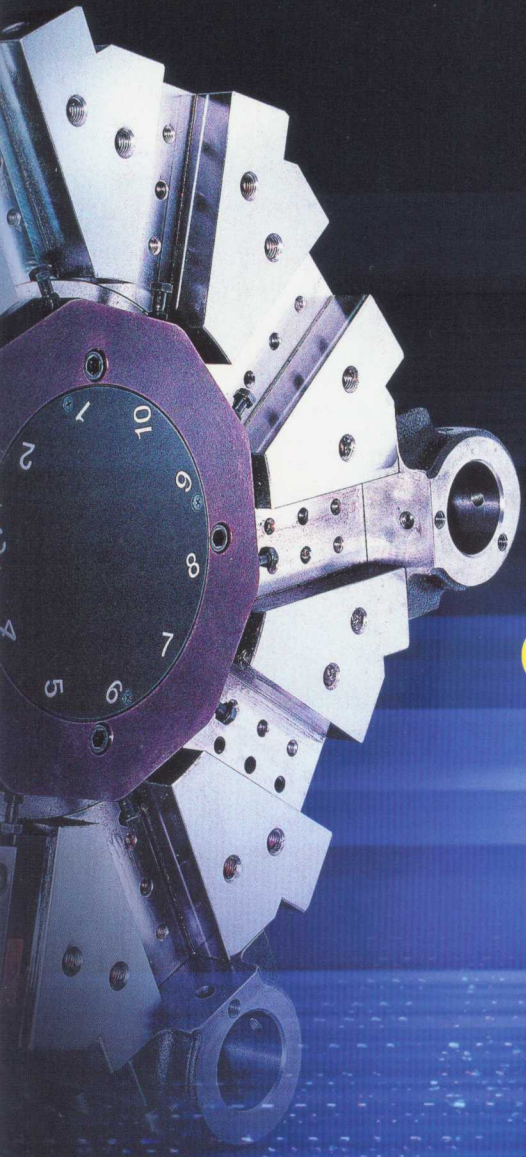


TAIWAN TAKISAWA
TO DEVELOPMENT OF WORLDWIDE

EX-122

CNC Lathe

High Performance Machine



TAIWAN TAKISAWA EX-122

Features and Benefits:

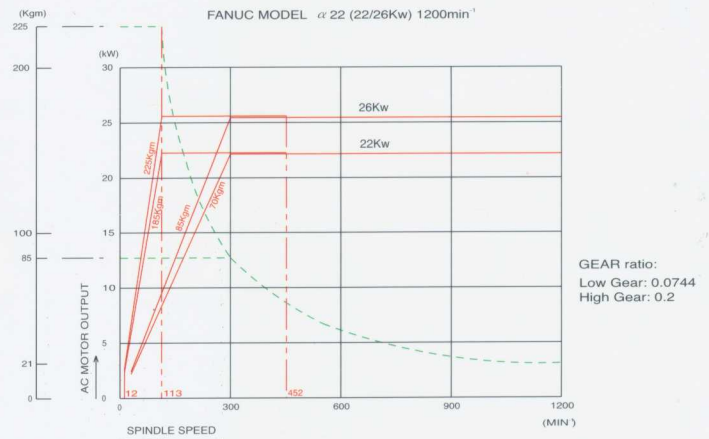
EX-122 represents the widest working range in the Taiwan Takisawa EX-Series

- Swing over bed is 36 inches (910 mm).
- Maximum machining diameter is 24 inches (610 mm).
- Maximum working length is 60 inches (1524 mm).
- Spindle thru-hole is 8 inches (204 mm).

The EX-122 was developed on the progressive technology that surrounds large workpiece machining. It is extremely versatile in the turning of large pipe flanges, pipe joints, hydraulic cylinders, brake or roller shafting and assorted valves. With the EX-122's wide working range, it has been called the "Terminator" of large scales CNC lathes in the industry.

Advance and detailed mechanical design affords maximum speed and precision

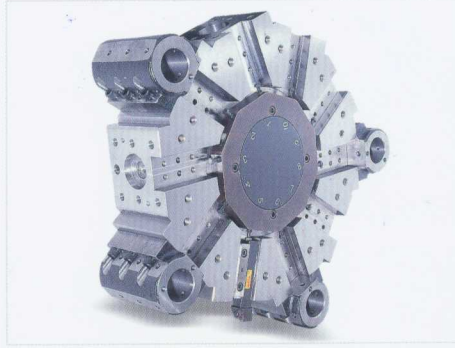
- The EX-122 has solved the traditional inherent problem of slow movement's of large CNC lathes. The EX-122's rapid traverse rate of X- axis is 787 ipm (20 M/Min) and Z-axis can go up to 944 ipm (24 M/Min). This can mean a 20% increase in efficiency. Finally, maximum performance available for large CNC lathe.
- The X-Axis AC servomotor is 3.7 HP (2.8 kw) combined with a 1.96 inches (50 mm) ballscrew allows for rigid, accurate threading.
- The Z-Axis AC servomotor is 6.4 HP (4.8 kw) equipped with a 2.48 inches (63 mm) of Z-Axis ballscrew allows for maximum drilling and boring capabilities.
- It makes heavy-duty cutting under high production demands possible. Even at lower speeds centering of work piece is easily obtained.





