

FTC-200AS/FTC-230AS/ FTC-255AS

Basic model equipped with all the necessary device for cutting sample.

- Tough body and silent operation by the precision rotary shaft.
- High quality vise of special coating.
- Automatic/manual operation can be selected.
- Moving speed is adjustable for automatic operation.



MODEL		FTC-200AS	FTC-230AS	FTC-255AS
ITEM		SPECIFICATIONS		
Design/Structure		Floor Type equipped with Casters: Steel Sheetings with Hard Acrylic Window		
Safety Mechanism	For Automatic/ Manual Operations	When emergency button is pressed, automatic stop of wheel rotation & stage operation & cooling pump. When door is open, automatic stop of wheel rotation & stage operation.		
	Automatic Return to Original position	For automatic operation: automatic stop of stage operation & return to start point.		
	Overload control function	In case overloaded exceeding set currency is applied, stage feeding stops temporarily and start again after load is removed.		
Control Panel		Water proof type (IP55)		
Vise Opening		70mm		
Maximum available sample size	sample depth / height	Within D70×H56mm	Within D70×H56mm	Within D70×H76mm
	sample width	Within right 94mm · left 207mm from cutting edge of wheel.		
Move Volume of Vise X shaft		Max35mm on both left and right.		
Cutting wheel	Outer dia.	Outer Dia.: φ 200mm	Outer Dia.: φ 230mm	Outer Dia.: φ 255mm
	Shaft dia.	Shaft Diameter: φ 31.75mm (Option: φ 25.4mm)		
	Fixed Flange	60mm		
	Rotary Speed	2990rpm-60Hz / 2960rpm-50Hz		2750rpm-60Hz / 2720rpm-50Hz
	Main Motor	1HP(60/50Hz)	2HP(60/50Hz)	3HP(60/50Hz)
Sample Stage	Specifications	Type: Movable/Move Volume: 200mm/Moving Method: Automatic & Manual Selective/ For Automatic Operation, Moving Speed: Selective within 0 ~ 35.5mm/min. Range.		
	Dimensions	220mm×230mm		
Cooling Section	Structure	Settling Tank (with Mesh Filter)		
	Cooling Section Weight	25 kg		
	Tank Capacity / Dimensions	Capacity : 50L / Dimensions : W330×D530×H320mm		
	Circulation Pump	1/8HP		
Water Nozzle		for Cutting Sample: 2pcs./for Cleaning Chamber: 1pc.		
Inner Illumination		Water Proof Type LED Light (IP67)		
Machine Dimensions		W800×D900×H1300mm (for Open Door: W800×D1100×H1700mm)		
Machine Weight (Excluding Cooling Section)		257kg	261kg	264kg
Power Supply		3P-AC200~240V/50Hz,60Hz (Option: 3P AC380V) Cable Length 3500mm		
Power Consumption		1000W	1700W	2500W
Standard Accessories		300mm Monkey Spanner for Wheel 1pc./Wrench for Wheel 1pc./Water Exhaust/Supply Hose 1pc. each/Cutting Wheel 2pcs./Coolant 2L x 2bottles/Accessory Box 1pc.		



Sample Fixing Device



Cooling Section (Whole Part)



When the door is open



Control panel
(FTC-AS&FTC-ASL series)

FTC-255ASL / FTC-305ASL / FTC-355ASL



Long stage type of sample cutting machine
FTC-AS seires.

- Silent operation is realized by tough body & precision rotary shaft.
- High quality vise of special coating.
- Automatic/manual operation can be selected.
- Moving speed is adjustable for automatic operation.

MODEL		FTC-255ASL	FTC-305ASL	FTC-355ASL
ITEM		SPECIFICATIONS		
Design/Structure		Floor Type equipped with Casters: Steel Sheetings with Hard Acrylic Window		
Safety Mechanism	For Automatic/ Manual Operations	When emergency button is pressed, automatic stop of wheel rotation & stage operation & cooling pump. When door is open, automatic stop of wheel rotation & stage operation.		
	Automatic Return to Original position	For Automatic operation: automatic stop of stage operation & return to start point.		
	Overload control function	In case overloaded exceeding set currency is applied, stage feeding stops temporarily and start again after load is removed.		
Control Panel		Water proof type (IP55)		
Vise Opening		120mm		200mm
Maximum available sample size	sample depth / height	Within D120×H80mm	Within D120×H84mm	Within D200×H101mm
	sample width	Within right 130mm · left 220mm from cutting edge of wheel.		
Move Volume of Vise X shaft		Max50mm on both left and right.		Max40mm on both left and right.
Cutting wheel	Outer dia.	Outer dia.: ϕ 255mm	Outer dia.: ϕ 305mm	Outer dia.: ϕ 355mm
	Shaft dia.	Shaft diameter: ϕ 31.75mm		
	Fixed Flange	60mm	90mm	
	Rotary Speed	2670rpm-60Hz / 2640rpm-50Hz	2250rpm-60Hz / 2230rpm-50Hz	1980rpm-60Hz / 1980rpm-50Hz
	Main Motor	3HP(60/50Hz)	5HP(60/50Hz)	7.5HP(60/50Hz) option : 10HP with frequency conversion
Sample Stage	Specifications	Type: Movable/Move Volume: 300mm/Moving Method: Automatic & Manual Selective Moving Speed: Selective 0~35.5mm/min Range.		
	Dimensions	280mm×280mm		280mm×360mm
Cooling Section	Structure	Settling Tank (with Mesh Filter)		
	Cooling Section Weight	32 kg		
	Tank Capacity / Dimensions	Capacity : 80L / Dimensions : W270×D600×H500mm		
	Circulation Pump	1/8HP		1/4HP
Water Nozzle		for Cutting Sample: 4pcs./for Cleaning Chamber: 1pc.		
Inner Illumination		Water Proof Type LED Light (IP67)		
Machine Dimension		W900×D980×H1500mm (for Open Door: W900×D1070×H1900mm)		W900×D1020×H1600mm (for Open Door: W900×D1110×H2000mm)
Machine Weight (Excluding Cooling Section)		440 kg	445 kg	541 kg
Power Supply		3P-AC200~240V/50Hz,60Hz (Option : 3P-AC380V) Cable Length 3500mm		
Power Consumption		2500W	4000W	6000W (Option:8000W with frequency conversion)
Standard Accessories		300mm Monkey Spanner for Wheel 1pc./Wrench for Wheel 1pc./Water Exhaust/Supply Hose 1pc. each/Cutting Wheel 2pcs./Coolant: 2L x 2 bottles/Accessory Box 1pc		

