



Doosan Infracore  
Machine Tools

# HM 500 / 630 / 800

Heavy Duty Horizontal Machining Center

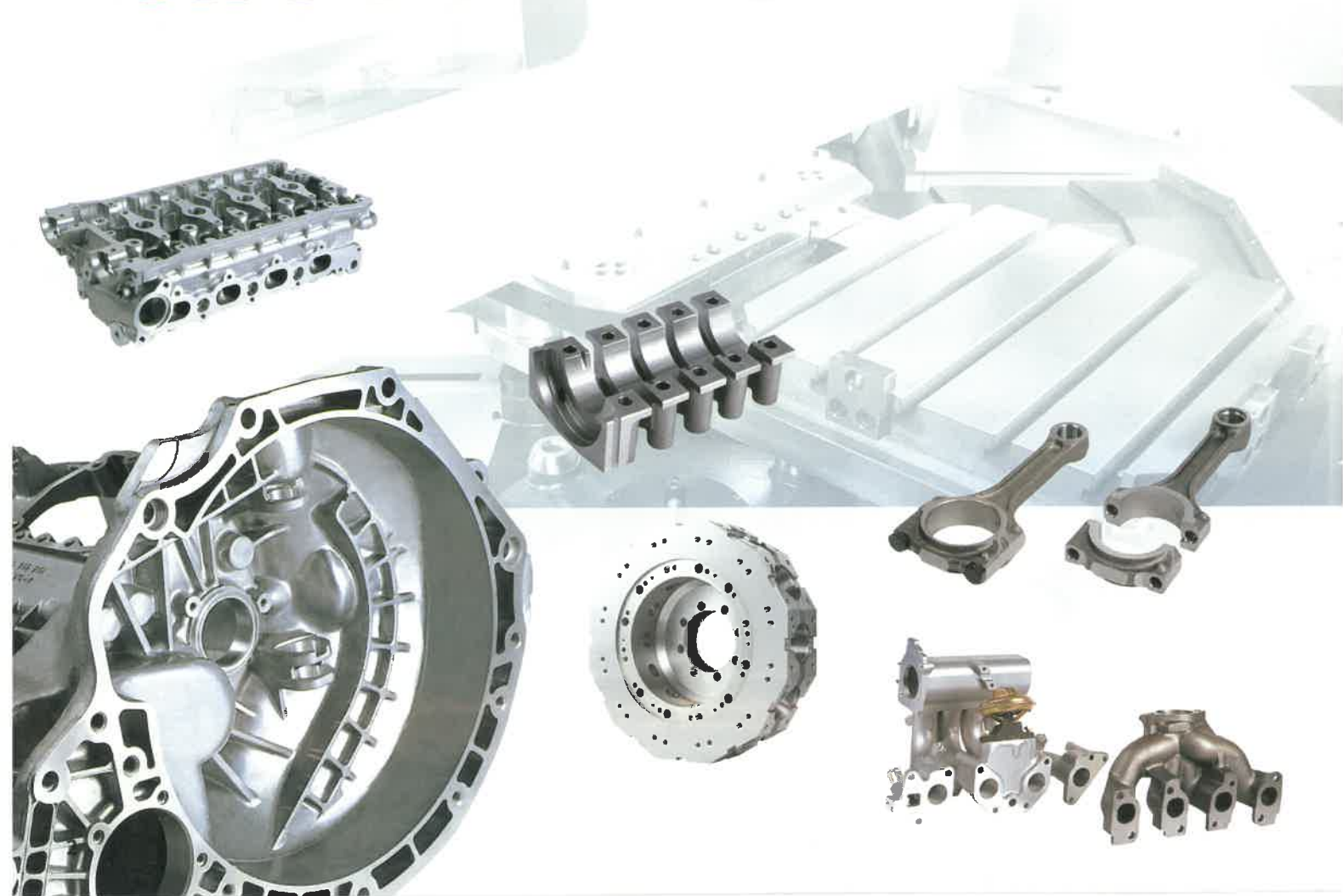


# Horizontal Machining Centers designed for heavy duty applications

The HM series combines a high torque spindle drive and powerful axis drives for a large chip removal rate.

The massive meehanite cast structure and wrap around box guideways provide the rigidity required for both heavy cutting and superb surface finishes.

## HM 500 / 630 / 800





# Spindle Head



The HM's heavy duty, 50 taper spindles are supported by four, permanently lubricated angular-contact spindle bearings, precision class P4. The bearings are assembled using a stepped sleeve system. This permits precise adjustment, and eliminates the possibility of assembly damage typical of lock nut systems. A powerful AC motor delivers power to the three-speed geared head, and provides high speeds and low-end torques for a broad range of applications. An encoder, attached to the spindle, allows rigid tapping in both high and low gear ranges.

## HM 500

Max. spindle speed

**6,000 rpm**

Motor (30min)

**25 Hp**

## HM 630 / 800

Max. spindle speed

**6,000 rpm**

Motor (30min)

**30 Hp**

## Oil cooler

The temperature of the hydraulic oil is regulated by a refrigerated cooling system. It maintains uniform controlled temperature required for high accuracy.

