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KG-150A KG-150B **KG-150D**

KG-150A

CNC Single Spindle Internal Grinding Machine

Single grinding spindle
Available to equip with turning spindle (optional)
Max. grinding length 150mm
Fanuc controller
Semi-splash guard
X, Z axis stroke 350/400+100mm



Solid machine structure

Extreme rigidity and stability

Linear ways & ball screws

High accuracy linear ways and C1 ball screw for X, Z axis, to guarantee ultra precision and rigidity.

Top quality cast iron

Base structure apply with 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.

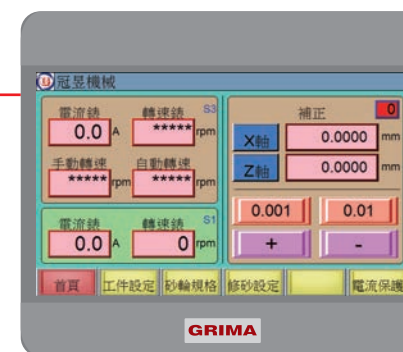
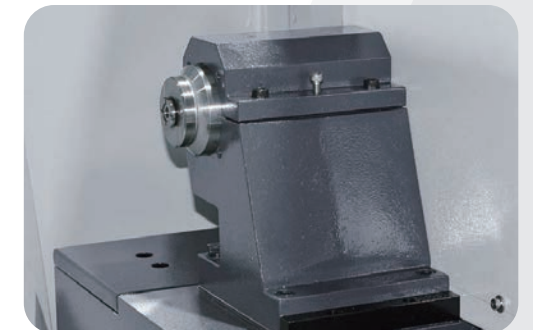
Servo motor driven

