



TOP TECH

www.toptech.tw



Metallographic Sample Preparation Equipment

Equipment of Materials Analysis

Metallographic Surface Preparation



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Video: <http://toptech.snjapp.com.tw/video/class>

No.09

QR Code Version



| Abrasive Cutting | Mounting | Grinding/Polishing | Spin Coater/Press Machine |

About Us

Established in 1995, **Top Tech** operates on four management principles: Quality, Speed, Innovation and Responsibility. **Top Tech** continues to be devoted to innovation and R&D, and our growing staff has many years of experience in design and manufacture. Our experience has led to the development of equipment that combines the highest levels of preparation quality with outstanding user-friendliness.

Our machines incorporate a number of revolutionary patented features, and are sold throughout the world. **Top Tech** was certified with the IOS 9001 International Quality Assurance Operation System in 2003, which has led to further enhancement of our quality management systems. We continue to obtain international and domestic patents for our innovative products.

Our primary focus is the design, manufacture and distribution of metallographic examination & preparation equipment and related consumables. We insist on the best quality and believe in long-term relationships with our customers. Our customer service team is trained to respond to the needs of our customers rapidly and accurately. We not only provide our customers with the optimal and the most useful equipment, but also the most professional technical support and solutions.

Greetings by
General Manager of Top Tech
Jason Yang




Value and Vision



Welcome to our family!

Why Top Tech

●High product value

Products are all manufactured in Taiwan to ensure excellent quality for budget customers.



GOOD VALUE FOR MONEY!!

Why Top Tech

●Wide product range, including consumables

Wide product ranges from cutting, mounting, grinding/polishing to compound machines



Consumables products are perfectly associated with Top Tech machines



Here, you have plenty of quality machines for choices!!

Why Top Tech

●Product Innovation

With business feature of flexibility, we provide CTO and MTO.

CTO (Configuration to order)

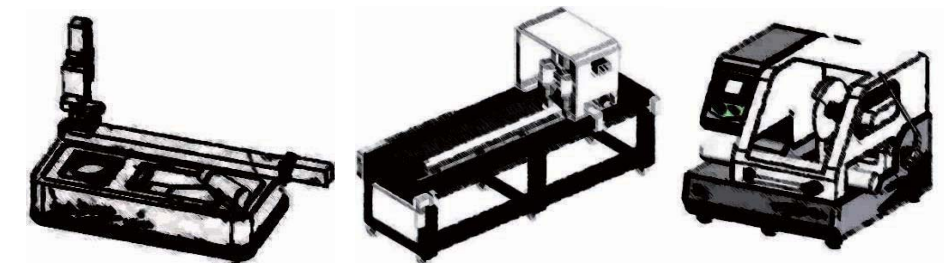
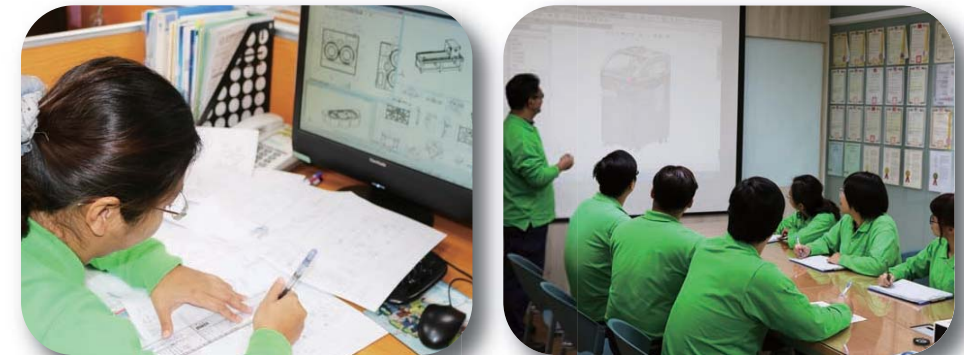


We provide more choices for you to better satisfy your customers!!

Why Top Tech

●Customization:

MTO (Make to order) we make your machine



No one cares about your changing needs more than we do!!

