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ENGINEERING AUS DEUTSCHLAND



**CNC
MACHINE
TOOLS
MANUFACTURING**

blue
technology 
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Ultimate



Turning concept revolution

Feature:

- Flexible Gantry type tooling system
- Mitsubishi M700 high-end controller
- Synchronous spindles
- 24 live tools with powerful motor
- Double programs for cycle time saving
- Free angle B axis 360° for all the angular tapping and drilling

Highlight:

- Flexible DUO system simultaneous and synchronization
- Integrated spindle drives with 6,000 rpm for the main and sub spindles
- Cycle time can be saved up to 45%
- B- axis Free angle – tilting drilling and tapping
- 49 tools (max: 56 tools -option) to achieve a variety of applications



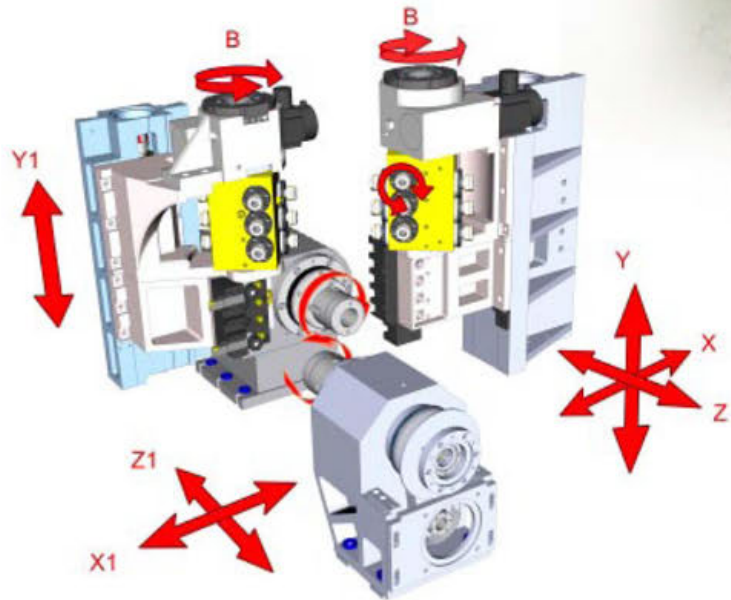
**Double tools
superimposed
simultaneous**

i-42 Ultimate

Flexible **duo** system simultaneous
Cycle time can be saved up to **45%**

With the system allows running 2 programs simultaneously, flexible gantry tools for main and sub spindle and C-axis capabilities, milling and turning applications are completed in one single machine.

They are ideal for producing complicated and single parts in high production demand.



Creative highest performance by newest generation concept

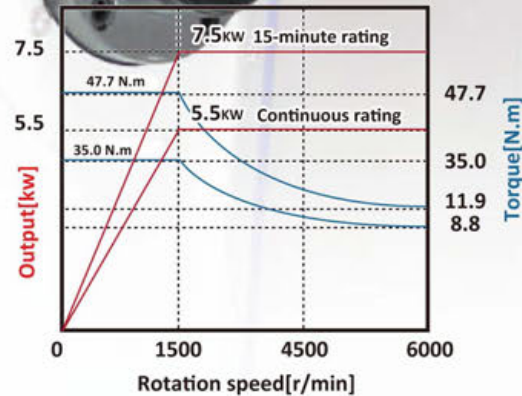
The cartridge type spindle runs on P4 high precision bearings giving high radial and axial stability

allowing for heavy duty cutting. The spindle is assembled and tested in a temperature controlled clean room, sealed, and requires no maintenance.

