

Sample Preparation Machines



PreciCut



PreciMount



PreciPolish

Our company will support you totally in various processes, from making of samples to hardness test.

Abrasive Cut-off Machine

PreciCut series

Overload prevention mechanism is provided.
Fully-automatic operations (from “cutting” to “resetting to origin”)
(FTC-305AS/FTC-305ASV/FTC-355ASV)

Double independent type one-touch clamp vise is adopted.
Sample can be installed and removed easily. (The user can customize it.)
(Option only in FTC-355ASV)

The vertical movement of cutting wheel is available.
Sample can be set easily and quickly. **(FTC-305MSV/FTC-305ASV/FTC-355ASV)**

Up-and-down slide door is adopted.
It ensures the clear view of the inside of the cutting unit and prevents water from dripping when opening and closing the door. **(All models)**

Large round handle enables smooth feeding. **(All models)**

High-output motor and strong box body. High-precision cutting is realized.
Quietness and safety are improved. **(All models)**



FTC-305ASV

Specifications

ITEM		Model: <i>PreciCut</i> series			
		FTC-305MS	FTC-305MSV	FTC-305AS	FTC-305ASV
Design / Structure		Floor-Installation Type with Caster			
Safety Mechanism	Motor	In case "Door Interlock" is canceled (Door opened): Main shaft motor and coolant circulation motor stop instantaneously.			
	Overload Stop	—		In case "Overload" on Cutting Wheel exceeding Preset Current is applied, the Stage Feeding stops temporarily and, after Load is removed, starts again.	
Doors	Main Cutting Section	Front: Up-and-Down Slide Door (with Tempered Glass)			
	Base Section	Front: Double Doors			
Max Available Sample Size	Cylindrical / Block	In case ø305mm Cutting Wheel: Max ø80mm / T55mm x L85mm			
Cutting Wheel	Dimensions	Outer Dia.: ø255/305mm x Inner Dia.: ø31.75mm x T1.2mm			
	Rotary Speed	2500rpm-60Hz / 2075rpm-50Hz			
	Main Motor	3HP / 2.25kw			
	Vertical Move	—	Max 50mm	—	Max 50mm
	Movable Sample Stage	Feed/Return	Manual (Large Round Handle Type)		Automatic / Manual (Large Round Handle Type)
Feeding Speed		Manual Control		Automatic: 0~200mm/min	
Horizontal Move		Fixed		Manual: Max 30mm	
Sample Fixing Vise	Structure	Double Independent Type One-Touch Clamp Vise			
	Opening	Max 90mm each			
	Horizontal Move	Each Vise: Max 15mm			
Cooling Device	Structure	Double Tank Type (with Steel-Mesh Type Filter)			
	Coolant Tank Capacity	40L			
	Circulation Pump	1/4HP			
	Coolant Volume	1.5L/sec			
	Jet Nozzle	for Cutting Sample: 2pcs / for Cleaning Chamber: 1pc			
Grease Nipple		4 Nipples (on Sample Stage x 2 points / on Vise x 2 points)			
Machine Dimensions		W995 x D685 x H1400mm			
Cooling Device Dimensions		(Built-in Type)			
Weight of Machine / Cooling Device		505kg	535kg	513kg	505kg
Power Supply		3P-AC200~240V / 50Hz, 60Hz (OPTION: 3P-AC380V)			
Standard Accessories		Cutting Wheel: ø255mm and ø305mm x 2pcs each / Wrench: 2pcs / Coolant: 1L x 1btl / Accessory Box: 1pc			

Sample Preparation Machines

Mounting Press

PreciMount series

Space-saving desk type, lightweight compact body.

Slide mould cap system is adopted. Sample can be installed and removed easily and safely.

The running time is greatly shortened by quick heating and quick cooling.

Fully-automatic one cycle (pressurizing, heating and cooling) operation.

PreciMount series has the Adjustable Cooling Function which helps to make perfect condition of moulding sample with Thermoplastic resin (Lucite) and Thermosetting resin (Bakelite).