Why Top Tech

• Service innovation

Web-based TTA provides you

- Comprehensive product information
- On-line training
- Configure to order
- Automated quotation
- Order placement and tracking
- Rapid problem shooting



*We provide rapid response to satisfy
your customer!!*

Why Top Tech

• Global reach



*Join us now!
Together we strike an unlimited
future!*

Automatic Preparation System



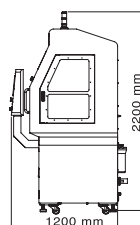
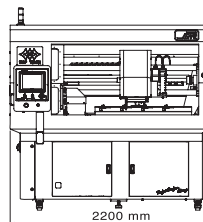
Invention Patents

Feature

- Full automatic mounting, grinding and polishing.
- Automatic shaping, pressure adding, and cooling which meet the massive examination requirements.
- Automatic grinding and polishing after mounting.
- Brilliant moveable grinding/polishing head maximize grinding/polishing efficacy.
- Special sample size can be ordered.

Specification

AMP03				
Specification Model	Mounting		Grinder	
	Sample Size	ø25 / ø32 / ø40	No. of Platen	4 PCS
	Starting Method	Full automatic Electronic Hydraulic	Grinding Method	Automatic
	Mounting Quantity	3 pc/per time	Grinding Quantity	3 pc/per time
	Temperature Control	0~250°C	Platen Size	8"
	Heating Time	0~60 min	Rotational Speed	0~600 rpm
	Cooling Time	0~30 min	Grinding Time	0~60000 s
	Heating Power	4500 W	Dispensor	5 Sets
	Pressure Setting	40~200 kg/cm ²	Grinding Pressure	1~6 kg
	Memory Mode	5	Memory Mode	8
Water Inlet/Outlet	Solenoid Valve Inlet/Outlet System			
Machine Dimension	2200(W) × 1200(D) × 2200(H) mm			
Weight	1500 kg			
Power Supply	AC 220V 3φ			

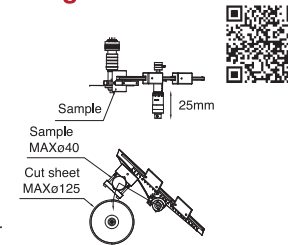


Diamond Cutting

CL40 Low Speed Diamond Cutting

Feature:

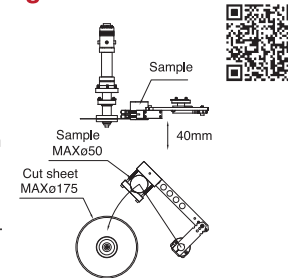
- Power supply: AC110V-1φ or 220V-1φ
- Motor power: 40W
- Diamond blade: ø3"~ø5"
- Spindle rotational speed: 0~400rpm
- Loading pressure: 0~400g
- Axial movement: 0.01~25mm
- Specimen holder: For round specimens. Max. opening ø40mm



CL50 Precision Section Cutting

Feature:

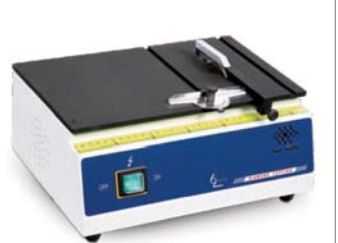
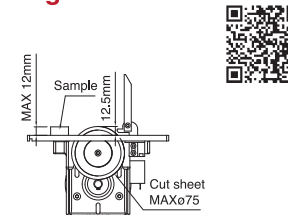
- Power supply: AC110V-1φ or 220V-1φ
- motor power: 120W stepless control
- Diamond blade: ø5"~ø7"
- Variable rotational speed: 150~2000rpm
- Loading pressure: 0~700g
- Axial movement: 40mm
- Specimen holder: For round specimens. Max. opening ø50mm
- Accuracy: 0.01mm



CH75 Universal Diamond Cutting

Feature:

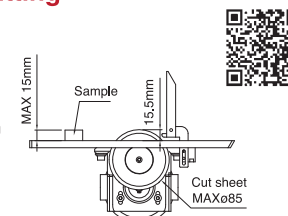
- Power supply: AC110V-1φ or 220V-1φ
- Motor power: 150W
- Diamond blade: ø75mm
- Fixed rotational speed: 4000rpm
- Cutting table: 320x200mm
- Specimen thickness: 2~12mm (in accordance blade size)



CH85 Universal Diamond Cutting

Feature:

- Power supply: AC110V-1φ or 220V-1φ
- Motor power: 600W
- Variable rotational speed: 500~6000rpm
- Diamond blade: ø85mm
- Cutting table: 400x290mm
- Specimen thickness: 2~20mm (in accordance with blade size)





