



TOPWORK
ISO 9001 • CE

TP Series

CNC Cylindrical Grinding Machine



www.topwork.com.tw

TP Series

High Precision :

High-rigid-structured base design.
High-accuracy linear guideway and ballscrew.
Full servo controller.

Simplified-editable programming :

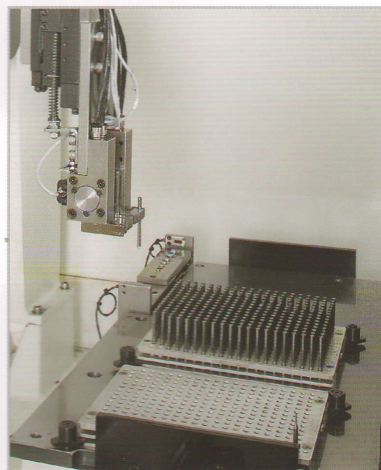
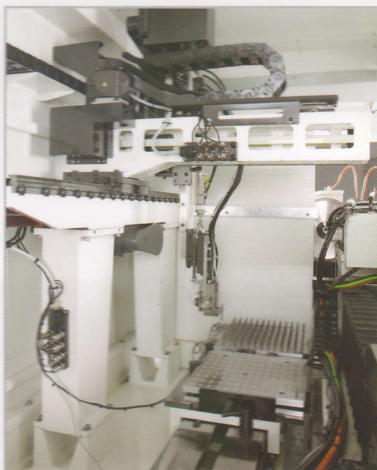
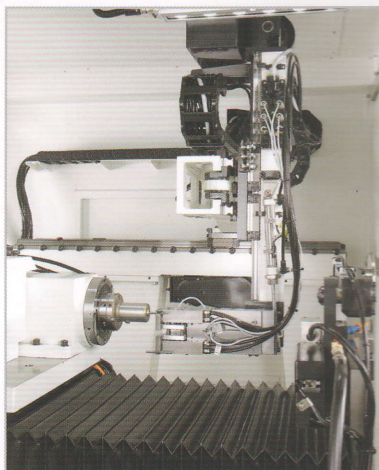
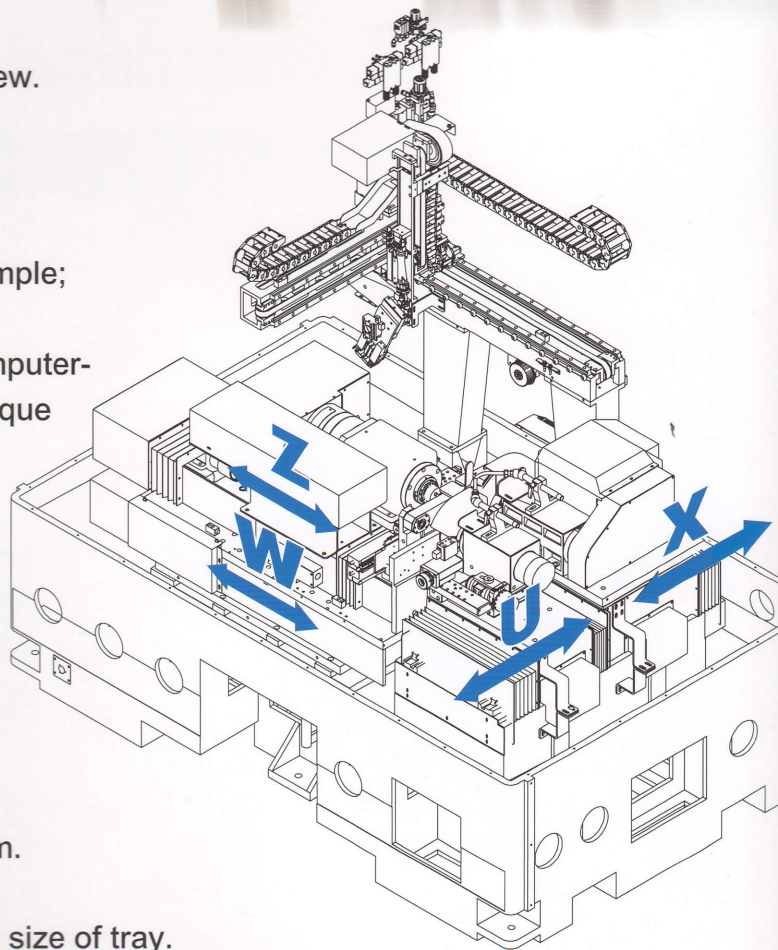
User-friendly operational panel.
Built-in frequent-used workpiece model sample;
easy to modify parameter.
Fast and easy programming on built-in computer-guided self-defined program for special unique workpiece.

