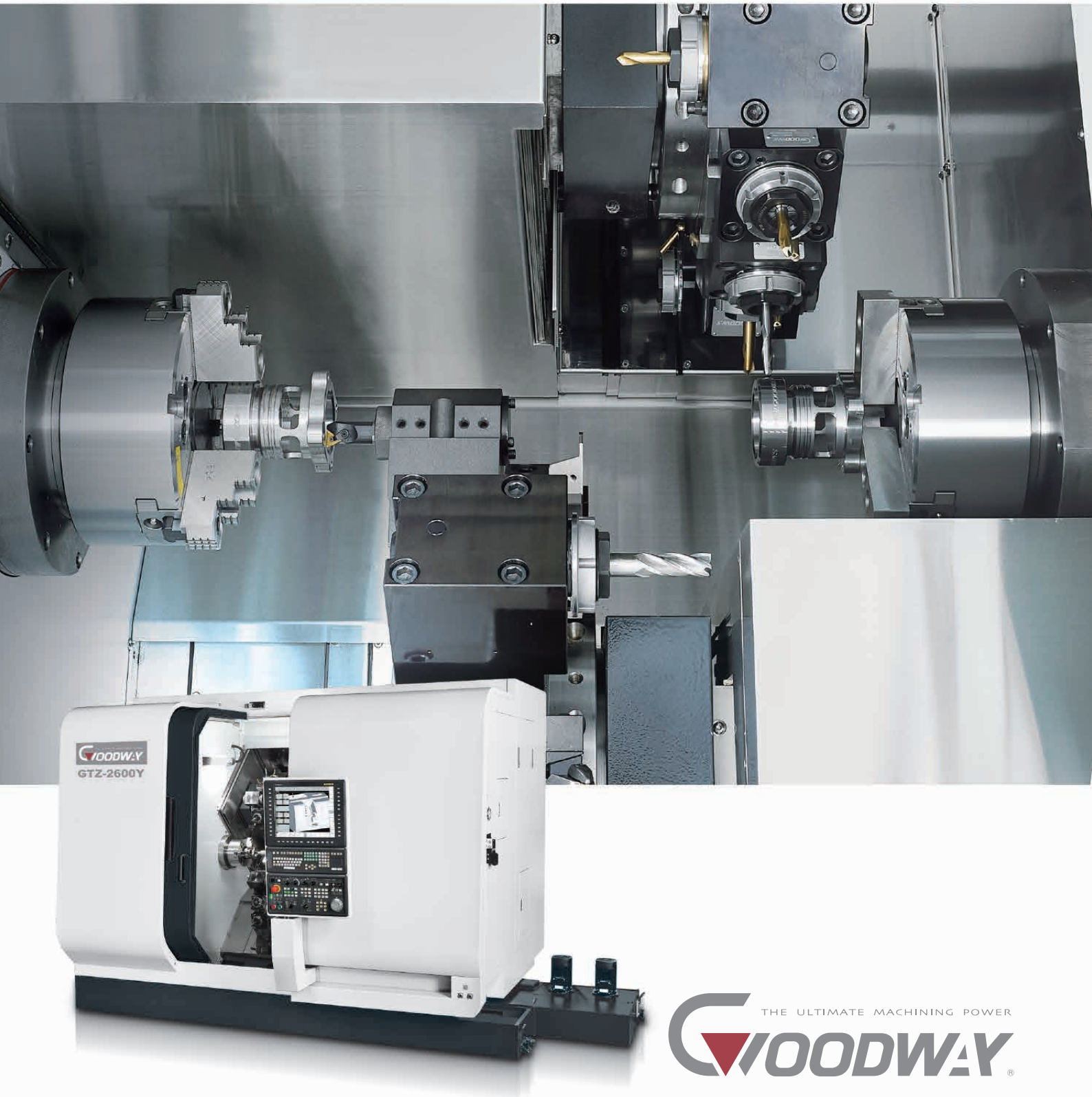


GTZ SERIES

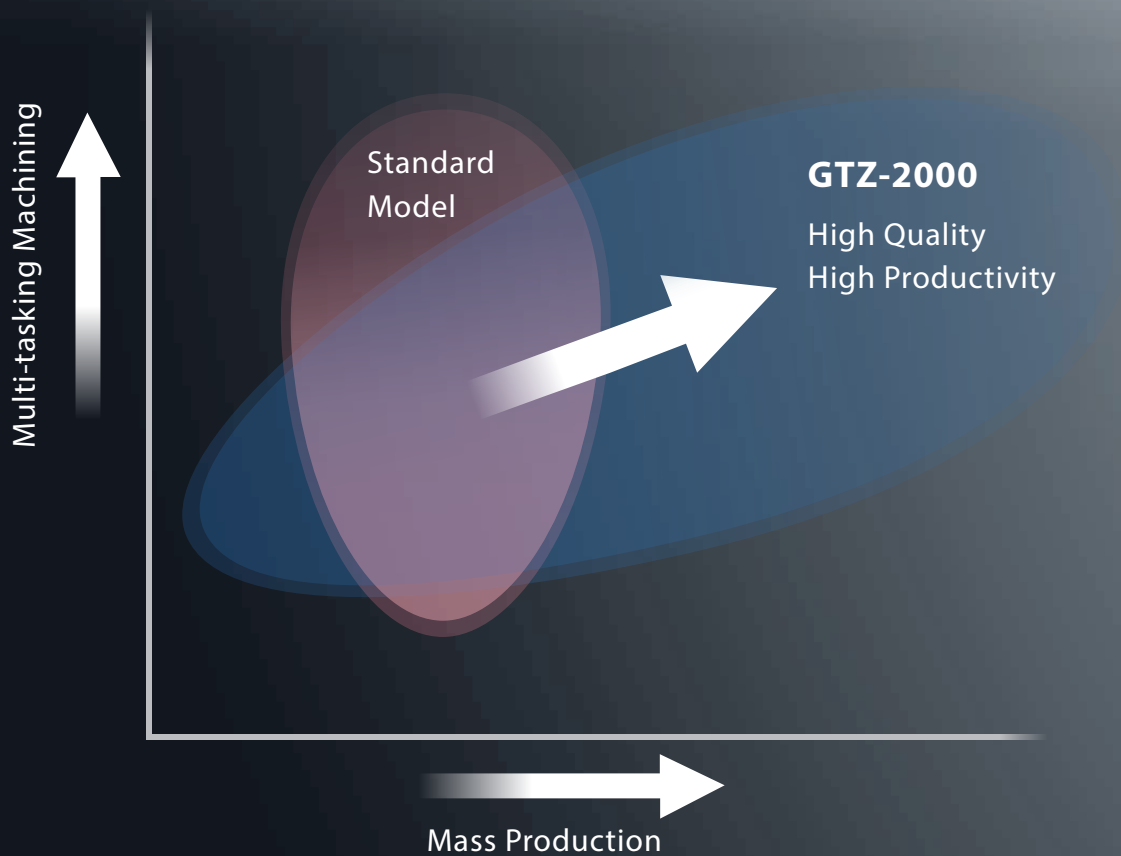
Multi-tasking Turning Centers



THE ULTIMATE MACHINING POWER
WOODWAY

Brand New Multi-Tasking Machining Technology