CK200B/CK200M



CK260B

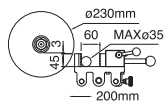


CF450S

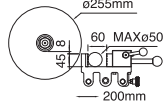


CT260F

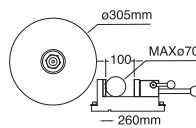
■ CK200B-1HP
CK200M-1HP



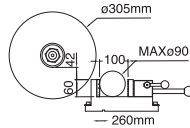
■ CK200B-2HP
CK200M-2HP



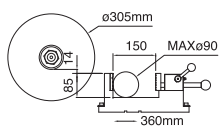
■ CK260B-3HP



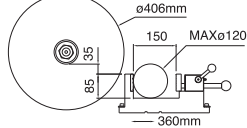
■ CK260B-5HP



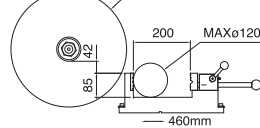
■ CK360B-5HP



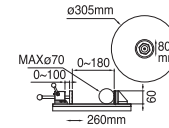
■ CK360B-7.5HP



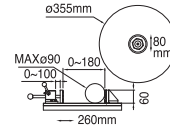
■ CK460B-10HP



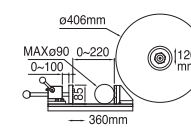
■ CF260S-3HP



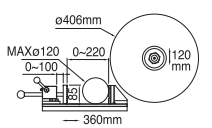
■ CF260S-5HP



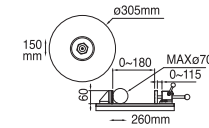
■ CF360S-10HP



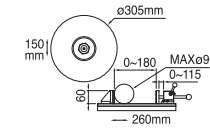
■ CF450S-15HP



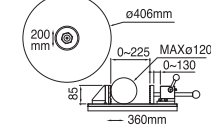
■ CT260F-3HP



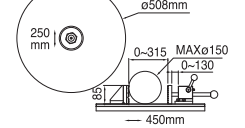
■ CT260F-5HP



■ CT360F-7.5HP



■ CT360F-10HP



Universal Abrasive Cutting | T-slot Table | Table travel cutting

Model No.	CK200M-1HP/2HP	CK200B-1HP/2HP	CK260B-3HP	CK260B-5HP	CK360B-5HP	CK360B-7.5HP	CK460B-10HP
Cutting Method	-	Table travel cutting Variable feed speed					
Feed	Manual	Hand wheel control or button control					
	Automatic	-	Button control, automatic home point return after cutting				
Spindle Rotational Speed	3000 rpm (60Hz) / 2500 rpm (50Hz)		2500 rpm (60Hz) / 2100 rpm (50Hz)				
Power Supply	AC220V-3φ (380V, 415V, 440V)		AC220V-3φ (380V, 415V, 440V)				

High-capacity Abrasive Cutting

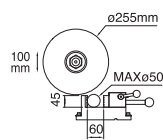
Special for Long and Heavy Workpiece | Multi-step Cutting

Adjustable Spindle | Table Travel Cutting

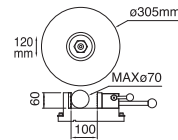
Model No.		CF260S-3HP	CF260S-5HP	CF360S-10HP	CF450S-15HP	CT260F-3HP	CT260F-5HP	CT360F-7.5HP	CT360F-10HP
Cutting Method (Automatic)		Table travel cutting / Spindle travel cutting/Multistep cutting				Spindle Height Adjustment/Table travel cutting			
Spindle Rotational Speed		2500 rpm (60Hz) / 2100 rpm (50Hz)		2100 rpm (60Hz) / 1650 rpm (50Hz)		2500 rpm (60Hz) / 2100 rpm (50Hz)		2500 rpm (60Hz) / 2100 rpm (50Hz)	
Table Travel Distance	Vertical	150 mm	150 mm	200 mm	250 mm	100 mm	100 mm	120 mm	120 mm
	Horizontal	260 mm	260 mm	360 mm	450 mm	260 mm	260 mm	360 mm	360 mm
Work Table		300×300mm T-slot table		500×450mm T-slot table		300×300mm T-slot table		300×390mm T-slot table	
Power Supply		AC220V-3φ (380V, 415V, 440V)				AC220V-3φ (380V, 415V, 440V)			



