

GTZ SERIES

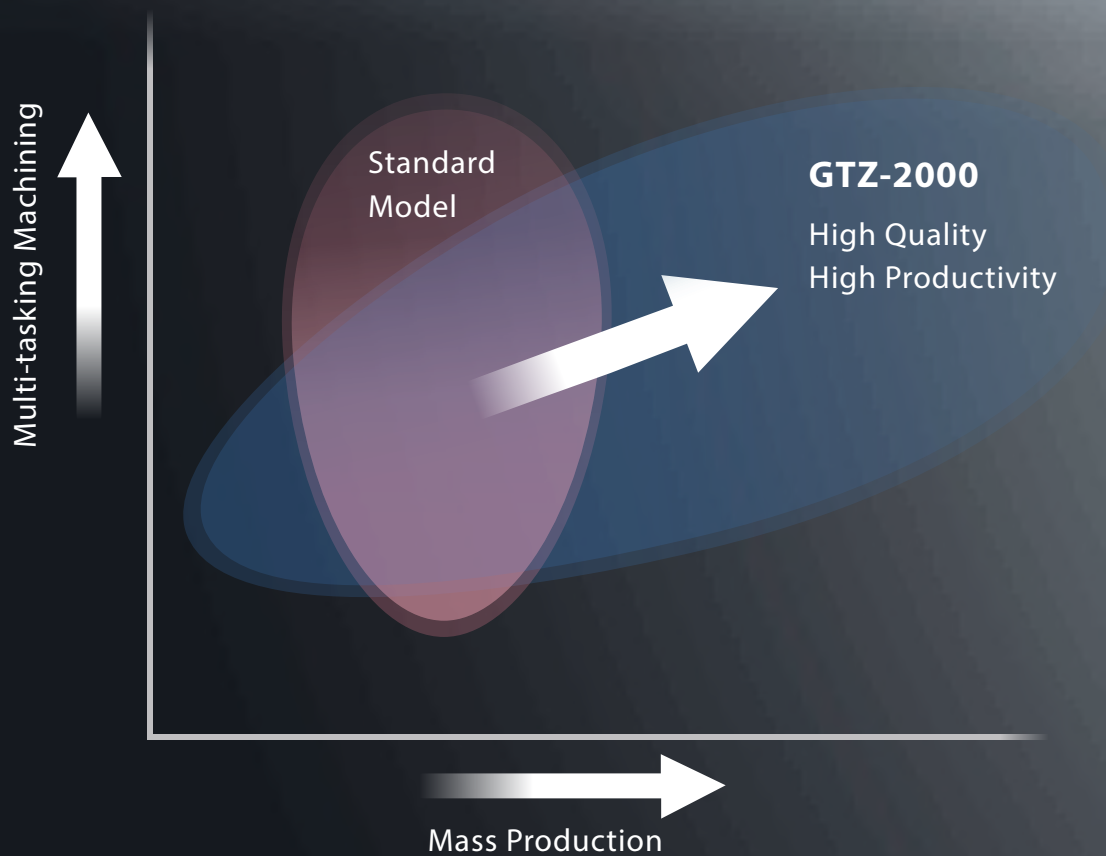
Multi-tasking Turning Centers



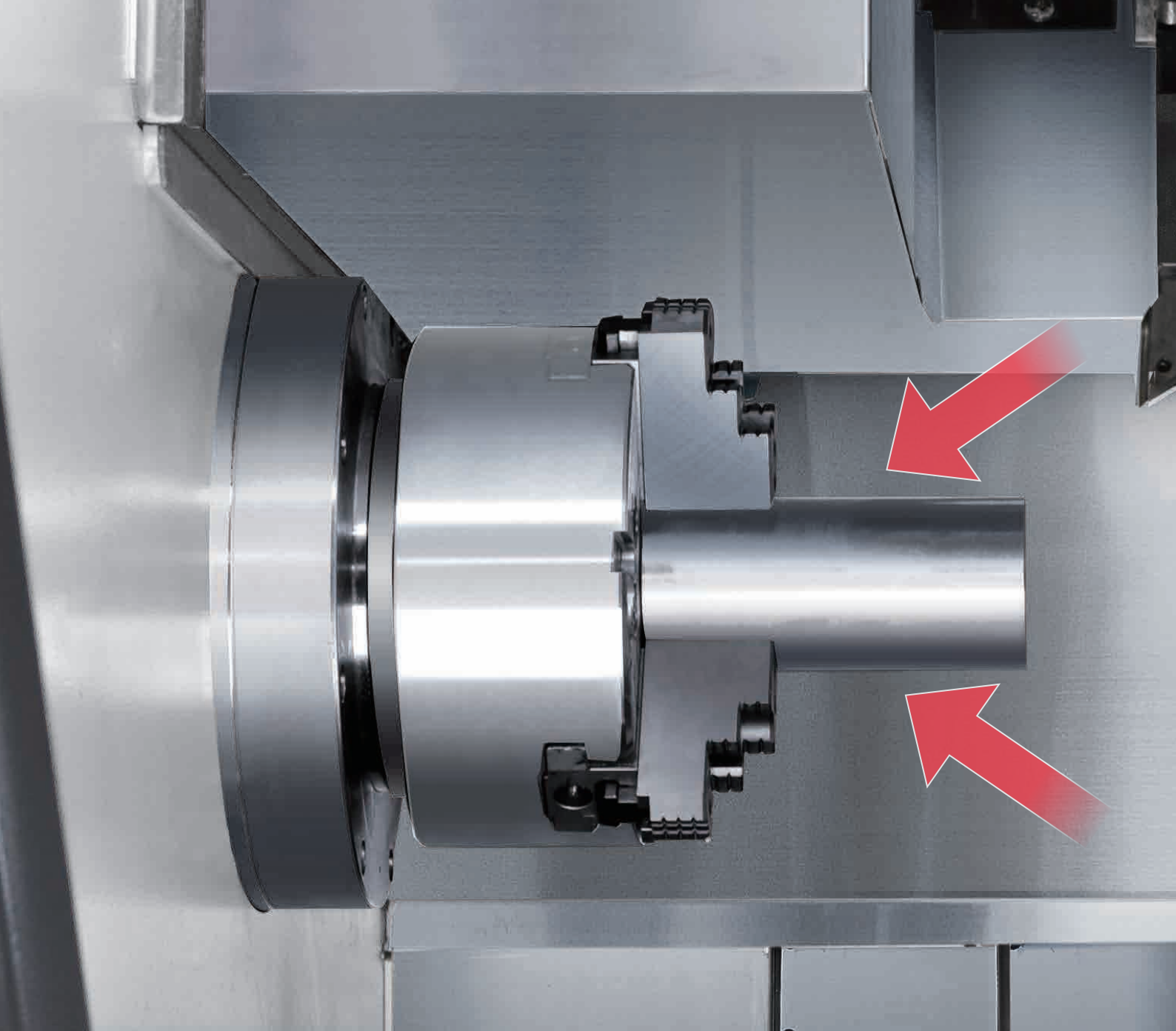
THE ULTIMATE MACHINING POWER
GOODWAY

BRAND NEW MULTI-TASKING MACHINING TECHNOLOGY