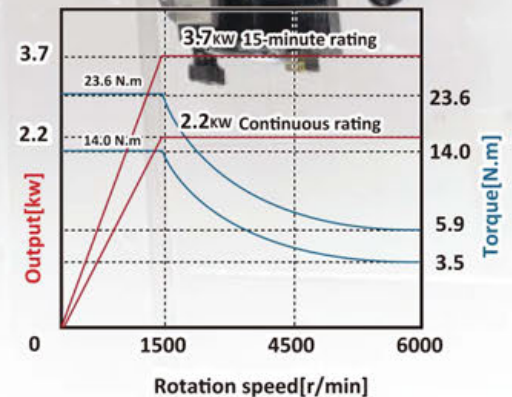
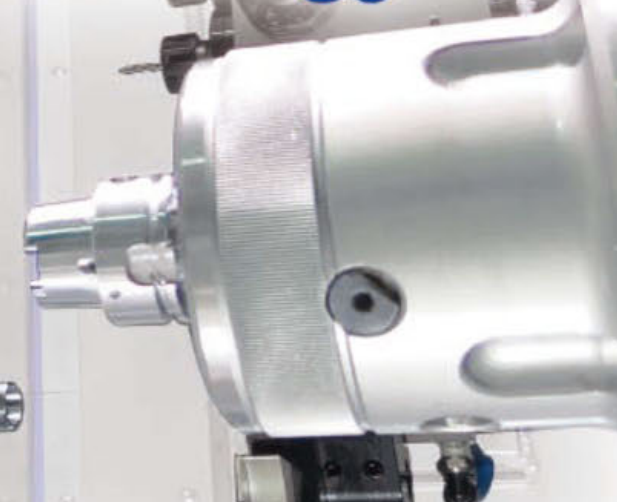
The spindle housing is large and symmetrically ribbed to allow heat dissipation and thermal stability.

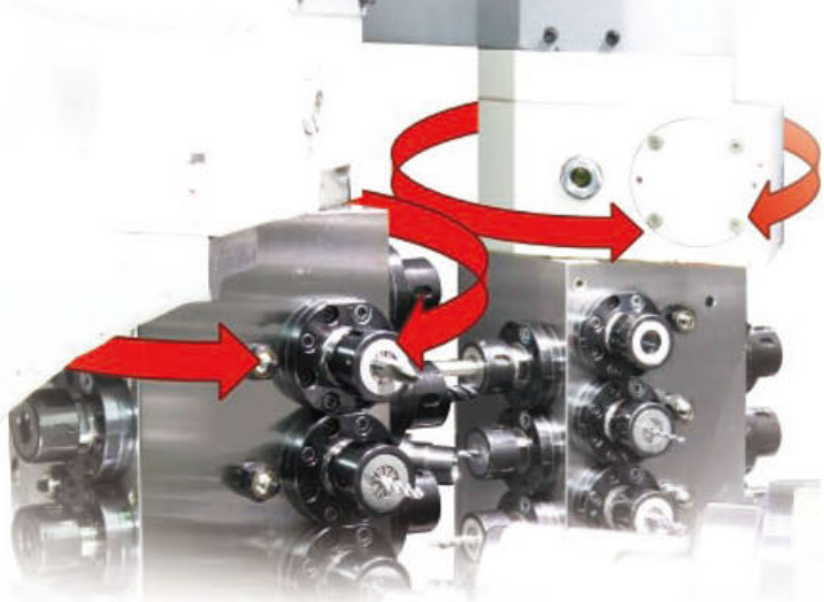


Mitsubishi AC Servo **7.5 kw**
A2-6 spindle with **42 mm** bore



Mitsubishi AC Servo **3.7 kw**
A2-5 sub spindle with **30 mm** bore

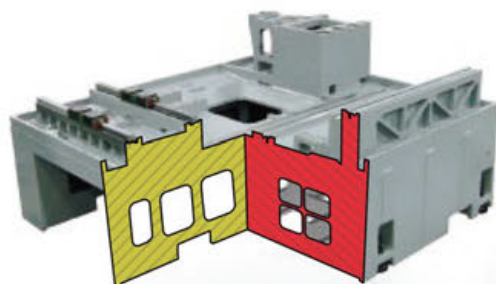
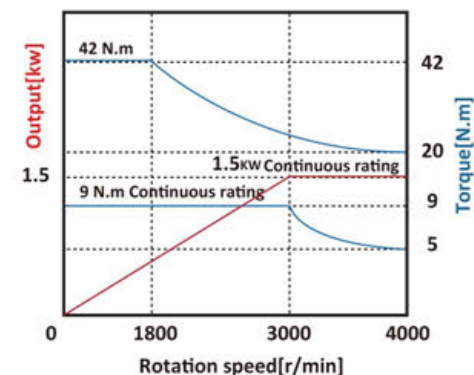




B-Axis Free angle Tilting drilling and tapping

24 live tools with 1.5 KW

The milling head comprises of 24 motorized tools for 360 ° continuous leads to even greater flexible tools arrangement and significantly efficient productivity for small and medium lot sizes.



