

Sheenus ZERO

Ultrasonic Polisher



Sheenus ZERO is a high-speed polishing machine providing ultrasonic vibration, 40 μm 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 use.

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, φ 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 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.

⚠ 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. ϕ 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.

⚠ Sheenus ZERO is not compatible with SHEENUS neo.

Code No.	Model
7780	US-50P

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 4 15 19 50	0.8	# 200	60101
		# 320	60102
		# 600	60103
Flat 1* 4 15 13 44	0.8	# 200	60105
		# 320	60106
		# 600	60107
* 60107: Thickness 0.8			
Flat bent 1 4 15 10 41	0.8	# 200	60111
		# 320	60112
		# 600	60113
Column with the rounded edge ø1 7 18 40	0.8	# 200	60151
		# 320	60152
		# 600	60153
Column with the rounded edge ø2 7 18 40	0.8	# 200	60155
		# 320	60156
		# 600	60157
Round taper (cone-shaped) ø3 17 8 40	0.8	# 200	60181
		# 320	60182
		# 600	60183

Shape	Thickness	Grit	Code No.
Flat long 1 5 40 20 60 3 137	1.5	# 200	60115
		# 320	60116
		# 600	60117
Flat long taper 1 5 20 70 105	1.5	# 200	60231
		# 320	60232
		# 600	60233
Flat long taper 1 8 20 70 105	1.5	# 200	60235
		# 320	60236
		# 600	60237
Triangular taper (Triangular pyramid) 3 17 8 40	0.8	# 200	60185
		# 320	60186
		# 600	60187
Oval taper 2 3 17 7 41	0.8	# 200	60191
		# 320	60192
		# 600	60193

2 pcs./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.

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

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	Grain diameter	Code No.
Round 10 d ød 7 4.5 20	d=ø2.0 mm	60901
	d=ø3.0 mm	60902
	d=ø3.3 mm	60903
	d=ø3.2 mm	60904
Round 10 d ød 8 17 20	d=ø2.0 mm	60911
	d=ø3.0 mm	60912
	d=ø3.2 mm	60913
Flat 10 t 7 4 20	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

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

Used for round electroplated diamond file. Best for hard materials.

Used for flat ceramic fiber grindstone tip. Best for both hard and soft materials.

◆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. (Y)