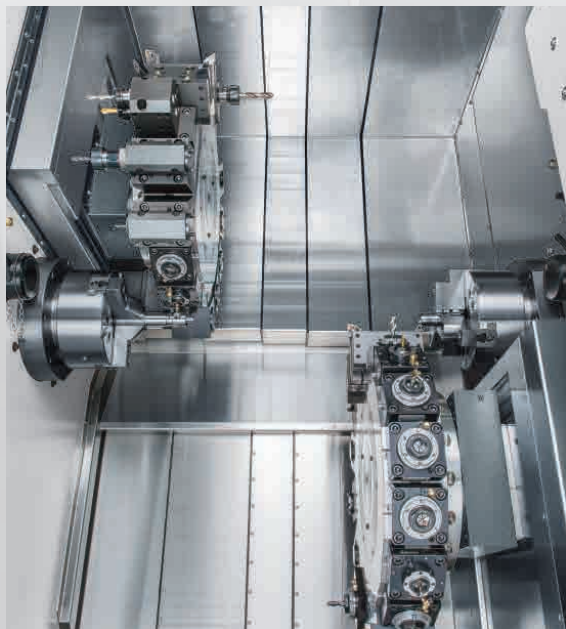
- New twin spindles and twin turrets combination
- Upper and lower turret can be adjusted based on different machining requirements
- Production capacity is **150 %** larger than average models