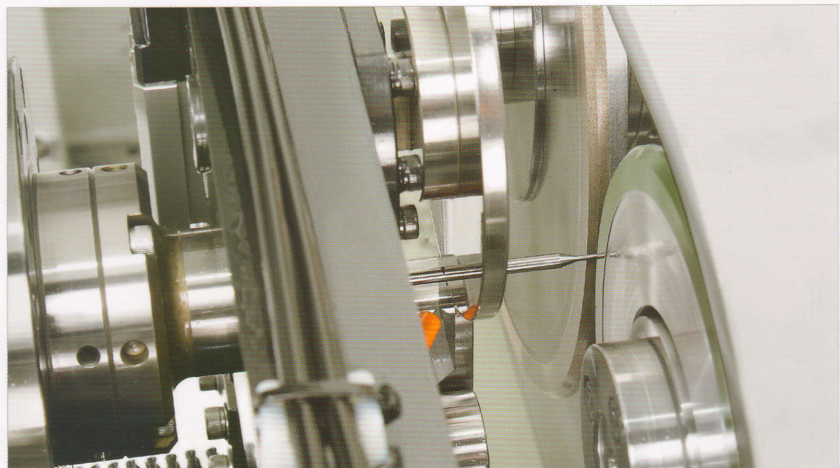
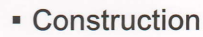
Flexibility :

Unique design for fast yet stable setup and material replace support system.
Guarantee on workpiece runout precision.
Instant size-change and movement calibrate.

