

WTS

Twin Spindle & Twin Turret E Axis



WTS Turning & Milling Center

This new machine with streamline shape is designed to enhance operational performance.



MORE INFORMATION

 **Machinery**
CHIAH CHYUN

MACHINE FEATURES

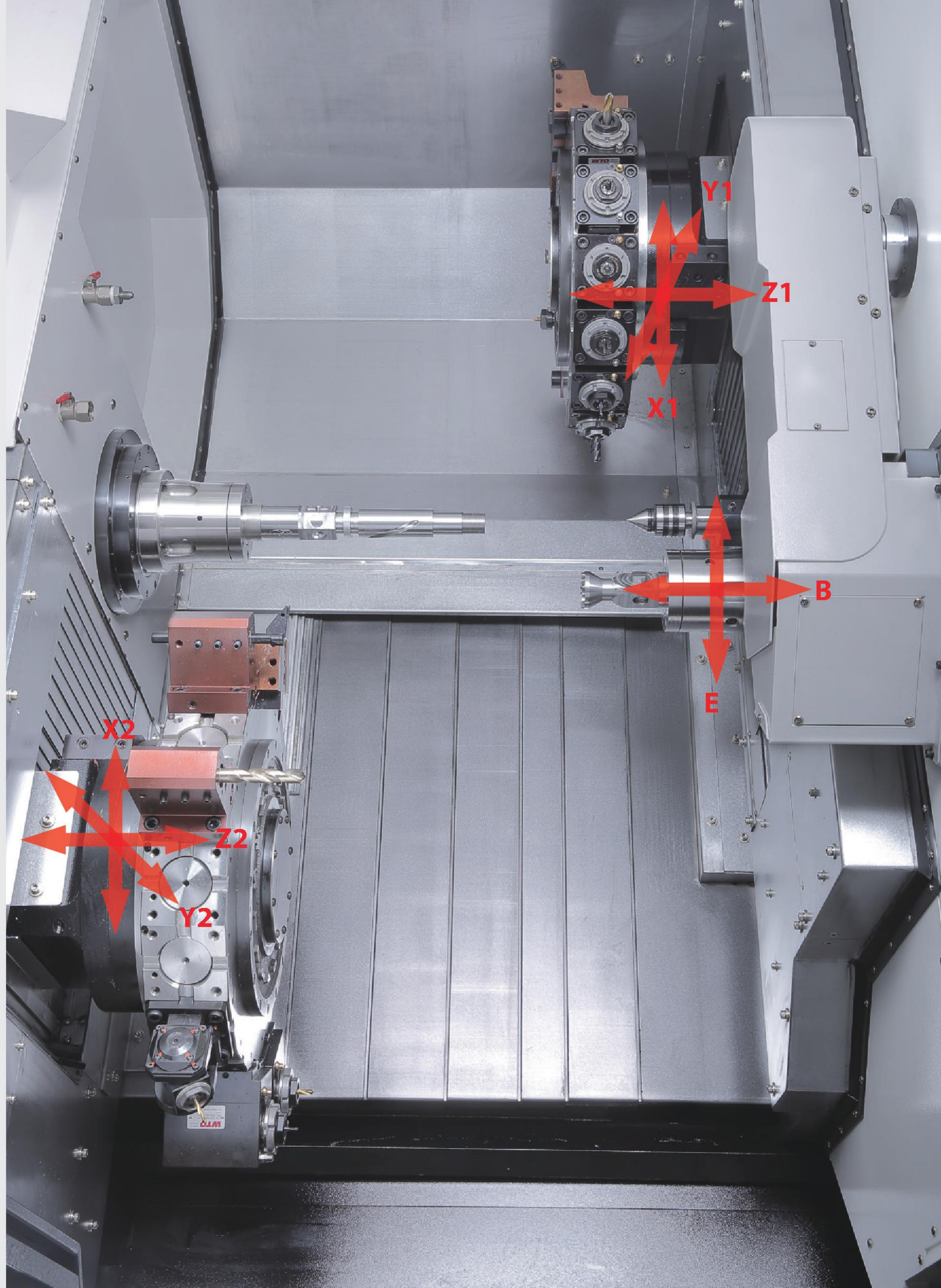
"This CNC turning center offers a double spindle design for complex component cutting in a single setup".

