

Clear cut with low processing pressure assists manual operations.

High-power ultrasonic cutter with ultrasonic power output of 220 W. The tool's ultrasonic vibrations at a frequency of 22 kHz (22,000 vibrations per second) greatly reduces cutting resistance. A variety of materials can be cut even more quickly and cleanly with lower processing pressure. Ideal combinations for SF-3400 available for your application.

Features

- ◎ Infinitive adjustment of power output between minimum and maximum.
- ◎ Amplitude control circuit ensures stable vibration amplitude at all times.
- ◎ Equipped with overload-protection circuit.
- ◎ Equipping with air inlet enables forced cooling.

Oscillator SF-3400



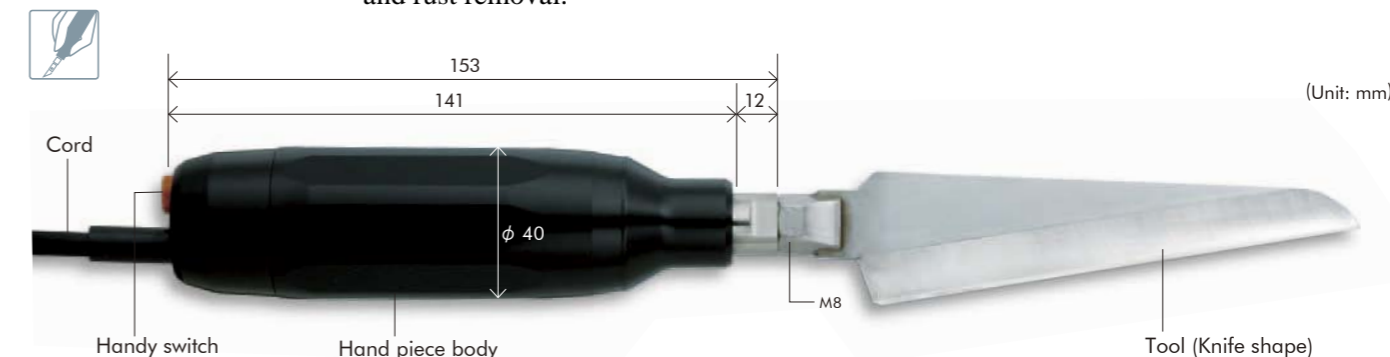
Specification

Frequency	22KHz
Frequency adjustment	Auto-tracking type
Maximum power output	220 W
Power output adjustment	Infinitive adjustment
Power supply	AC200V 50/60Hz 1φ
Electricity consumption	500 VA
Outer dimension	143W x 294D x 262H (mm) (Exclusive of the handgrip : 212H)
Weight	4.5 kg

* Hand piece is used in combination with the oscillator SF-3400. Please select a hand piece for your application and intended purpose.

SF-7400

Manual transducer for use with large tools such as chisel and knife shape, assisting high-power manual operations including food processing, stripping exterior walls of buildings, and rust removal.



Applicable materials

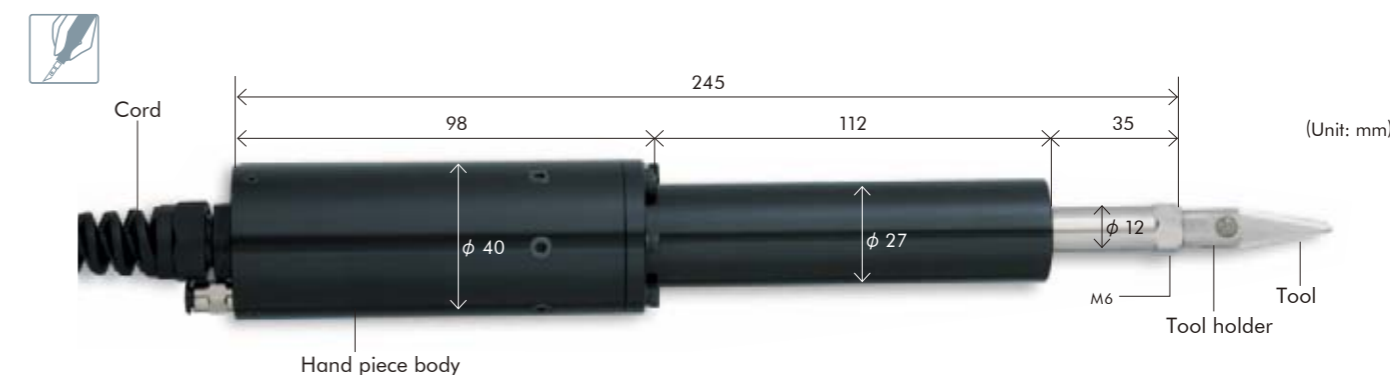
- ◎ Food processing.
- ◎ Stripping exterior walls of buildings.
- ◎ Rust removal.

Specification

Vibration element	PZT piezoelectric transducer
Screw thread	M8
Cord length	4m (maximum extension is 10 m.)
Housing material	Polyoxymethylene (Duracon)
Outer dimension	φ 22 / φ 40 × 150L (mm)
Weight	305g (Exclusive of the cord)
Handy switch	Push button

SF-3140

Highly-versatile hand-tool compatible with small and large blades depending on each application.



