



**KG-500 / 500L / 500LE / 400IE**



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# KG-500

## CNC Internal External Cylindrical Compound Grinding Machine

Dual grinding spindle  
Available for turning spindle  
Max. grinding length 200mm  
Fanuc controller  
Full splash guard  
X, Y, Z axis stroke 400/350+200/350+200mm



### Dual grinding spindle



### Grinding spindle + lathing module



### Stability, Rigidity



### Ultra optimizing structure design



### FANUC CONTROLLER

- » With powerful function to set up parameters for multiple faces grinding.
- » Available to execute 16 faces grinding with 1 set up

### TOUCH-SENSING MONITOR

- » Available to control current under different grinding status
- » Grinding sensing
- » Easy for tool setting, compensation and grinding wheel size monitoring.

### Linear ways & ball screws

High accuracy linear ways and ball screw for X, Z axis, to guarantee ultra precision and rigidity.

### Top quality cast iron

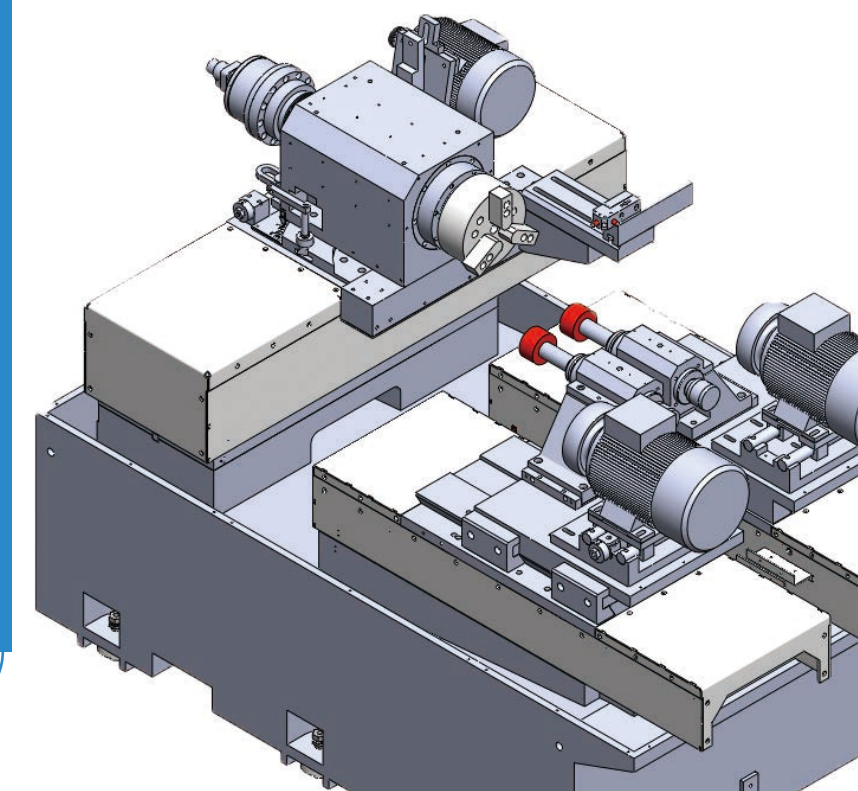
Base structure apply to FC30 cast iron, with tempered and stress released to guarantee machining accuracy and stability.

### Massive machine base

Oversized machine base with internal ribs running throughout each section base on Mechanics, featuring long term metallic rigidity and stability.

### Servo motor driven

X, Z axis are both driven by servo motor with min display 0.0001mm.