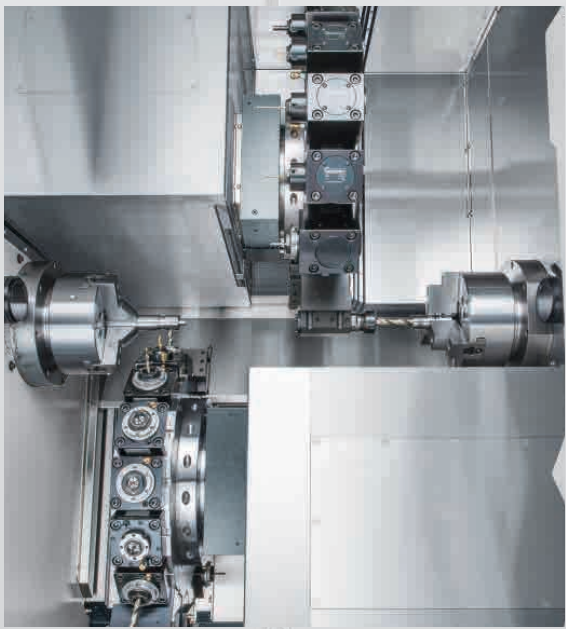




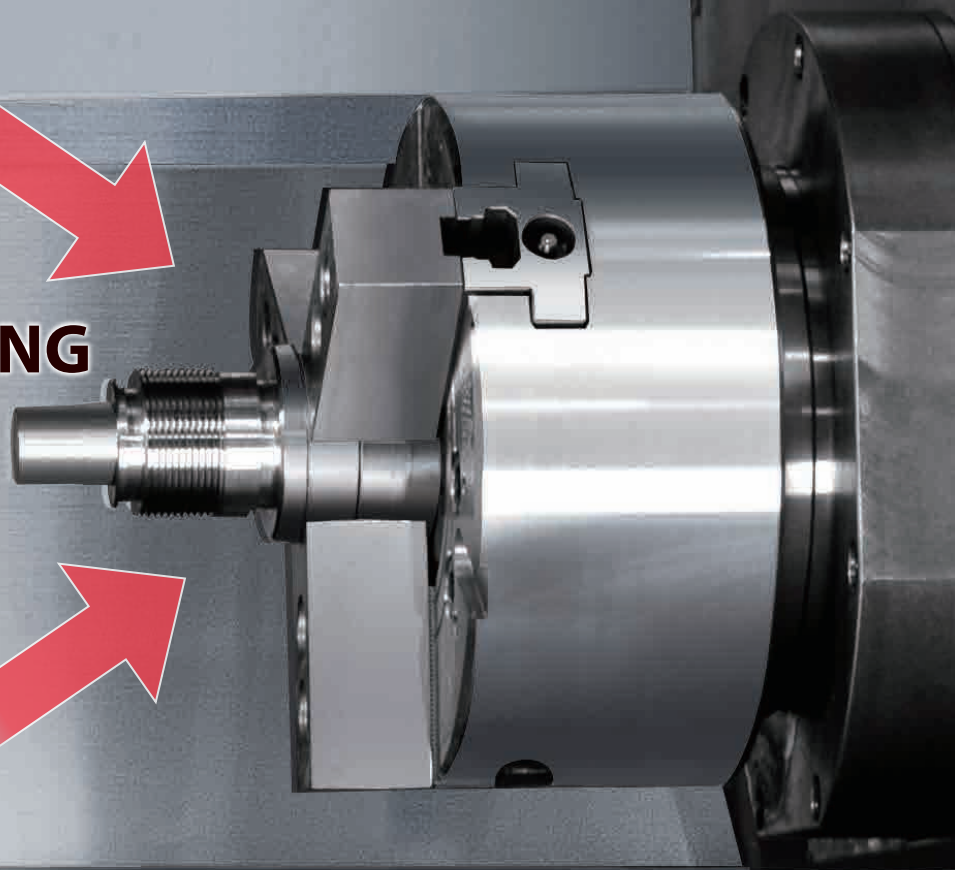
► Upper turret working on left spindle
Lower turret working on right spindle



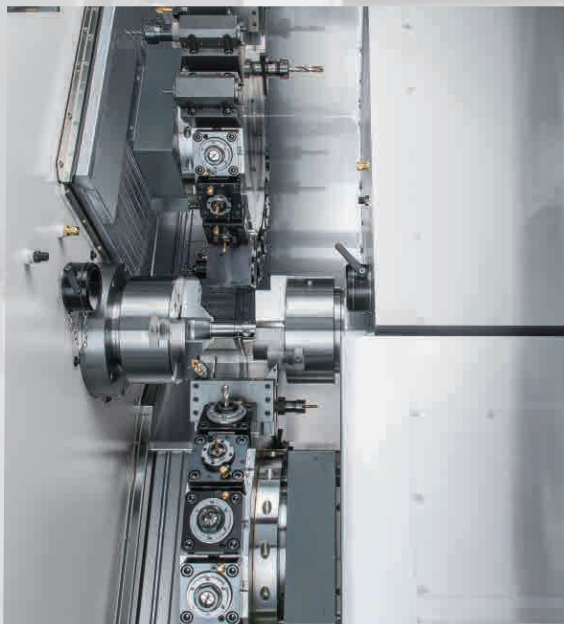
► Upper turret working on right spindle
Lower turret working on left spindle



