

MODEL NUMBER

5B5-5-18-48SCOLxx, DMS 5-AXIS, CNC Router

**MOVING BRIDGE
STATIONARY TABLE**

The heavy-duty bridge will span the 60" dimension of the table. The machine has a vertical bridge clearance of 72" and the Z-axis travel is 48". This machine features a heavy-duty Lathe 6th Axis, whereby the head stock will be fixed at one end of the machine, and the tail stock will be adjustably positioned on recessed profiled ways, to within 4' of the head stock or slide back out of the machining area.

MACHINING AREA

This machine features a machining area of 60" x 144". The base of the machine will be 18' long to accommodate the head and tail stock of the 6th axis, and the 144" machining dimension will be centered along the 18' dimension of the machine.

TABLE SIZE

The machine features a single 60-inch x 144-inch, 1.5-inch thick Aluminum tooling surface. The tooling surface features 3/8" threaded inserts on 12" centers, as standard. A combination vacuum plenum/tooling surface is optional.

**MACHINE
CONSTRUCTION**

The machine is constructed of a rigid, fabricated steel base, utilizing heavy gauge steel tube and plate weldment construction throughout. All structural members are stress relieved for maximum stability. All surfaces that mount precision components are precision ground and/or machined. All axes are laser compensated for maximum true position accuracy.

SPINDLES

This machine is configured with (1) 11HP HSD ES919, variable speed, quick-change spindle. The machine will feature a 12-position, servo controlled, traveling tool carousel. The programmable spindle speed is programmable from the 2,000 to 20,000 rpm. The spindle has a frequency inverter with electronic braking, and utilizes ISO30 taper tool holders with ER32 collets (3/4" collet capacity). ER40 collet capacity is optional (up to 1" collets).

DRIVE SYSTEM

Digital AC Servo Amplifiers driving brushless servomotors on all axes. The X and Y axes use a spinning ball nut lead screw drive system. The Z-axis utilizes a 32mm servo driven lead screw mounted with angular contact bearings. The B-axis uses a cycloidal 210:1 gearhead. The C-axis uses a cycloidal 109:1 gearhead. 35mm profiled ways on all linear axes.

RAPID TRAVERSE

X axis - 1200 inches per minute

Y axis - 1200 inches per minute

Z axis - 600 inches per minute

C axis - 125 degrees per second

B axis - 125 degrees per second

CONTROLLER

Fagor 8055M CNC Control System. This controller is fully compatible with all popular CAD/CAM software 5-Axis post processor files. Some of the many features include: an 11 inch color LCD monitor, 1 MB base memory, 4 MB PCMCIA Card, 512 GB Flash Drive, 3D Graphics, Tele-diagnostics, communications software, DNC communications via a serial port and a TCP/IP connection, CPU Turboprocessor Card and Tool Center Point Compensation.

HANDHELD TEACH PENDANT

Includes pulse generator, emergency stop, axes select, increment select, and store buttons to provide: Five-Axis Manual Handwheel Positioning Control; Teach-In Toolpath Generation; Programmed Feedrate Override Control; Simplified Fixture or Part Zero Locating; and Remote Cycle Start and Stop Operation.

AUTOMATIC LUBE

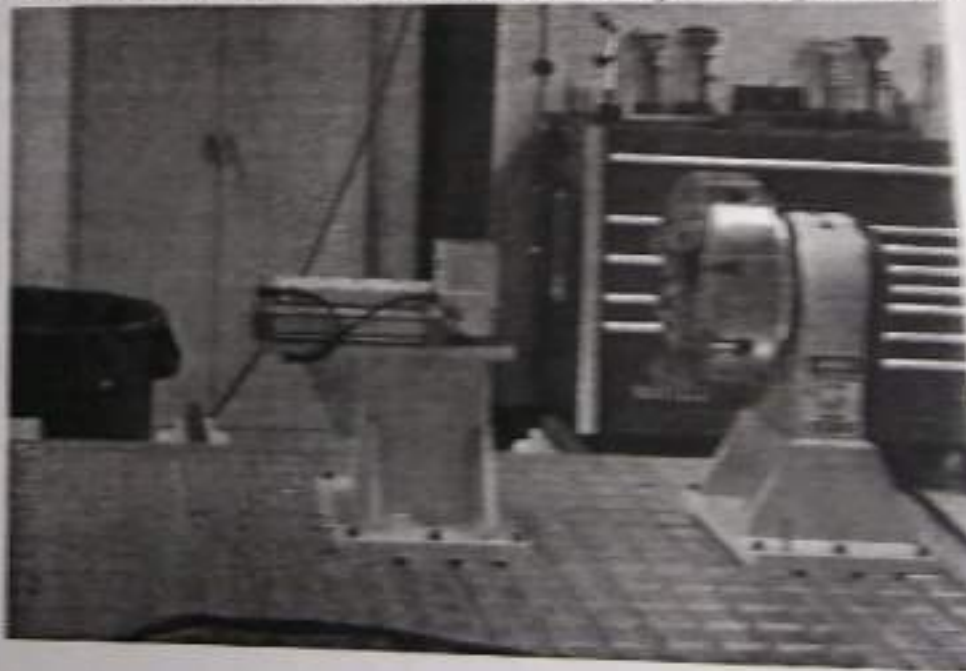
The Automatic Lubrication System provides a pressurized, controlled amount of light oil to the linear runner blocks and ball nuts. The pump controller is programmable for duration and frequency of the lubricant commands.

AUTOMATIC TOOL HEIGHT SENSOR

This option includes a precision touch probe. This feature allows the operator to quickly and automatically set tool lengths for CAD/CAM and TCP Programming. Tool lengths are stored into the Fagor's Tool Offset Table.

LATHE OPTION

This option features a removable horizontal 6th axis (lathe) mounted to the table and includes either a 3-jaw or 4-jaw chuck.



POWER and AIR REQUIREMENTS

230 Volts, 60 Amps, 3 Phase, 60 Hz.
90 PSI, 5 CFM.



MACHINE BASE PRICE (5B5-5-18-48SCOLxx)	\$ 167,300.00
Features configured on the machine:	
(1) 11HP HSD, IS030 automatic tool change spindle	\$ 4,125.00
12-position traveling tool carousel	\$ 4,620.00
60" of Z-axis Clearance and 48" of Z-axis Stroke	\$ 4,290.00
8055M Upgrade (includes Turbo Card and Tool Center Point Comp)	\$ 3,520.00
Automatic Lubrication System to ways and lead screws	\$ 3,245.00
Heavy Duty 6 th Axis - Lathe Option to accommodate up to 2,000 lbs.....	\$ 15,100.00
Automatic Tool Height Setter	\$ 1,815.00
Handheld Teach Pendant	\$ 1,815.00
DMS Tooling Surface with 3/8" threaded inserts on 12" centers	\$ included
MACHINE CONFIGURED PRICE	\$ 205,830.00
SPECIAL DISCOUNTED MACHINE PRICE	\$ 199,000.00

NOTE: Pricing does not include any Federal, State or Local taxes

INSTALLATION Installation and training is recommended with the purchase of any new DMS CNC Router. GP Industries is happy to propose these services on the basis of each individual customer's needs. See the final page of this proposal for standard installation proposal.

WARRANTY
1 year - parts and workmanship