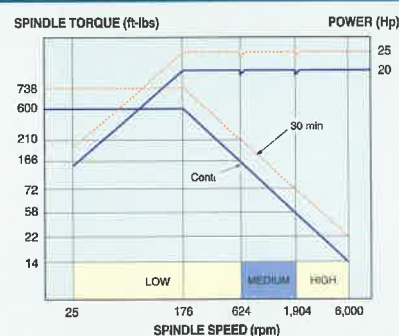


## Lubrication

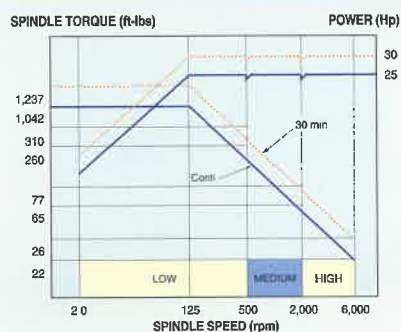
Automatic lubrication is provided to the guideways, ball screws and spindle gearbox. Way lubrication oil is delivered by piston distributors which precisely meter the volume of oil. A low-level alarm prevents the machine from restarting.

## Spindle Power-torque diagram

- Max. spindle speed : 6,000rpm (25 Hp)



- Max. spindle speed : 6,000rpm (30 Hp)





## Tool Magazine

Automatic tool changer

Tool change time

**2.5 sec. (T-T-T)**



Tool storage capacity

**60 tools**

**{Opt : 90/120/180/240}**

The ATC is composed of tool magazine and change arm. ATC is located separately from the machine in order to prevent adverse effects on accuracy due to vibration or other causes even when the ATC is operated during machining operation. The tools are selected by fixed address method that follows the shorter path. The fixed pocket design automatically returns tools to their original magazine position. This reduces the chance of collision when oversized tooling is used. The bi-directional tool magazine takes the shortest path making loading quick and easy.

Maximum tool size



Max. tool diameter

**Ø 5.3 inch (Continuous)**

**Ø 9.8 inch**

**(Adjacent empty pockets)**

Max. tool length

**15.7 inch (HM 500)**

**21.7 inch (HM 630/800)**

Max. tool weight

**33 lbs (HM 500)**

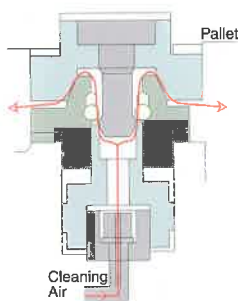
**55 lbs (HM 630/800)**

## Automatic Pallet Changer

HM500/630/800 machining center are equipped with rotary shuttle type APC (Automatic Pallet Changer) as a standard feature. It provides high reliability and wide working area for easy setup. Rotary shuttle APC provides faster changing time and easy adoption for automated system in small sized machine

### Pallet change time

**14 sec.** (HM500)    **25 sec.** (HM630)    **29 sec.** (HM800)



The possibility that chips might degrade the meshing accuracy of the pallet positioning mechanism increases at higher machining speeds. On all HM machines strong jets of air are discharged from the tapered cones when a pallet is changed to clean any chips from the cones and assure accurate pallet positioning.

### Maximum workpiece size



|                             | HM500           | HM630           | HM800           |
|-----------------------------|-----------------|-----------------|-----------------|
| Pallet size (inch)          | 19.7 × 19.7     | 24.8 × 24.8     | 31.5 × 31.5     |
| Max. workpiece size (inch)  | ø 31.5 × H 31.5 | ø 39.4 × H 39.4 | ø 51.6 × H 47.2 |
| Max. workpiece weight (lbs) | 1,764           | 2,640           | 3,520           |

### Table



Minimum table indexing angle **1°**

### Table indexing time (0→90°)

HM 500 **2.2 sec.**  
 HM 630 **3.7 sec.**  
 HM 800 **3.9 sec.**



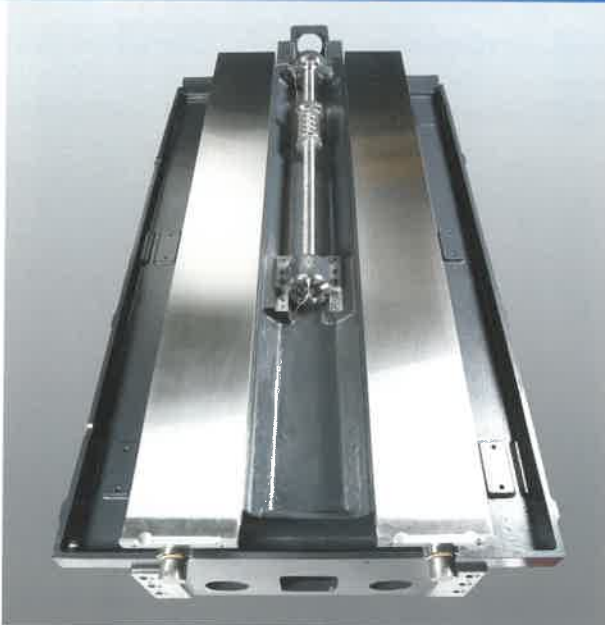
## Bed and Column

### ■ Rigid Cast Iron Construction

The rigid bed and column castings are made of heavily ribbed Fine-grained Meehanite casting iron offering improved vibration dampening properties. The oversized box guideways provide a solid platform and the ability to withstand extreme cutting forces and provide excellent surface finishes in heavy duty applications.



## Guideways and Axis Drives



Box guideways provide the ability to withstand extreme cutting forces.

