

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 | |
|---|--|

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. |