# KG-500L

## CNC Internal External Cylindrical Compound Grinding Machine

Triple grinding spindle + turning spindle (opt)

Max. grinding length 200mm

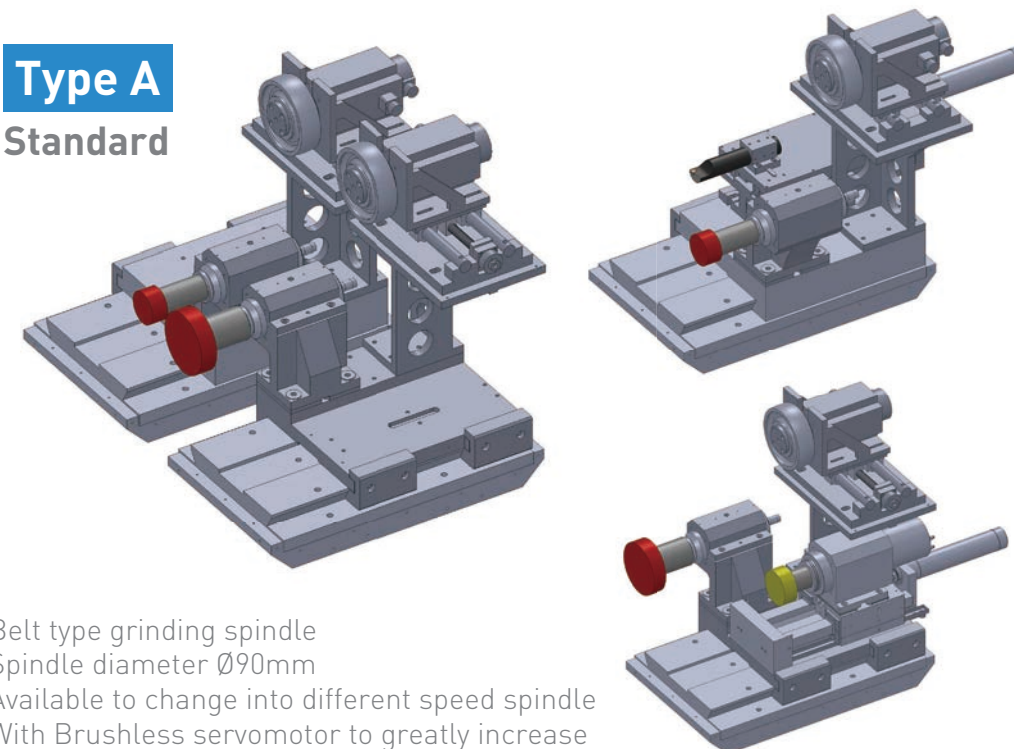
Full splash guard

Fanuc controller

X, Y, Z axis stroke 750/320+200/320+200mm



### Type A Standard



Belt type grinding spindle  
Spindle diameter Ø90mm  
Available to change into different speed spindle  
With Brushless servomotor to greatly increase torque and efficiency during low speed grinding