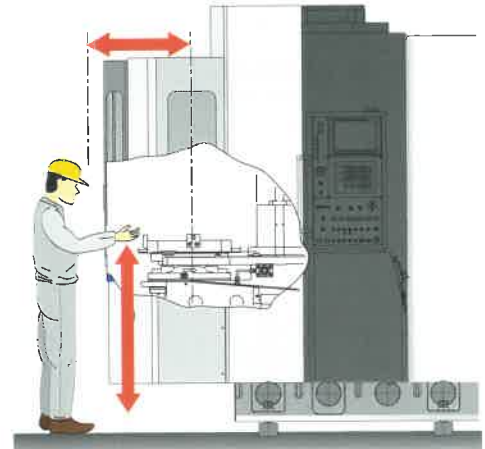
**X / Y / Z**  
**Rapid traverse 945 ipm**



Doosan Infracore HM Series machining centers with oversized AC servo drives power through the toughest cuts in the toughest metal. The high torque servos are coupled directly to the ball screws. With no gears there is no risk of backlash or servo drag. The X and Z axes ball screws are center mounted, pretensioned and supported on both ends by high precision angular contact thrust bearings. This pretension design provides outstanding positioning repeatability with minimize thermal growth. In the event of a sudden impact, a flexible coupling on each axis flexes and absorbs the shock.

## Ergonomic Design

### Easy setup



Portable MPG

Swivelling operator's panel

Distance to table

Height to table

**21 inch**  
(HM500)

**48 inch**  
(HM500)

**22 inch**  
(HM630)

**49 inch**  
(HM630)

**31 inch**  
(HM800)

**49 inch**  
(HM800)

## Fixture Interface (opt.)

### Fixture check list (for hydraulic/pneumatic fixtures)

#### Number of Ports

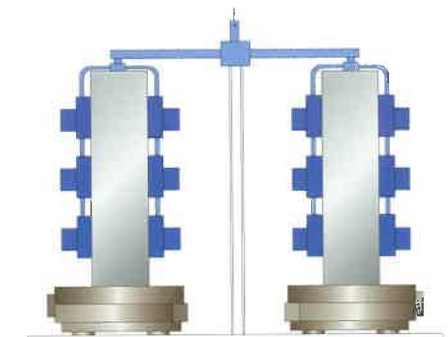
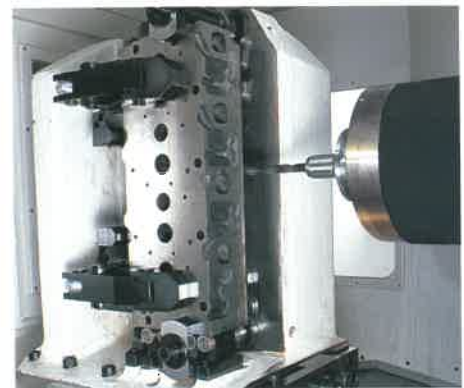
- ☐ 2\*<sup>1</sup> × 2\*<sup>2</sup> Line
- ☐ 2\*<sup>1</sup> × 3\*<sup>2</sup> Line
- ☐ 2\*<sup>1</sup> × 4\*<sup>2</sup> Line
- ☐ 2\*<sup>1</sup> × 6\*<sup>2</sup> Line

\*<sup>1</sup> : Pallet No. 1 and No. 2  
(Number of Pallet)

\*<sup>2</sup> : Number of port line

#### Hydraulic power unit

Special requirement  
\_\_\_\_\_ lpm at \_\_\_\_\_ Mpa



Contact Doosan for more information



## Chip Removal

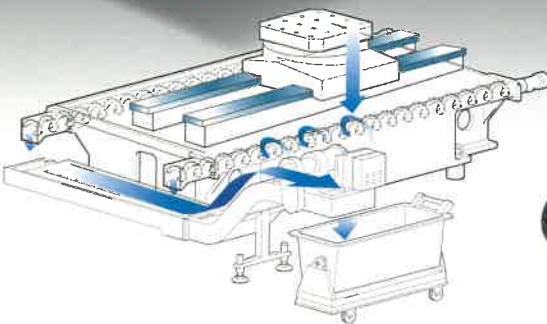


Separate chip conveyor and coolant tank provide easy cleaning and maintenance. The completely enclosed HM series virtually guarantees the confinement of chips and coolant to the inside of the machining area. Screw conveyors clearly remove the chips out of the machine.

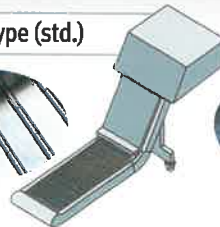
### Chip Conveyor

|                  | Steel                                                                             | Cast                                                                               | Aluminum and nonferrous metals                                                      | Compound                                                                            |
|------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Specifications   |  |  |  |  |
| Hinge type       | ○                                                                                 | ×                                                                                  | ×                                                                                   | ×                                                                                   |
| Scraper type     | ×                                                                                 | ○                                                                                  | △                                                                                   | ○                                                                                   |
| Drum filter type | ○                                                                                 | ○                                                                                  | ○                                                                                   | ○                                                                                   |

- : Available    × : Unavailable    △ : Asking for information
- Some types of chips may not be completely removed from the chip conveyor.
- Contact Doosan for more information.



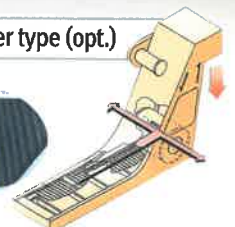
Hinge type (std.)



Scraper type (opt.)



Drum filter type (opt.)



## Coolant System

Through the Spindle (std.)



Flood coolant (std.)



Minimum Qty. Lubrication (opt.)



Shower coolant (opt.)



Oil mist collector (opt.)



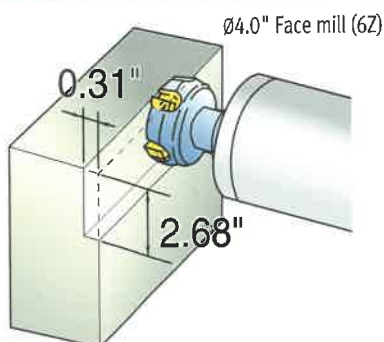
Coolant gun (opt.)



