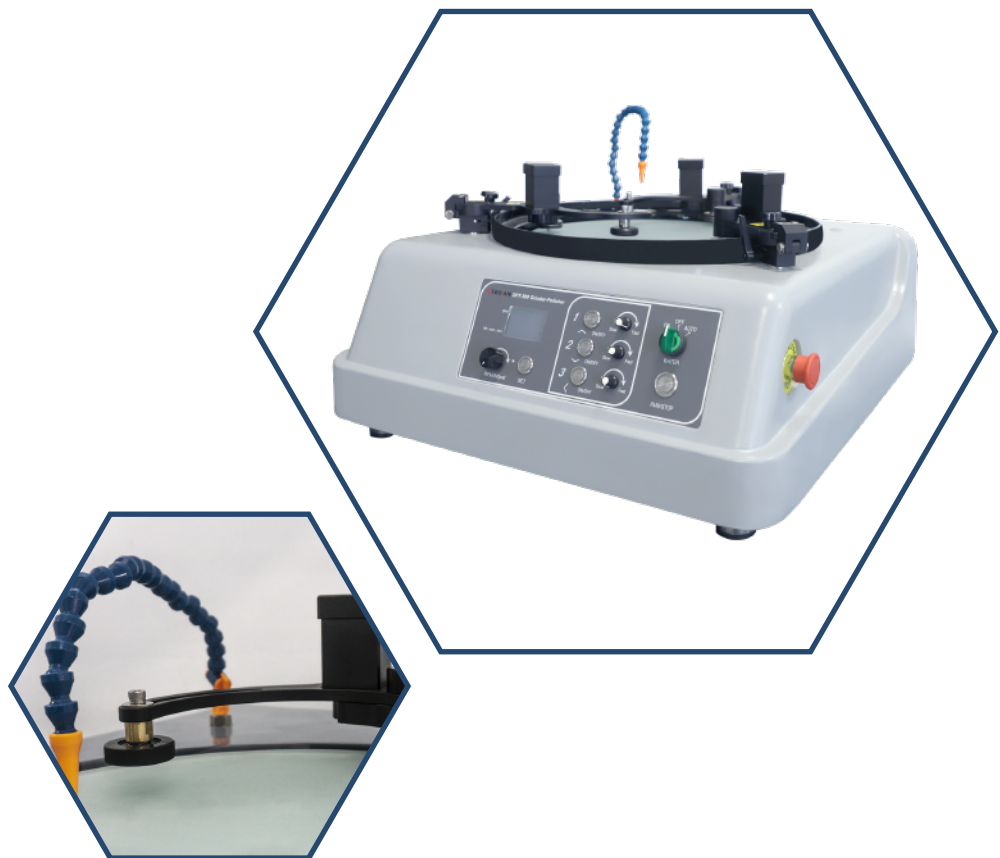


OPT-380 Automatic Precision Grinder and Polisher

GRINDING/POLISHING



2024
10 / 11

TROJAN (SUZHOU) MATERIAL TECHNOLOGY CO.,LTD

OPT-380 Automatic Precision Grinder and Polisher

OPT-380 is an automatic precision grinding and polishing machine, which has strong comprehensive performance in the industry, mainly used for grinding and polishing of metal, ceramics, glass, PCB board, optical materials (such as zinc sulfide, silicon and other material), refractory materials, composite materials and other materials. It is one of the ideal grinding and polishing equipment for scientific research institutes and production enterprises. The $\Phi 381\text{mm}$ disc can be used for preparing the specimen with a diameter of $\leq \Phi 142\text{mm}$ or a rectangular plane with a diagonal length of $\leq 142\text{mm}$.



Features:

- ◆ The grinding disc can be convenient to replace as the swing arm can be quickly disassembled and assembled;
- ◆ The motor adopts the stepless speed control method, and the speed in real time can display on the digital screen;
- ◆ 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:

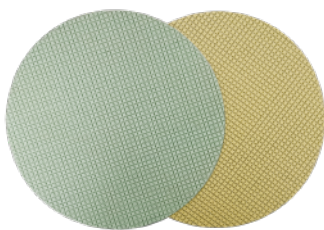
Model		OPT-380
Working Wheel	Speed	10-200rpm
	Diameter	$\Phi 381\text{mm}$
	Station	Three station
Grinding Capacity	Specimen Size	Dia < $\Phi 142\text{mm}$
	Planeness	less-than 0.002mm per 20x20mm
Electrica	Voltage/Frequency	220V/50Hz
	Rated Power	800W
	Standby Power	15W
	Timer	0~999h59m59s
Water Supply	Max. pressure	0.6MPa
	Dia. on inlet pipe	$\Phi 8\text{mm}$
	Dia. on outlet pipe	$\Phi 32\text{mm}$
Operating Environment	Temperature	-20°C - 60°C
	Humidity	0-95%RH
Dimension	WxDxH	653×771×338mm
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



