,5 & 6 / 2,3,4,5,6,8,10 & 12mm
Main fuse	5/10 Amps	Needle angle	0 – 60 degrees
<b>Transducer</b>		Head up & Down	50 mm
Type	Rotating	Needle grinding	Manual – By Swing
System	Piezo electric	Nett weight	115 Kgs
Frequency	22 ± 5% KHz	Gross weight	185 Kgs



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USBNG

ND Dies

Mono Dies

Diamond Powder

SMP Dies