### OPTIONAL ACCESSORIES

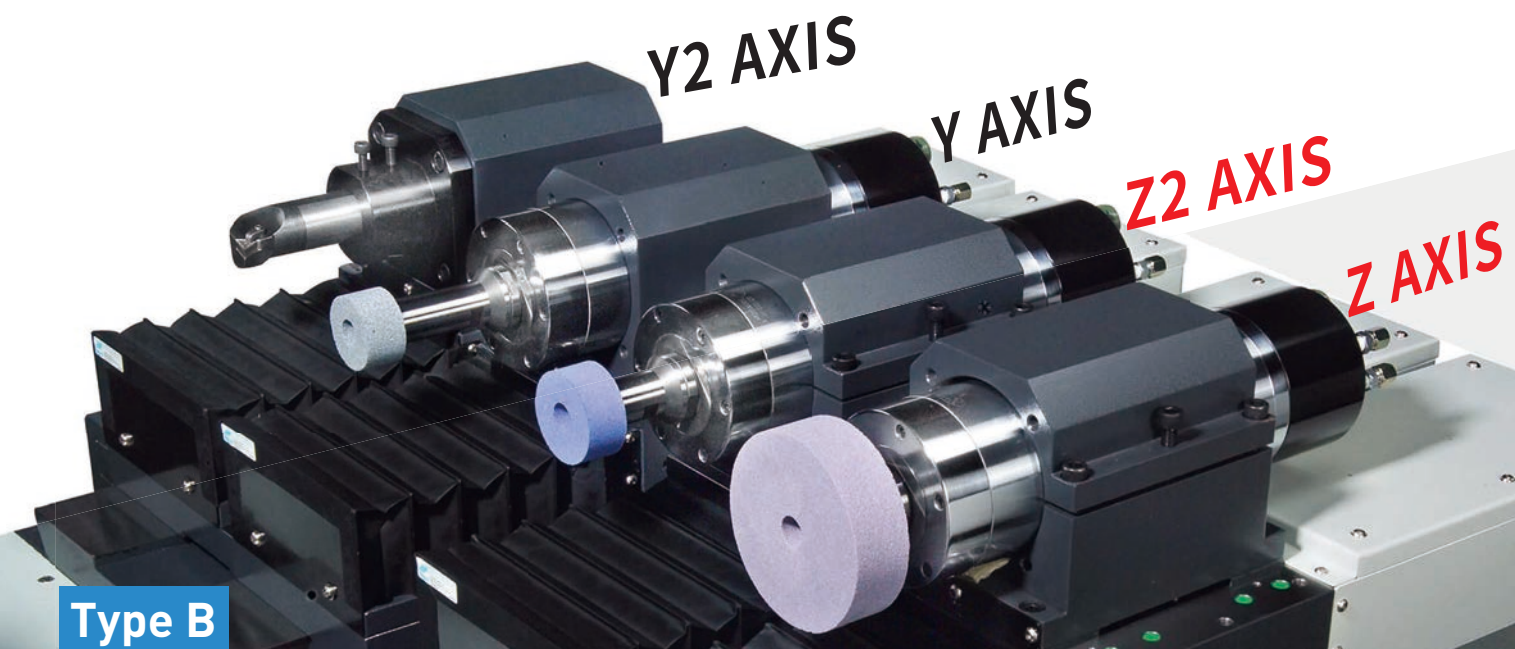
#### Y AXIS LATHE MODULE

Stroke	180 mm
ID tool holder diameter	ø40 mm
Driven type	Hydraulic
Rail type	Linear way

#### Z AXIS FACE GRINDING ATTACHMENT

Stroke	180 mm
Spindle type	Built-in
Spindle speed	10000 rpm
Power	3 Kw
Coolant	Oil cooler
Driven type	Hydraulic
Rail type	Linear way

## THINK OUT OF THE BOX BRAND NEW DESIGN



### Type B

Y Axis Module	Y Axis	Y2 Axis	Z Axis Module	Z Axis	Z2 Axis
Stroke	180 mm	Stroke	180 mm	Stroke	180 mm
Spindle type	Built-in	Boring holder diameter	Spindle type	Built-in	Built-in
Spindle speed	30000 rpm		Spindle speed	6000 rpm	20000 rpm
Power	3 Kw	Driven	Power	6.0 Kw	3 Kw
Coolant	Oil cooler	Rail type	Coolant	Oil cooler	Oil cooler
Driven	Hydraulic		Driven	Hydraulic	Hydraulic
Rail type	Linear way				