Standard tool



Applicable materials

- ◎ Rubber (Vulcanized/Unvulcanized)
- ◎ Cloth/Fabric, Bonded textile
- ◎ Paper, Cardboard

Specification

Vibration element	PZT piezoelectric transducer
Screw thread	M6
Cord length	4m (maximum extension is 10 m.)
Housing material	Aluminum alloy
Outer dimension	φ 12 / φ 27 / φ 40 × 245 (mm)
Weight	560g (Exclusive of the cord)
Blade thickness	0.6mm (a blade suitable for your application can be manufactured from 0.4 mm and up in thickness).

* Specifications are subject to change without notice due to continual improvements. Please confirm when placing your order.

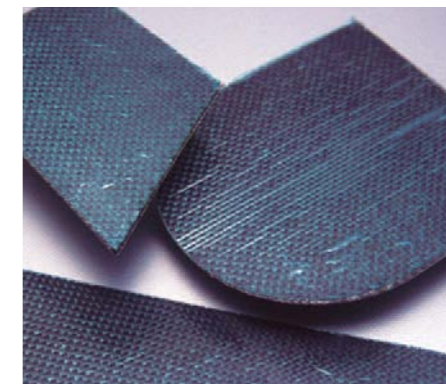
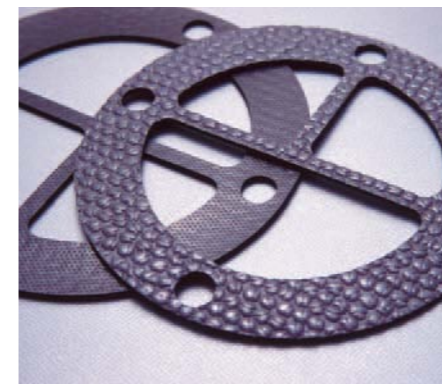
Specification

Oscillator	Oscillator	SH-3510		SF-3441		SF-3410			SF-3400		SF-650	SF-651	SF-60		
	Transducer	SH-8700	SG-110	SF-8541	SF-8541R	SF-8500	SF-8500R	SF-3110	SF-7400	SF-3140	HP-650	HP-651	SF-9400	SF-6100	SF-6000
	Frequency	30kHz		40kHz		22kHz			22kHz		40kHz		25kHz		
	Maximum output power	500W		300W		220W			220W		45W		45W		
	Power supply voltage ^{*1}	200V		200V		200V			100V		100V		100V		
Transducer	Maximum amplitude ^{*2}	80 μ	-	60 μ		60 μ			-	60 μ	30 μ		10 μ		
	Automated machinery-mounted-type	○	○	○	○	○	○	○				○		○	○
	Manual-operation type								○	○	○		○		
	Rotary connector	(○) ^{*3}			○		○								○
	Forced air cooling (for extended continuous use)	○		○	○	○	○			○		○			
	Vice-gripping blade	○		○	○	○	○			○	○	○	○	○	○
	Carbide blade	○	○			○	○			○					
	Exclusive tool ^{*4}		○					○	○						
	Robot code	○	○	○	○	○	○	○	○	○		△ ^{*5}			○
	Curled code										○		○		
	Straight code													○	
	Standard code length ^{*6}	4m		4m		4m			4m		2m	4m	2.5m	4m	
	Weight	1200g	1400g	550g	660g	560g	560g	800g	305g	560g	145g	270g	130g	150g	150g
External switch	External connection	○		○		○						○			
	DIN connector												○	○	
	Foot switch								Hand switch	○	○		○		
Applicable material ^{*7}	Carbon	○													
	Range of prepregs	○		△		○				○	△				
	Composite materials	○		○		○				○	△				
	Rubber	○	○	○		○	○	○		○	○				
	Thermoplastics	○	○	△		○	○			○	△				
	Cloth, paper, and corrugated cardboard	○		○		○			△	○	○			○	
	Sponge and foaming materials	○		○		△				△	○				
	Exterior walls of buildings		○					○	○						
	Foods (frozen foods, cakes, and breads)	○	○	△		△		○	○	△	△				
Sheeting materials	○	○	○		○		△		○	○				○	

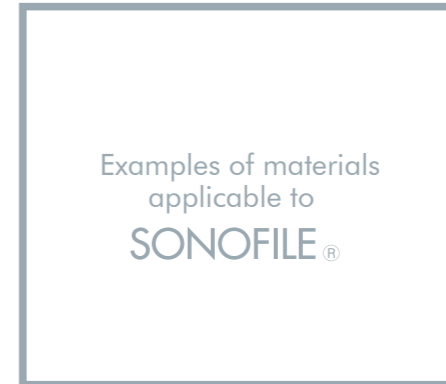
*1 Power supply voltage can be changed. *2 The maximum amplitude changes according to the tool to be used. *3 Rotary type can also be manufactured. *4 It is a built-to-order item (variable price). *5 The code near the transducer is a straight code, and it changes to a robot code afterwards. *6 The robot code can be extended to 10 m. Please specify the transducer's code length when placing your order. *7 Please consider the applicable materials as standards. Since the ideal model may vary depending on the shape and other conditions, please confirm the performance by a test cut or using a demonstration machine.

Recommendation of our Test Cut

The model and blade shapes you should choose vary depending on your material, its thickness, and the application. We will provide a free test cut if you send us a sample piece. You will be able to see the actual result of the machining performance. In case you have your own special blade manufactured, however, the extra cost will be applied.



Carbon (CFRP)



NR Sponge

Corrugated elbow

Wide-mouthed bottles