

**MACHINE SPECIFICATIONS**  
**DYNA DM2418**

**TRAVEL**

X axis travel	24"	610.0mm
Y axis travel	18"	455.0mm
Z axis travel	20"	510.0mm

**AXIS POSITIONING SPEED**

Rapid X, Y	720"/min.	18m/min.
Z	600"/min.	15m/min.
Jog/Feedrate	0.04"-0.394"/min.	1-10,000mm/mn.
Axis Motor	Digital Brushless w/Encoder Feedback	

**RESOLUTION**

0.00004"	0.001mm
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**POSITIONING ACCURACY**

±0.0002"/total	0.005mm
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**REPEATABILITY**

±0.00008"	0.002mm
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**BORING ROUNDNESS**

±0.0002"	0.005mm
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**TABLE**

Table size	17.71" x 30.7"	450mm x 780mm
T - slots	3 on 3.93"	3 on 100mm
T - slots size	0.7"	18mm
Height above floor	31.70"	805mm
Max. table load evenly distributed	1430lbs	650kgs

**SPINDLE WORKING AREA**

Spindle nose to table	3.94"-24.00"	100-610mm
Spindle center to column	17.71"	450 mm

**SPINDLE**

Spindle drive	7.5 Hp high torque	5.5 kW
Spindle drive 15 minute rating	10 Hp	7.5 kW
Spindle speed range	60 - 6,000 rpm (standard) 60 - 10,000 rpm (optional)	
Spindle speed control	Direct Command	
Spindle taper	ISO # 40	
Spindle orientation	Electric	

**AUTOMATIC TOOL CHANGER**

Magazine capacity	16 Tools	
Tool selection	Bi-directional/Random	
Max. tool diameter	3.15"	80mm
Max. tool length	9.84"	250mm

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Max. Tool weight	7 lbs	15.4 kg
Tool change time	6 seconds	

**SPACE, WEIGHT AND CONSTRUCTION**

Floor area (L x W)	75" x 84"	1.91m x 2.14m
Height	98"	2.49m
Machine weight	8,195lbs.	3.725kgs
Meehanite casting		
Bed type with rigid X, Y axes linear guided way and Z axis box way construction.		
Fully enclosed chip & Coolant guard		

**POWER REQUIREMENTS**

Voltage	400 volts, 3 phase, 50 Hz
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**STANDARD EQUIPMENT**

- Built in automatic lubrication system
- Built in coolant system
- Rigid tapping cycle (Synchronized tapping)
- DNC function
- Work light
- Clamping kit
- Operating and Programming manuals
- Tool box

**WARRANTY: (DYNA Controller and Machine)**

12 months/2,000 hours factory warranty on control machine parts from completion of the installation or 13 months from notification that the machine is ready for delivery.

# MACHINE SPECIFICATIONS

## DYNA DM2418

### DYNA CONTROL SPECIFICATIONS

* Operation system	PC based multi-tasking
* Control axis	5 Axes (include spindle)
* Simultaneously control axis	5 Axes (include spindle)
* NC program memory	1,000 M Byte
* Single NC program size	within the total available NC program memory.
* Programming Language	G/M code, DYNA code or mixed
* Spindle function	Async/synch mode
* Built in PLC	256 I/O
* Display	10.4 inches Color LCD
* Controller type	Industrial PC controller

### GENERAL CONTROL FEATURES

* <b>Pentium</b> microprocessor	* Automatic offset conversion between inch and metric
* <b>FANUC</b> type program format	* On screen help
* Graphic trace	* Programming syntax checking
* Interpolation: linear, circular, helical, spiral	
* Mirror image and Figure Rotation	* User defined macro capability
* DNC (Direct Numerical Control)	* Background editing
* Tool life management	* Tool length/radius compensation
* Built-in PLC	* Built-in diagnostics

### OTHER FUNCTIONS

* User macro function	* 3D solid model verification
* Graphic help programming	* Mathematics calculation help w/trig function
* Manual pulse generator	* Machining data management
* Tool length probing function	* Hand wheel function
* Local point probing function	* System soft limit protection
* Backlash error compensation	* User soft limit protection
* Pitch error compensation	* RS-232 communications
* Impact compensation	* Tool life management
* Teach in digitizing function	* 3P local setup
* Program restart	* 3.5 disk driver
* Computer link for FMS	* PLC/NC Synchronous function
* <b>Local Area Network</b> Function	* Rigid taping
* Multilingual LCD display	* Manual jog incremental or continuous