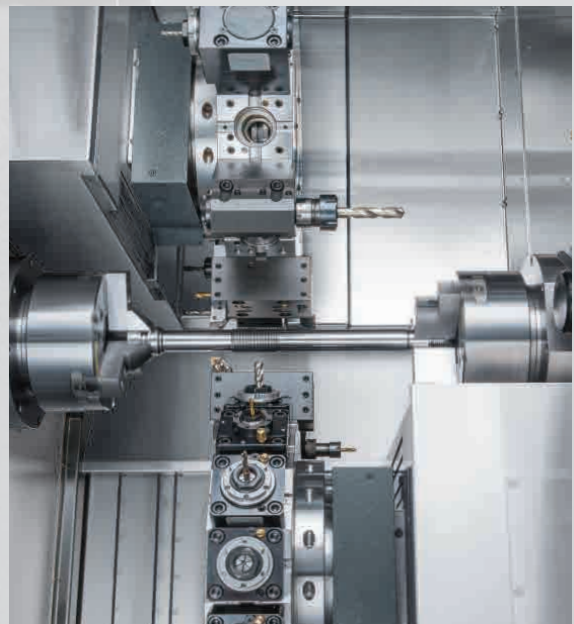
FLEXIBLE MACHINING COMBINATIONS



- ▶ Work-piece can be moved between both spindles



- ▶ Both turrets can work on the work-piece simultaneously



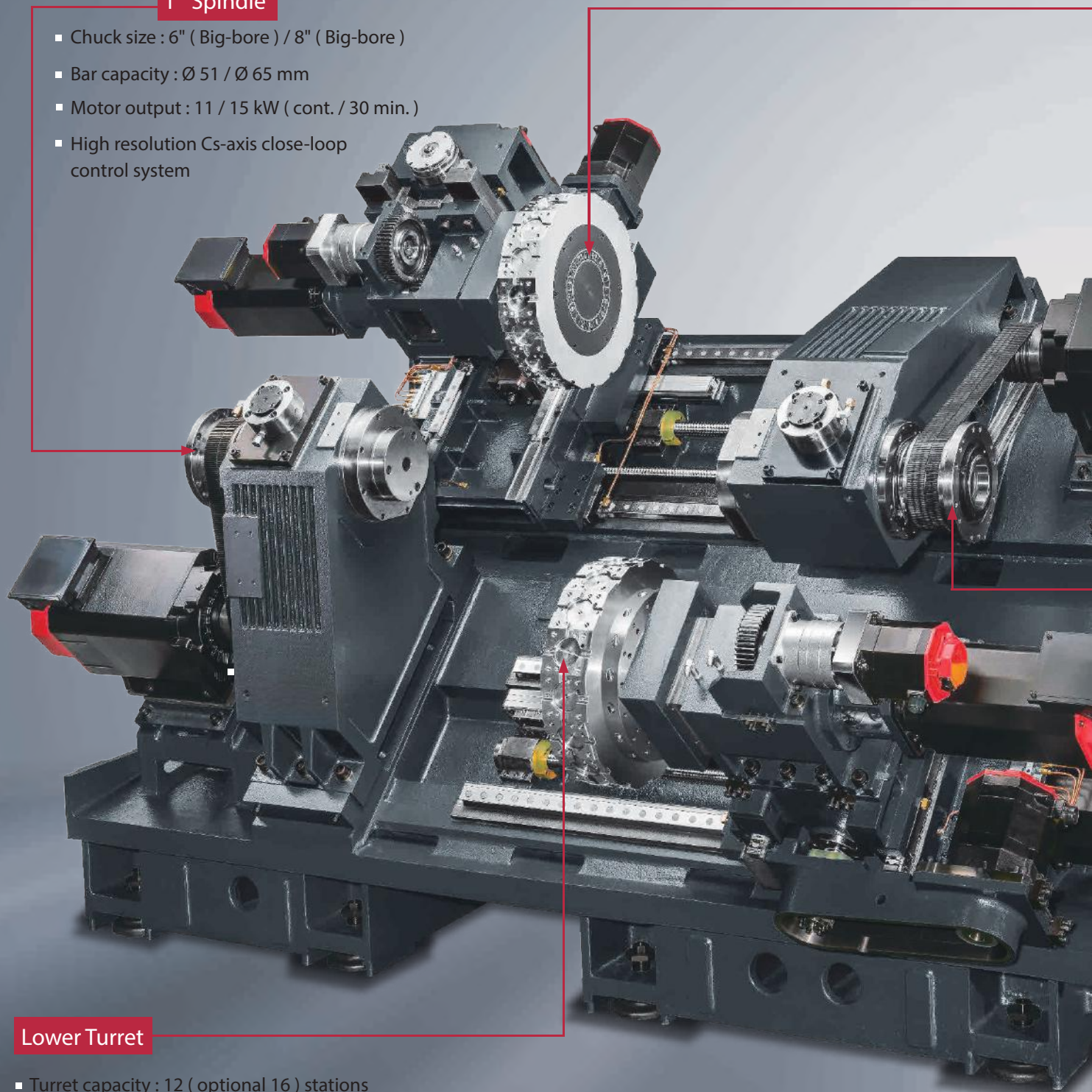
SUPER RIGIDITY STRUCTURE

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

By using Finite Element Analysis (FEA), optimal reinforced ribbings are directly cast into 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 spindles 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

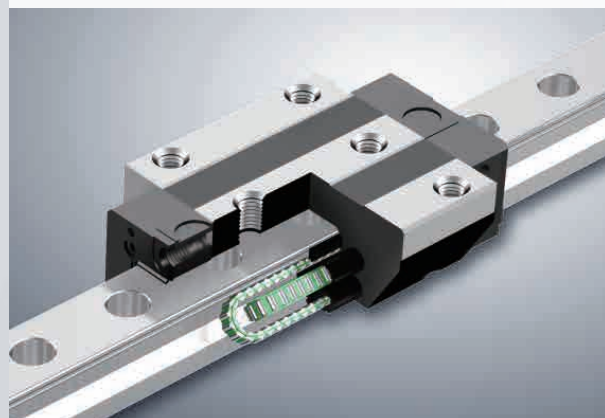


With the optional 16-station turret, maximum tool station capacity is up to 32 tools, which can easily fulfill various machining requirements.