# KG-500LE

## CNC Internal External Cylindrical Compound Grinding Machine

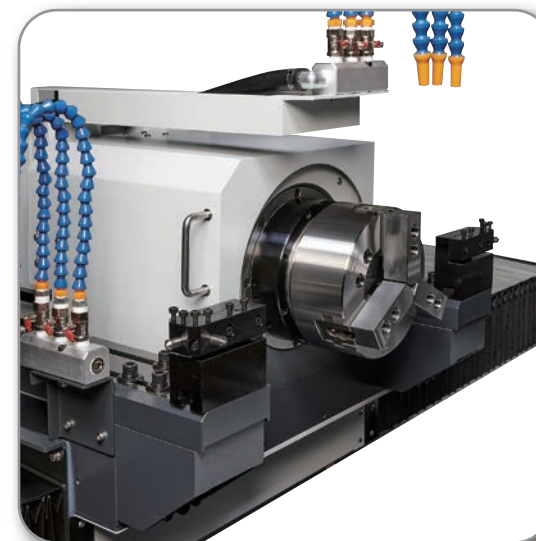
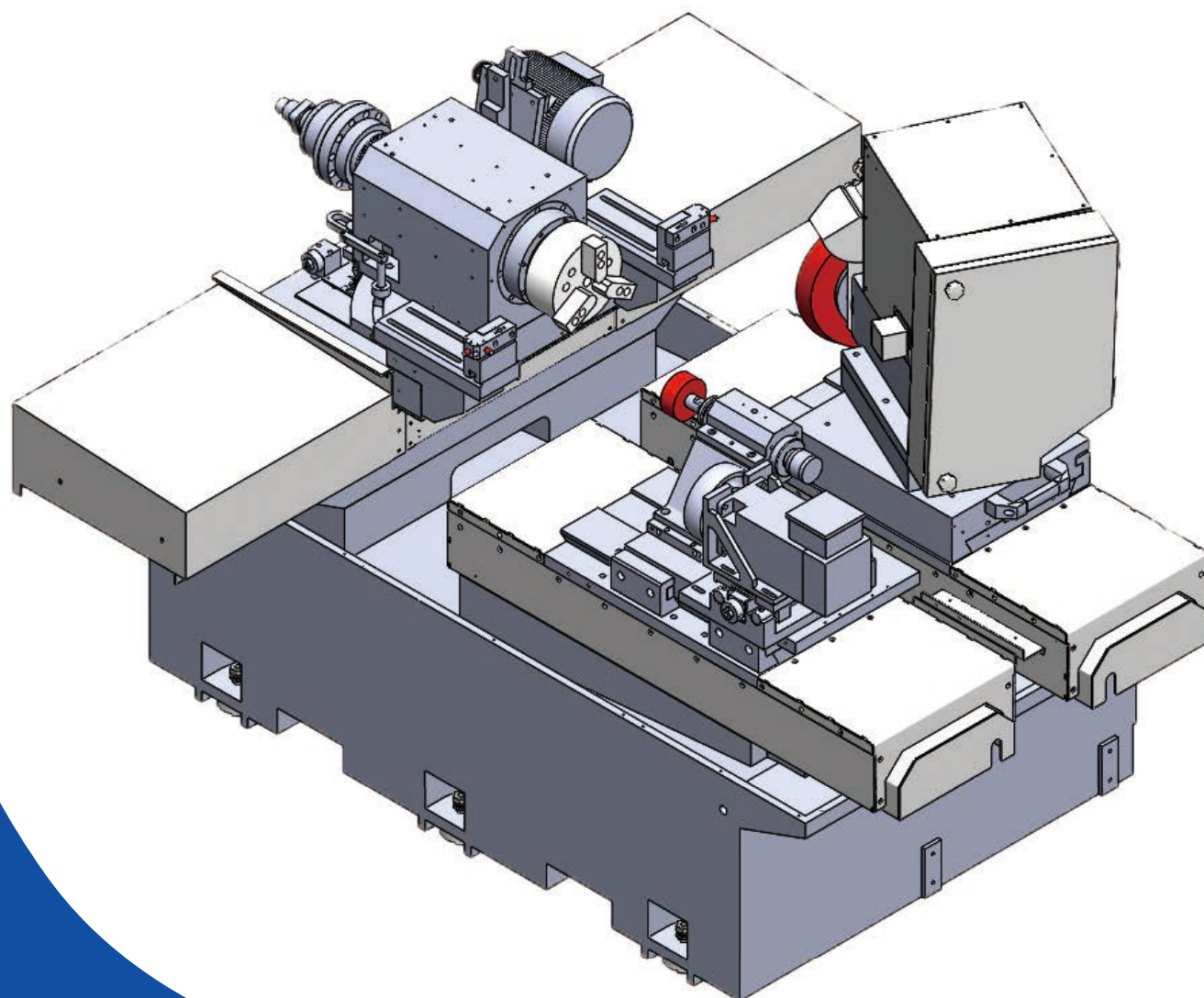
Dual grinding spindle