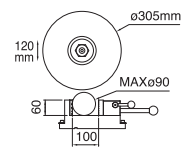
■ CF100-2HP



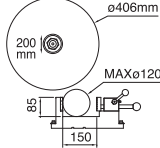
■ CF120-3HP



■ CF150-5HP



■ CF200-10HP



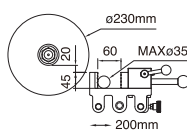
Abrasive Cutting with Loading Holder

Special for Long Workpiece | Spindle Travel Cutting

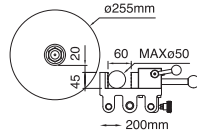
Model No.	CF100-2HP	CF120-3HP	CF150-5HP	CF200-10HP
Cutting Method(Automatic)	Spindle travel cutting			
Spindle Rotational Speed	2500 rpm (60Hz) / 2100 rpm (50Hz)		2500 rpm (60Hz) / 2100 rpm (50Hz)	
Table Travel	Vertical	100 mm	100 mm	120 mm
Distance	Horizontal	200 mm	260 mm	360 mm
Power Supply	AC220V-3φ (380V, 415V, 440V)			



■ CL35C



■ CL50C



■ CL70C

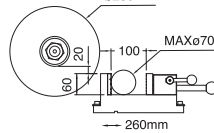


Table Top Manual Abrasive Cutting/Table Travel Cutting

Model No.	CL35C	CL50C	CL70C
Slide with Vise	Slide feed 200mm, Single quick release vise Moves horizontal way in 25mm		Slide feed 260mm, Single quick release vise Moves horizontal way in 25mm
Cutting Method(Manual)	Hand wheel control		
Spindle Rotational Speed	3000 rpm (60Hz) / 2500 rpm (50Hz)		2500 rpm (60Hz) / 2100 rpm (50Hz)
Power Supply	AC220V-3φ (380V, 415V, 440V)		

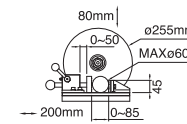


CL60A

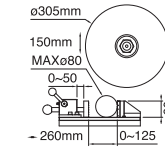


CL80A / CL100A

■ CL60A



■ CL80A



■ CL100A

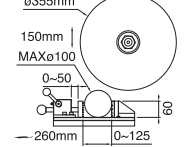


Table Top Automatic Precision Cutting/Table travel cutting/Spindle travel cutting

Model No.		CL60A	CL80A	CL100A
Cutting Method		Variable feeding speed, Color touch panel		
Feed	Manual	Hand wheel control or button control	Joystick control	
	Automatic	Button control, automatic home point return after cutting		
Spindle Rotational Speed		3000 rpm (60Hz) / 2500 rpm (50Hz)		
Work Table		T-slot table with separated vises 300 X 250mm	T-slot table with separated vises 300 X 270mm	
Table Travel	Vertical	80 mm	150 mm	
Distance	Horizontal	200 mm	260 mm	
Power Supply		AC220V-3φ (380V, 415V, 440V)		



Precision Cutting | Special For Panel Type

Model No.	CLM35B	CLM35C
Motor Power	250 W	370 W
Work Table	500 × 200 mm	600 × 550 mm
Cut Off Wheel	Max. 200 mm (8")	
Feed Rate	0~150 mm/min (Min:25)	
Feed	Automatic	Button control, automatic home point return after cutting
	Manual	-
		Hand wheel control or button control



F



FR

Manual grinder/polishing | Silent | Low rotational speed | High torque force | Digital display rotational speed

Model No.	F			FR		
Platen Qty.	1			2		
Platen Size mm	ø200	ø250	ø300	ø200	ø250	ø300
Platen Speed rpm	50~600					
Power Supply	AC220V 1φ or AC110V 1φ					



F-M1



FR-M1

Semi-automatic grinding/polishing | Silent | Low rotational speed | High torque force | auxiliary sample holder

Model No.	F-M1			FR-M1		
Platen Qty.	1			2		
Platen Size mm	ø200	ø250	ø300	ø200	ø250	ø300
Platen Speed rpm	50~600					
Power Supply	AC220V 1φ or AC110V 1φ					



FRD



FRD-A3/B3/C3

Manual grinding/polishing with dual motors | Separate control platens

Model No.	FRD			FRD-A3/B3/C3		
Platen Qty.	1			2		
Platen Size mm	ø200	ø250	ø300	ø200	ø250	ø300
Platen Speed rpm	50~600					
Power Supply	AC220V 1φ or AC110V 1φ					



