

MILL TURN Machine specifications**GENERAL DIMENSIONS AND LATHE SPECIFICATIONS**

LENGTH	54 "
WIDTH	31"
HEIGHT	82" + - 1" FOR LEG LEVELERS
SHIPPING WEIGHT	1250 #
MACHINE WEIGHT	1150 # INCLUDES BENCH
CRATE SIZE	54"W x 32"D x 43"H
FOOTPRINT	54" WIDE X 32"DEEP X 84" TALL (ADD 24" WIDE FOR PC)
T SLOT SIZE	1/2"
POWER FEED X AXIS	YES forward and reverse with cnc or Power feed
POWER FEED Y AXIS	YES forward and reverse with cnc or Power feed
POWER FEED Z AXIS	YES up and down with cnc or Power feed
TABLE SIZE	9" X 19"
T SLOTS ON TABLE	3 FULL LENGTH EQUALLY SPACED
DISTANCE BETWEEN CENTERS	30"
DIAL CALIBRATION ON CROSSFEED	DRO STANDARD
DIAL CALIBRATION ON LEADSCREW	DRO STANDARD
DIAL CALIBRATION ON Z AXIS	DRO STANDARD
FEED RATES ON X AXIS	ADJUSTABLE 0-60 IPM UNDER CNC or Power feed
FEED RATE ON Y AXIS	ADJUSTABLE 0-60 IPM UNDER CNC or Power feed
FEED RATE ON Z AXIS	ADJUSTABLE 0-40 IPM UNDER CNC or Power feed
HEADSTOCK TAPER	MORSE # 5
LATHE CHUCK BORE	1.59"
LATHE CHUCK DIAMETER	6"
LATHE CHUCK MAX WORK PIECE DIA.	6.32"
LATHE CHUCK MINIMUM WORKPIECE	0.125" (practical limit)
LATHE CHUCK MOUNT	PLAIN BACK
LATHE CHUCK TYPE	3 JAW SELF CENTERING
SPINDLE ACCURACY T.I.R.	0.00076"
SPINDLE BORE	1.59"
SPINDLE SPEEDS	0-1600
SWING OVER BED	17"
SWING OVER CARRIAGE	7.5"
TAILSTOCK TAPER	MORSE # 3
TAILSTOCK BARREL TRAVEL	6.25" PLUS 4" TELESCOPING
THREADS – INCH	INFINITE
THREADS- METRIC	INFINITE
Y AXIS TRAVEL	10"
TOOL BIT SIZE	0.125" TO 0.50"
X AXIS TRAVEL WITH TAILSTOCK ON	16.5"

X AXIS TRAVEL WITH TAILSTOCK OFF	16.5"
OPTIONAL STEADY REST	2.5" MAX DIAMETER
OPTIONAL FOLLOW REST	1.5" MAX DIAMETER

MILL SPECIFICATIONS

SUPPORT COLUMNS - 6 1.00" GROUND	6.00" TOTAL DIAMETER
MILL HEAD TRAVELS ON LINEAR BEARINGS	
DRAWBAR 7/16-20 THREADS	8.0" WITH SPINDLE CENTERING BUSHING
DRILL CHUCK	0-1/2"
DRILL CHUCK ARBORS 2	R-8 AND MORSE # 3
FEED RATES MILL X AXIS	ADJUSTABLE 0-60 IPM UNDER CNC or Power feed
FEED RATE MILL Y AXIS	ADJUSTABLE 0-60 IPM UNDER CNC or Power feed
FEED RATE MILL/DRILL Z AXIS	ADJUSTABLE 0-40 IPM UNDER CNC or power feed
MILL HEAD SPINDLE TO LATHE SPINDLE TRAM	0.001"
Z AXIS TRAVEL	10.5"
TTS STYLE TOOL HOLDER WITH 2 ER20 COLLETS	
SPINDLE CENTER TO FRONT OF LATHE CHUCK	12"
SPINDLE CENTER TO LATHE SPINDLE FLANGE	14.75"
SPINDLE CENTER TO SUPPORT COLUMN	16.5"
SPINDLE TO TABLE DISTANCE	2'-15"
SPINDLE SPEEDS	0-4750
SPINDLE TAPER	R-8
TOOL SIZE LIMITS (END MILLS/DRILL)	1" recommended
X AXIS TRAVEL	16.5" (8.25" right and left from center)
Y AXIS TRAVEL	10" (5" forward and back from center)

ELECTRICAL

MOTORS (2) 220 VOLT 60 HZ TEFC	6.3 AMPS EACH 4 POLE INVERTER DUTY
HORSEPOWER	2 rated at max VFD torque compensation
PHASE	THREE
POWER CORDS	1 12 GUAGE
POWER REQUIREMENT 220 VOLT	HOUSEHOLD OUTLET 20 AMP CIRCUIT
MOTOR MOUNTING FRAME	IEC 100 face mount
MOTOR SHAFT SIZE	24 mm (15/16")
MOTOR RPM	1400 @ 60Hz adjustable through VFD to 120 Hz=2800

INVERTER 220 VOLT SINGLE PHASE INPUT 220 VOLT 3 PHASE OUTPUT	
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OTHER

BENCH- ALL STEEL WELDED CONSTRUCTION	6 LEGS WITH ADJUSTABLE LEVELING PADS AND 4 CASTERS FOR MOVING BUILT IN DRIP TRAY FOR COOLANT SYSTEM
DRO MOUNTING	ALL POINTS DRILLED AND TAPPED, SHIELDS AND HARDWARE ON MACHINE AND COLOR MATCHED- DRO FULLY MOUNTED AT FACTORY
CNC MOUNTING AND HARDWARE	CNC FULLY INSTALLED AT FACTORY INCLUDING X, Y, Z AND A AXES (A AXIS OUTPUT FOR THE OPTIONAL CNC ROTARY TABLE)
CNC ENCLOSURE	ALL STEEL SHEET METAL HOUSING INTEGRATED INTO THE MACHINE DESIGN. GECKO DRIVE , RS 232 CONNECTIONS AND COOLING FAN INSTALLED IN USA SWING AWAY COMPUTER AND MONITOR MOUNT
BALL SCREWS	C-7 BALL SCREWS WITH DOUBLE MULTI TRACK DEFLECTOR NUTS INSTALLED AT FACTORY ON X, Y AND Z AXES.
HAND WHEELS X, Y, Z	ROUND WITH FOLD AWAY HANDLES FOR CNC PROGRAM RUNNING
MACHINE FASTENERS	STEEL
MOTIONS	ALL SPINDLES RUN ON ANGULAR CONTACT SEALED BALL BEARINGS, MOTORS RUN ON SEALED BALL BEARINGS.