Full splash guard

Fanuc controller

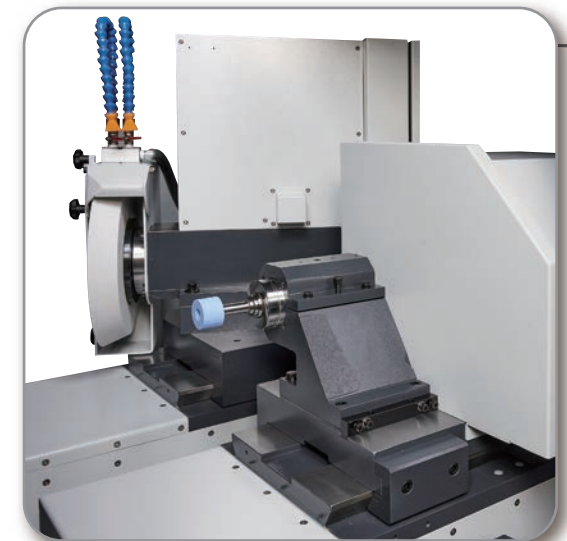
X, Y, Z axis stroke 750/320+150/320+200mm

This model is equipped with OD grinding wheel 405mm and ID grinding spindle, which guarantee to significantly increase grinding efficiency and accuracy of multiple faces workpieces



STANDARD

With high rigidity A2-6 taper spindle. This spindle provides excellent radial rigidity, stable thermal, minimum heat deformation, and high dynamic accuracy to guarantee absolutely grinding quality.



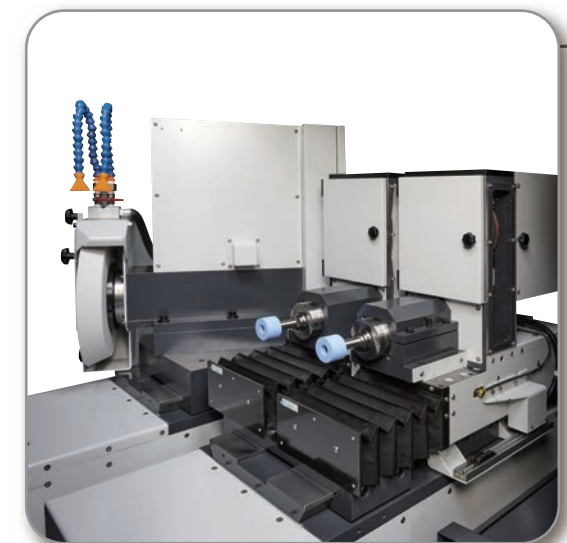
STANDARD

Y axis applies to sleeve type rigid grinding spindle with Ø405mm grinding wheel (wheel angle 25°)  
Z axis applies to BELT type grinding spindle



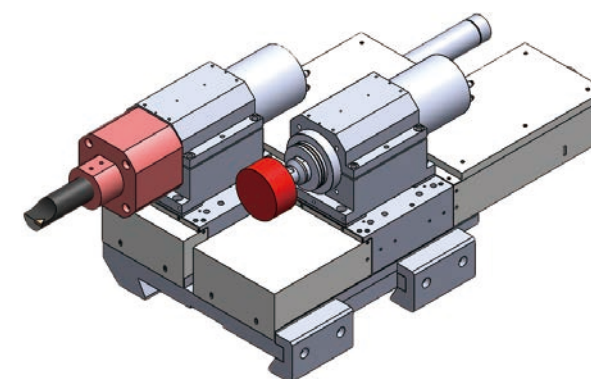
OPTIONAL

Y axis applies to sleeve type rigid grinding spindle with Ø405mm grinding wheel (wheel angle 25°)  
Z axis applies to BUILT-IN type grinding spindle  
Z2 axis applies to BUILT-IN type grinding spindle



