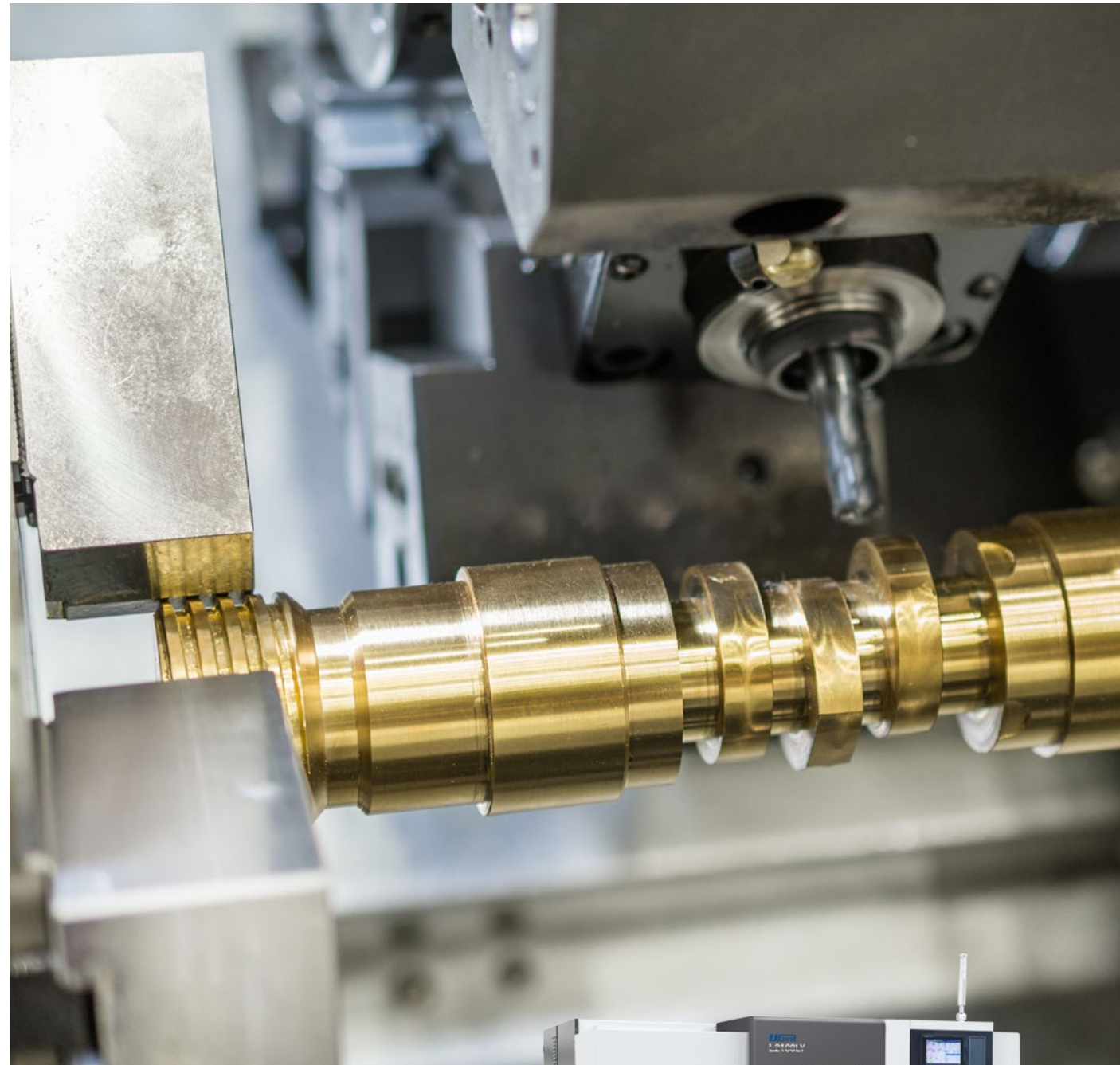


# The New Conceptual Shift

Optimum Space!, High efficiency machinability!, High cost-effectiveness!



## L2100LY

Best choice for maximum reliability and productivity  
Y-axis type CNC Turning Center

All the axes are applied with fast, accurate and high rigidity, roller-type LM guide to minimize idle time and maximize productivity. The addition of Y-axis with wider travel enables convenient cutting of various shape or complex style parts for customers.



