# Sheenus ZERO

# **Ultrasonic Polisher**



Sheenus ZERO is a high-speed polishing machine providing ultrasonic vibration, 40  $\mu$ m max vibration amplitude with 29 kHz per second. Sheenus ZERO provides minimal hand vibration while maintaining high efficiency power. A heat protection function improves safety.

#### Improved visibility

An informative digital LED display on the controller clearly shows the operation function. Blue LED on the handpiece flashes during operation to indicate power ON.

#### High efficiency power

Sheenus ZERO applies optimized frequency to the tools. Power transmission performance is increased by 16% compared with previous model.

#### Heat protection function

Sheenus ZERO automatically suppresses the output and keeps the temperatures from rising, allowing for continuous

#### Improved energy savings

Rated power consumption is reduced by 13% compared with previous model.

(SHEENUS neo: 31 W → Sheenus ZERO: 27 W)

#### Light weight

The weight of controller is reduced by 29% compared with previous model.

(SHEENUS neo: 2.1 kg → Sheenus ZERO: 1.5 kg) Convenient to carry around.

- Adapted the worldwide power supply, 100 240V
- High-frequency noise is reduced by a sine wave drive.

#### Sheenus ZERO set

- Sheenus ZERO can be used for grinding, polishing and mirror finishing on a wide range of materials from aluminum dies to cemented carbide dies. It is also perfect for plastic molds, press, casting, forging, trimming and header dies.
- This tool quickly removes hard layers of EDM deposits and polishes difficult areas such as complex corners and ribs.
- Capabilities include deburring, grinding and polishing of precision molds, dies electronic and ceramic components.



Code No.	Model
7775	US-50P Set 120V
7776	US-50P Set 230V

\*Adapted the worldwide power supply, 100 - 240V. Please choose the plug type of main power cord.

#### Standard equipment

- ●Controller: 1 pc.
- ●Handpiece: 1 pc. ●Tools: 1 set
- #60101 Electroplated diamond file (#200, Flat taper, 4 x 50 mm, t=0.4): 1 pc. #60519 Ceramic fiber grindstone (#800, Flat, 6 x 50 mm, t=1.0): 1 pc. #60902 Tip holder (For round, \$ 3.0 tip): 1 pc.

#60922 Tip holder (For flat, t=1.0 tip): 1 pc.

- ●Tool box (Plastic): 1 pc.
- Spanner (10 mm): 2 pcs.
- Hexagon wrench (2.5 mm): 1 pc.
- ●Foot switch (FC-24): 1 pc.
- Spare fuse (T1.6AH 250V): 2 pcs.
- ●Main power cord (2 m): 1 pc. (Plug type: 120V or 230V)



### **Sheenus ZERO Controller**

Powerful

Max. output power is 45 W.

Digital Display

The LED display can be switched between the amplitude and WATT.

Safety

The heat protection function can be set to detect abnormal heat.

#### Specifications

Oscillation frequency: 19 kHz - 29 kHz Frequency control: Auto-tracking system Outputs: 45 W (max.) UNCLAMP mode 20 W (max.) CLAMP mode Output adjustment: 21 steps variable Rated input: AC 100 - 240V Rated power consumption: 27 W Dimensions: W 161 x D 256 x H 84 mm Weight: 1.5 kg

#### Standard accessories

- Spare fuse (T1,6AH 250V): 2 pcs.
- Main power cord (2 m): 1 pc. (Plug type: 120V or 230V)



A Power level indicator

- B Indicator (Display the amplitude, WATT and ERROR)
- C UP key / DOWN key
- D ERROR / WATT
- **E** ON / OFF key (Start and stop the handpiece)
- F CLAMP kev
- G Main power switch
- H UNCLAMP kev



Code No.	Model
7778	Sheenus ZERO CONTROLLER 120V
7779	Sheenus ZERO CONTROLLER 230V

Sheenus ZERO is not compatible with SHEENUS neo.

\* Adapted the worldwide power supply 100 - 240V Please choose the plug type of main power cord.

LED

## Sheenus ZERO Handpiece

Comfortable Usability

Light weight, ergonomically designed resin body enables effortless, precision work over long periods of time.

Easy Tool Installation Easy tool installation using spanners.



#### **Specifications**

Oscillator: PZT piezoelectric type Attachment fixing: M6 x P0.9 screw Cord length: 3 m Dimensions: Max. 6 28 x L 134 mm

Weight: 140 g (excluding cable)

Sheenus ZERO is not compatible

\*Tip holder and ceramic fiber grindstone in this picture are not provided when only handpiece is purchased. Nakanishi genuine tools are highly recommended.

> Code No. Mode 7780 US-50P

#### **Sheenus ZERO Spare Parts**

with SHEENUS neo.

Product	Code No.	Description				
	8103	FC-24 Foot switch (ON/OFF switch only)				
1		Spanner 10 mm Available in the market				
	_	Hexagon wrench 2.5 mm Available in the market				

#### ♦Order by Code No.

# Sheenus ZERO Tools

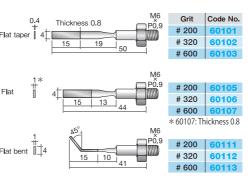
\*Order in standard package quantities.

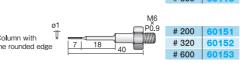
#### 1 pp./pack Electroplated Diamond File

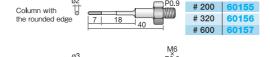
·Ideal for grinding due to the large abrasive grain protrusion amounts.

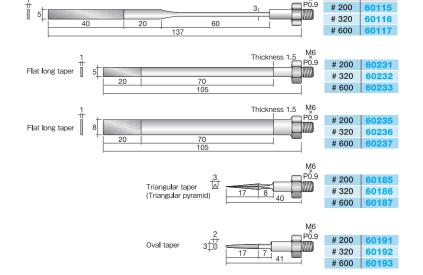
•The shape of file is suitable for the areas such as ribs, corners and holes. ·Use it with UNCLAMP mode.

Flat long









# 2 pos./pack Ceramic Fiber Grindstone Tip



·Alumina fiber abrasive with the strength and the flexibility for final polishing. ·Soft feeling in use and good cutting quality contribute comfortable finishing. ·Provides the smooth surface without scratch.

·By dressing it can be used for grinding on fine shape and slit.

\* Use after clamping in special tip holder.

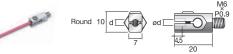




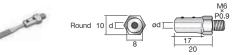
# 2 pos./pack Special Tip Holder

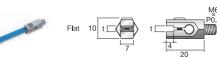


- ·These are special tip holder to clamp the tools. Choose by tip size and shape.
- ·Use it with CLAMP mode.
- \* Please take note that if Nakanishi genuine tools are not used, it may not be possible to maintain the proper performance, so as generating abnormal vibration or no vibration.



Used for round ceramic fiber grindstone tip. Best for soft materials





Used for flat	ceramic 1	fiher	grindstone	tin	Rest	for hot	h hard	and	soft ma	aterials
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 $t = 0.8 \, \text{mm}$  $t = 1.0 \, \text{mm}$  $t=2.0\,\text{mm}$  $t = 3.0 \, \text{mm}$  $t = 3.3 \, \text{mm}$ 

Grain diameter Code No.

d=@2.0 mm

d=ø3.2 mm

d=ø2.0 mm 6

d=ø3.2 mm

d=ø3.0 mm 60912

 $d = \emptyset 3.0 \, \text{mm}$ d=ø3.3 mm

♦Order by Code No.



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