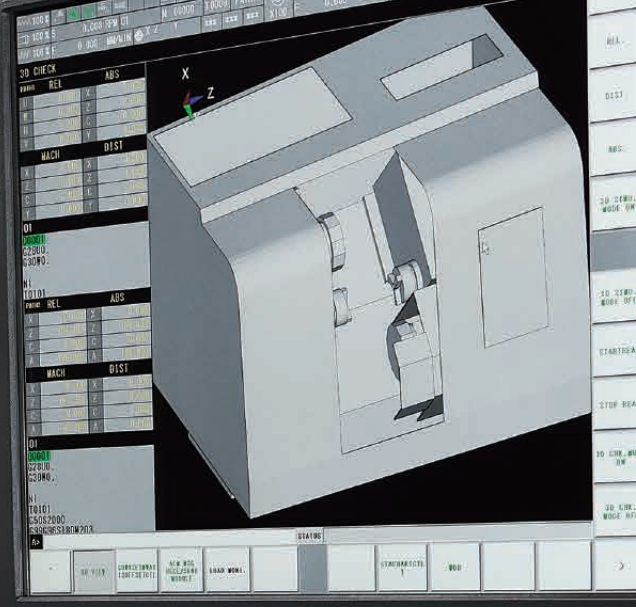
- New twin spindle and twin turret combination
- Upper and lower turret can be adjusted based on different machining requirements
- Production capacity is **1.5** times larger than average models





