



GMS-2000 Series

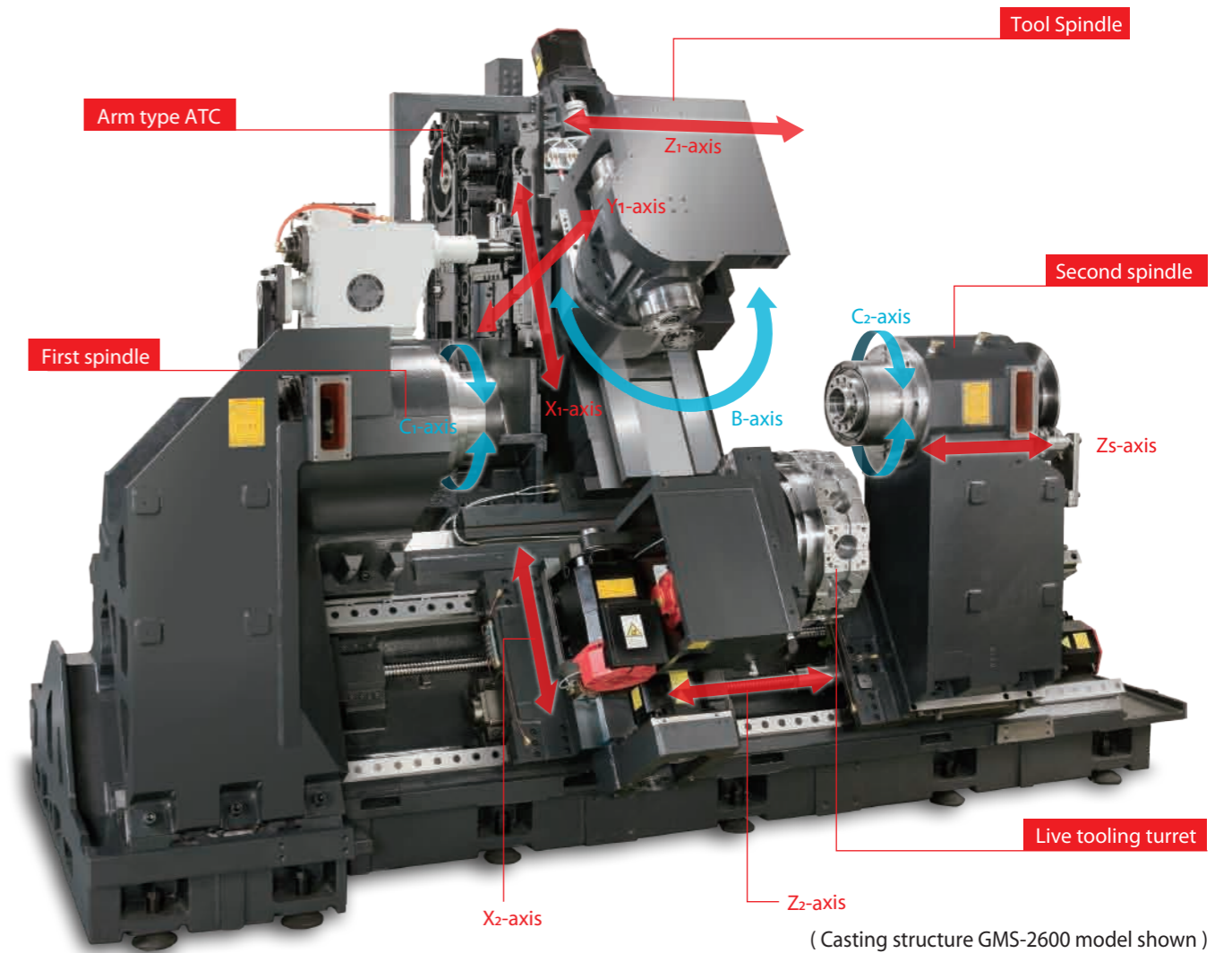


MULTI-AXIS TURNING CENTERS

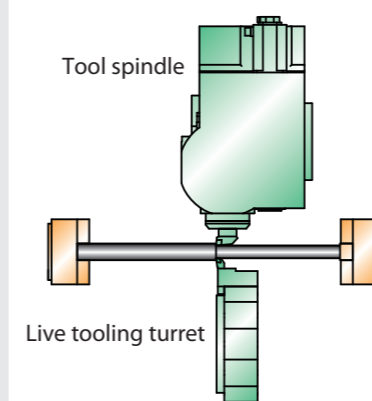
- Spindle motor : Fancu Bil170S / 6,000
- Bed type : 60° slant bed
- Slide way type : Box way (Z₂ & Z_s : Linear way)
- B-axis : (Std.) ; Live tooling turret (Opt.)
- ATC : Arm Type
- NC Control : Fancu 310i - A5

GMS-2000 Series

With 30 Years of experience in the manufacture of lathes Goodway are pleased to introduce our GMS-2600ST Multi-tasking Turning Center which combined Machining Centre High Speed Spindle and ATC system. The 5-axis coordinated motion helps this machine do many difficult jobs such as tapping, milling, drilling, incline machining, contour machining etc.... One Hit Manufacturing can be achieved.