FTM-SL

Specifications

ITEM		Model: PreciMount series
		FTM-SL
Design / Structure		Bench Top Type / Solid Aluminum Frame+Hard-Coated FRP Cover
Machine Top Mould Cap		Back & Forth Slide & Flip Motion Type Mould Fasten Cap: Convenient Interchangeable Mould Cap and Easy Cleaning.
Bore and Mould Size of Cylinder		Standard: ø50mm Base Cylinder + ø32mm Additional Cylinder OPTION: ø25, 30, 40mm, 1 1/2"(38.1mm)
Pressure Method		CPU Control Full-Automatic Hydraulic System Adjustable Setting between 1200~4500psi (82~310bar) by 10 or 100psi. During Heating, Automatic Pressure Compensation to Set Value shall activate if Pressure drops lower than 20% of Preset Value. In case Heating Temperature became over 110°C(230°F), Pressure shall be controlled in ±5% of Preset Pressure.
Heating Time		0~99min. (set by 1min.)
Heating Temperature Setting (Selectable C and F)		50~200°C (set by 10°C) / 122~392°F (set by 50°F)
Heater Capacity		AC100 240V: 1800W/AC115V (300W x 6pcs)
Cooling Time		Cool-down Time according to Preset Cylinder Temperature (35~80°C / 95~176°F).
Cooling System	External Water Supply	Min. Pressure of Water Supply: 2L/min. Through 2 Hoses connected to Taps on Rear of Machine
	Separate Type Coolant Tank (OPTION)	Rust-Prevention Type Coolant Tank with Radiator: Tank Capacity: 30L / Pressure of Water Supply: 4L/min.
Sample Number in One Time Operation		ø50mm: 1pc / ø25, 30, 32, 38.1, 40mm: Max 2pcs
Functions of Control Panel (Sheet Panel with LED Display and Touch Keys)		Heating Temperature (Usual Display: Preset Temperature / Real-Time Temperature by Hidden Key) / Pressure (Usual Display: Max. Preset Pressure / Real-Time Pressure by Hidden Key) / Timer for Holding of Max. Heating Temperature / Coolant Supply: Manual-Automatic SW / RAM Elevating SW / Sample Making Cycle: Run-Stop SW / Completion of Making Sample Display / Main Power: ON-OFF / Other Hidden Keys: Min. Cooling Temperature and Bore Size of Current Cylinder
Machine Dimensions		W410 x D600 x H500mm
Coolant Tank Dimensions		W500 x D400 x H410mm
Weight of Machine / Cooling Device		Machine: 94kg / Cooling Device: 30kg
Power Supply		1P AC100~120V or AC200~240V / 50, 60Hz: Changeable
Standard Accessories		Sample Spacer for ø32mm Cylinder: 1pc / Mould Removing Oil: 1btl / Phenol Resin: 1btl (500g) / Spoon: 1pc / Funnel: 1pc / Tweezer: 1pc / Coolant Supply Hose: 2m x 2pcs / Accessory Box: 1pc

Sample Preparation Machines

Grinding / Polishing Machine

PreciPolish series

Sophisticated simple design. **(All models)**

Excellent operability, quietness and

durability! **(All models)**



FTP-1M



FTP-2M

Specifications

ITEM		Model: PreciPolish series	
		Manual Type	
		FTP-1M	FTP-2M
Design / Structure		Bench Top Type / Solid Aluminum Frame + Hard-Coated FRP Cover	
Polishing Wheel	Number	Single	Double
	Size	ø200 / 250mm	ø200 / 250 / 300mm
	Rotary Motor	AC/550W-6P with Inverter	
	Rotary Speed	0~600rpm	ø200, 250mm Wheel: 0~600rpm / ø300mm Wheel: 0~450rpm
	Rotary Direction	CCW	
Machine Control Panel		Power: ON-OFF SW / Disk Rotation: START-STOP SW / Rotary Speed SW	
Wheel Cooling Device		Water-Cooled System (by Manual Type Nozzle)	
Water Supply		External Water Supply / INLET: ø16.7mm (Bore of Hose: ø15mm)	
Drainage		through Drain Hole in Bowl / OUTLET: ø32.5mm (Bore of Hose: ø25mm)	
Machine Dimensions		W400 x D650 x H370mm	W800 x D650 x H385mm
Machine Weight		42kg	60kg
Power Supply		1P / AC100~120V or AC200~240V / 50, 60Hz	

※ Appearance and specifications are subject to change without prior notice.



We are based on JIS Q 17025 (ISO/IEC 17025) as accredited standards, and accredited by JCSSL who manages the recognition scheme according to ISO/IEC 17011.
IA Japan (accreditation organization who has managed JCSSL) who is signatory to the Mutual Recognition Arrangement (MRA) of International Laboratory Accreditation Cooperation (ILAC) and Asia Pacific Laboratory Accreditation Cooperation (APLAC).
We are accredited as MRA Calibration Laboratory of JCSSL.
Our accreditation number is JCSSL 0228.



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