G-LINE 350

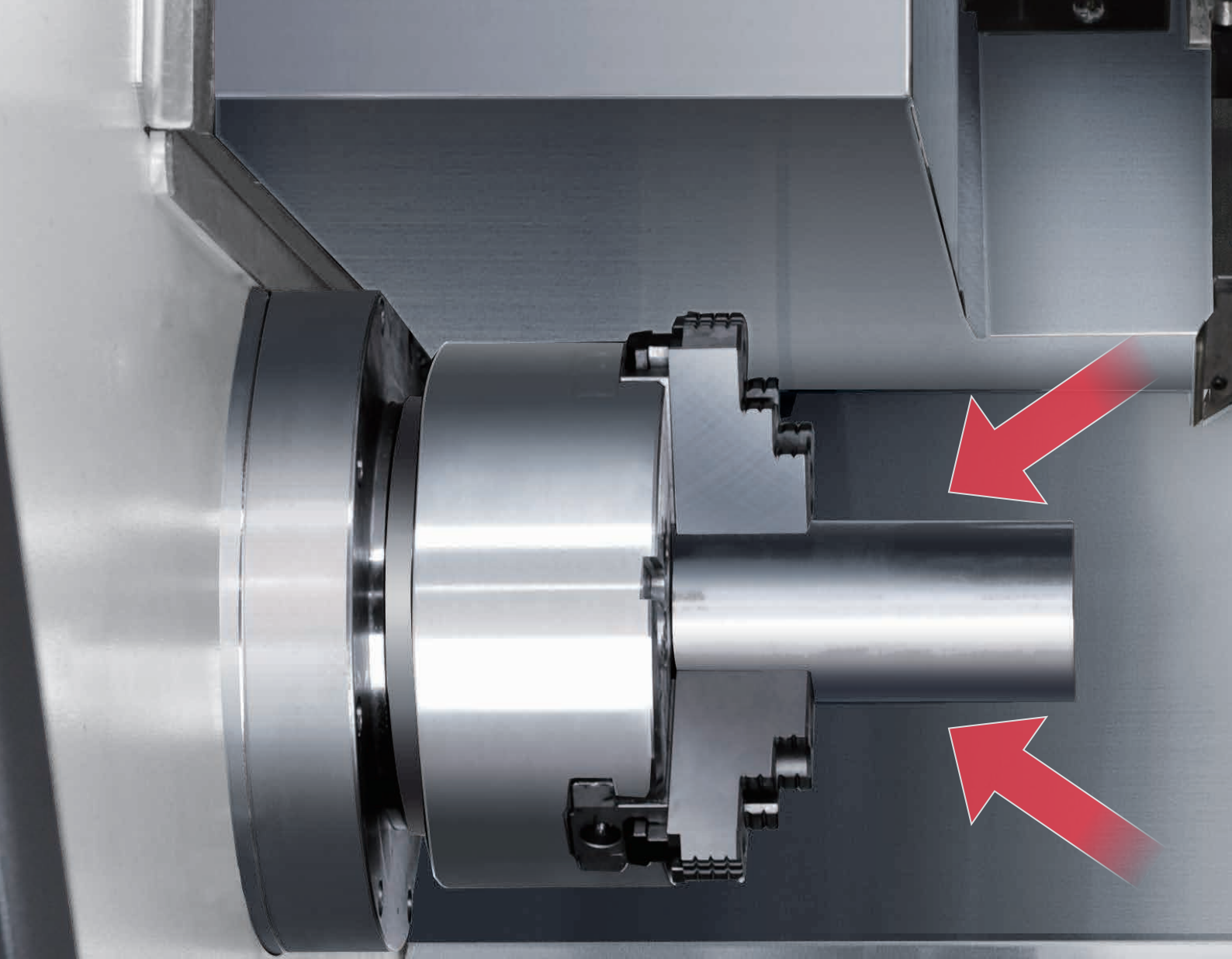
GOODWAY



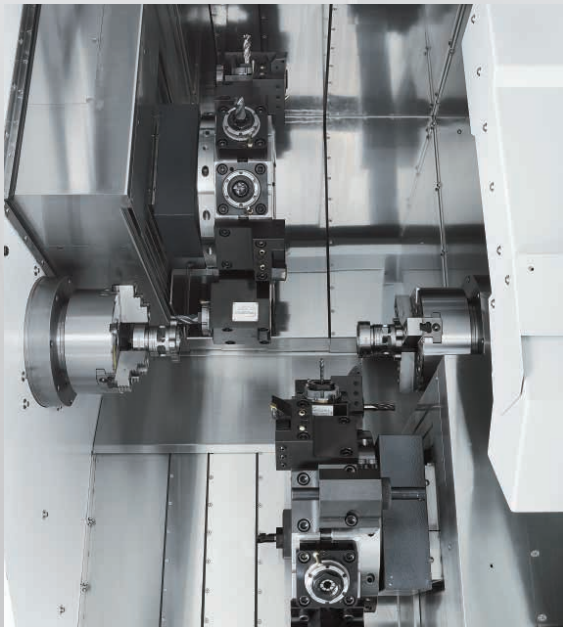
1 2 3 4 5 6 7 8 9 10 11 12

Q W E R T Y U I O P
A S D F G H J K L
Z X C V B N M

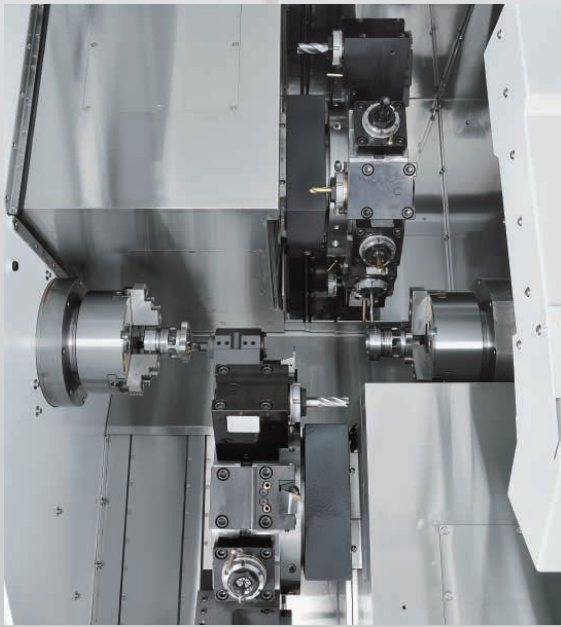
EMERGENCY STOP
SP. SPEED
TOOL NO. SELECT
MACHINE READY
EDIT KEY
F1 F2 F3 F4 F5
X Y Z C
+ -