FS-A3

Patents



FRS-A3

Automatic grinding/polishing | Individual pressure | B type equip with individual calibration

Model No.	FS-A3/B3/A5/B5			FRS-A3/B3/A5/B5		
Platen Qty.	1			2		
Platen Size mm	ø200	ø250	ø300	ø200	ø250	ø300
Platen Speed rpm	50~600					
Sample Size	ø32 mm (ø20, ø25, ø30, ø40 Special sample size can be customized)					
Power Supply	AC220V 1φ or AC110V 1φ					



FS-C3/C4



FRS-C3/C4



M-P100M



M-P100WR



M-P300M

Automatic grinding/polishing, Central pressure with calibration function

Model No.	FS-C3/C4			FRS-C3/C4		
Platen Qty.	1			2		
Platen Size mm	ø200	ø250	ø300	ø200	ø250	ø300
Platen Speed rpm	50~600					
Sample Size	ø15~ø32 or ø20~ø40 Special sample size can be customized					
Power Supply	AC220V 1φ or AC110V 1φ					

Manual grinding

Model No.	M-P100M	M-P100WR	M-P300M
Sample Size mm	4×36	4×36	ø300
Motor Power W	370	370	370×2
Belt Speed rpm	100~600	100~1000	1500
Sample Size mm	160/ Max210	-	-
Power Supply	AC220V 1φ or AC110V 1φ		



FS-R3/R5



FRS-R3/R5



FRS-R3/R5



Automatic grinding/polishing, Air central/individual pressure

Model No.	FS-R3/R5 & FRS-R3/R5 (Micrometer head can be option)	
Platen Size mm	ø250	ø300
Motor Power W	900	
Platen Speed rpm	50~600	
Sample Holder Platen	Quick replace function	
Sample Size mm	ø32 (ø20, ø25, ø30, ø40 Special sample size can be customized)	
Power Supply	AC220V 1φ	

Automatic grinding/polishing, Air central pressure

Model No.	FRS-R3/R5	
Platen Size mm	ø250	ø300
Motor Power W	460	
Platen Speed rpm	50~600	
Sample Holder Platen	Quick replace function	
Sample Size mm	ø32 (ø20, ø25, ø30, ø40 Special sample size can be customized)	
Power Supply	AC220V 1φ	



B



B-L1



B-L2

Automatic mounting , PCB panel control

Model No.	B			B-E3			B-L1			B-L1-E3			B-L2			B-L2-E3		
Sample Size mm	ø25	ø32	ø40	ø25	ø32	ø40	ø25	ø32	ø40	ø25	ø32	ø40	ø25	ø32	ø40	ø25	ø32	ø40
Operation	Automatic / Electrohydraulic																	
Sample Qty.	1~2 pc/per time			1~3 pc/per time			1~2 pc/per time			1~3 pc/per time			1~2 ppc/per time for one cylinder×2			1~3 ppc/per time for one cylinder×2		
Motor Power W	1760	2160		2960	3760		2000	2400		3200	4000		3200	4000		5600	7200	
Power Supply	AC220V 1φ																	



B-L



MA



MV01



MV02

Automatic mounting , Programmable , Silent

Semi-automatic mounting , Manual

Cold mounting , Special for porous materials

Model No.	B-L			B-L-E3			MA			MA-E3			Model No.	MV01	MV02
Sample Size mm	ø25	ø32	ø40	ø25	ø32	ø40	ø25	ø32	ø40	ø25	ø32	ø40	Max. Vacuum Pressure	- 650 mm-Hg	
Operation	Automatic / Electrohydraulic						Rocker arm control/ Electrohydraulic						Voltage	AC110V or AC220V	
Sample Qty.	1~2 pc/per time			1~3 pc/per time			1~2 pc/per time			1~3 pc/per time			Chamber Size mm	300×300×300(H)	ø160×160(H)
Motor Power W	1760	2160	2960	3760			1760	2160	2960	3760			Machine Size mm	550×615×590(H)	480×400×400(H)
Power Supply	AC220V 1φ						AC220V 1φ						Cover	Strong polycarbonate + aluminum alloy	Strong polycarbonate + aluminum alloy

Top Tech branded & selective



Cutting



Mounting



Polisher