E Axis for 2 Separate Work Areas

An E axis allows the second spindle and tailstock to move up and down. This provides an independent working environment for machining.

90° Structure

The special structure design of the WTS uses a rigid 90° angle for turret carriage, providing excellent chip flushing and removal.



Fixed Tailstock for Long Workpieces

A fixed tailstock for long workpieces keeps them parallel and improves precision and stability during machining. (WTS-52Y2M)

Air Purge and Air Dryer System

Air Purge System offers protection to prevent coolant from entering spindle bearing during machining. Air dryer drains the moisture in the air, strengthens the efficiency of oil mist lubrication system and prevents the main component from rusting.

Double Y-axis BMT55 16-Station Upper and Lower Turrets

The WTS comes with BMT55 16-Station power turrets and is available to be equipped with different types of BMT55 system as well. The upper and lower turrets can work independently with the spindles 1 and 2. This allows the machine to exhibit maximum versatility.

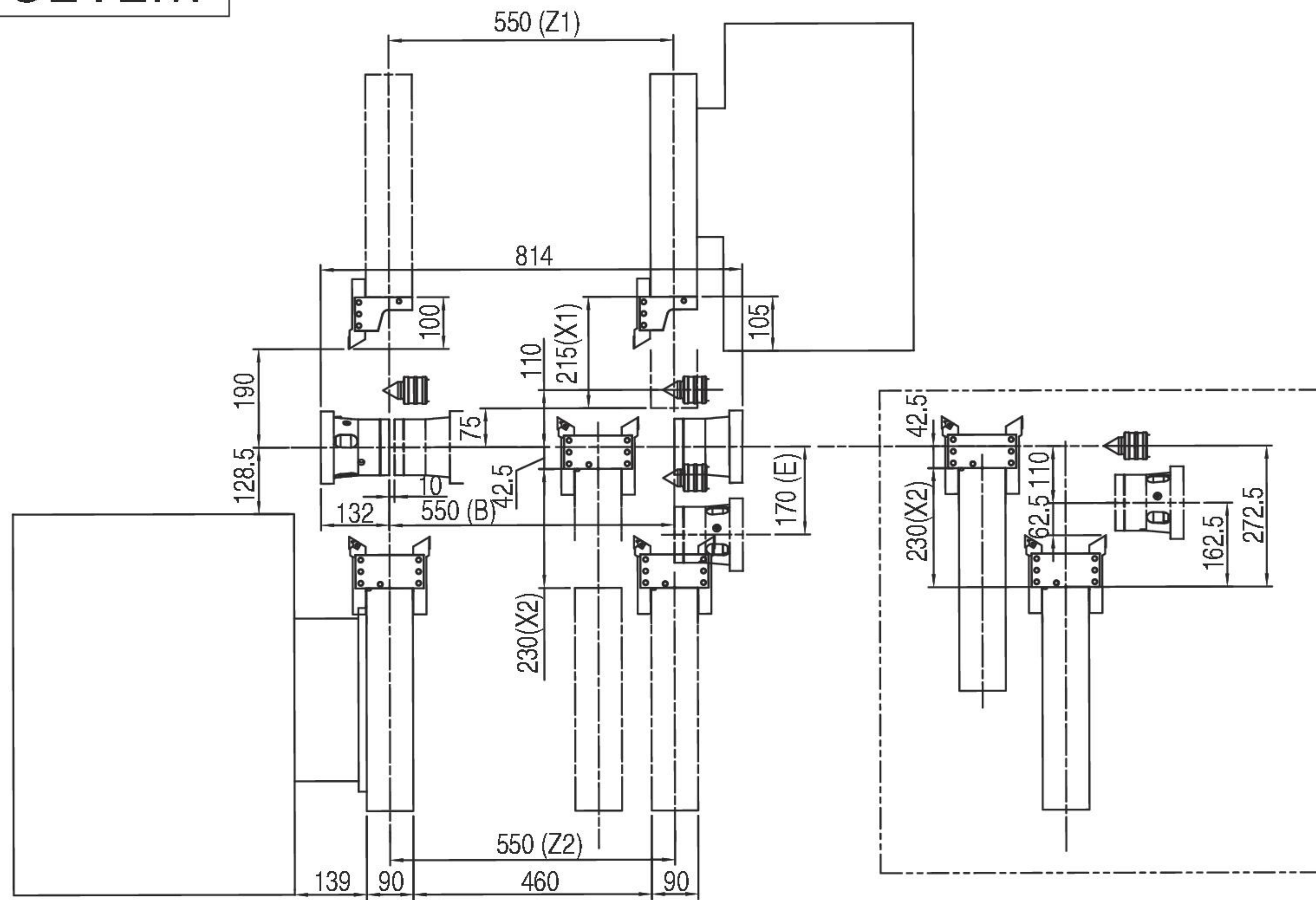
Optional Equipment

CC Machinery offers two options for automated cell in the WTS machine. Customers operating in multi-cell environments can choose either a gantry type loader or a full arm.

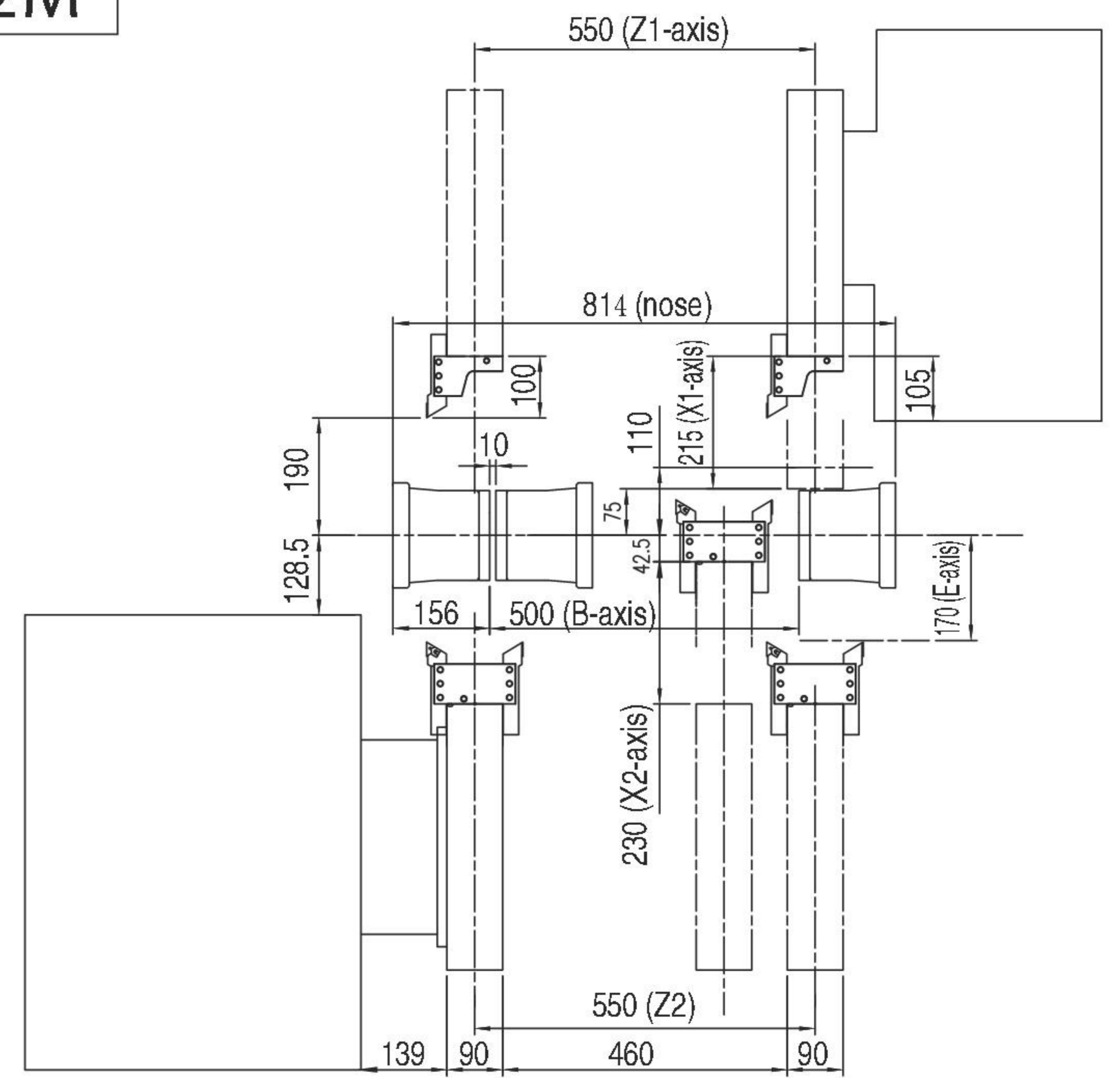
"Ready to provide service or turn-key solution for your automation and machine tool needs".

