

# Sheenus ZERO

## Ultrasonic Polisher



Sheenus ZERO is a high-speed polishing machine providing ultrasonic vibration, 40  $\mu\text{m}$  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.

### Improved energy savings

Rated power consumption is reduced by 13% compared with previous model.  
(SHEENUS neo: 31 W  $\rightarrow$  Sheenus ZERO: 27 W)

### High efficiency power

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

### Light weight

The weight of controller is reduced by 29% compared with previous model.  
(SHEENUS neo: 2.1 kg  $\rightarrow$  Sheenus ZERO: 1.5 kg)  
Convenient to carry around.

### Heat protection function

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

- 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.

#### 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,  $\phi$ 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)



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.

## 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.



- 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 key
- G Main power switch
- H UNCLAMP key

Handpiece can be placed on the controller.



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

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

### 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)

⚠ Sheenus ZERO is not compatible with SHEENUS neo.

## 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.  $\phi$  28 x L 134 mm  
 Weight: 140 g (excluding cable)

\* 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.	Model
7780	US-50P

⚠ Sheenus ZERO is not compatible with SHEENUS neo.

### Sheenus ZERO Spare Parts

Product	Code No.	Description
	8103	FC-24 Foot switch (ON/OFF switch only)
	—	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 pc./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.

Shape	Thickness	Grit	Code No.
Flat taper	0.4	# 200	60101
	1	# 320	60102
	4	# 600	60103
Flat	1*	# 200	60105
	4	# 320	60106
	15	# 600	60107
* 60107: Thickness 0.8			
Flat bent	1	# 200	60111
	4	# 320	60112
	15	# 600	60113
Column with the rounded edge	$\phi$ 1	# 200	60151
	7	# 320	60152
	18	# 600	60153
Column with the rounded edge	$\phi$ 2	# 200	60155
	7	# 320	60156
	18	# 600	60157
Round taper (cone-shaped)	$\phi$ 3	# 200	60181
	17	# 320	60182
	40	# 600	60183
Flat long	1	# 200	60115
	5	# 320	60116
	137	# 600	60117
Flat long taper	1	# 200	60231
	5	# 320	60232
	105	# 600	60233
Flat long taper	1	# 200	60235
	5	# 320	60236
	105	# 600	60237
Triangular taper (Triangular pyramid)	3	# 200	60185
	17	# 320	60186
	40	# 600	60187
Oval taper	2	# 200	60191
	17	# 320	60192
	41	# 600	60193

### 2 pcs./pack Ceramic Fiber Grindstone Tip



Grit	Color	W = 4 mm	W = 6 mm
# 120	Violet	60511	60516
# 220	Brown	60512	60517
# 400	Orange	60513	60518
# 800	Blue	60514	60519
# 1,200	Red	60515	60520

  

Grit	Color	Code No.
# 220	Gray	60551
# 300	Magenta	60552
# 400	Orange	60553
# 600	Black	60554
# 800	Blue	60555
# 1,000	White	60556
# 1,200	Red	60557

- 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 pcs./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.

Shape	Grit	Code No.
Round 10	d = $\phi$ 2.0 mm	60901
	d = $\phi$ 3.0 mm	60902
	d = $\phi$ 3.3 mm	60903
	d = $\phi$ 3.2 mm	60904
Round 10	d = $\phi$ 2.0 mm	60911
	d = $\phi$ 3.0 mm	60912
	d = $\phi$ 3.2 mm	60913
Flat 10	t = 0.8 mm	60921
	t = 1.0 mm	60922
	t = 2.0 mm	60923
	t = 3.0 mm	60924
	t = 3.3 mm	60925

◆ Order by Code No.



Headquarters-Factory  
 700 Shimohinata, Kanuma, Tochigi 322-8666, Japan  
 TEL +81-289-64-3520 FAX +81-289-62-1135

www.nakanishi-inc.com  
 NAKANISHI INC. 2020



PR-K344E Ver.1 '20.08.00. ㊦