A-Turn CNC

190 | 190 M

CNC Compact Slant Bed Lathe 15x6''

This high-performance, compact CNC lathe features a slant bed with **box ways** and is available with **live tooling**. It is equipped with an accurate **lead pitch ballscrew**, a high-precision **headstock**, and a **servo-driven mechanical turret** for enhanced machining accuracy and reliability.

STANDARD CONFIGURATION

- FANUC 0i-TF Controller
- 10.4" Colored LCD Monitor
- RJ-45 Interface
- Electric Cabinet Heat Exchanger
- Lubrication System
- 4-Bar Coolant System
- Three-Color Warning Light
- Rigid Tapping

OPTIONAL CONFIGURATION

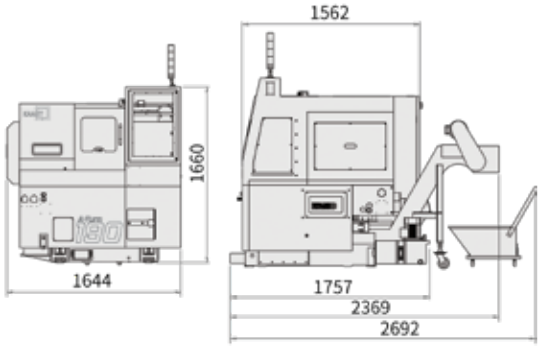
- Collet Chuck
- Tool Setter
- Parts Catcher and Parts Conveyor
- Bar Feeder Interface (7 or 24 Pins)
- Bar Feeder
- Oil Mist Collector
- Oil-Coolant Skimmer
- Electric Cabinet Air Cooler
- 15 Bar High Pressure Coolant System
- Glass Linear Scales
- Live Tooling

ACCURATE LEAD PITCH BALLSCREW

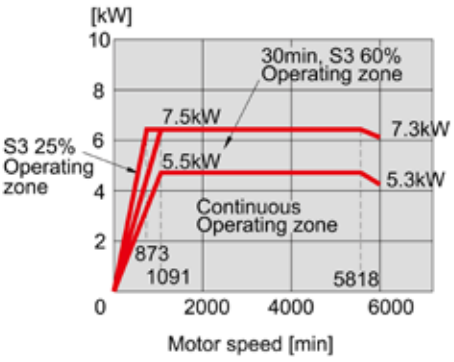
A pre-tensioned, high-precision ballscrew with integrated cooling channels eliminates backlash and minimizes thermal expansion, while the direct-drive motor enhances axial positioning accuracy and reduces energy loss during power transmission.

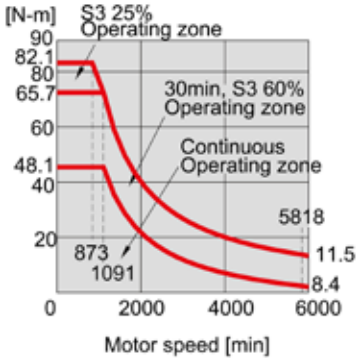
HIGH-PRECISION HEADSTOCK

Specially designed ribbed headstock eliminates thermal distortion. It is precisely bored and ground to ensure excellent concentricity.



Spindle Motor Toque Power





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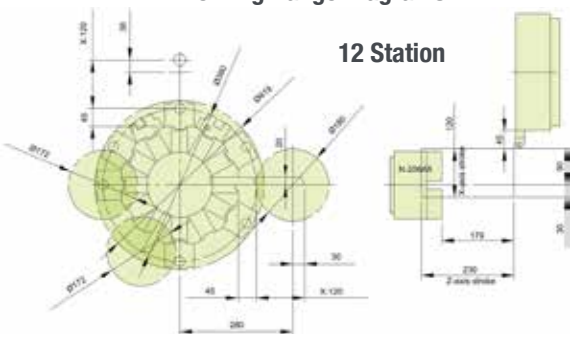
KAAST

A-Turn CNC

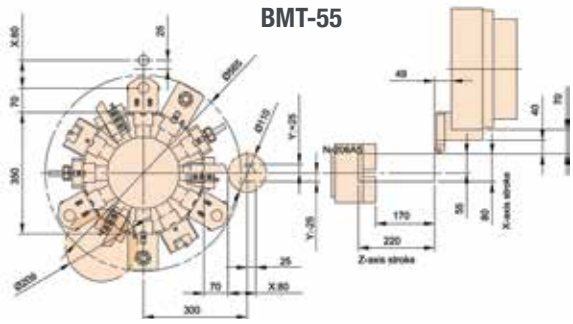
190 | 190 M

Working Range Diagrams

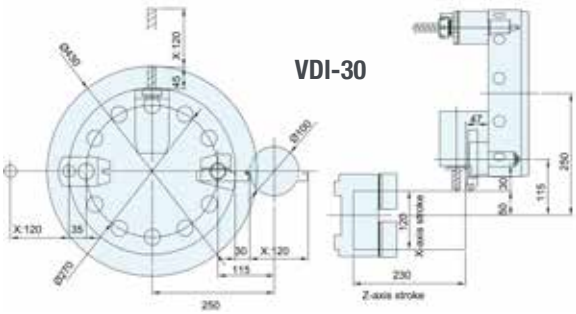
12 Station



BMT-55



VDI-30



HIGH PRECISION SERVO MECHANICAL TURRET

The turret is driven by cam-follower with hydraulic motor or servo motorto obtain high repeated indexing accuracy under continuous tool change. The 12-position BMT or VDI live tool turret provides various profile milling and off-center drilling capabilities and trouble-free maintenance. If equipped with special coolant pump, the turret can support up to 70 Bar of high pressure coolant.

HYDRAULIC TURRET

BMT

VDI

A-Turn CNC			190	190 M
			15” x 6”	15” x 5”
Controller			FANUC 0i-TF	
Swing over Bed		mm	380 (14.9”)	
Swing over Saddle		mm	320 (12.6”)	
Max. Turning Diameter		mm	180 (7”)	100 (3.9”)
Max. Turning Length		mm	175 (6.8”)	140 (5.5”)
Guide Way Type			Box Way	
Spindle Nose		ASA	A2-5	
Chuck Diameter		mm	152.4 (6”)	
Bar Capacity		mm	30 (1.1”)	
Spindle Speed		rpm	6000	
Spindle Motor Power		kW	5.5 (7.5 Hp)	
Travels	X-Axis	mm	120 (4.7”)	
	Z-Axis	mm	230 (9”)	
Feed Rates				
Rapid Traverse	X-Axis	m/min	12 (472”/min)	
	Z-Axis	m/min	18 (709”/min)	
Turret				
Tooling System			BOT	
Turret Driven Type			Hydraulic/Servo	Servo
Number of Tools		#	12	
Square Tool Shank Size		mm	20 (.78”)	
Round Tool Shank Size		mm	32 (1.25”)	
Max. Rotary Tool Speed		rpm	-	6000
Rotary Tool Power		kW	-	4.5 (6 Hp)
Dimensions (L/W/H)		mm	1700x1600x1700 (67x63x67”)	1900x1700x1800 (75x67x71”)
Weight		kg	1800 (3,900 lbs)	
Item No.			6430115	6430116

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