AXIS TRAVEL DIAGRAM

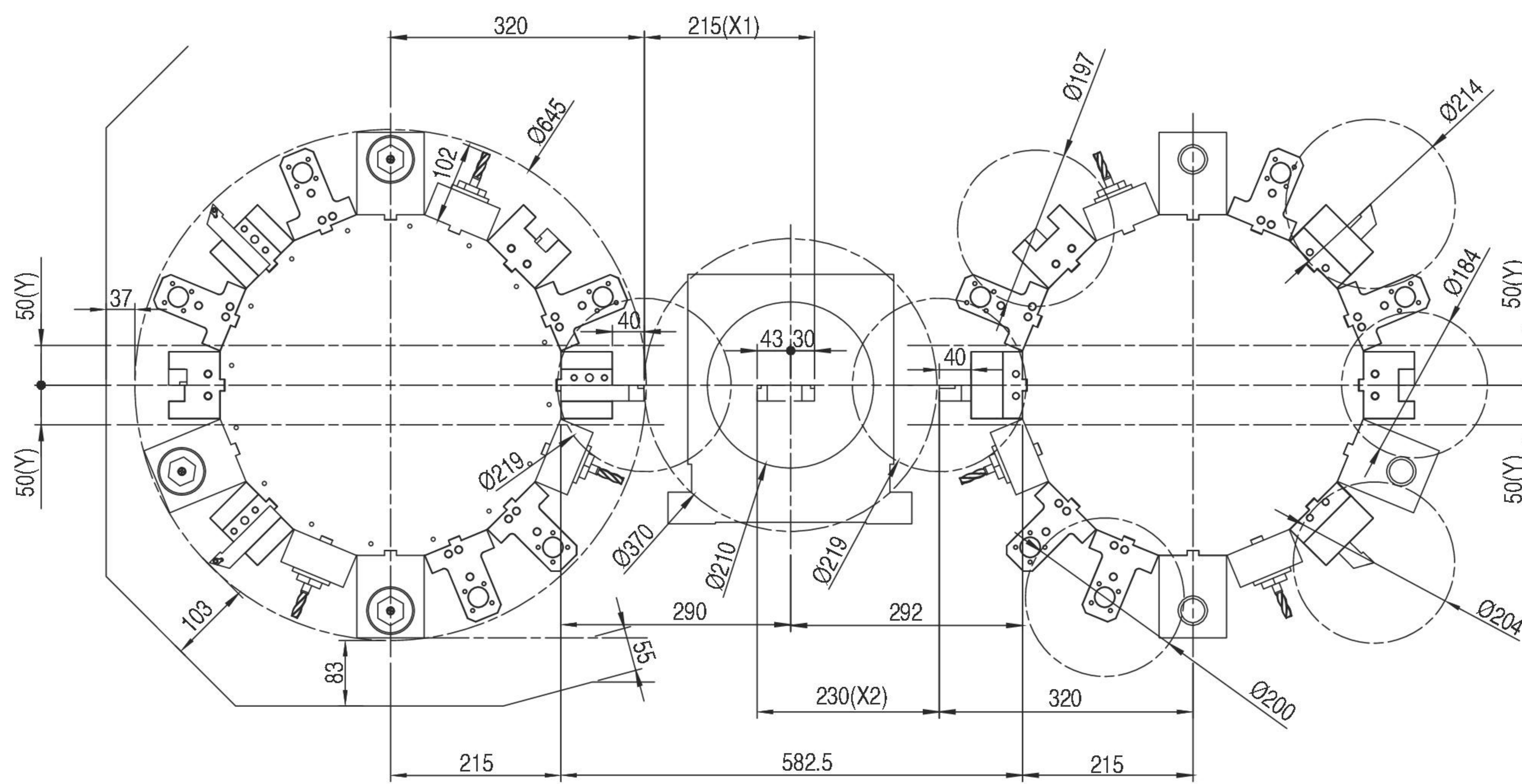
52Y2M



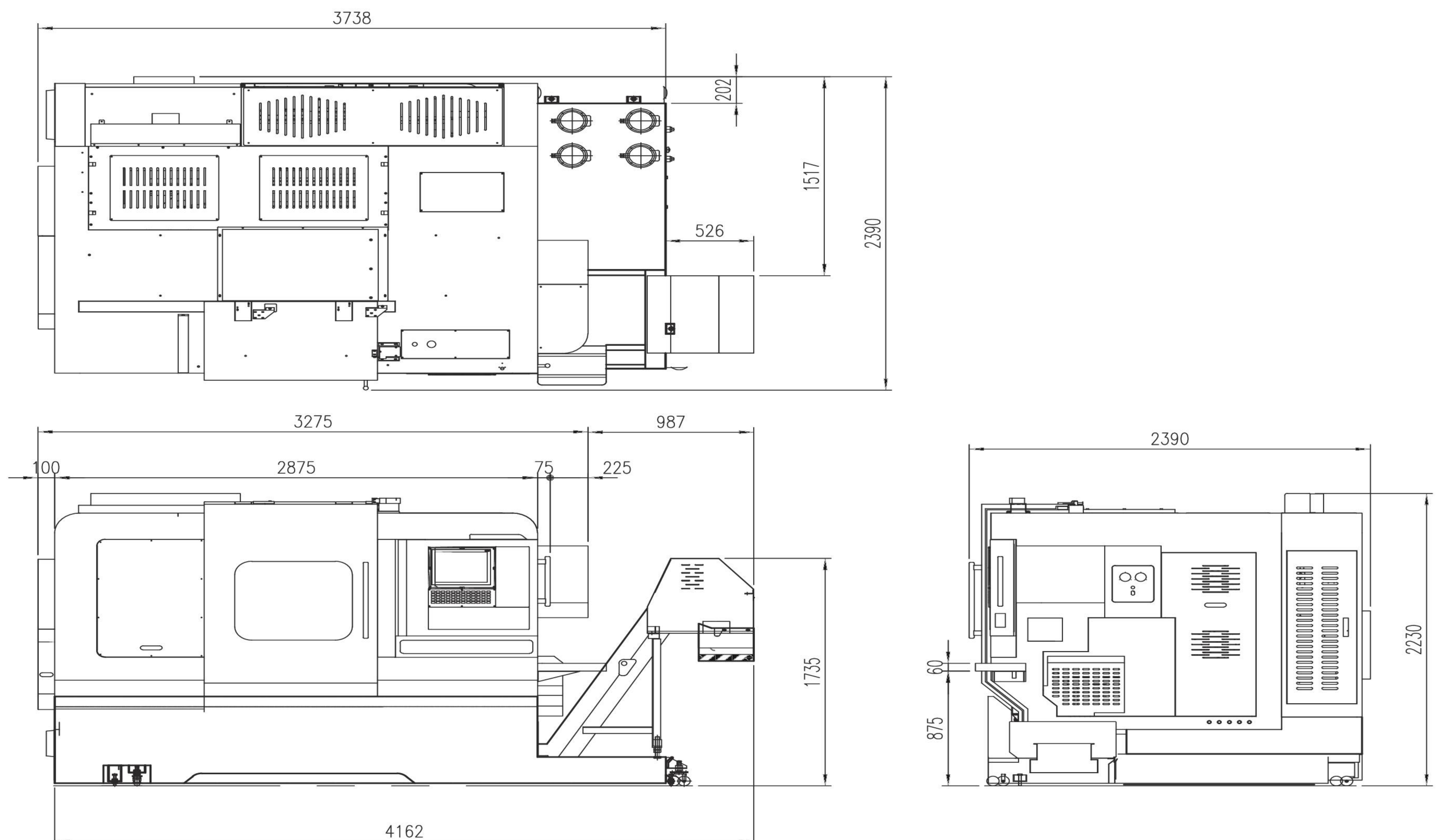
65Y2M



TOOL INTERFERENCE DIAGRAM



MACHINE DIMENSIONS



MACHINE SPECIFICATIONS

WTS-52Y2M | WTS-65Y2M

		Mitsubishi	Fanuc
Capacity	Controller	Mitsubishi	Fanuc
	Max. turning. dia.	Ø370 mm	
	Standard turning. dia.	Ø210 mm	
	Distance between two center	814 mm	812 mm
	Max. turning length	500 mm	
	Bar capacity	Ø51 mm	Ø65 (Op: Ø70) mm
Axis Specifications	X1/X2 axis travel	215 / 230 mm	
	Z1/Z2 axis travel	550 / 550 mm	
	Y1/Y2 axis travel	± 50 mm / ± 50 mm	
	B axis aravel	550 mm	500 mm
	E axis aravel	170 mm	
	X/Y/Z axis rapid travel speed	16 / 6 / 40 m/min	
	B axis rapid travel speed	40 m/min	
	E axis rapid travel speed	6 m/min	
	Min. input unit	0.001 mm	
Spindle	Max. spindle speed	6000 rpm	4000 rpm
	Spindle motor	7.5 / 11 kw	18 / 22 kw