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

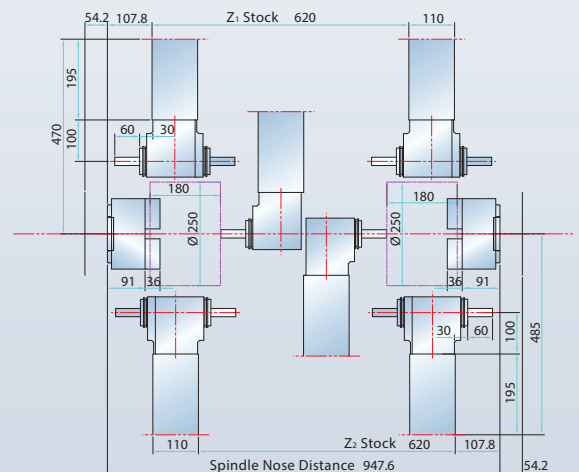
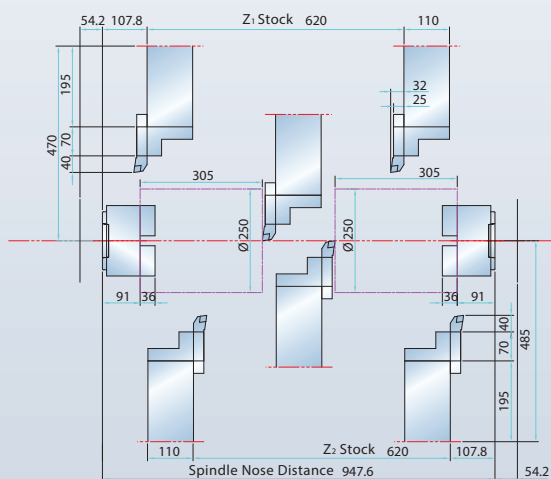
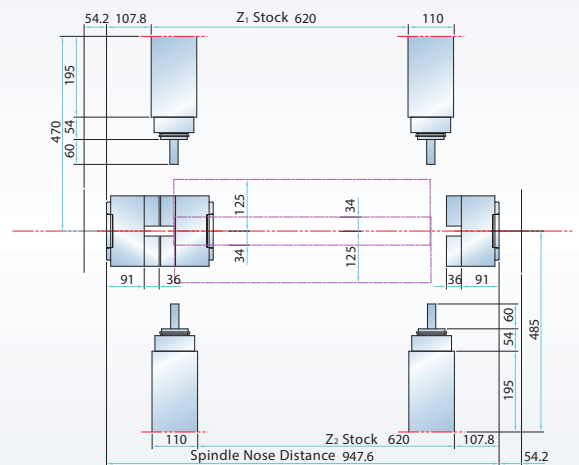
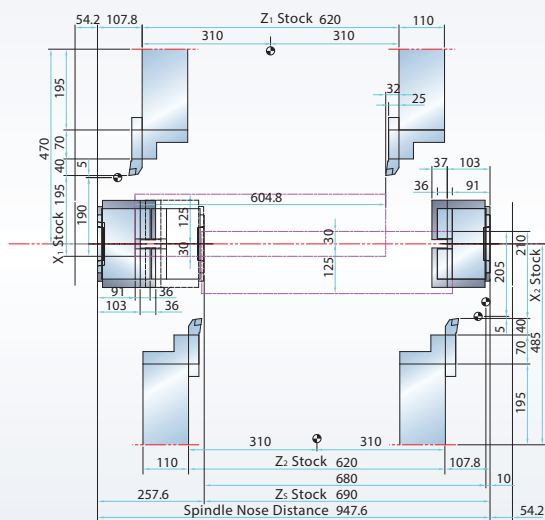
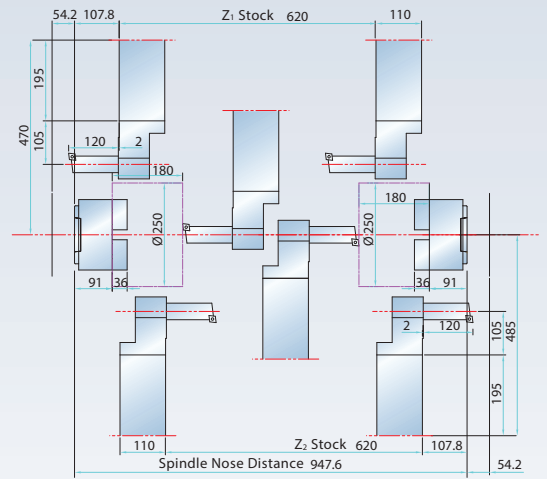


Roller type linear guide way provides rigidity for heavy cutting and speed for fast turning advantages.