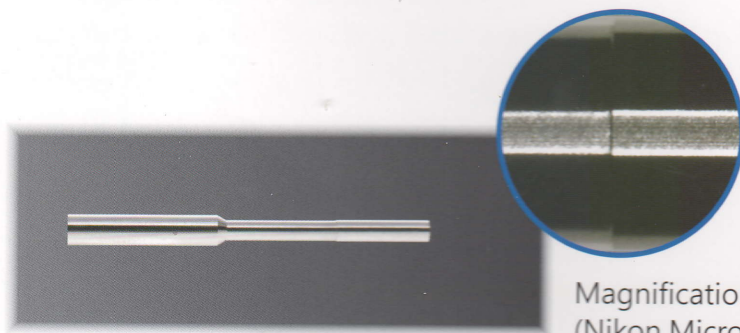
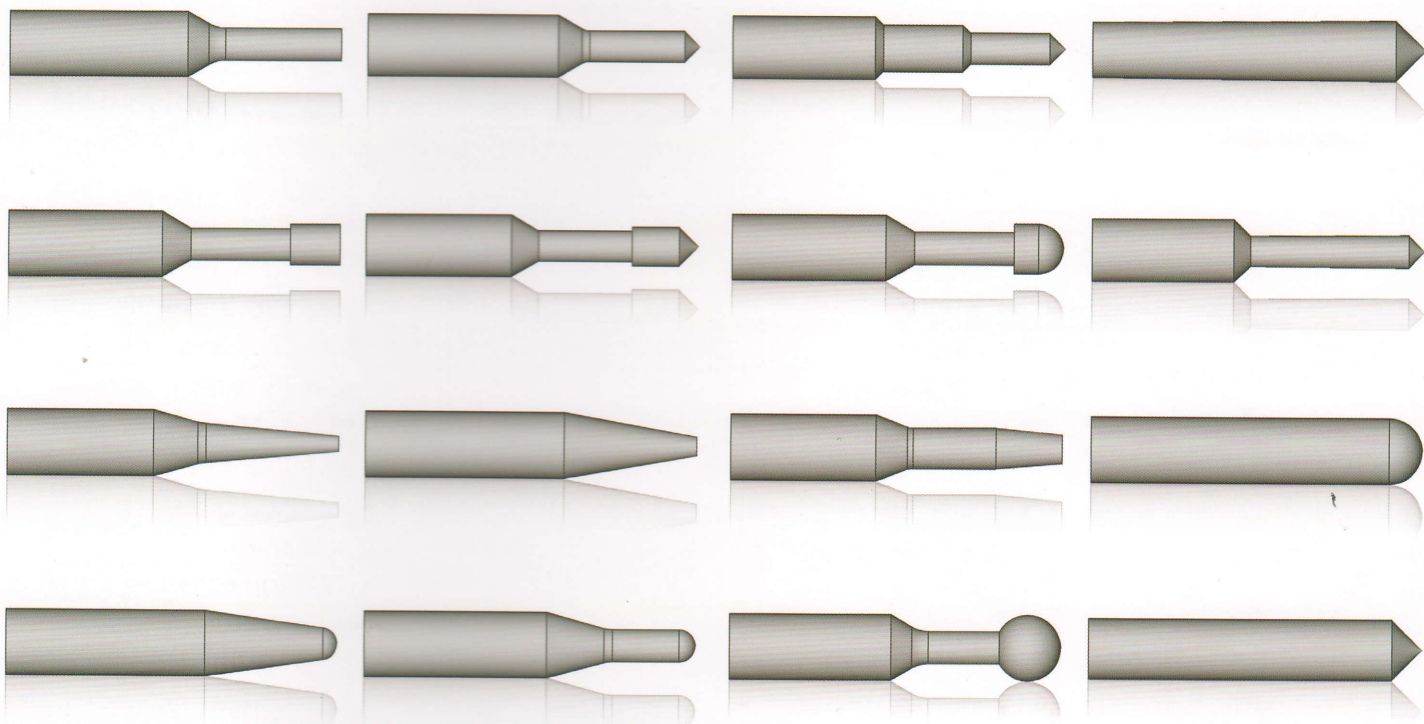
Auto loading / unloading system :

Servo controlled loading / unloading system.
Easy and precise to lock-in tray position.
Built-in data sets of coordinates for various size of tray.





Application



Magnification 1X
(Nikon Microscopes)

Shank $\varnothing$ 4 mm
Front $\varnothing$ 2.878 mm, Grinding length 12 mm
Middle $\varnothing$ 2.6 mm, Grinding length 14 mm