# Specifications



ITEM	Unit	Specifications		
Capacity	Max. swing on bed	mm	600	
	Swing over cross	mm	400	
	Max. Turning dia.	mm	360	
	Max. Turning length	mm	480	
	Max. Bar capacity	mm	65	
Spindle	Chuck size	mm	210	
	Spindle rpm	rpm	4,500	
	Spindle nose	-	A2-6	
	Bearing dia(front)	mm	110	
	Spindle thru. dia.	mm	76	
	Max. torque	kg-m	17.32	
	Driven by	-	BELT	
C-axis index deg.	deg	0.001		
Travel	Max. Travel	X-Axis	mm	210
		Z-Axis	mm	560
		Y-Axis	mm	105
	Rapid traverse	X/Z/Y-Axis	m/min	36/36/10
	Guideway(X/Z)	-	-	LM GUIDE
Tool	No. of tools	EA	12	
	Tool size	O.D.	mm	25
		I.D.	mm	40
Rotary Tool	Collet size	-	ER25	
	Max. Speed	rpm	5,000	
	Max. Torque	kgf-m	2.4	
	Rotary Tool Type	-	BMT55	
Tail Stock	Tail spindle taper	MT	4	
	Tail spindle dia.	mm	80	
	Tail stock travel	mm	80	
	spindle/body	mm	560	
Motor	Spindle motor	kW	15/11	
	Servo motor	kW	3.7 / 5.5	
Tank capa.	Hydraulic oil	ℓ	15	
	Coolant	ℓ	200	
	Lubrication	ℓ	2	
Power	Power capa.	kVA	32	
Machine	Foot print (L x W)	mm	2,910 X 1,790	
	Machine height	mm	2,025	
	Net Weight (std. M/C)	kgf	4,050	
Controller			MITSUBISHI M80 [FANUC Oi-TF]	

Machine specifications and other features are subject to change without notice.

[ ] : Opt.



Union Great International

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## L2100LY

UGINT's Cost-Value Master **CNC TURNING CENTER**





# Innovation of CNC Turning Center

Optimal Floor Space, Multiplex Y-axis type CNC Turning Center



### 30° slant and one-piece iron cast Bed

Slant bed that is combined with square-tube shaped vault structure, contains high-rigidity when machining and absorbs majority of vibration

### Tail Stock Max. travel :80mm



- TS TAPER : **MT#4**
- TAIL SPINDLE TRAVEL **80mm**
- TAIL SPINDLE DIA **Ø80**
- BODY TRAVEL **560mm**

### C Axis

The C-axis is positioned in degree increments of 0.001. Through spindle synchronization with the X and Z axes, three dimensional contouring, complex and prismatic machining can be accomplished.

### Y Axis

Y-axis with wider travel enables convenient and precise cutting of various shape or complex style parts.

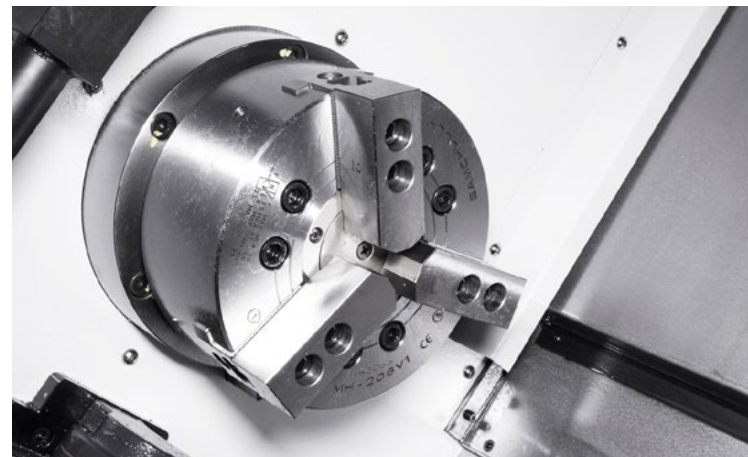
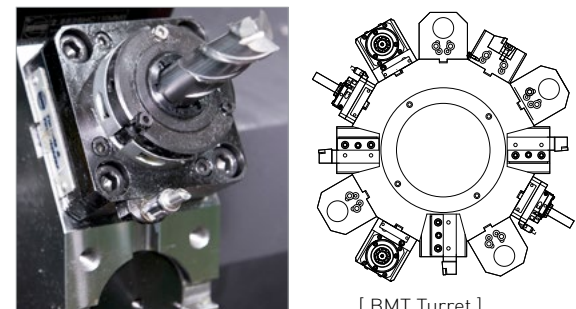