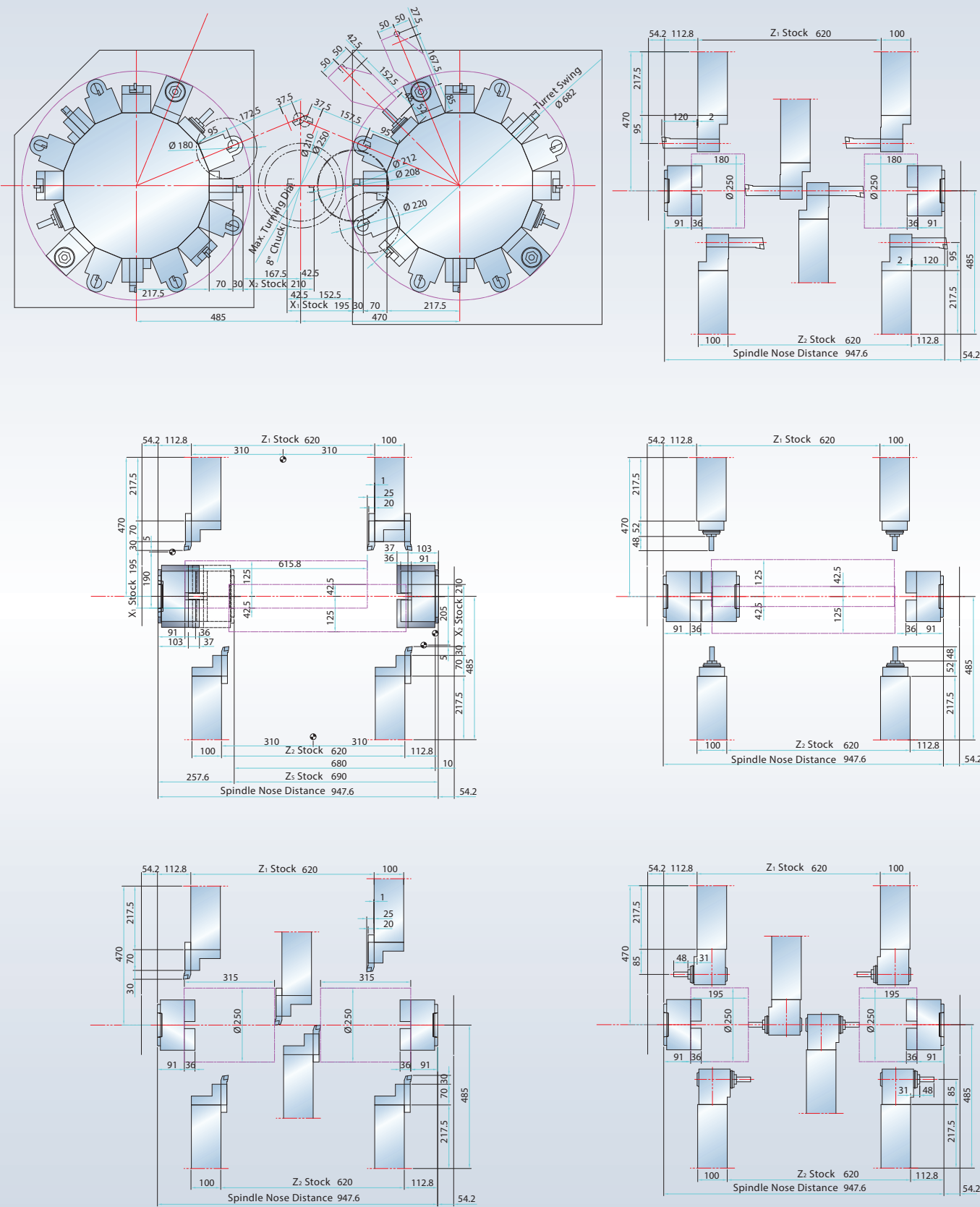
The optional high resolution close-loop linear scale ensure optimal positioning and repeatability accuracy.

12-Station Turret (For GTZ-2000)



(Unit : mm)

Optional 16-Station Turret (For GTZ-2000)



(Unit : mm)

MACHINE SPECIFICATIONS

■ : Metric ■ : Inch

CAPACITY	GTZ-2000	GTZ-2600
Max. swing diameter	Ø 270 mm 10.62"	
Max. turning diameter	Ø 250 mm 9.84"	
Max. turning length	604.8 / 615.8*1 mm 23.8" / 24.2"	592.8 / 603.8*1 mm 23.3" / 23.7"
Chuck size	6"	8"
Bar capacity	Ø 51 mm 2"	Ø 65 mm 2.55"
SPINDLE		
Hole through draw tube	Ø 52 mm 2.04"	Ø 65.5 mm 2.57"
Hole through spindle	Ø 66 mm 2.59"	Ø 76 mm 2.99"
Spindle bearing diameter	Ø 100 mm 3.93"	Ø 120 mm 4.72"
Hydraulic cylinder	8"	10"
Spindle nose	A2-5	A2-6
Spindle motor type	FANUC α P22 / 6000i (AC / Wide- Range)	
Motor output (Cont.)	11 kW 15 HP	
Motor output (30 min.)	15 kW 20 HP	