► Upper turret working on left spindle
Lower turret working on right spindle

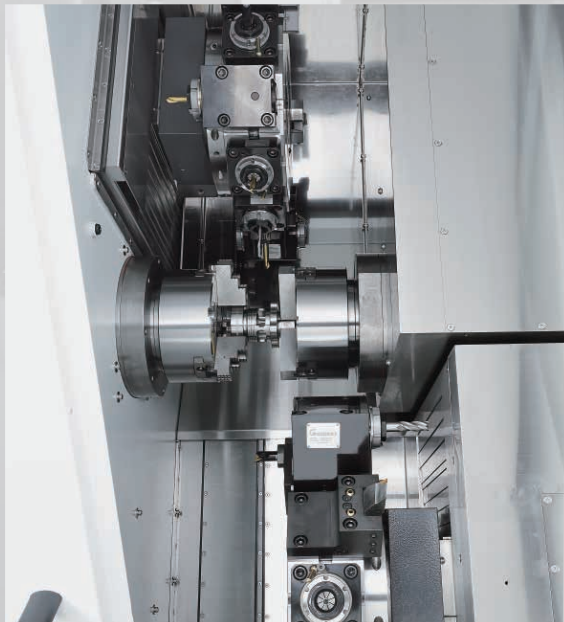


► Upper turret working on right spindle
Lower turret working on left spindle

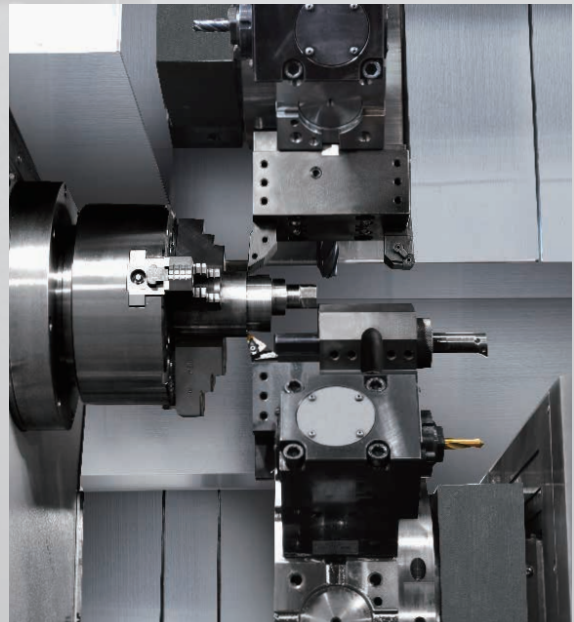


Flexible Machining Combinations

► Work-piece can be moved between both spindles



► Both turrets can work on the work-piece simultaneously



Super Rigidity Structure

The low center of gravity 45° slant bed design provide a super rigid foundation for the headstock and turret.

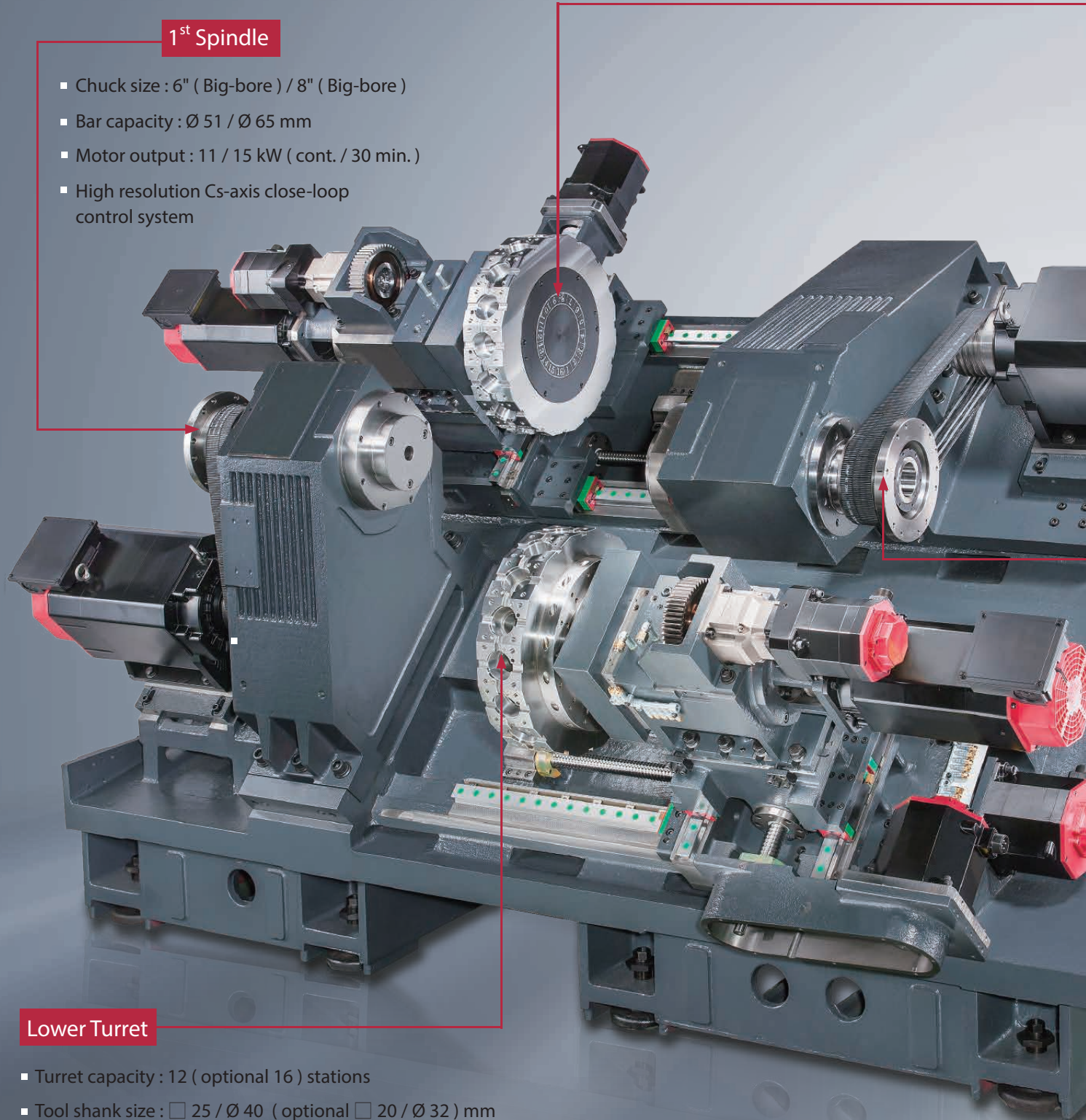
By using Finite Element Methods (FEM), optimal reinforced ribbings are directly cast into the one-piece bed structure.