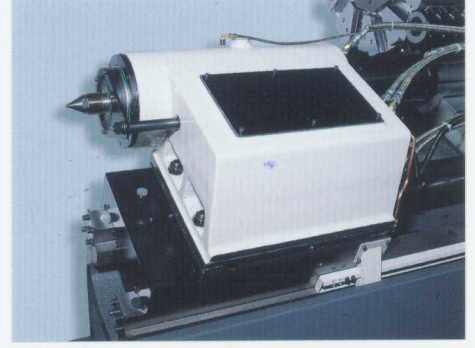
A power spindle for heavy-duty cutting

For the spindle drive, an AC 35 HP spindle motor is used because it provides the high output and high torque for handling a wide variety of workpieces, whether by heavy-duty cutting or intermittent cutting. With a 2-step gearbox of transmission, EX-122 produces 225 Kg M (1626 lb. ft) of high torque output at spindle speed of 113 rpm.



Large turret capable of swift tool indexing

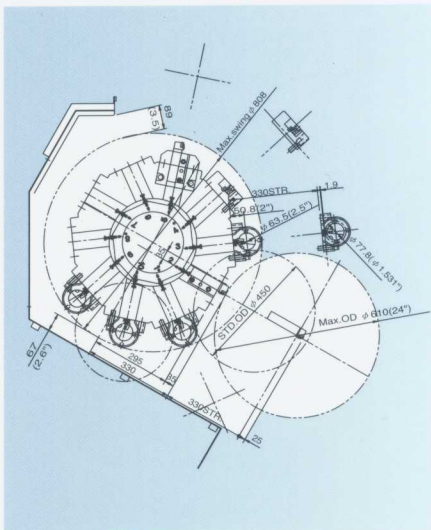
The use of a large turret means less interference with wide diameter workpieces. Positioning is quick to shorten non-cutting time by using servomotor driven system. The 11 inches (280 mm) turret curvic coupling combined with 7000 KG/CM2 of hydraulic clamping force allow for the heaviest cuts while maintaining the highest safety standards.



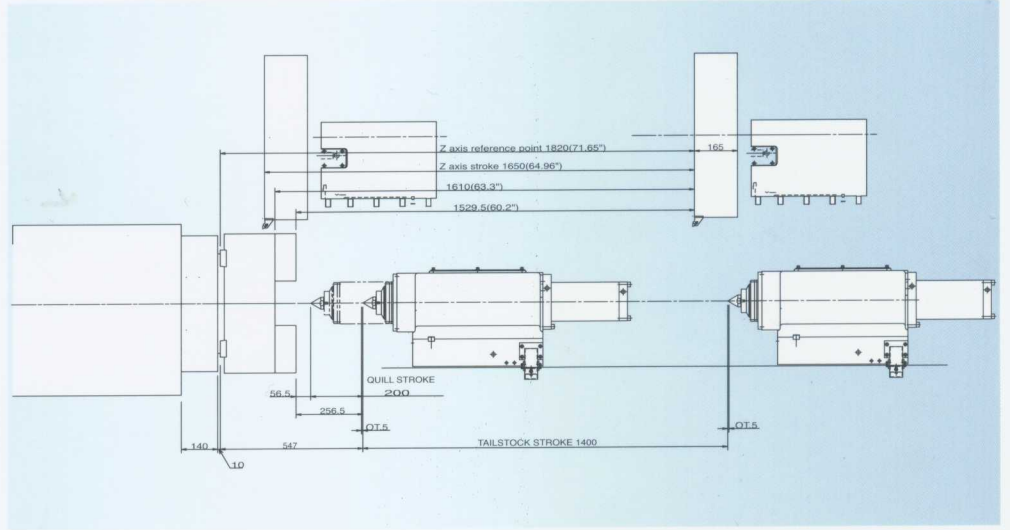
Easy-to-use automatic tailstock

The tailstock can be operated by simply pressing switches on the operation panel. Users can quickly move the tailstock to any random position. This feature is particularly useful for shortening setup time with long workpieces, and it enhances work factor.