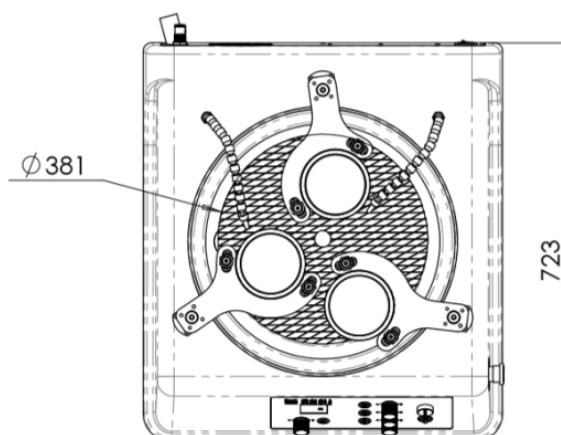
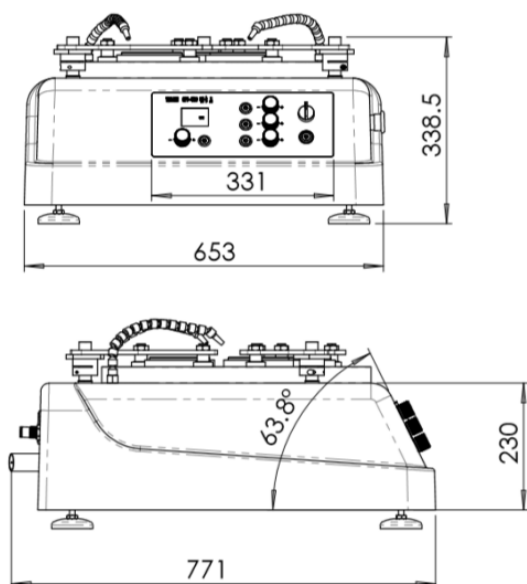
Abrasive Paper(PSA)



Alumina/Silica Suspension

Dimension Figure

Unite: mm



Standard Accessories:

1	Glass Working wheel		15-inch (381mm)	1set
2	Sample loading 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 loading Weight (customized)		Customized max. diameter is 140mm
3	Conditioning ring (customized)		Customized max. diameter is 140mm
4	Gray iron grinding disc		15-inch (381mm)
5	Nodular cast iron Working wheel		15-inch (381mm) QT-600 material
6	Handheld quantitative grinder		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 Plate System:

04.08.420-1	AD-PSA Plate	380mm	1PC
04.08.031	Magnetic Plate	380mm	1PC
04.08.060	Magnetic Plate(without notch or PSA, 3mm thickness)	380mm	1PC

Polishing Cloth:

05.07.740	YS-JP White Fiber Polishing Cloth(PSA)	380mm	10PCS
05.10.040	GF-JP White Synthetin Silk Polishing Cloth (PSA)	380mm	10PCS
05.02.380	SR-ZP Red Synthetic Fabric Polishing Cloth (PSA)	380mm	10PCS
05.12.150	SC-JP White Natural Silk Polishing Cloth (PSA)	380mm	10PCS
05.01.135	ZN-ZP Black Polyurethane Polishing Cloth (PSA)	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(Blue)	06.10.110(Black)	06.03.320
—	—	2.5um	—	—	06.03.325
06.01.140-1	06.02.240	3um	06.10.040(Green)	06.10.130(Black)	—
—	—	3.5um	—	—	06.03.330
—	—	5um	—	—	06.03.335
06.01.150-1	06.02.250	6um	06.10.050(Yellow)	06.10.160(Black)	—
06.01.160-1	06.02.260	9um	06.10.060(Red)	06.10.190(Black)	—
—	—	10um	—	—	06.03.340

Purchase list:

Precision polishing suspension and polishing powder:

	0.05μm	0.3μm	1μm
Alumina Suspension(500ml)	06.04.210	06.04.220	06.04.230
Alumina Polishing Powder(1LB)	06.13.011	06.13.021	06.13.031

	500ml	1000ml	5000ml
SO T401 Non-Crystallizing Silica(50nm)	06.05.310	06.05.320	06.05.330
100C30 silica suspension(50nm)	06.08.310	06.08.311	06.08.312
SO A539 silica suspension(50nm)	06.07.520	06.07.523	

Polishing lubricants:

	5000ml	500ml	1000ml
PL-W Polishing Lubricants	-	06.09.510	06.09.520
PLW-B Polishing Lubricants	06.09.630	06.09.640	06.09.650



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