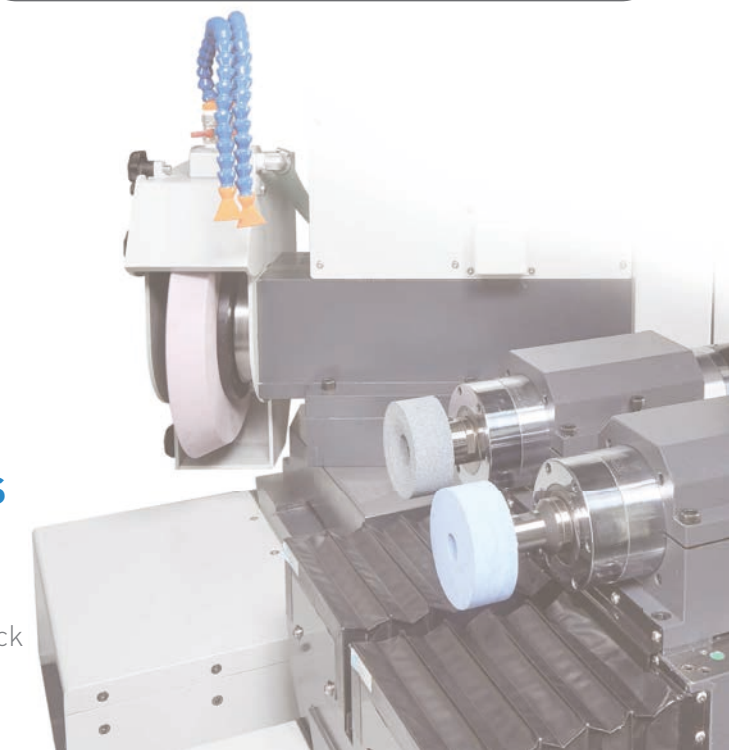
OPTIONAL

Y axis applies to sleeve type rigid grinding spindle with Ø405mm grinding wheel (wheel angle 25°)  
Z axis applies to BELT type grinding spindle  
Z2 axis applies to BELT type grinding spindle



### INDEPENDENT CHOICE OF Z AXIS AND Z2 AXIS

Free to apply various grinding wheel upon workpieces, which is a perfect choice for high accuracy and complicated workpieces.  
Possible to have lathe module, which allows to decrease stock removal quickly for time and wheel saving.





# KG-400IE

## CNC Internal External Cylindrical Compound Grinding Machine

Dual grinding spindle

Full splash guard

Fanuc controller

X, Y, Z axis stroke 400/350+150/350+200mm

This model is equipped with OD grinding wheel 405mm and ID grinding spindle, which guarantee to significantly increase grinding efficiency and accuracy of multiple faces workpieces