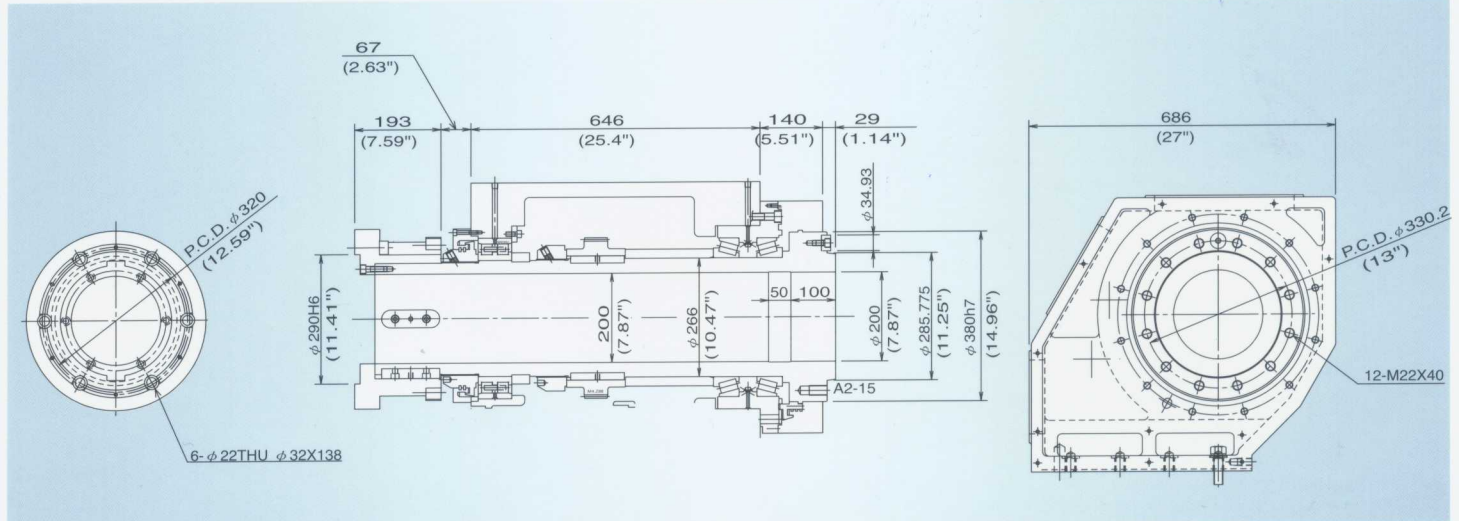
Tool interference



Working range

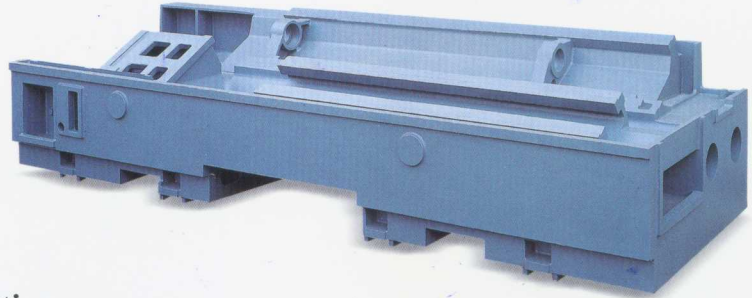


Main dimension of headstock



Extremely high mechanical rigidity due to single piece body construction

The mechanical construction was carefully studied from the early design stage to ensure stable high precision, heavy-duty cutting. Deformation in the body was simulated under load. A trapezoidal bed of a large sectional area and low center of gravity was adopted as a result. This kind of solid body is the ideal base construction of any large class machine.



Specification of EX-122 Specification

ITEM	SPECIFICATION	UNIT	EX-122
CAPACITY	SWING OVER BED	mm(inch)	910(36")
	MAX. TURNING LENGTH	mm(inch)	1524(60")
	BAR CAPACITY	mm(inch)	184(7.25")
SPINDLE	NO. OF SPINDLE		1
	SPINDLE SPEED	rpm	12~1200
	SPINDLE NOSE		A2-15
	SPINDLE THRU-HOLE	mm(inch)	200(7.87")
TOOL POST	NO. OF TOOL POST		1
	TYPE OF TOOL POST		T10
	STROKE OF X-AXIS	mm(inch)	340(13.38")
	STROKE OF Z-AXIS	mm(inch)	1524(60")
	RAPID TRAVEL X-AXIS	M/min(IPM)	20(787.4")
	RAPID TRAVEL Z-AXIS	M/min(IPM)	24(944.89")
	JOG FEED RATE X-AXIS	mm(inch)/min	0-1260(0-49.6")
	JOG FEED RATE Z-AXIS	mm(inch)/min	0-1260(0-49.6")
	HEIGHT OF SQUARE TOOL	mm(inch)	32(1.26")
DIA OF BORING BAR HOLDER	mm(inch)	65(2.56")	
MOTOR	SPINDLE MOTOR	kw(hp)	26(35)
	SERVO MOTOR X-AXIS	kw(hp)	2.8(3.7)
	SERVO MOTOR Z-AXIS	kw(hp)	4.8(6.38)
	HYDRAULIC PUMP	kw(hp)	1.5(2)
	LUBRICATION PUMP	kw(hp)	0.004(0.005)
	COOLANT PUMP	w	750
POWER	ELECTRIC	KVA	54
	AIR PRESSURE	Mpa	1.5
	AIR FLOW	L/min	2
TANK	HYDRAULIC	L	40
	LUBRICATION	L	1.5
	COOLANT	L	300
SIZE	HEIGHT OF MACHINE	mm(inch)	2090(82.28")
	HEIGHT OF SPINDLE'S CENTER	mm(inch)	1110(43.7")
	LENGTH AND WIDTH OF MACHINE	mm(inch)Xmm(inch)	4740(186.6")x2130(83.86")
	WEIGHT OF MACHINE	KGF(LBS)	11000(24200)

● We reserve the right to change description in this brochure without notice.

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