# Cutting Performance

## HM 500

**Face mill** Carbon steel (SM45C)



Machining rate

**31 in<sup>3</sup>/min**

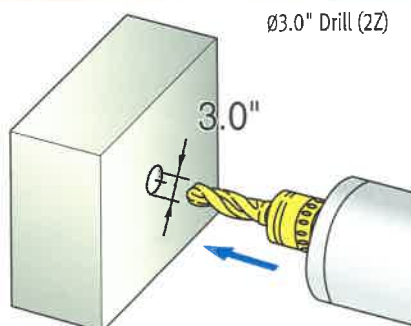
Spindle speed

**624 rpm**

Feedrate

**37 in/min**

**Drill** Gray casting (GC25)



Machining rate

**6.5 in<sup>3</sup>/min**

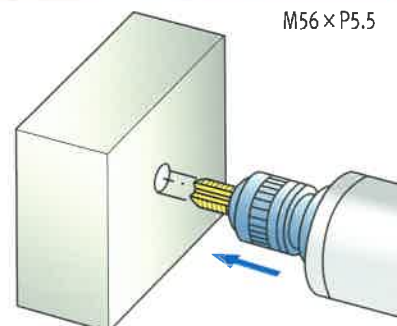
Spindle speed

**1,825 rpm**

Feedrate

**5.4 in/min**

**Tap** Gray casting (GC25)



Tool

**M56 x P5.5**

Spindle speed

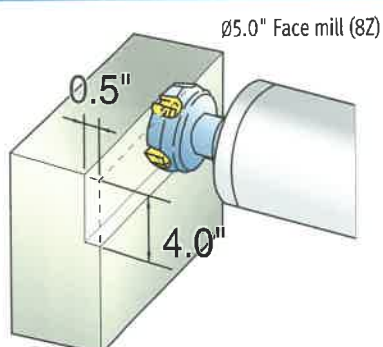
**180 rpm**

Feedrate

**39 in/min**

## HM 630 / 800

**Face mill** Carbon steel (SM45C)



Machining rate

**80 in<sup>3</sup>/min**

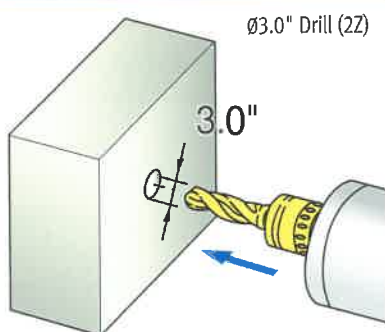
Spindle speed

**1,200 rpm**

Feedrate

**40 in/min**

**Drill** Gray casting (GC25)



Machining rate

**29.3 in<sup>3</sup>/min**

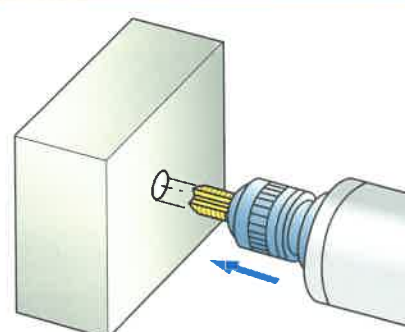
Spindle speed

**320 rpm**

Feedrate

**12 in/min**

**Tap** Carbon steel (SM45C)



Tool

**M56 x P5.5**

Spindle speed

**120 rpm**

Feedrate

**26 in/min**

# Flexible Multi Pallet System

- High Productivity
- Flexible production solutions
- Increased efficiency
- Compact designed
- Easy to extend stations
  - HM500 : 7, 9, 11, 13st.
  - HM630 : 6, 8, 10, 12st.
  - HM800 : 6, 8, 10st.

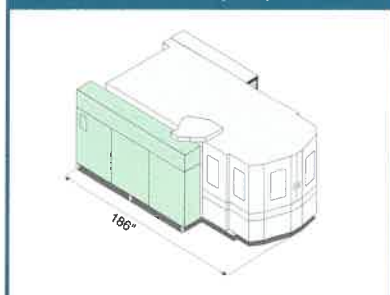


■ 7-Station Round Type  
Multi Pallet Magazine

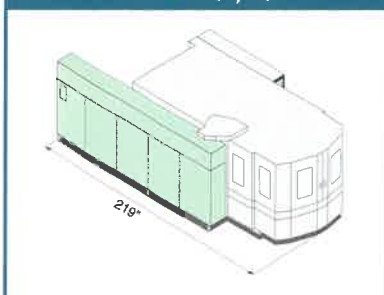
## Tool magazine

Numerous Variations to meet production efficiency needs.

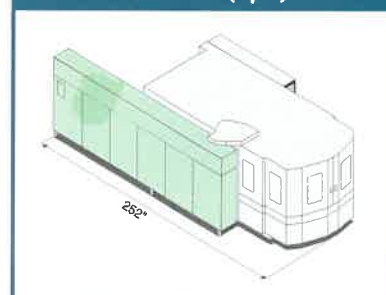
60-tool (std.)



90-tool (opt.)



120-tool (opt.)