Robust FC35 Meehanite Castings

Harden to over HRB 190 and tempered to relieve stress.



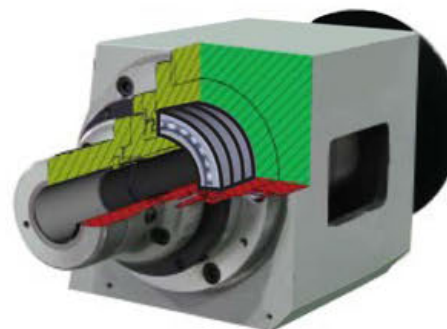
HIWIN 35mm guide way C3 class ballscrew

C3 class hardened and precise ground ball screw ensure the highest precision and speed



Simple Visual Monitor

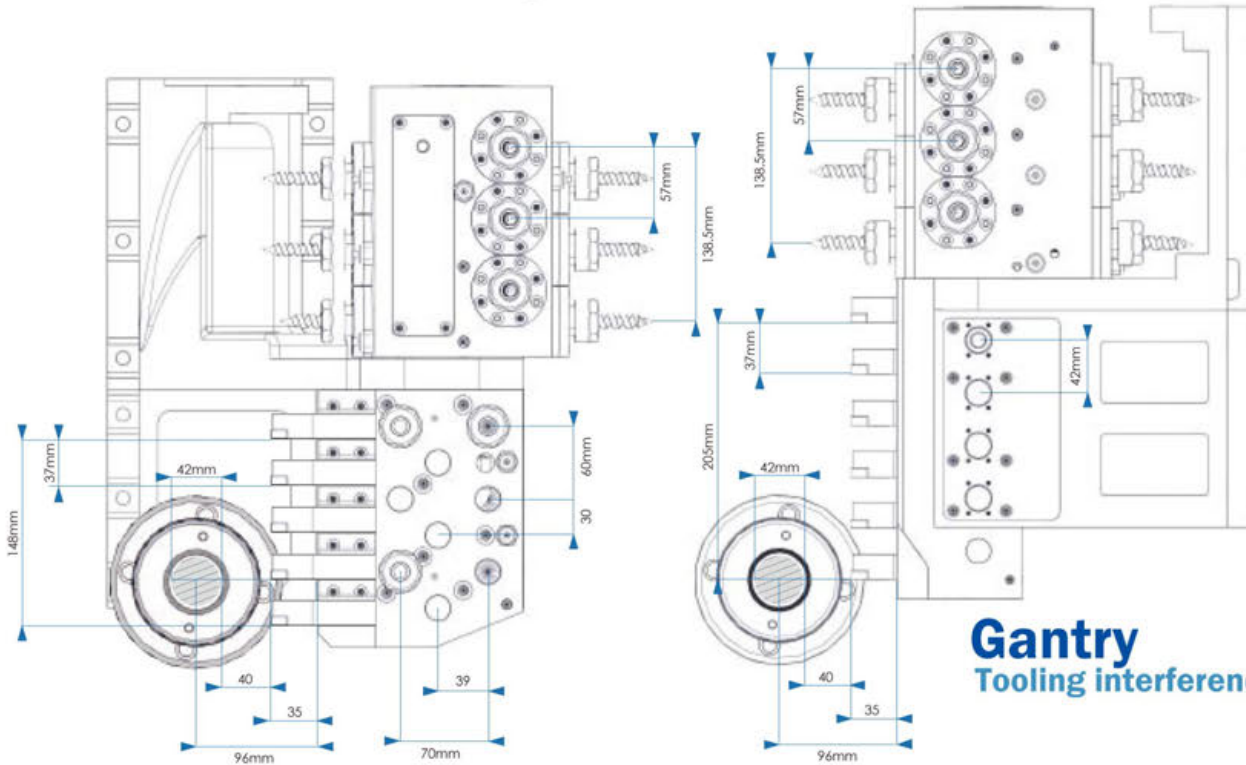
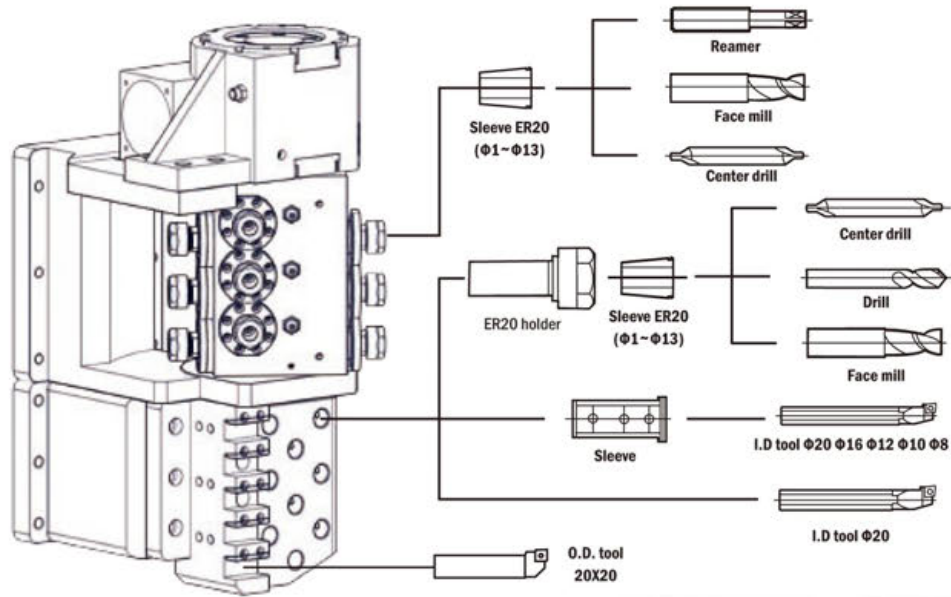
Transparent window for the lubrication and solenoid status check.