FTC-B255FS

Automatically cuts delicate samples that can be installed in small places such as the workbench. Space saving design.

- Silent operation is realized by the tough machine body.
- Simple design with handleability.
- Many kinds of sample fixing jig can be used on the stage.



FTC-B255FS

MODEL		FTC-B255FS
ITEM		SPECIFICATIONS
Design / Structure		Benchtop Type (Base: Aluminum Casting / Cover: Steel Sheeting with Hard Acrylic Window)
Safety Mechanism	Motor	Front Door Interlock during Cutting (The main shaft motor does not operate when the door is open.)
Doors	Front	Up-and-Down Open Door with Hard Acrylic Windows
	Left Hand Side	Small Slide Door for inserting long specimen
Max Available Sample Size	Cylindrical	In case ϕ 230mm Cutting Wheel: Max ϕ 60mm In case ϕ 255mm Cutting Wheel: Max ϕ 70mm
Cutting Wheel	Dimensions	Outer Dia.: ϕ 230/255mm x Inner Dia.: ϕ 31.75mm x T1.2mm
	Flange	Outer Dia.: ϕ 60mm
	Rotary Speed	3420rpm-60Hz / 2850rpm-50Hz
	Main Motor	3HP / 2.2KW / AC3P Induction Motor
Sample Stage	Structure	Fixed Type
	Dimensions	W225 x 220mm with 4 T-slots (X direction: 4 slots each with 10mm width) for fixing various vice and jig
Sample Fixing Vice		Various kinds of Vice and Fixing Jigs attachable on Stage (OPTION)
Special Sample Fixing Jig		
Cooling Section	Structure	Separate Type / Settling Tank (with Mesh Filter)
	Cut Powder Separator	Magnet Separator (OPTION)
	Coolant Tank Capacity	25L
	Circulation Pump	1/4HP
	Coolant Capacity	30L/min
	Water Nozzle	for Cutting Sample: 2pcs / for Cleaning Chamber: 1pc
Inner Illumination		LED Light: 1pc
Machine Dimensions		W650 x D700 x H405mm
Machine Weight		120kg
Coolant Tank (OPTION)	Cooling Device Dimensions	W410 x D340 x H565mm
	Cooling Device Weight	18kg
Power Supply		3P-AC200 ~ 240V / 50Hz, 60Hz (OPTION: 3P-AC380V)
Power Consumption		2300W
Standard Accessories		Cutting wheel: ϕ 255mm X 2pcs./spanner for wheel: 2pcs./cutting oil: 1L X 1 btl.

FTC-D150A

The machine automatically cuts a sensitive sample precisely.

- The crystal cutting of the properties of material study.
- The electron microscope sample cutting of the metal structure analyzing.
- For electronic materials, ceramics, various metal sample cutting etc...
- It is possible to control the revolution load of the cutter by load lever.



FTC-D150A

MODEL		FTC-D150A
ITEM		SPECIFICATIONS
Design / Structure		Benchtop Type (Steel Sheeting with Hard Acrylic cover)
Cutting Wheel Part	Dimensions	Outer Dia.: Max ϕ 150mm Inner Dia.: 12.7mm x T1.0mm \sim 2.0mm
	Motor power	100W Induction Motor
	Flange	Outer Dia.: ϕ 55mm
	Rotary Speed	0 \sim 3000rpm 50/60Hz
Cutting Wheel (OPTION)		Diamond wheel, Abrasive wheel (OPTION)
Max Available Sample Size		Cylindrical: Max ϕ 30mm
Movable sample holder		X-direction: \pm 15mm from center position
Sample Fixing Jig		Various kinds of Vice and Fixing Jig attachable (OPTION)
Cooling Section		Coolant Tank Capacity: 3L
Front Panel	Start SW	Rotary wheel operation start
	Stop SW	Rotary wheel operation stop
	Zero set SW	Zero reset of the micrometer
	mm/mils SW	Change Unit of mm or mils
	Speed rpm DIAL	Wheel speed setting
Display indication		Wheel rotary speed (rpm) Movement distance (mm/mils) 1/100 unit Warning indication (safe cover switch / cutting end limit switch / motor alarm)
Machine Weight		21kg
Power Supply		AC100V \sim 240V 50Hz/60Hz
Power Consumption		300W
Standard Accessories		Cutting oil (undiluted solution 200ml water soluble): 1btl. /special tool: 1 set/power cable 2000mm: 1pc. / sample clamp holder : 3pcs.(standard holder : 1pc. /standard clamp : 1pc. /120 $^{\circ}$ V clamp : 1pc.)

FTC-B255FS OPTIONAL ACCESSORIES



Sample Fixing Vice for FTC-B255FS



Coolant Tank for FTC-B255FS



Floor stand for FT-B255FS