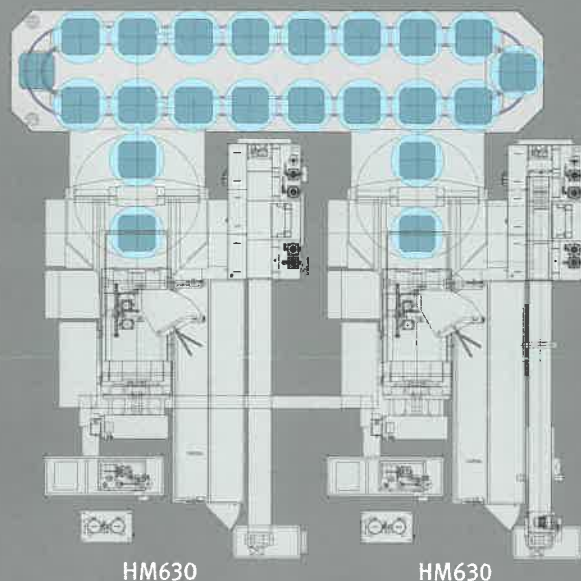


The dimension is HM500

## Application of multi pallet system

|                                |                |
|--------------------------------|----------------|
| Name                           | HM630 (2 sets) |
| Number of Setup Station        | 1              |
| Storage Capacity (24.8 × 24.8) | 17 station     |

Application technology of Multi-pallet system is the best solution for the high productivity in the machining shop.



unit : inch

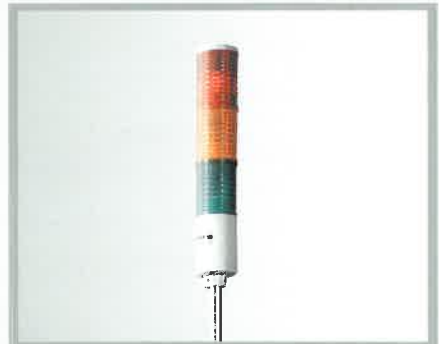


## Standard Features

HM 500 / 630 / 800



Oil cooler & Hyd. unit



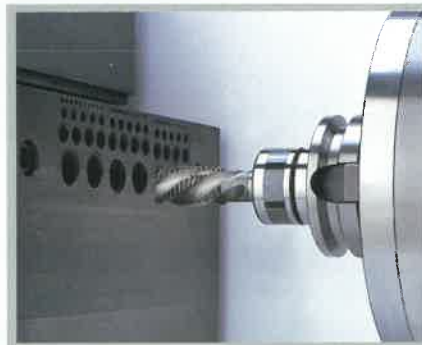
Operator call lamp (red/yellow/green)



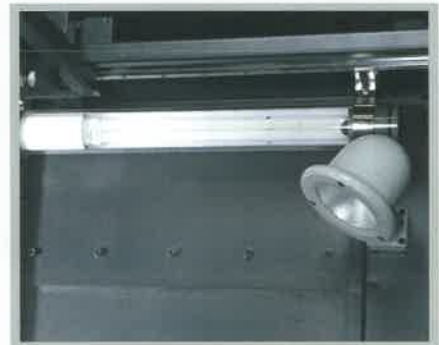
FANUC 18i-M controller



Portable MPG



Rigid tapping



Work light



Chip conveyor



T-slot pallet

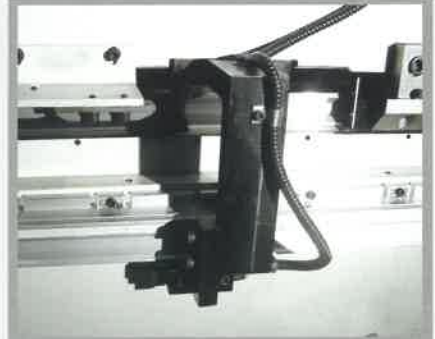
## Optional Equipment



Multi pallet system



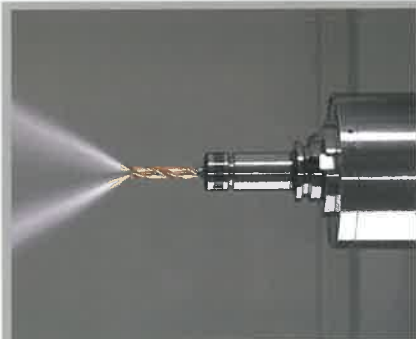
90/120/180/240 Tools



Linear scale feedback system



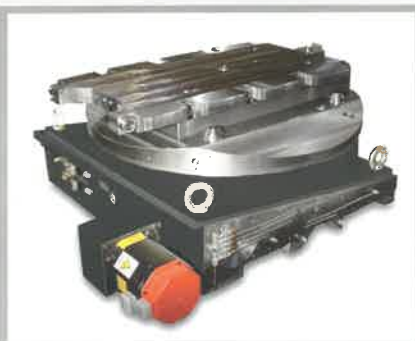
Shower coolant



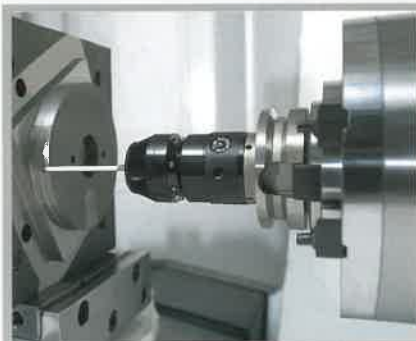
High pressure coolant system



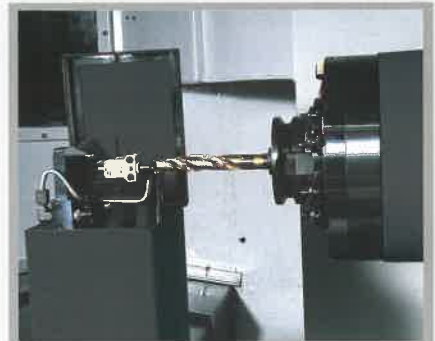
FMS



Built in Rotary Table (0.001°)