P4 class preload spindle bearing

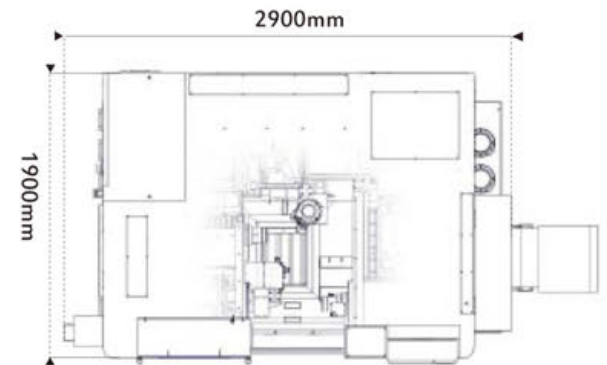
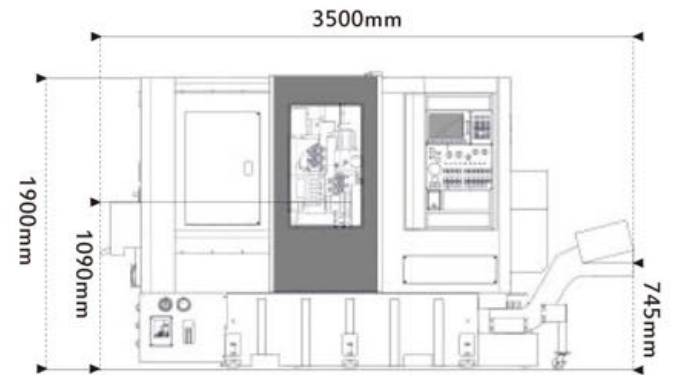
Preload bearings are offered for the maximum attachment effect