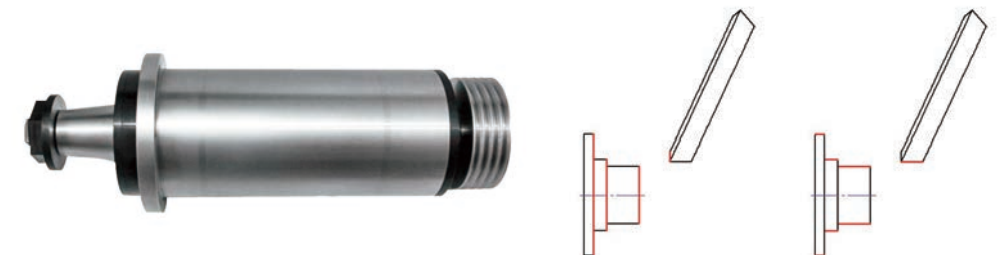


### WORKHEAD SPINDLE

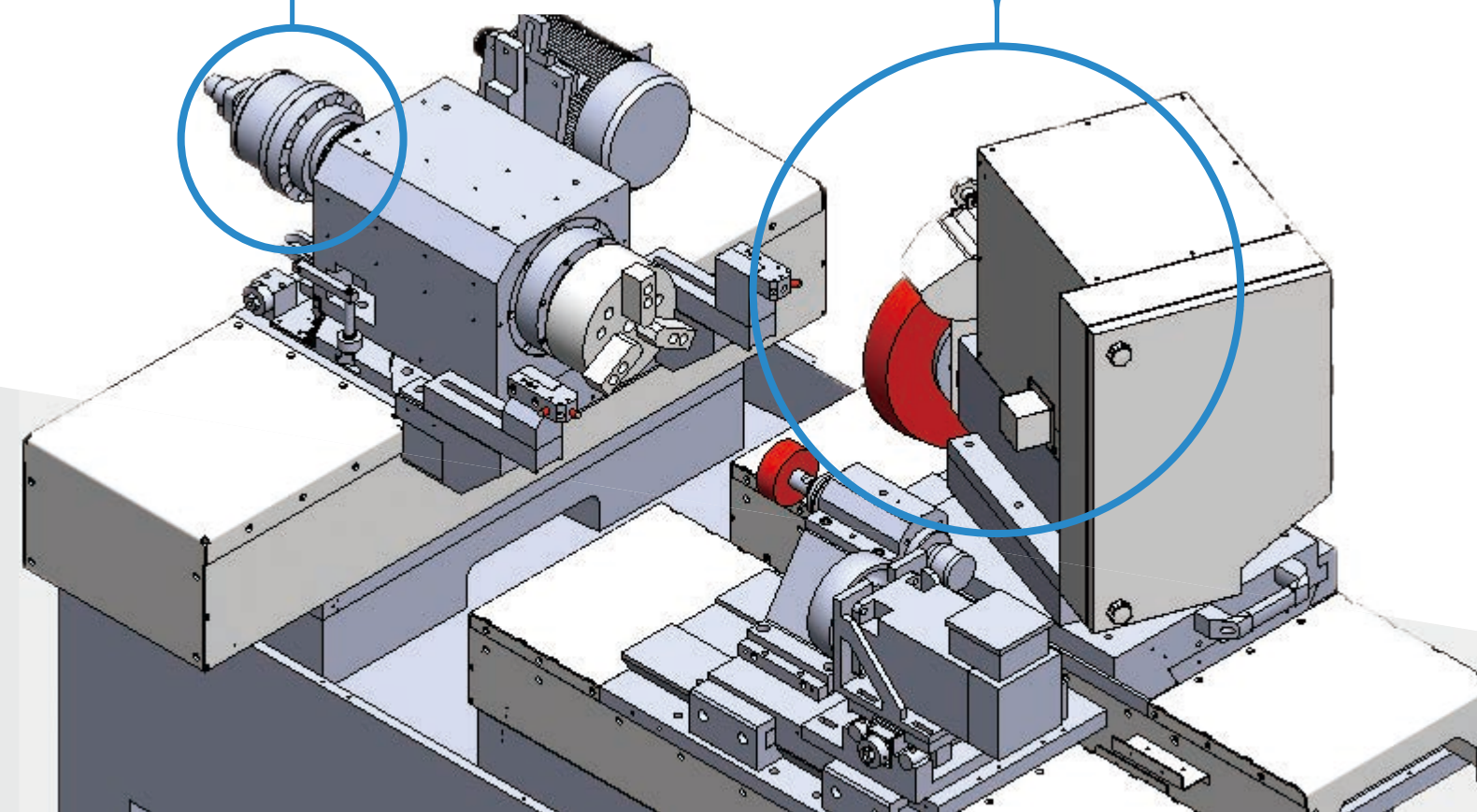


With high rigidity A2-6 taper spindle. This spindle provides excellent radial rigidity, stable thermal, minimum heat deformation, and high dynamic accuracy to guarantee absolutely grinding quality.

### OD GRINDING SPINDLE



Y axis applies to sleeve type rigid grinding spindle with Ø405mm grinding wheel (wheel angle 25°). Greatly enhance grinding efficiency for OD and end face grinding.