	Center height	1180mm	
	Spindle nose	A2-5	A2-6
	Spindle bore	Ø60.5 mm	Ø86 mm
	Spindle bearing Dia.	Ø90 mm	Ø120 mm
	Bar capacity	Ø51 mm	Ø65 (Op:70) mm
	Chuck size	6" (Op: 8")	8" (Op: 10")
Sub-spindle	Max. spindle speed	6000 rpm	4000 rpm
	Spindle motor	7.5 / 11 kw	18 / 22 kw
	Spindle nose	A2-5	A2-6
	Spindle bore	Ø60.5 mm	Ø86 mm
	Bar capacity	Ø51 mm	Ø65 (Op: 70) mm
	Chuck size	6" (Op: 8")	8" (Op: 10")
L.R.C.	Min. moving unit	0.001 mm	
	C axis rapid travel rate	600 min ⁻¹	
Live Tool Turret	Turret station	16 stations	
	O.D. tool	□20 mm	
	I.D. tool	Ø25 mm	
	Rotating mode	single tool transmission	
	Live tool rpm	60~6000 min ⁻¹	
	Live tool motor	3.7/5.5 kw	4.7 kw
	No. of live tool	16 x 2	
	Collet size	ERØ25A	
	Tool holder & Tool size	BMT55	
Machine	N.W. (Includes chip conveyor)	10500kg	
	Size (LxWxH) (Includes chip conveyor)	4262 mm x 2390 mm x 2226 mm	
Power	Power	81 KVA	96 KVA
	Hydraulic motor	3 HP / 2.2 kw*2	
	Coolant motor	1.5 HP / 1.17 kw / 60Hz	
Tank Capacity	Hydraulic tank	65 L	
	Coolant tank	440 L	

STANDARD ACCESSORIES

- Tool kit
- Collet chuck device
- Auto bar feeder interface
- Finished part catcher & conveyor
- Auto power breaker
- Hydraulic cylinder stroke
- Air blowing device
- Air conditioner for electrical cabinet
- Steel belt chip conveyor 1m high
- Chip washing coolant device & Air blowing device
- * Cutting fluid pump
- * Cutting fluid inspection device
- * Coolant air through sub-spindle

OPTIONAL ACCESSORIES

- 6" / 8" hydraulic chuck
- Axial and radial live tool holder
- Voltage stabilizer / transformer
- High pressure coolant through tool
- 15-bar high pressure coolant device with filter
- Bar feeder
- Mitsubishi robot
- Gantry type robot
- Auto door