Gantry Tooling system



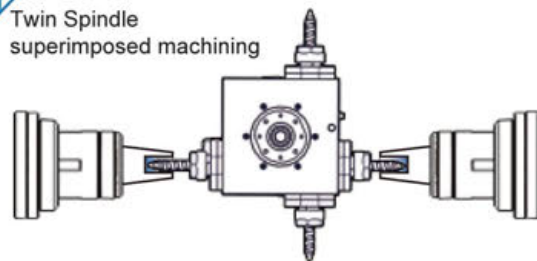
Gantry Tooling interference

External view

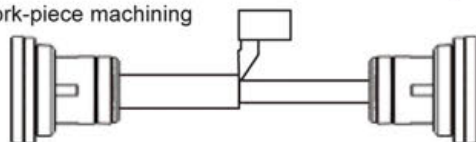


Machining applications

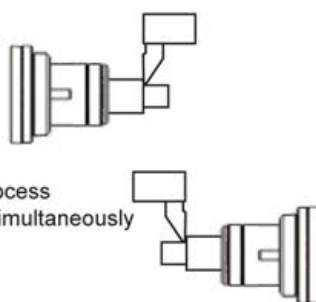
1/ Twin Spindle superimposed machining



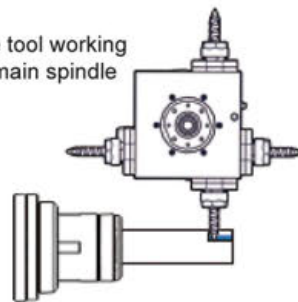
2/ Long work-piece machining



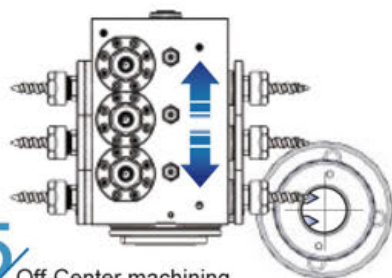
3/ Double Process Running Simultaneously



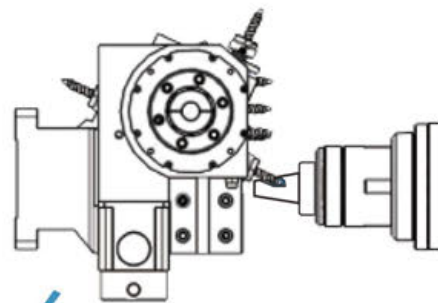
4/ Live tool working on main spindle



5/ Off-Center machining



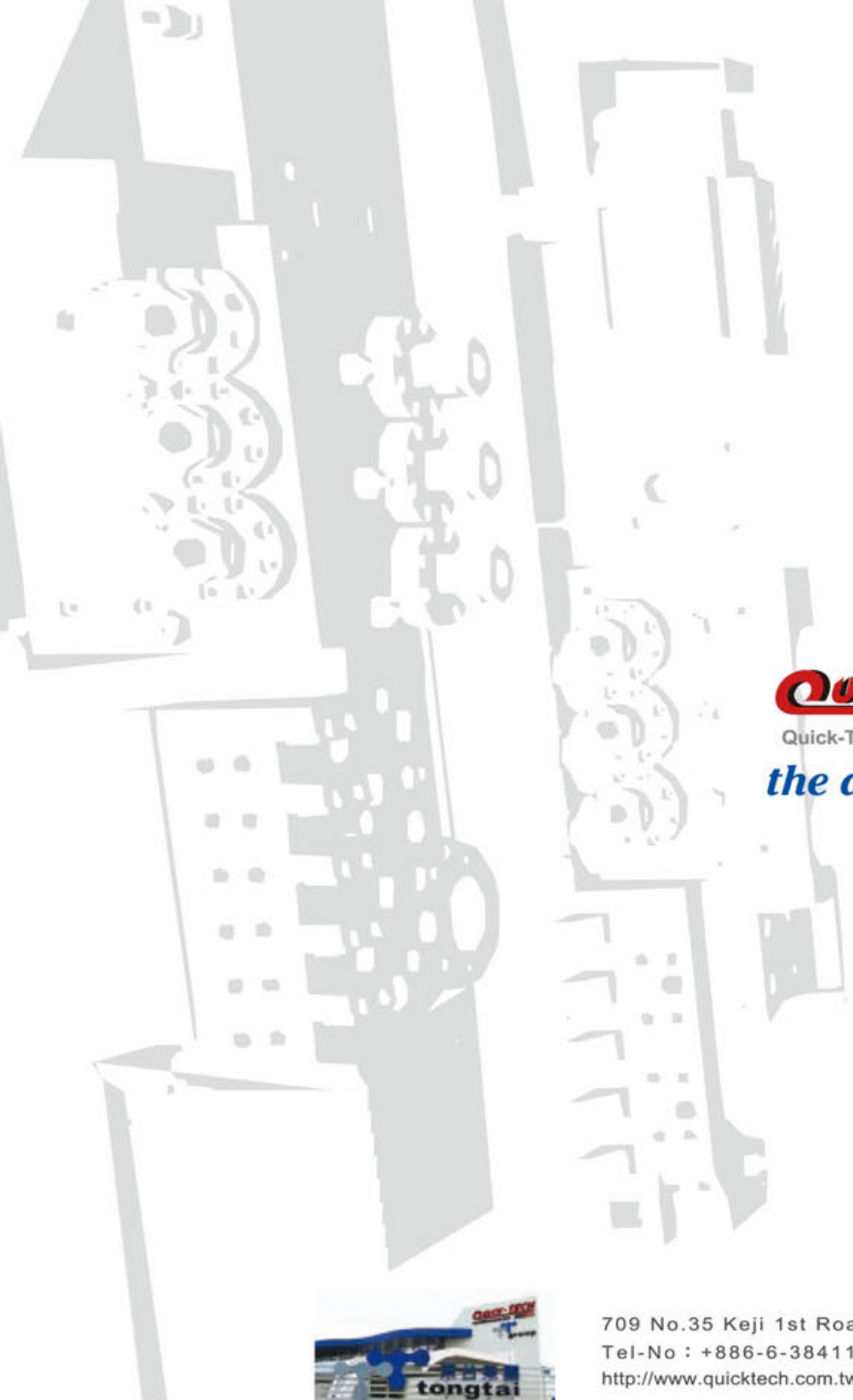
6/ Tapping or drilling by free Angle B axis on sub spindle