Automatic measuring system



Automatic tool length measurement with sensor

- Air gun
- Automatic door for APC guard
- Automatic power off
- CE certification

- Hydraulic line for fixture
- Oil skimmer
- Test bar
- Tool monitoring system

## Optional Control Features



## Tool Monitoring System (opt.)

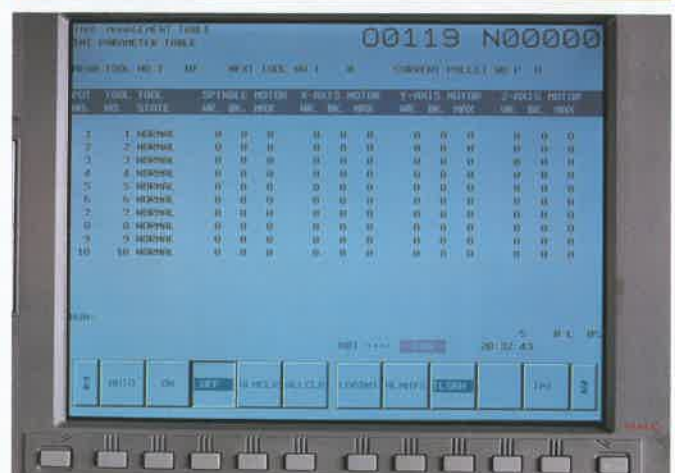
Tool Monitoring System is one of safety functions to protect Tool and Spindle against a possible damage of abnormal load caused by tool wear and breakage or others. This system monitors the tool status during machine operation by detecting the abnormal load of each axis and spindle.

### Tool load monitoring system



- The screen shows a tool and pallet No., load meter of each axis and spindle limit load.

### Tool management function



- This functions consisted of tool pre-check function, substitutive tool selection with tool life management and different tool & port number command function.



# EZ Guide i (opt.)

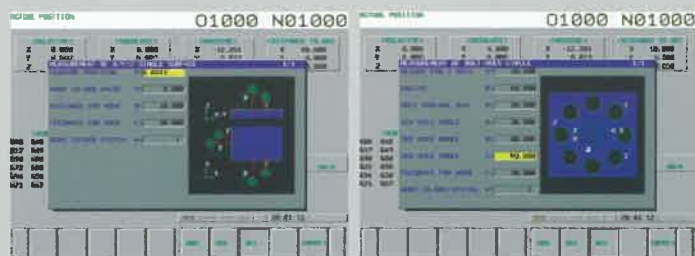


## Standard Features

- High compact CNC is realized through LCD display with integrated CNC and a flash memory card interface is standard features.
- Provides many support functions for set-ups, such as tool measurement, workpiece measurement at the original point, and workpiece measurement inside the machine.
- Uses one display screen to perform all operations including programming, checking by animation, and real machining.
- User-Friendly Operation : Soft key Selection of Comprehensive Cycle Library

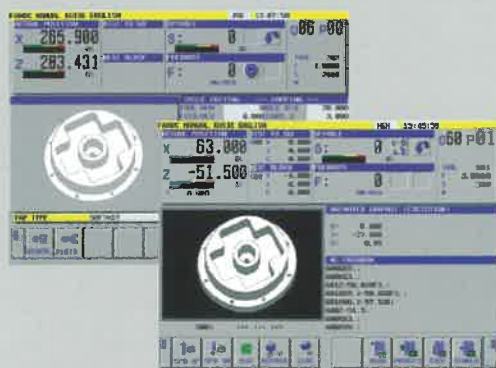
## Machining preparation guide

In preparation for machining, simple instructions on a selected screen allow to measure the setting error of workpiece and tool offset value for automated adjustment.



## Easy operation

One single screen provides handy operation guidance for programming through machine operation.



- For machining center, turning center and compound machine with milling and turning.
- Solid modeling provides high speed animation. (TFT-LCD Color Only)
- Icon menu soft-keys provide convenient programming for sophisticated milling and turning.
- Measurement cycles provide automatic offset measurement of workpiece (Available for machining center and for compound machine).

## Machining condition selection

One single screen provides convenient operation & parameter setting for high speed and high precision machining instructions.



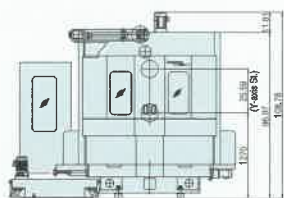
- Registration of parameter sets for high speed machining and/or for high precision machining with machine configurations.
- Instruction of precision level for desired machining selects appropriate parameters automatically.
- Precision level can be instructed through NC program.