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 Nm 129 lb-ft	210 Nm 154 lb-ft
Spindle torque (30 min.)	239 Nm 176 lb-ft	287 Nm 211 lb-ft
C-AXIS (OPTIONAL)		
Drive type	Cs	
C-axis rapids	400 rpm	
Accuracy	± 0.002°	
X / Z AXES		
Max. X ₁ / X ₂ axes travel	195 / 210 mm 7.67" / 8.26"	
Max. Z ₁ / Z ₂ axes travel	620 / 620 mm 24.4" / 24.4"	
Max. Zs-axis travel	690 mm 27.1"	
X / Z axes rapids	24 m/min. 945 IPM	
Slide way type	Linear Guide Way	
Feed rates	1 ~ 4,800 mm/min. 1 ~ 189 IPM	
X / Z axes servo moter	AC 3.0 kW 4 HP	
X / Z axes thrust	960 kgf 2,100 lbf	
TURRET		
Station	12 + 12 [16 + 16 (Opt.)]	
Indexing drive	FANUC AC Servo motor	
Indexing speed	0.2 sec. Adjacent / 0.5 sec. 180° degree (Single step)	
Accuracy	Positioning : ± 0.00069° Repeatability : ± 0.00027°	
O.D. tool shank size	□ 25 mm 1" (Opt. □ 20 mm 3/4")	
I.D. tool shank size	Ø 40 mm 1-1/2" (Opt. Ø 32 mm 1-1/4")	

Specifications are subject to change without notice.