i-42 Ultimate Specification

CNC multi-tasking turning center with sub spindle & B axis

Mitsubishi Controller		M720
Spindle Capacity	Max. Bar Working Dia	42.0mm / 60.0mm (option)
	Spindle Max. Turning Length.	250.0mm
	Spindle Collet Chuck Type	KK5-173E42B / KK6-185E60B(option)
	Spindle Nose	ISO(DIN) A2-5 / A2-6
	Spindle Bore	42.0 / 62.0mm (option)
Sub-Spindle Capacity	Max. Bar Working Dia	42.0mm
	Max. Turning Length.	100.0mm
	Collet Chuck Type	KK5-173E42B
	Nose	ISO(DIN) A2-5
	Bore	30.0mm
C Axis	Speed Range	4000rpm / 6000rpm (option)
	Positioning Accuracy	0.001 °
Travel & Feed	X / Y / Z axis Travel	150.0 / 385.0 / 250.0mm
	X-1 / Y-1 / Z-1axis Travel	450.0 / 400.0 / 300.0mm
A.T.C System	OD / ID Tools Main Spindle (1st)	6 / 5
	OD / ID Tools Sub Spindle (2nd)	5 / 9
	Tool Shank Size	20.0mm
	Boring Bar (main)	ER-20 / 20.0mm
	Boring Bar (sub)	ER-20 / 20.0mm
Motorized Tool	Index Time	0.3sec(one) / 0.6(full)
	Number of motorized tools	First rack 12 tools / Second rack 12 tools
	B axis	360 °
	Speed	4000rpm(Max.)
	Size	ER-20
Mitsubishi Motor	Max. Drilling Dia.	12.0mm
	Max. Tapping capacity	M10xP1.5
	Main-spindle	AC Spindle 7.5kw / 11.0kw(option)
	Sub-spindle	AC Spindle 3.7kw
	X / Y / Z / X1 / Y1 / Z1 axis	AC Servo 1.5kw
Hydraulic System	Motorized Tool	AC Servo 1.5kw
	Hydraulic Motor / Tank Capacity	1HP / 75L
Lubrication	Max. Pressure	50kg / cm ²
	Lubricant Motor / Tank Capacity	25W / 2 Liter
Coolant System	Max. Pressure	15kg / cm ²
	Coolant Motor Type	motor : 2kw max.pressure : 5bar(4.6kg/cm ²) flow : 75L / min motor type : 4T5-5
	Hydraulic Motor Type	motor : 1.5kw max.pressure : 25bar(55kg/cm ²) flow : 30L / min motor type : 2HP+SF-30C
Machine Size	Coolant Tank Capacity	240L
	Length / Width / Height	3500(2900) / 1900 / 1900mm
	Weight	4200kg



QUICK-TECH

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the art of turning



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