## External Dimensions

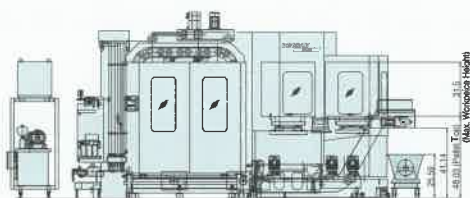
unit : inch

## HM 500

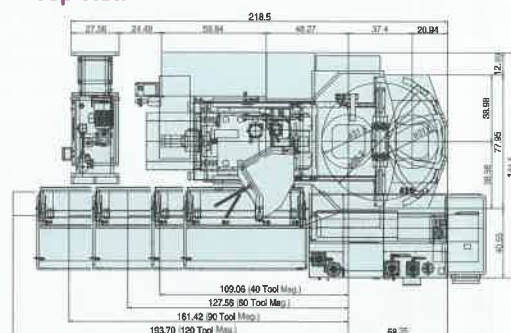
### Front View



### Side View

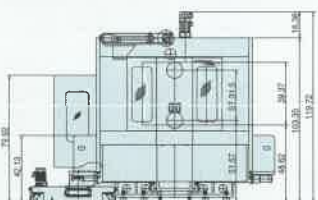


### Top View

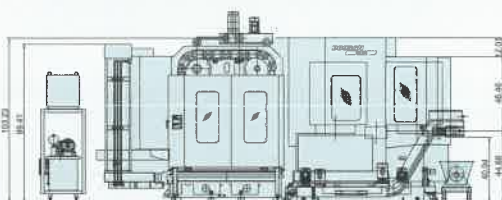


## HM 630

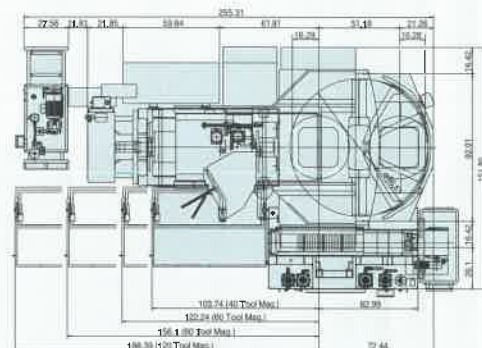
### Front View



### Side View

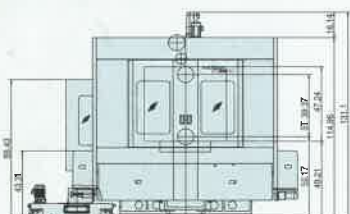


### Top View

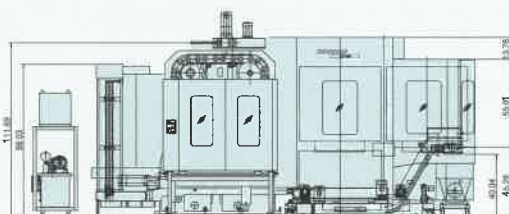


## HM 800

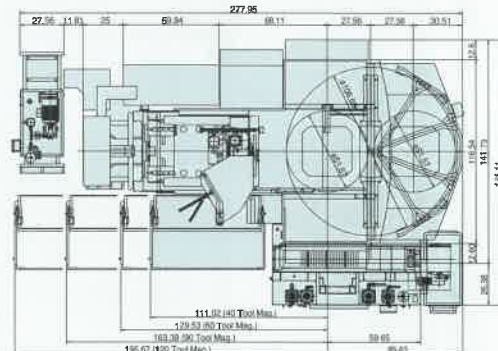
### Front View



### Side View



### Top View







# Machine Specifications

| Descriptions             |                                                 |         | HM 500                    | HM 630        | HM 800                |
|--------------------------|-------------------------------------------------|---------|---------------------------|---------------|-----------------------|
| Travel                   | X-axis (longitudinal movement of table)         | in.     | 31.5                      | 39.4          | 49.2                  |
|                          | Y-axis (head vertical)                          | in.     | 25.6                      | 31.5          | 39.4                  |
|                          | Z-axis (column cross)                           | in.     | 25.6                      | 33.5          | 39.4                  |
|                          | Distance from table center to spindle gage line | in.     | 5.9 ~ 31.5                | 5.9 ~ 39.4    | 7.9 ~ 47.2            |
|                          | Distance from table surface to spindle center   | in.     | 2 ~ 27.6                  | 3 ~ 34.4      | 3 ~ 42.3              |
| Table                    | Pallet type                                     |         | T-slot                    |               |                       |
|                          | Indexing degree                                 |         | 1° {0.001°}               |               |                       |
|                          | Table loading capacity                          | lbs     | 1,764                     | 2,640         | 3,520                 |
|                          | Pallet size                                     | in.     | 19.7 × 19.7               | 24.8 × 24.8   | 31.5 × 31.5           |
| Spindle                  | Max. spindle speed                              | rpm     | 6,000                     |               |                       |
|                          | Spindle taper                                   |         | ISO#50, 7/24 Taper        |               |                       |
|                          | Max.spindle torque                              | ft-lbs  | 738                       | 1,237         |                       |
| Feedrate                 | Rapid traverse rate (X / Y / Z)                 | ipm     | 945 / 945 / 945           |               |                       |
|                          | Cutting feedrate                                | ipm     | 472                       |               |                       |
| Automatic tool changer   | Type of tool shank                              |         | CAT50                     |               |                       |
|                          | Tool storage capacity                           |         | 60 {90 / 120 / 180 / 240} |               |                       |
|                          | Max. tool diameter                              | in.     | 5.3                       |               |                       |
|                          | Max. tool diameter without adjacent tools       | in.     | 9.8                       |               |                       |
|                          | Max. tool length                                | in.     | 15.7                      | 21.7          |                       |
|                          | Max. tool weight                                | lbs     | 33                        | 55            |                       |
|                          | Method of tool selection                        |         | Fixed addressed           |               |                       |
|                          | Tool changing time (tool-to-tool)               | sec     | 2.5                       |               |                       |
|                          | Tool changing time (chip-to-chip)               | sec     | 8                         | 8.5           | 9                     |
| Automatic pallet changer | Type                                            |         | Rotary shuttle            |               |                       |
|                          | Pallet change time                              | sec     | 14                        | 25            | 29                    |
|                          | Pallet rotation in loading station              |         | 90° index                 |               |                       |
|                          | Number of pallets                               | EA      | 2                         |               |                       |
| Motor                    | Spindle drive motor (30 min.)                   | Hp      | 25                        | 30            |                       |
|                          | Feed motor (X / Y / Z / B)                      | Hp      | 2.8 / 5 / 5 / 1.9         | 5.1 / 6 / 2.8 | 5.1 / 6.7 / 6.7 / 2.8 |
| Power source             | Electrical power supply                         | kVA     | 50                        | 65            |                       |
|                          | Compressed air supply                           | psi     | 80                        |               |                       |
| Tank capacity            | Coolant tank capacity                           | gallons | 145                       |               |                       |
|                          | Lubrication tank capacity                       | gallons | 1.5                       |               |                       |
| Machine size             | Machine height                                  | in.     | 109                       | 120           | 131.1                 |
|                          | Floor space                                     | in.     | 132 × 218                 | 152 × 255     | 162 × 278             |
|                          | Machine weight                                  | lbs     | 29,700                    | 39,600        | 44,000                |
| Accuracy                 | Positioning accuracy                            | in.     | ±0.0002 / full stroke     |               |                       |
|                          | Repeatability                                   | in.     | ±0.00008                  |               |                       |