- Y-AXIS TRAVEL DISTANCE **105[±52.5]mm**

### BMT Turret

BMT turret makes it possible to complete complicated parts requiring many tools in just one set-up. Reliable servo driven turret reduces the total cycle time required by machine parts.

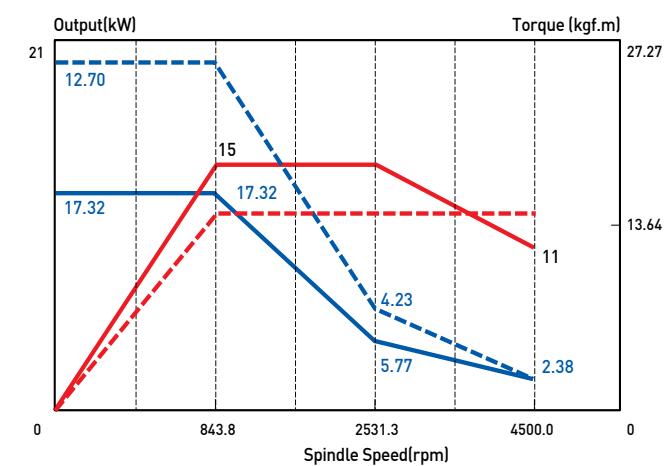
	ITEM	UNIT	BMT Turret
Rotary Tool	Max. Speed	rpm	5000
	Max. Torque	kgf-m	2.4
	Rotary Tool Type	-	BMT55



### Main Spindle

- Anti-heat creep structure
- Wide rated output to keep uniformity of parts
- Compensate the power with wider spindle diameter
- Adopt angular contact ball bearing to reduce noise dramatically