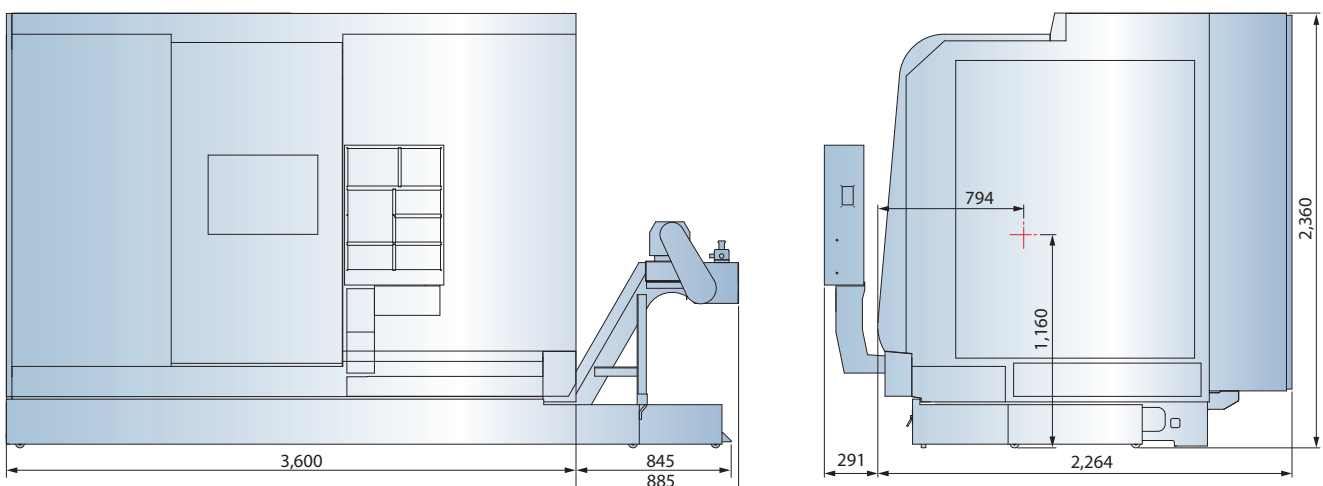
*1 For 16-station turret

■ : Metric ■ : Inch

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 5 / 7.3 HP	
Live tooling shank size	ER32 (Ø 20 mm 3/4") [ER25 (Ø 16 mm 5/8") Opt.]	
Live tooling RPM range	6,000 rpm	
Y -AXIS (OPTIONAL)		
Max. Y-axis travel	100 = ± 50 mm 3.93" = ± 1.96"	
Y-axis rapids	10 m/min. 394 IPM	
Slide way type	Linear Guide Way	
Feed rates	1~ 4,800 mm/min. 1 ~ 189 IPM	
Y-axis servo motor	AC 1.6 kW 2 HP	
Y-axis thrust	640 kgf 1,410 lbf	
UNLOADING SYSTEM (OPTIONAL)		
Max. work-piece diameter	Ø 60 mm Ø 2.36"	
Max. work-piece length	150 mm 5.9"	
Max. work-piece weight	3 kg 6.6 lb	
GENERAL		
Positioning accuracy	± 0.005 mm ± 0.00019"	
Repeatability	± 0.003 mm ± 0.00011"	
NC controller	FANUC Oi - TF / FANUC 31i (Opt.)	
Voltage / Power requirement	AC 200 / 220 + 10 % to -15 % 3 Phase / 60 kVA	
Hydraulic tank capacity	35 L 9.2 gal	
Coolant tank capacity	380 L 100 gal	
Coolant pump	0.7 kW 1 HP / 5 Bar	
Machine weight	9,000 kg 19,900 lb	
Dimensions (L x W x H)	4,445 x 2,555 x 2,360 mm 176" x 101" x 93"	

Specifications are subject to change without notice.

Machine Layout



Unit : mm



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GOODWAY MACHINE CORP.

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