Excellent Machining Mode



High precision balance machining

Simultaneous turning on both spindles which can achieve the best cutting condition and increase the machining accuracy of longer work pieces.

High efficient simultaneous turning

The advanced double turret and double spindles construction. With one of the turrets cutting a workpiece in one spindle, the other turret can be machining at the same time. Simultaneous turning just like 2 machines working at the same time.

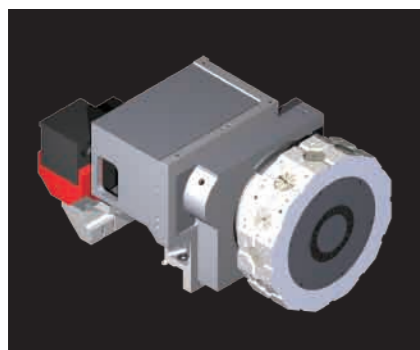
Advanced Construction Design



High Precision B axis construction

Driven by worm gear and located by a 3 pieces curvic couplings enables the head to achieve high positioning and high accuracy.

- Indexing positioning : 5° (curvic coupling)
- Positioning accuracy : 0.001°



Maximum performance spindle belt driven turret

Large 250mm dia. curvic coupling with high rigidity.

- Tool Square : □ 25 mm ; Tool Round : Ø 40 mm
- Live tooling : ER 40



High precision built-in spindle

Main and sub-spindle are using high rigidity cylindrical roller bearing. The rigidity is much better than angular contact bearings. Especially good for heavy cutting. Main spindle equipped high speed built-in spindle motor which eliminates power lose or slip because of V-belt. The C axis is using high resolution magnetic encoder.

High rigidity roller linear guide ways are used for the movement of the 2nd spindle and 2nd turret.

By the orthogonal design, Y-axis has lower friction during movement

The box way design provides the rigidity needed for interrupted turning application.

The bed design enables the center of gravity to be lower than in beds of 30° and 45° designs.

The machining area with 60° bed. incline improves chip disposal.

- X-axis Span : 300 mm
- Y-axis Span : 500 mm
- Z-axis Span : 600 mm

Models	GMS-2600ST	GMS-2800ST
Max. swing diameter	Ø 900 mm	
Swing over saddle	Ø 700 mm	
Distance between spindle nose	1,302 mm	
Height of Spindle center	1,190 mm	
Max. turning diameter	Tool spindle : Ø 550 (KM63) turret : Ø 340 mm	
Max. turning length	1,066 mm	
FIRST & SECOND SPINDLE		
Chuck size	8"	10"
Max. spindle speed	5,000 rpm	4,000 rpm
Spindle nose	A2-6	
Bar capacity	Ø 52 mm	Ø 65 mm
Hole through spindle	Ø 61 mm	Ø 76 mm
Speed range	High torque spindle motor	
Spindle motor type	Bil170S / 6,000	
Spindle motor output	11 / 15 [22 / 25] Kw	
Spindle motor torque	157 / 223 [131 / 149] N-m	
FEED AXIS		
Max. X1-axis travel	600 (+5 @ -575 , -20) mm	
Y1-axis travel	±80 mm	
Z1-axis travel	1,100 (+550 @ -550) mm	
B-axis travel	±120°	
X2-axis travel	200 (+5 @ -165 , -30) mm	
Z2-axis travel	960 (+480 @ -480) mm	
Zs-axis / tailstock travel	1,060 (+10 @ -1050) mm	
X1 & Z1 & Z2 & Zs axes rapids	24 m/min.	
Y-axis rapids	16 m/min.	
B-axis rapids	27 rpm	
X2-axis rapids	20 m/min.	
X1 & Y & Z1 axes thrust	1,410 Kgf	
X2 & Z2 & Zs axes thrust	768 Kgf	
Slide way type	Box way (Linear way : Z2 & Zs axes)	
TOOL SPINDLE		
Min. indexing of B-axis	0.001°	
Max. spindle speed	10,000 rpm (12,000 rpm Opt.)	
Machining capacity	Face mill : Ø 80 End mill : Ø 20 Drill : 37 Tap : M27 mm	
Tool spindle taper	KM63	
Tool spindle motor output	11 / 15 / 18.5 / 22 Kw	
Magazine capacity	24	
Max. tool diameter(adj.)	Ø 100 (Ø 150) mm	
Max. tool length / weight	300 mm / 7 Kg	
Shank of tool	□ 25 ; Ø 40 mm	
TURRET		
Stations	12	
Shank of tool	□ 25 ; Ø 40 mm	
index speed (Adjacent)	0.2 sec.	
Live tooling stations	12	
Live tooling shank size	ER 40	
Max. tooling speed	6,000 rpm	
TAILSTOCK		
Quill diameter	Ø 110 mm	
Quill type	MT#4 (Dead center) ; MT#5 (Live center)	
GENERAL		
Hydraulic / Lubrication capacity	14 / 6 L	
Coolant tank capacity	350 L	
Dimensions (L × W × H)	4,000 × 2,500 × 2,650 mm	
Machine Weight	13,000 Kg	

Specifications are subject to change without notice.