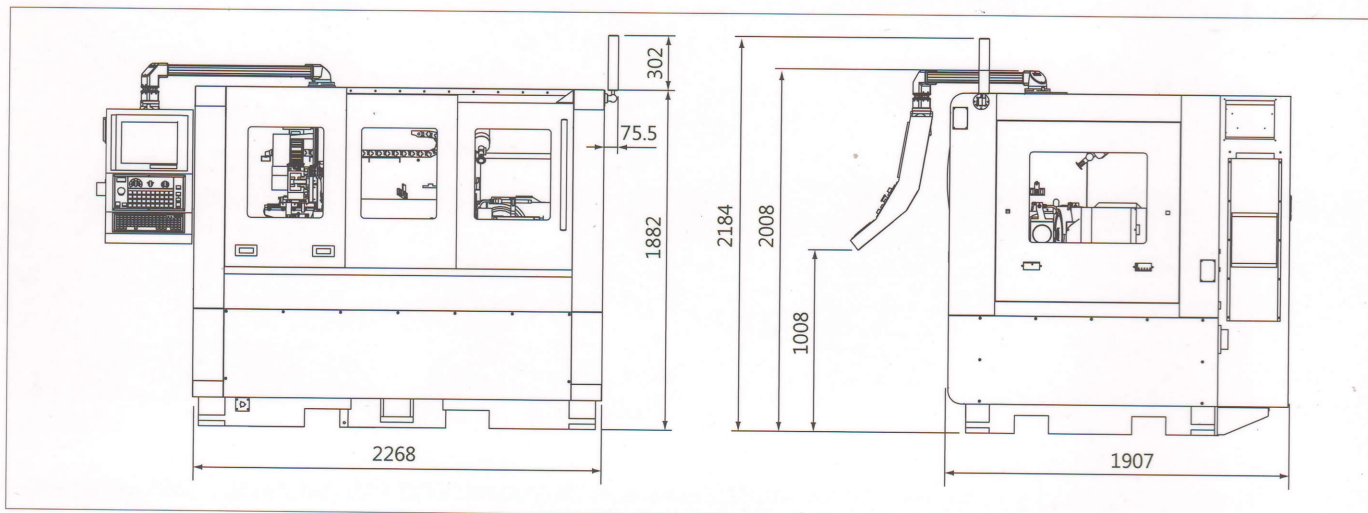
Magnification 5X
(Nikon Microscopes)

Shank $\varnothing$ 4 mm
Front $\varnothing$ 0.1 mm, Grinding length 35 mm
350 Length diameter ratio

TP Series TP-4F Machine Specifications

Mechanical Axes	X Axis stroke	30 mm
	Resolution	0.0001 mm
	U Axis stroke	30 mm
	Resolution	0.0001 mm
	Z Axis stroke	370 mm
	Resolution	0.0001 mm
	W Axis stroke	100 mm
	Resolution	0.0001 mm
	Accuracy (A)	≤ 0.004 mm
	Repeatability (R)	≤ 0.002 mm
Axes Motor	X Axis	0.75 kw
	U Axis	0.75 kw
	Z Axis	1.20 kw
	W Axis	1.20 kw
Grinding range	Shank	$\varnothing 3 - \varnothing 16$ mm
	Diameter	$\varnothing 0.1 - \varnothing 16$ mm
	Grinding length	Max. 330 mm
Manual loading	Shank	$\varnothing 3 - \varnothing 16$ mm
	Overall length	35 - 350 mm
Load & unload	Shank	$\varnothing 3 - \varnothing 16$ mm
	Overall length	35 - 110 mm
Grinding spindle	Roughing rotational speed	Max. 4500 r.p.m.
	Roughing Motor	4.0 kw
	Roughing Wheel	$\varnothing 250$ mm
	Finishing rotational speed	Max. 10000 r.p.m.
	Finishing Built-in Spindle Motor	4.2 kw
	Finishing Wheel	$\varnothing 150$ mm
Working spindle	Tool rotational speed	Max. 3000 r.p.m
	Motor	2.5 kw
	Resolution	0.001 deg
Cooling	Motor	1.49 kw
Controller	Type	FANUC
Machine	L x W x H	2268 mm x 1907 mm x 2184 mm
	Weight	4700 kg
	Total power	Max. 30 KVA
	Air pressure	Min. 5 Kg/cm ²
	Rated flow	Min. 150 l/min

Dimension





TOP TOPWORK Industry Co.,Ltd.

No.9, 6th Road, Taichung Industrial District, Taichung
40755, Taiwan.

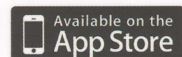
TEL : 886-4-23581558

FAX : 886-4-23581268

E-mail : topwork@ms12.hinet.net

www.topwork.com.tw

Scan Now to Download TOPWORK App. !



TOPWORK 