1st Spindle

- Chuck size : 6" (Big-bore) / 8" (Big-bore)
- Bar capacity : Ø 51 / Ø 65 mm
- Motor output : 11 / 15 kW (cont. / 30 min.)
- High resolution Cs-axis close-loop control system

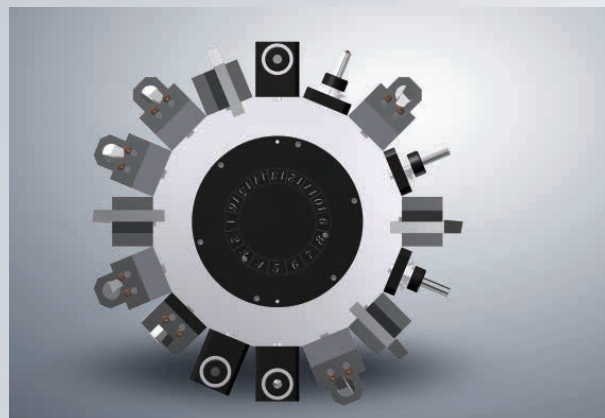
Lower Turret

- Turret capacity : 12 (optional 16) stations
- Tool shank size : □ 25 / Ø 40 (optional □ 20 / Ø 32) mm
- Live tooling shank size : ER32 (optional ER25)
- Live tooling output : 3.7 / 5.5 kW (cont. / 30 min.)
- Flexible turret combination can support twin spindle machining



Upper Turret

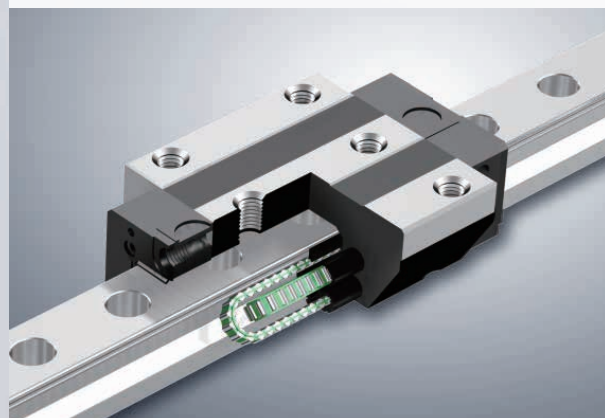
- Turret capacity : 12 (optional 16) stations
- Tool shank size : □ 25 / Ø 40 (optional □ 20 / Ø 32) mm
- Live tooling shank size : ER32 (optional ER25)
- Live tooling output : 3.7 / 5.5 kW (cont. / 30 min.)
- Flexible turret combination can support twin spindle machining



With the optional 16-station turret, maximum tool station capacity is up to 32 tools, which can easily fulfill various machining requirements.

2nd Spindle

- Chuck size : 6" (Big-bore) / 8" (Big-bore)
- Bar capacity : Ø 51 / Ø 65 mm
- Motor output : 11 / 15 kW (cont. / 30 min.)
- High resolution Cs-axis close-loop control system

