



DENTAL SOLUTIONS

PRODUCT CATALOGUE

S400

Wet Milling Machine

Precision, Efficiency
Reliability



4-Axis Milling

Achieve unparalleled precision with our advanced 4-Axis milling technology. The S400 ensures meticulous detail and perfect results, every time.



Large Water Tank

The 3.5L water tank reduces the frequency to change cutting fluid and facilitate easier maintenance.



Touch Display

Navigate through intuitive workflows effortlessly on the high-resolution 8-inch touch display. No need for a computer—just plug in a flash drive and get started immediately.



High-Performance

The integrated 6-tool gauge delivers lightning-fast manufacturing, ensuring a seamless and efficient production experience.



Robust Cast Aluminum Body

Constructed with cast aluminum, the S400 minimizes vibrations and enhances stability, providing reliable performance even for the most demanding tasks.



Versatile Connectivity

Connect effortlessly via the RJ45 connector for remote control. The S400 adapts to your needs, enhancing your operational efficiency.

Specifications

Basic Information	
Method	Wet milling
Material	All common splimp materials (up to 45mm Length) and premilled abutments
Restorations	Crown, Coping, Veneer, Inlay/Onlay, Bridge, Abutment
Structure	Solid cast aluminum body
Case	Steel plate, medical white high-gloss paint, working hatch, accessory drawer
Axis	4 axis
Linear axis X/Y/Z	Precision ball screw, precision guide rail, repeat accuracy $\pm 5\mu\text{m}$ precision motor travel, X/Y/Z: 80/70/70mm
Axis of rotation A	Precision motor, precision harmonic reducer, repeat accuracy $\pm 0.01^\circ$ A axis: $\pm 360^\circ$
Control system	Integrated FPGA high-speed parallel processing command, equipped with a real-time operating system that supports standard G command (RS274X) and extended commands. Integrated frequency converters for synchronous and asynchronous motors, make it more flexible and more compatible. Support multiple analog and digital IO.
LED	Multiple LED color indicator Ready&Milling (White) Finshed milling(Green) / Error(Red)
Spindle	
Regular	High-frequency asynchronous spindle, tool change with air (do not rotate during tool changing), air seal to prevent foreign matter from entering.
Rotate speed	Maxium 60,000 rpm
Power	1300W (5S, Pmax), 750W(S6), 500W(S1)
Bearing	High speed ceramic ball bearings, Eccentricity<3um
Chuck	Suitable for Shank diameter 4mm, 50mm length milling burs

Milling	
Tool library	Detachable tool library, 6 tools, Integrated tool gauge
Wet milling	Equipped with multiple liquid nozzles, build-in water reserve container(3.5L) and filtration system, with sensors to monitor the flow of liquid, milling without grinding additives, it is recommended to add cutting fluid Dr. ST32 for premilled abutment processing.
Conditions	
Compressed air	4-8bar(0.4-0.8Mpa), Air purity in accordance with: ISO 8573-1:2010, need to be equipped with a cold dryer
Power supply	100-120VAC, 200-240VAC, two types switchable, 50-60HZ
Data interface	RJ45 Ethernet interface, 10/100M self-adaptive, required for networking.
Temperature	10-45° C
Humidity	80% relative humidity, non-condensing
Certification	
CE & FCC	
Size & Weight	
Product Size	L*W*H 516mm*386mm*560mm
Product Weight	75 kg
Package Size	L*W*H 590mm*540mm*830mm
Package Weight	80 kg
Accessories	
CAM	Support Millbox, Hyperdent and WorkNc