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

Single grinding spindle + lathing module



Single grinding spindle

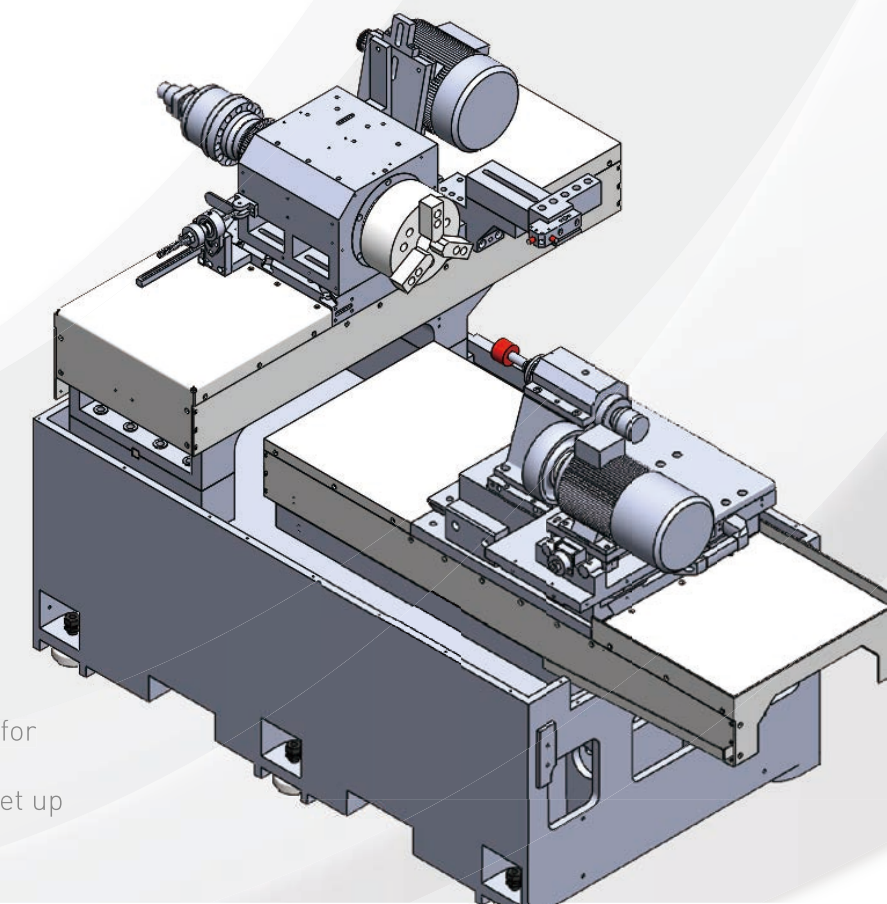


TOUCH-SENSING MONITOR

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

FANUC CONTROLLER

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



KG-150B

CNC Internal External Cylindrical Compound Grinding Machine

Dual grinding spindle

Available for end face grinding spindle

Max. grinding length 150mm

Fanuc controller

Full splash guard

X, Z axis stroke 350/400+100mm



Single grinding spindle + lathing module



End face grinding spindle



Built-in spindle



End face grinding spindle is driven by hydraulic cylinder to position, while the extent of movement is controlled by servo motor. 10000 rpm built-in grinding spindle

Linear ways & ball screws

High accuracy linear ways and C1 ball screw for X, Z axis, to guarantee ultra precision and rigidity.