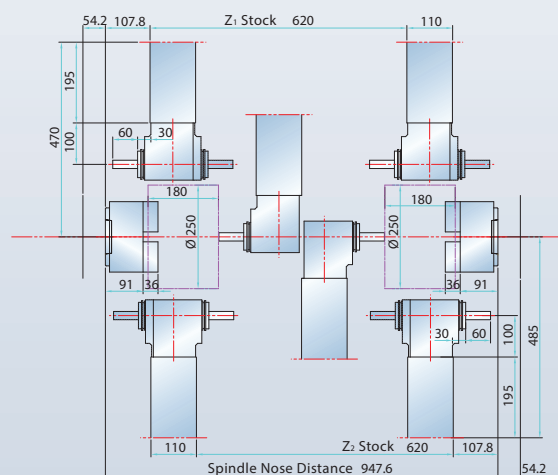
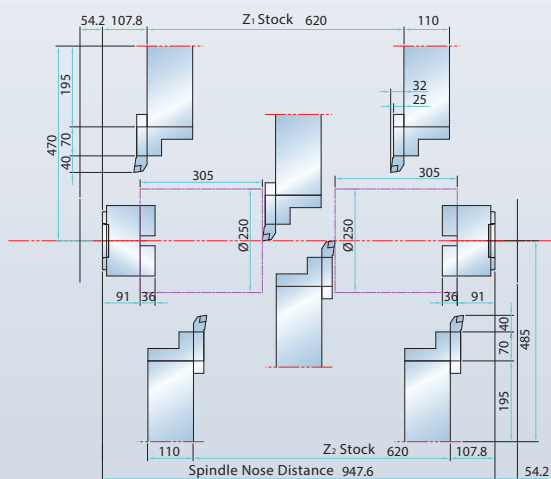
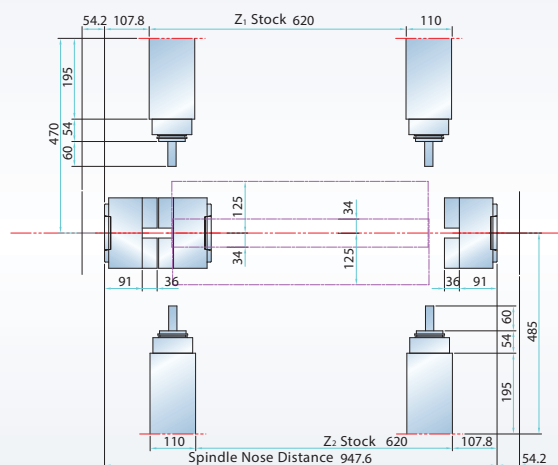
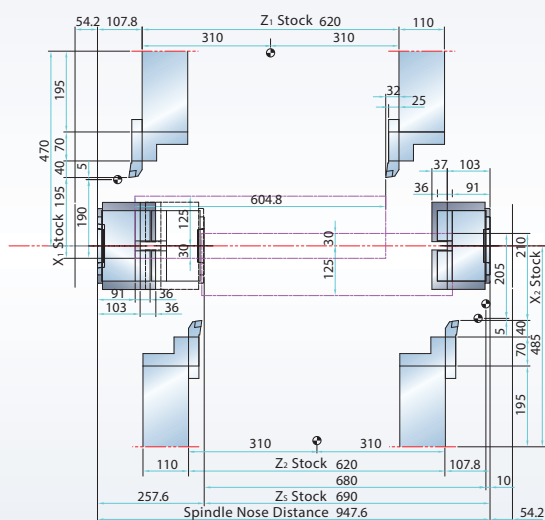
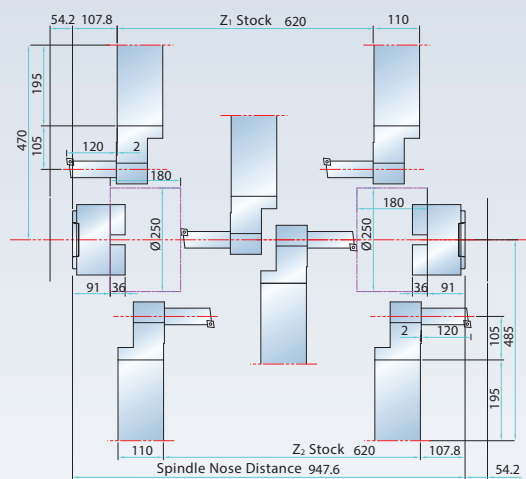


Roller type linear guide way provides rigidity for heavy cutting and speed for fast turning advantages.