### Spindle Power-Torque Diagram (General winding-Low speed)

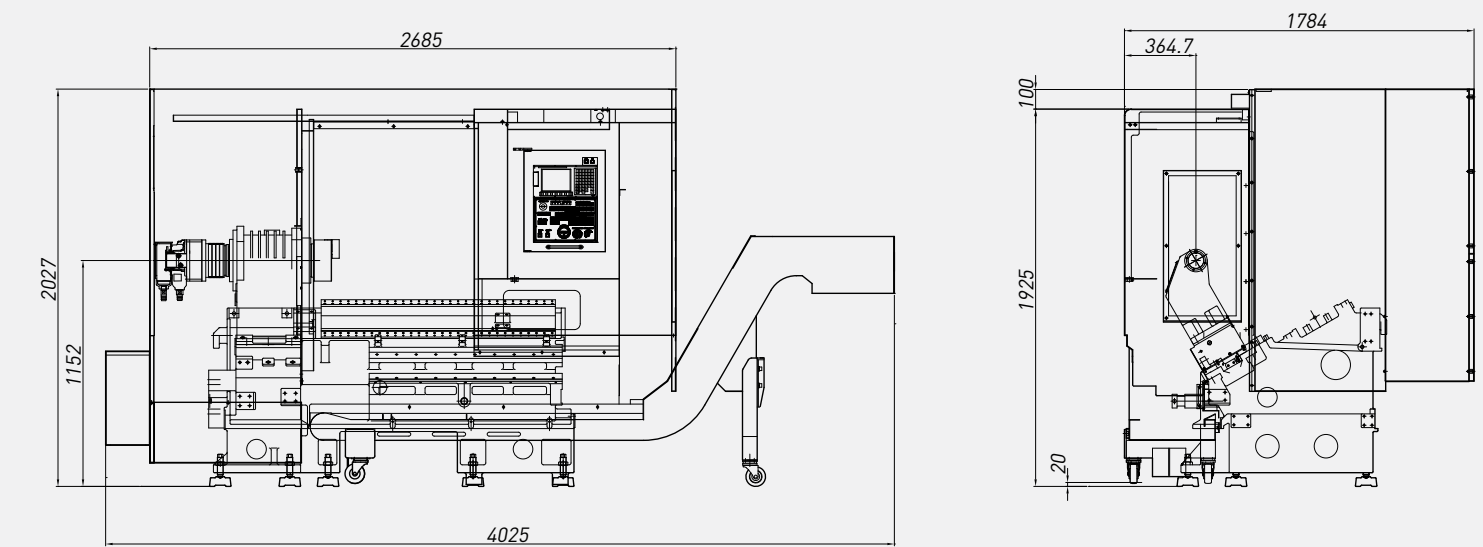


L2100 LY Spindle Torque with 4500rpm

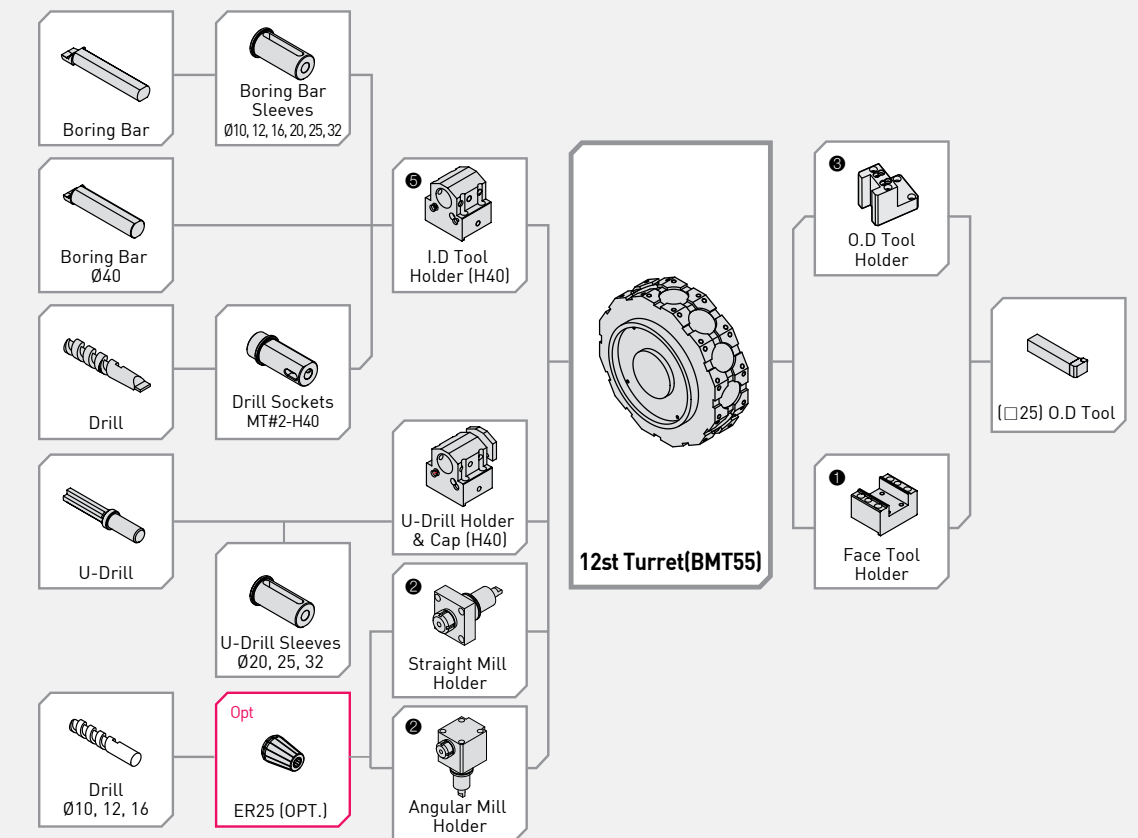
## L2100LY

- Rapid traverse (X/Z axis) **36/36 m/min**
- Travel (X/Z axis) **450/330 mm**
- Spindle Power **11/15 kW**
- Spindle Torque **12.99 kg-m**

External Dimensions L2100LY Unit : mm



Tooling System



## Specifications