Massive machine base

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

Top quality cast iron

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

Servo motor driven

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

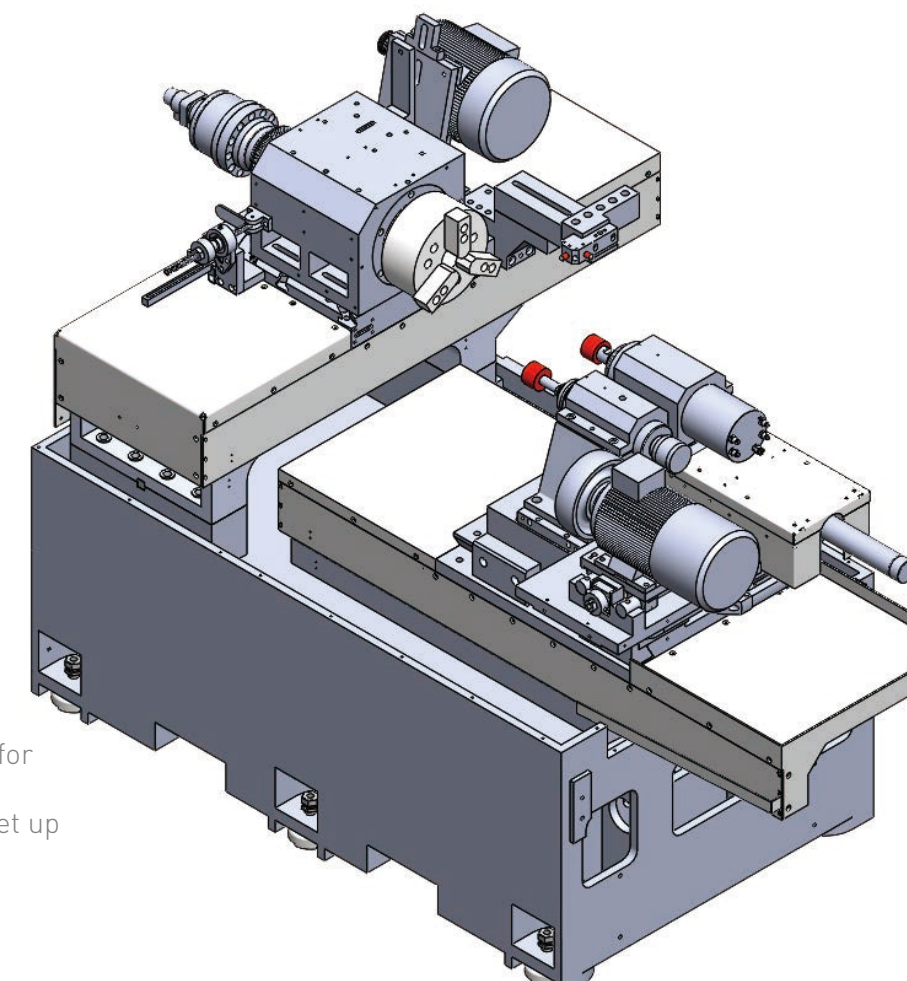


TOUCH-SENSING MONITOR

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

FANUC CONTROLLER

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



KG-150D

CNC Internal External Cylindrical Compound Grinding Machine

Dual grinding spindle

Available for end face grinding spindle

Max. grinding length 150mm

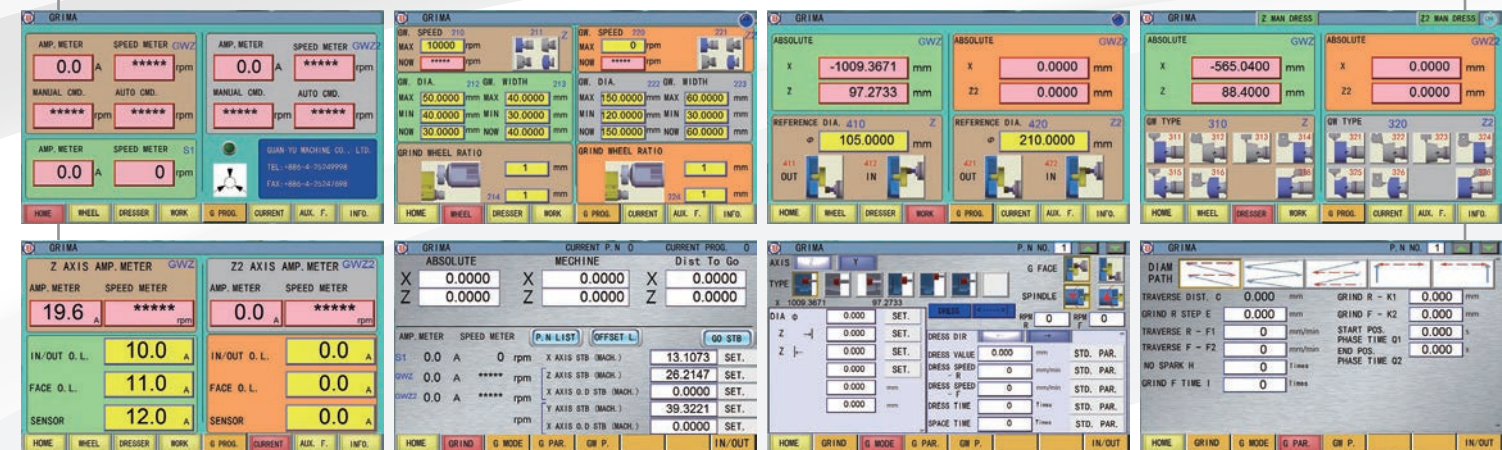
