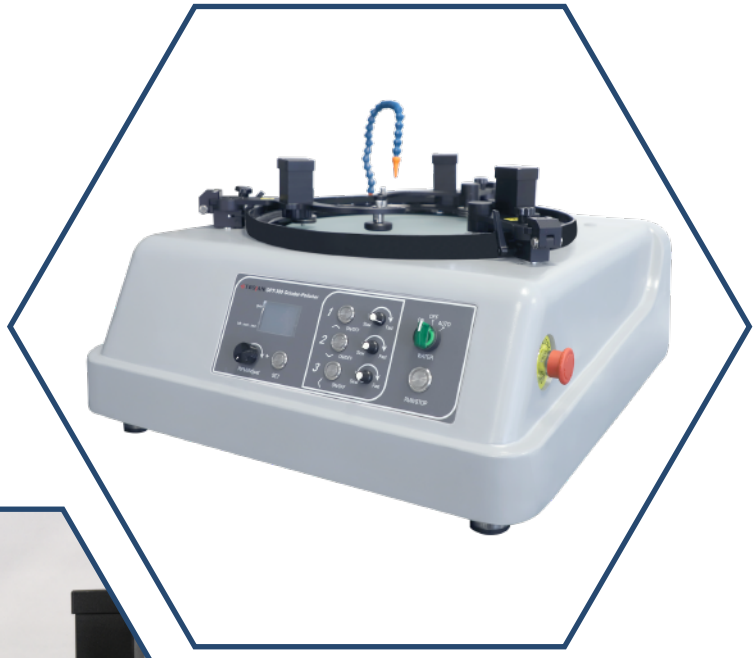
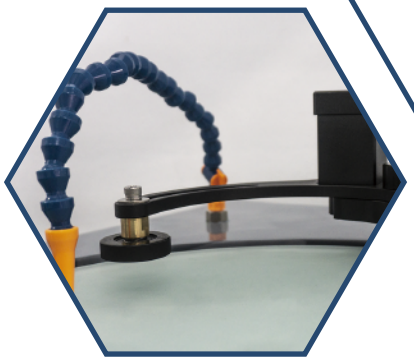
TROJAN
Discover the Truth of Material

OPT-380 Automatic Precision Grinder and Polisher

GRINDING/POLISHING



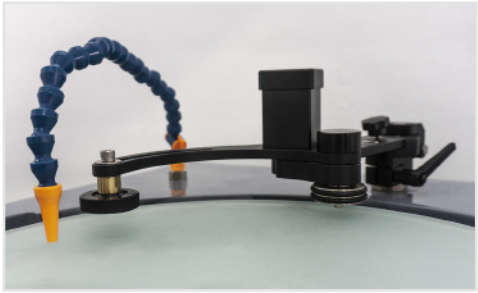


2026

TROJAN (SUZHOU) MATERIAL TECHNOLOGY CO.,LTD

OPT-380 Automatic Precision Grinder and Polisher

OPT-380 offers exceptional overall performance, making it ideal for grinding and polishing sample preparation of a wide range of materials, including metals, ceramics, glass, PCBs, optical materials (such as zinc sulfide, silicon, and others), refractory materials, and composites. It is an excellent choice for both scientific research institutions and production enterprises. The Φ380mm disc is capable of preparing specimens with a diameter of up to Φ142mm or a rectangular sample with a diagonal length of up to 142mm.



Features:



- The grinding disc can be convenient to replace as the swing arm can be quickly disassembled and assembled;
- Even longer service life as the motor adopts angular contact bearing instead of ball bearing;
- Can accurately control the working time (between 0-999H) with timing function;
- Can running long-term in low-speed with a cooling system;
- Convenient to operate on the 2.4 simple LCD screen.

Technical Data:

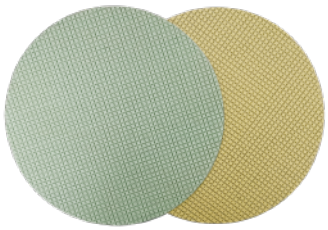
Model		OPT-380
Working Wheel	Speed	0-200rpm
	Diameter	Φ380mm
	Station	Three station
Grinding Capacity	Specimen Size	Dia < Φ142mm
	Planeness	less-than 0.002mm per 20x20mm
Electrica	Voltage/Frequency	220V/50Hz
	Rated Power	800W
	Standby Power	15W
	Timer	0~999h59m59s
Water Supply	Max. pressure	0.1Mpa-0.3Mpa
	Dia. on inlet pipe	Φ8mm
	Dia. on outlet pipe	Φ32mm
Operating Environment	Temperature	-20˚C - 60˚C
	Humidity	0-95%RH
Dimension	WxDxH	653x772x388mm
Weight		84kg

Control Panel Introduction:



1. Display screen(speed, time)
2. Running indicator
3. Time setting button
4. Speed adjustment button
5. Cooling water rotary button
6. Start / Stop

Related Consumables & Accessories:



DiaRe Diamond Disc



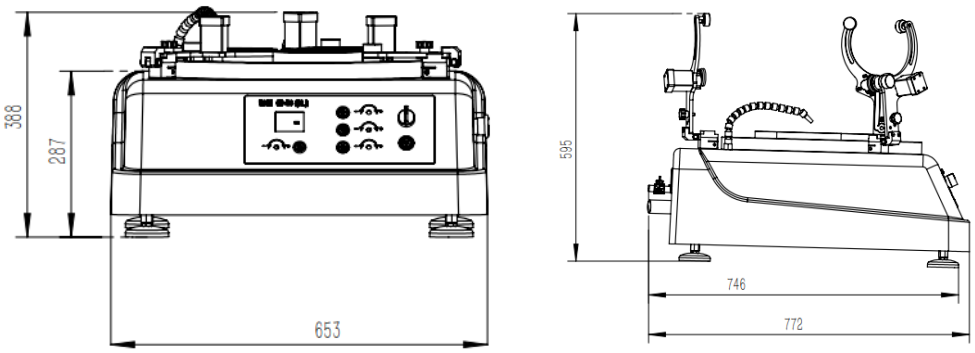
Abrasive Paper(PSA)



Alumina/Silica Suspension

Dimension Figure

Unite: mm



Standard Accessories:

1	Glass Working wheel		15–inch (380mm)	1set
2	Sample loarding Weight		110mm	3pc
3	Conditioning ring		110mm	3pc
4	Allen key		6mm Allen key	1pc
5	Water inlet pipe		Φ8 PU pipe	1pc
6	Water outlet pipe		Inner diameter Φ32mm 1.5m drain hose and hose clamp	1pc
7	Fast screw joint		DN15mm(for water inlet),Water inlet filter	1set
8	Abrasive paper		180#(380mm),400#(380mm), 1200#(380mm)	5 each
9	Polishing cloth		YR–JP (380mm)	1pc
10	Power cable		1.5m	1pc

Optional Accessories:

1	ADS–1 Dispenser		Capacity1000ml, Flow:14~42ml/min
2	Sample loarding Weight (customized)		Customized max. diameter is 140mm
3	Conditioning ring (customized)		Customized max. diameter is 140mm
4	Gray iron grinding disc		15–inch (380mm)
5	Nodular cast iron Working wheel		15–inch (380mm) QT–600 material
6	Handheld quantitative holder		TG–25.4 /30/32mm
7	Ceramic faced conditioning ring		205*40*127 mm
8	Fixture for quantitative grinding		TG 100

Purchase list:

Silicon Carbide Disc:

03.04.845	Silicon Carbide Disc (PSA)	380mm,120#	50pcs
03.04.846	Silicon Carbide Disc (PSA)	380mm,180#	50pcs
03.04.848	Silicon Carbide Disc (PSA)	380mm,400#	50pcs
03.04.850	Silicon Carbide Disc (PSA)	380mm,800#	50pcs
03.04.851	Silicon Carbide Disc (PSA)	380mm,1000#	50pcs
03.04.853	Silicon Carbide Disc (PSA)	380mm,1200#	50pcs
03.04.860	Silicon Carbide Disc (PSA)	380mm,2500#	50pcs

Adapter System:

AD–PSA Plate	04.08.420–1	380mm	1pc
Magnetic disc	04.08.031	380mm	1pc
Magnetic disc(without notch or PSA, 3mm thickness)	04.08.060	380mm	1pc

Polishing Cloth:

YS–JP White Fiber Polishing Cloth(PSA)	05.07.740	380mm	10pcs
GF–JP White Synthetin Silk Polishing Cloth (PSA)	05.10.040	380mm	10pcs
SR–ZP Red Synthetic Fabric Polishing Cloth (PSA)	05.02.380	380mm	10pcs
SC–JP White Natural Silk Polishing Cloth (PSA)	05.12.150	380mm	10pcs
ZN–ZP Black Polyurethane Polishing Cloth (PSA)	05.01.135	380mm	10pcs

Diamond polishing suspension and paste：

Diamond Suspension		Micrometer	Diamond Paste		Diamond Spray
Monocrystalline (500ml)	Polycrystalline (500ml)		Monocrystalline (5g)	Polycrystalline (10g)	Monocrystalline (350ml)
06.01.110–1	06.02.210	0.25um	–	–	–
06.01.120–1	06.02.220	0.5um	–	–	06.03.115
06.01.130–1	06.02.230	1um	06.10.030 (Gray)	06.10.110 (Black)	06.03.320
–	–	2.5um	–	–	06.03.325
06.01.140–1	06.02.240	3um	06.10.040 (Gray)	06.10.130 (Black)	–
–	–	3.5um	–	–	06.03.330
–	–	5um	–	–	06.03.335
06.01.150–1	06.02.250	6um	06.10.050 (Gray)	06.10.160 (Black)	–
06.01.160–1	06.02.260	9um	06.10.060 (Gray)	06.10.190 (Black)	–
–	–	10um	–	–	06.03.340

Precision polishing suspension and polishing powder:

	0.05μm	0.3μm	1μm	Package
AO–W Alumina Polishing Suspension	06.04.210	06.04.220	06.04.230	500ml
AO–P Alumina Polishing Powder	06.13.011	06.13.021	06.13.031	500g
Super Alumina Polishing Suspension	06.04.410/414	–	–	500ml/1.9L
Super Alumina Polishing Powder	06.14.010	06.14.020	–	1LB

Purchase list:

Colloidal Silica Polishing Suspension：

SO-T401	SO-A439	SO-A539	Package
06.05.310	06.07.310	06.07.522	500ml
06.05.320	06.07.320	06.07.520	1000ml
06.05.350	06.07.322	06.07.524	1.9L

Polishing lubricants:

PL-W Polishing Lubricant	PL-WB Water-free Blue Low-viscosity Polishing Lubricant	Package
-	06.09.640	500ml
06.09.510	06.09.650	1000ml
06.09.520	06.09.630	5000ml

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