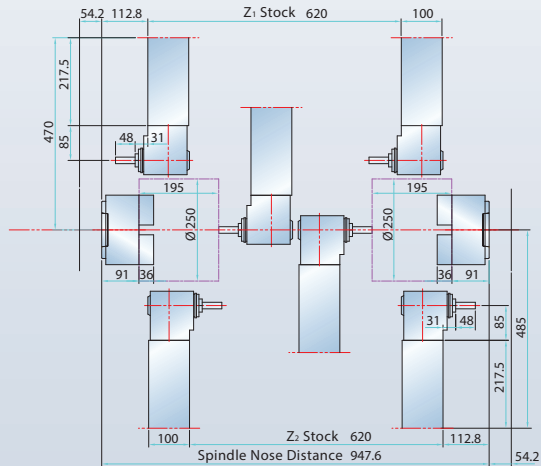
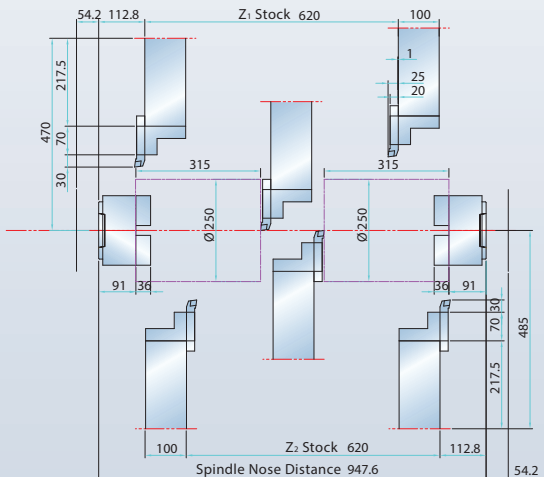
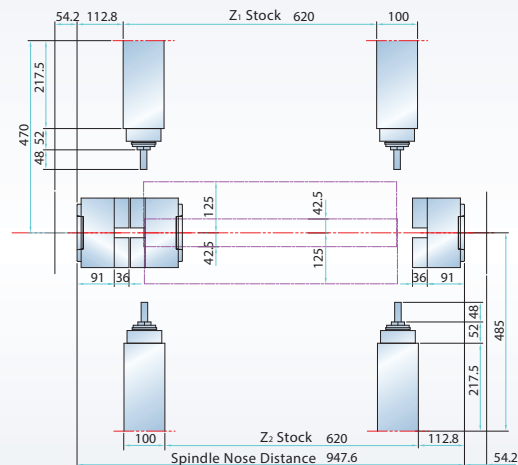
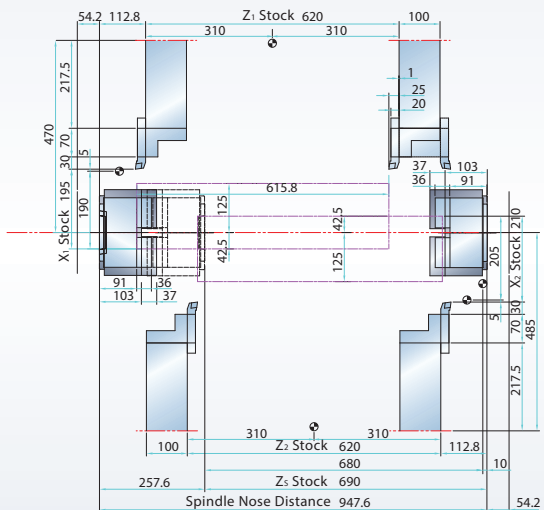
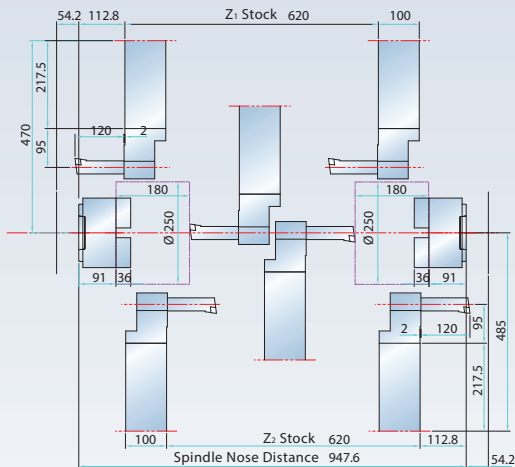
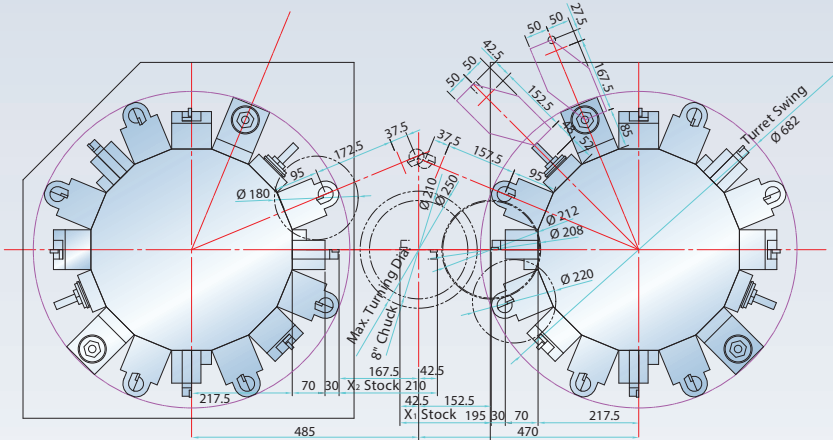
The optional high resolution close-loop linear scale ensure optimal positioning and repeatability accuracy.

12-Station Turret (For GTZ-2000)



(Unit : mm)

Optional 16-Station Turret (For GTZ-2000)



(Unit : mm)