Fanuc controller

Full splash guard

X, Z axis stroke 350/400+100mm

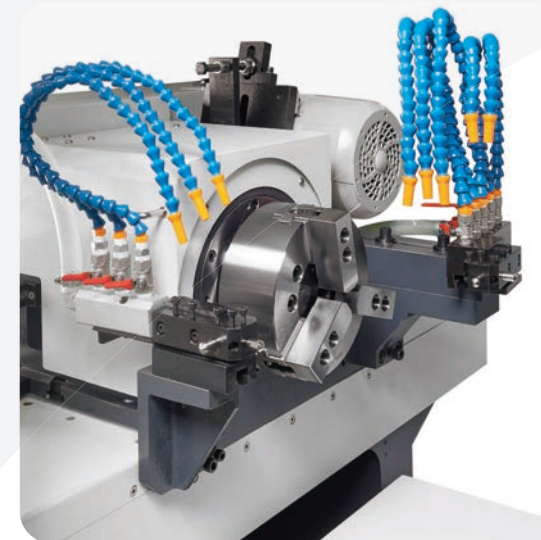


Brand new conversational type operating interface

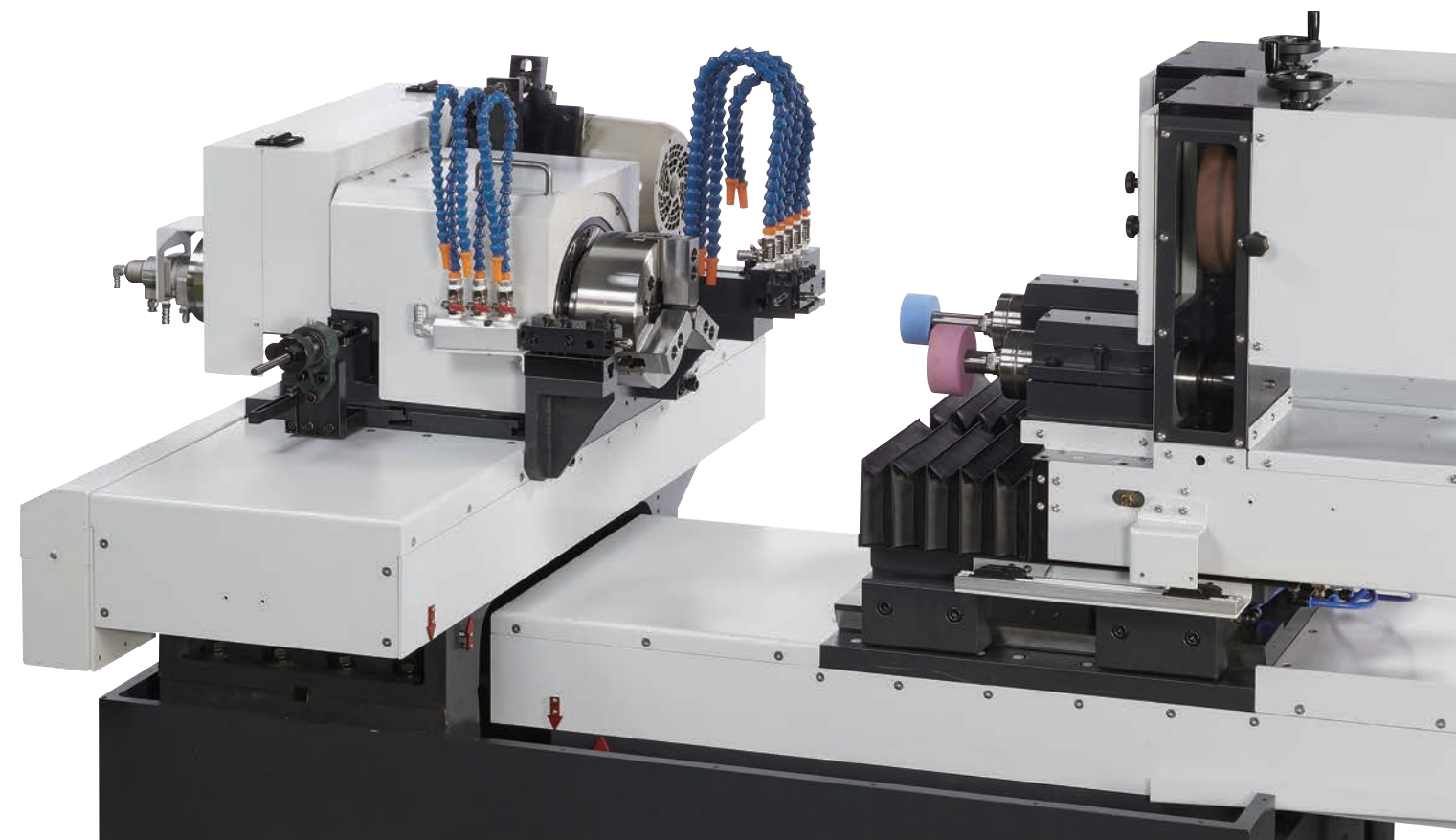


Powerful function

Easy operating



Innovative slider movement design, significantly reduces interference during grinding. The grinding spindle is driven by hydraulic cylinder to position, while the extent of movement is controlled by servo motor. The speed of grinding spindle is available for 10000RPM~50000RPM. Max grinding wheel diameter is up to 150mm, which greatly improves machining efficiency.