KG-500

KG-500L

KG-500LE

KG-400IE

Working Capacity	Grinding dia, range Max, grinding depth Max, swing range of workpiece Swing range within the water proof cover	Ø 4 ~ Ø 320 mm 200 mm Ø 450 mm Ø 300 mm	Ø 4 ~ Ø 320 mm 200 mm Ø 500 mm Ø 300 mm	Ø 4 ~ Ø320 mm 200 mm Ø 480 mm Ø 300 mm	Ø 4 ~ Ø 320 mm 200 mm Ø 400 mm Ø 300 mm	STANDARD ACCESSORIES	KG-500	KG-500L	KG-500LE	KG-400IE
Controller System	Controller	FANUC	FANUC	FANUC	FANUC	CNC Controller	●	●	●	●
Workhead	Spindle speed X-axis feed rate/ max. stroke X-axis minimum display unit Swiveling angle	0 ~ 1000 rpm 10 M/min / 400 mm 0.0001 mm -5° ~+30°	0 ~ 1000 rpm 10 M/min / 750 mm 0.0001 mm -5° ~+30°	0 ~ 1000 rpm 10 M/min / 750 mm 0.0001 mm -5° ~+30°	1000 rpm 10 M/min / 390 mm 0.0001 mm -5° ~+15°	Inverter for X-axis workhead motor	●	●	●	●
						Inverter for Y-axis grinding spindle motor	●	●	●	●
						Inverter for Z-axis grinding spindle motor	●	●	●	●
						Y-axis grinding spindle	●	●	●	●
						Z-axis grinding spindle	●	●	●	●
Worktable	Y-axis & Z-axis feed rate Y-axis & Z-axis max. stroke Y-axis & Z-axis minimum display unit Distance from spindle center to the ground	Y : 10 / Z :10 M/min Y : 350+200 / Z : 350+200 Y : 0.0001 / Z : 0.0001 1100 mm	Y : 10 / Z :10 M/min Y : 320+200 / Z : 320+200 Y : 0.0001 / Z : 0.0001 1100 mm	Y : 10 / Z :10 M/min Y : 320+150 / Z : 320+200 Y : 0.0001 / Z : 0.0001 1100 mm	Y : 10 / Z :10 M/min Y:350+150 / Z : 350+200 Y : 0.0001 / Z : 0.0001 1100 mm	Hydraulic chuck	●	●	●	●
						Hydraulic cylinder	●	●	●	●
						Tricolor alarm lamp	●	●	●	●
						Working lamp	●	●	●	●
Hydraulic System	Oil Tank Capacity	30 L	30 L	30 L	30 L	Tool box	●	●	●	●
Cooling System	Coolant Tank Capacity	250 L	250 L	250 L	250 L	Automatic lubricator	●	●	●	●
Motor	Hydraulic motor Coolant pump motor  X-axis & Y-axis & Z-axis servomotor Grinding wheel motor (kw)  Spindle motor	0.75 Kw (1HP) 0.18 Kw (1/4HP) -  X : 1.6 / Y : 1.6 / Z : 1.6 Y: 4.0 , [5HP] Z: 4.0 , [5HP]  2.2 , [3HP]	0.75 Kw (1HP) 0.37 Kw (1/2HP) -  X : 1.6 / Y : 1.6 / Z : 1.6 Y: 2.2 , [3HP] Z: 2.2 , [3HP] - 2.2 , [3HP]	0.75 Kw (1HP) Cylindrical Wheel : 0.18 Kw (1/4HP) Machine : 0.37 Kw (1/2HP) X : 1.6 / Y : 1.6 / Z : 1.6 Y : 5.5 , [7.5HP] Z : 3.7 , [5HP] - 2.2 , [3HP]	0.75 Kw (1HP) Cylindrical Wheel: 0.18 Kw (1/4HP) Machine : 0.37 Kw (1/2HP) X : 1.6 / Y : 1.6 / Z : 1.6 Y : 5.5 , [7.5HP] Z : 3.7 , [5HP] - 2.2 , [3HP]	Coolant tank and pump	●	●	●	●
						Paper filter	●	●	●	●
						Magnetic separator	●	●	●	●
						Hydraulic tank with pump	●	●	●	●
						Internal heat radiation system inside cabinet	●	●	●	●
Others	Automatic lubricator Machine dimension (LxWxH) -including accessories Machine Weight	4 L 3450 x 2150 x1900 mm 4750 kg	4 L 3450 x 2350 x1950 mm 5000 kg	4 L 3450 x 2350 x2055 mm 5300 kg	4 L 3450 x 2350 x2055 mm 5000 kg	Diamond dresser	●	●	●	●
						Leveling bolts and pads	●	●	●	●
						Mechanical, electrical operation manuals	●	●	●	●
						Fully-enclosed cover	●	●	●	●

\* Specifications and design features are subject to change without notice.