MACHINE SPECIFICATIONS

CAPACITY	GTZ-2000	GTZ-2600
Max. swing diameter	Ø 270 mm	
Max. turning diameter	Ø 250 mm	
Max. turning length	604.8 / 615.8*1 mm	592.8 / 603.8*1 mm
Chuck size	6" (Big-bore)	8" (Big-bore)
Bar capacity	Ø 51 mm	Ø 65 mm
SPINDLE		
Hole through draw tube	Ø 52 mm	Ø 65.5 mm
Hole through spindle	Ø 66 mm	Ø 76 mm
Spindle bearing diameter	Ø 100 mm	Ø 120 mm
Hydraulic cylinder	8"	10"
Spindle nose	A2-5	A2-6
Spindle motor type	FANUC α P22 / 6000 <i>i</i> (AC / Wide- Range)	
Motor output (Cont.)	11 kW	
Motor output (30 min.)	15 kW	
Motor full output speed	750 rpm	
Spindle drive system	Direct Belt Drive	
Spindle drive ratio	4 : 5	2 : 3
Spindle speed range	48 ~ 4,800 rpm	40 ~ 4,000 rpm
Spindle full output speed	600 rpm	500 rpm
Spindle torque (Cont.)	175 N-m	210 N-m
Spindle torque (30 min.)	239 N-m	287 N-m
C-AXIS (OPTIONAL)		
Drive type	Cs	
C-axis rapids	400 rpm	
X / Z AXES		
Max. X ₁ / X ₂ axes travel	195 / 210 mm	
Max. Z ₁ / Z ₂ axes travel	620 / 620 mm	
Max. Zs axis travel	690 mm	
X / Z axes rapids	24 m/min.	
Slide way type	Linear Guide Way	
Feed rates	1~ 4,800 mm/min.	
X / Z axes servo moter	AC 3.0 kW	
X / Z axes thrust	961 kgf	
TURRET		
Station	12 + 12 [16 + 16 (Opt.)]	
Indexing drive	FANUC AC Servo motor	
Indexing speed	0.2 sec. Adjacnt / 0.5 sec. 180° degree (Single step)	
Accuracy	Positioning : ± 0.00069° Repeatability : ± 0.00027°	
O.D. tool shank size	☐ 25 mm (Opt. ☐ 20 mm)	
I.D. tool shank size	Ø 40 mm (Opt. Ø 32 mm)	

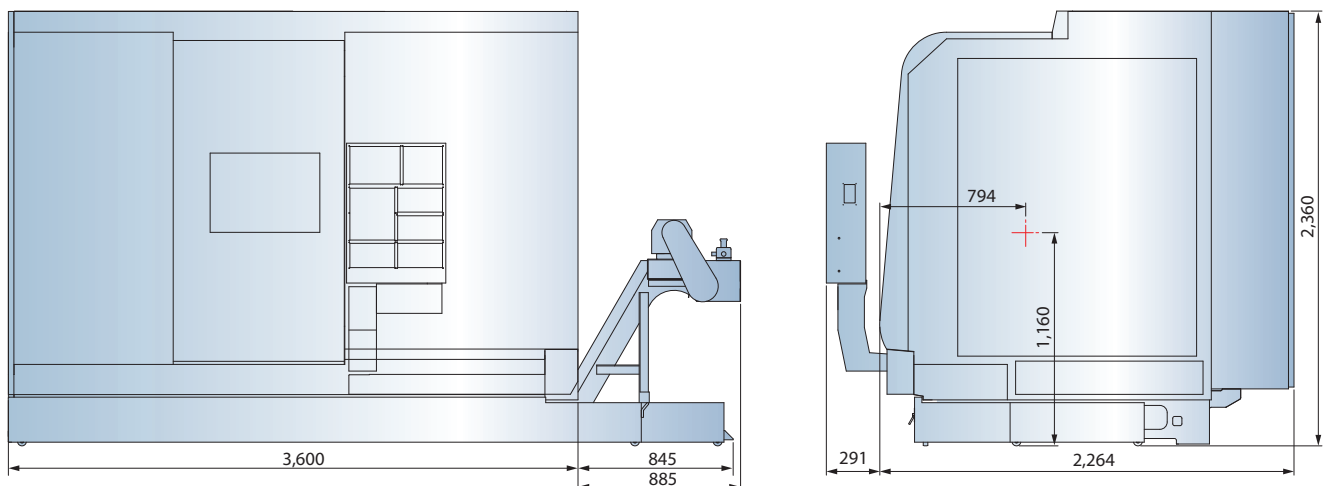
Specifications are subject to change without notice.

*1 For 16-station turret

LIVE TOOLING TURRET (OPTIONAL)	GTZ-2000	GTZ-2600
Stations / Live tooling stations	12 + 12 [16 + 16 (Opt.)]	
Indexing drive	FANUC AC Servo motor	
Index speed	0.2 sec. Adjacnt / 0.5 sec. 180° degree (Single step)	
Accuracy	Positioning : ± 0.00069° Repeatability : ± 0.00027°	
Live tooling drive motor	AC 3.7 / 5.5 kW	
Live tooling shank size	ER32 (Ø 20 mm) [ER25 (Ø 16 mm) Opt.]	
Live tooling RPM range	6,000 rpm	
Y -AXIS (OPTIONAL)		
Max. Y-axis travel	100 =± 50 mm	
Y-axis rapids	10 m/min.	
Slide way type	Linear Guide Way	
Feed rates	1~ 4,800 mm/min.	
Y-axis servo motor	AC 1.6 kW	
Y-axis thrust	640 kgf	
UNLOADING SYSTEM (OPTIONAL)		
Max. work-piece diameter	Ø 60 mm	
Max. work-piece length	150 mm	
Max. work-piece weight	3 kg	
GENERAL		
Positioning accuracy	± 0.005 mm	
Repeatability	± 0.003 mm	
CNC control	FANUC Oi - TF / FANUC 31i (Opt.)	
Voltage / Power requirement	AC 200 / 220 + 10 % to -15 % 3 Phase / 60 kVA	
Hydraulic tank capacity	35 L	
Coolant tank capacity	380 L	
Coolant pump	0.7 kW / 5 Bar	
Machine weight	9,000 kg	
Dimensions (L x W x H)	4,445 x 2,555 x 2,360 mm	

Specifications are subject to change without notice.

Machine Layout



Unit : mm



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GOODWAY MACHINE CORP.

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