KG-150A

KG-150B

KG-150D

Working Capacity	Grinding dia, range	Ø 4 ~ Ø 240 mm	Ø 4 ~ Ø 200mm	Ø 4 ~ Ø 240 mm
	Max, grinding depth	150 mm	150 mm	150 mm
	Max, swing range of workpiece	Ø 380 mm	Ø 300mm	Ø 300 mm
	Swing range within the water proof cover	Ø 300 mm	Ø 300mm	Ø 300 mm
Controller System	Controller	FANUC	FANUC	FANUC
Workhead	Spindle speed	0 ~ 1000 rpm	0 ~ 1000 rpm	0 ~ 1000 rpm
	X-axis feedrate / Max stroke	10 M/min / 350 mm	10 M/min / 350 mm	10 M/min / 350 mm
	X-axis minimum display unit	0.0001 mm	0.0001 mm	0.0001 mm
	Swiveling angle	-5°~+15°	-5°~+15°	-5°~+15°
Worktable	Z-axis feed rate	10 M/min	10 M/min	10 M/min
	Z-axis max. stroke	400+100 mm	400+100 mm	400+100 mm
	Z-axis minimum display unit	0.0001 mm	0.0001 mm	0.0001 mm
	Distance from spindle center to the ground	1060 mm	1060 mm	1060 mm
Hydraulic System	Oil Tank Capacity	30 L	30 L	40 L
Cooling System	Coolant Tank Capacity	160 L	160 L	160 L
Motor	Hydraulic motor	0.75 Kw (1HP)	0.75 Kw (1HP)	1.5 Kw (2HP)
	Coolant pump motor	0.18 Kw (1/4HP)	0.18 Kw (1/4HP)	0.18Kw(1/4HP)
	X-axis & Z-axis servomotor	X : 1.2 Kw / Z : 1.2 Kw	X : 1.2 Kw / Z : 1.2 Kw	X : 1.2 Kw / Z : 1.2 Kw
	Grinding wheel motor (kw)	Z : 2.2 , (3HP)	Z : 2.2 , (3HP)	Z : 2.2 , (3HP)
	-	-	Z2 : 3.0(Built-in)	Z2 : 2.2 , (3HP)
Others	Spindle motor	2.2 , (3HP)	2.2 , (3HP)	2.2 , (3HP)
	Automatic lubricator	2 L	2 L	2 L
	Machine dimension (LxWxH)-including accessories	2500 x 2300 x1750 mm	2500 x 2300 x1750 mm	2500 x 2400 x 1990 mm
	Machine Weight	3000 kg	3200 kg	3200 kg

STANDARD ACCESSORIES

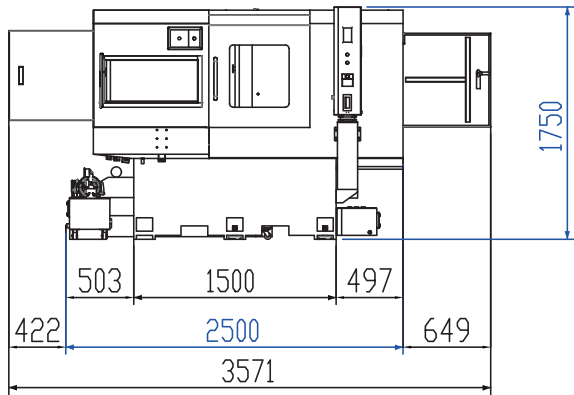
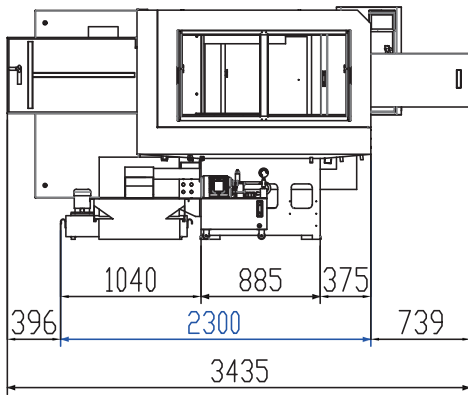
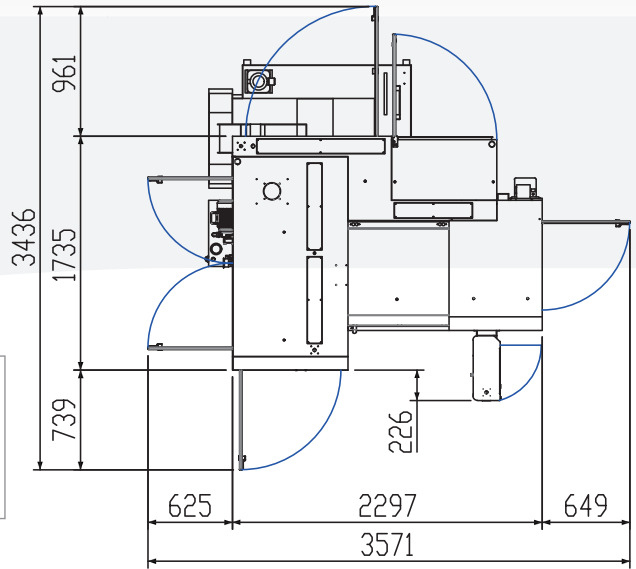
KG-150A / 150B / 150D

CNC Controller	●	●	●
Inverter for X-axis workhead motor	●	●	●
Inverter for Z-axis grinding spindle motor	●	●	●
Inverter for Z2-axis grinding spindle motor	-	●	●
Z-axis grinding spindle	●	●	●
Z2-axis grinding spindle	-	●	●
Hydraulic chuck	●	●	●
Hydraulic cylinder	●	●	●
Tricolor alarm lamp	●	●	●
Working lamp	●	●	●
Tool box	●	●	●
Automatic lubricator	●	●	●
Coolant tank and pump	●	●	●
Paper filter	●	●	●
Magnetic separator	●	●	●
Hydraulic tank with pump	●	●	●
Internal heat radiation system inside cabinet	●	●	●
Diamond dresser	●	●	●
Leveling bolts and pads	●	●	●
Mechanical, electrical operation manuals	●	●	●
Fully-enclosed cover	-	●	●
Semi-enclosed cover	●	-	-

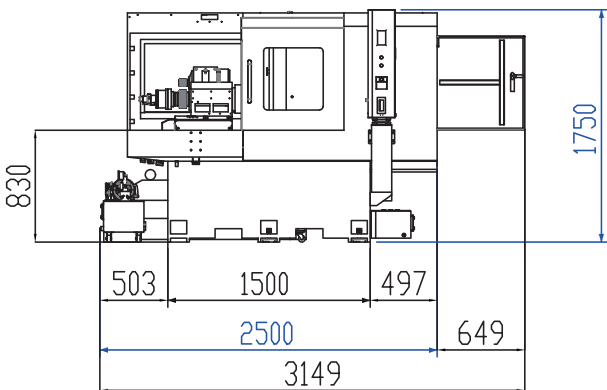
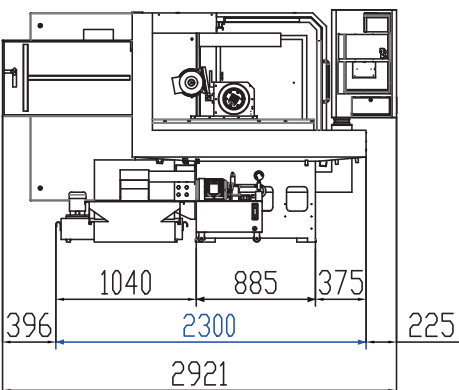
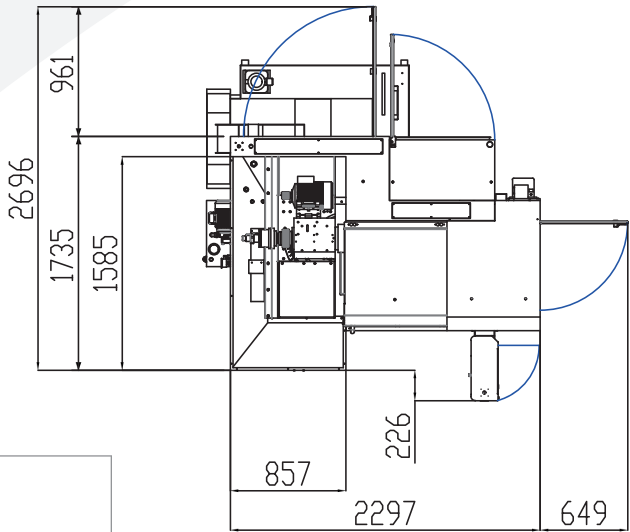
* Specifications and design features are subject to change without notice.

MACHINE LAYOUT

**KG-150A.B
FULL SPLASH GUARD**



**KG-150
SEMI SPLASH GUARD**



KG-150D