Note : Dimensions in { } are optional.

• Design and specifications are subject to change without notice.

# NC Unit Specifications (Fanuc 18i-M)

## AXES CONTROL

|                                                                                 |                                                         |
|---------------------------------------------------------------------------------|---------------------------------------------------------|
| - Controlled axes                                                               | 4 (X,Y,Z,B)                                             |
| - Simultaneously controllable axes                                              |                                                         |
| - Positioning (G00) / Linear interpolation (G01) :                              | 3 axes                                                  |
| - Circular interpolation (G02, G03) :                                           | 2 axes                                                  |
| - Backlash compensation                                                         |                                                         |
| - Emergency stop / overtravel                                                   |                                                         |
| - Follow up                                                                     |                                                         |
| - Least command increment :                                                     | 0.0001"                                                 |
| - Least input increment :                                                       | 0.0001"                                                 |
| - Machine lock                                                                  | all axes / Z axis                                       |
| - Mirror image                                                                  | Reverse axis movement (setting screen and M - function) |
| - Stored pitch error compensation Pitch error offset compensation for each axis |                                                         |
| - Stored stroke check 1                                                         | Overtravel controlled by software                       |

## INTERPOLATION & FEED FUNCTION

|                                      |                                |
|--------------------------------------|--------------------------------|
| - 2nd reference point return         | G30                            |
| - Circular interpolation             | G02, G03                       |
| - Dwell                              | G04                            |
| - Exact stop check                   | G09, G61(mode)                 |
| - Feed per minute                    | in / min                       |
| - Feedrate override (10% increments) | 0 - 200%                       |
| - Jog override (10% increments)      | 0 - 200%                       |
| - Linear interpolation               | G01                            |
| - Manual handle feed(1 unit)         |                                |
| - Manual handle feedrate             | 0.01/0.001/0.0001"             |
| - Override cancel                    | M48 / M49                      |
| - Positioning                        | G00                            |
| - Rapid traverse override            | F0 (fine feed), 25 / 50 / 100% |
| - Reference point return             | G27, G28, G29                  |
| - Skip function                      | G31                            |

## SPINDLE & M-CODE FUNCTION

|                                           |            |
|-------------------------------------------|------------|
| - M- code function                        | M 3 digits |
| - Spindle orientation                     |            |
| - Spindle serial output                   |            |
| - Spindle speed command                   | S5 digits  |
| - Spindle speed override (10% increments) | 10 - 150%  |

## TOOL FUNCTION

|                                                                          |               |
|--------------------------------------------------------------------------|---------------|
| - Cutter compensation C                                                  | G40, G41, G42 |
| - Number of tool offsets                                                 | 99 EA         |
| - Tool length compensation                                               | G43, G44, G49 |
| - Tool number command                                                    | T3 digits     |
| - Tool offset memory C Geometry / Wear and Length / Radius offset memory |               |

## PROGRAMMING & EDITING FUNCTION

|                                                                               |                               |
|-------------------------------------------------------------------------------|-------------------------------|
| - Absolute / Incremental programming                                          | G90 / G 91                    |
| - Auto. Coordinate system setting                                             |                               |
| - Background editing                                                          |                               |
| - Canned cycle                                                                | G73, G74, G76, G80 - G89, G99 |
| - Circular interpolation by radius programming                                |                               |
| - Custom macro B                                                              |                               |
| - Decimal point input                                                         |                               |
| - Extended part program editing                                               |                               |
| - Helical interpolation                                                       |                               |
| - I / O interface                                                             | RS - 232C                     |
| - Inch / metric conversion                                                    | G20 / G21                     |
| - Label skip                                                                  |                               |
| - Local / Machine coordinate system                                           | G52 / G53                     |
| - Maximum commandable value                                                   | +99999.999mm (+9999.999 inch) |
| - No. of Registered programs                                                  | 125 EA                        |
| - Optional block skip                                                         |                               |
| - Optional stop                                                               | M01                           |
| - Part program storage                                                        | 2,100 ft.                     |
| - Program number                                                              | O4-digits                     |
| - Program protect                                                             |                               |
| - Program stop / end                                                          | M00 / M02,M30                 |
| - Programmable data input Tool offset and work offset are entered by G10, G11 |                               |
| - Rigid tapping                                                               | G84, G74                      |
| - Sub program                                                                 | Up to 4 nesting               |

|                          |                                    |
|--------------------------|------------------------------------|
| - Tape code              | ISO / EIA Automatic discrimination |
| - Thread cutting         |                                    |
| - Work coordinate system | G54 - G59                          |

## OTHERS FUNCTIONS (Operation, Setting & Display, etc)

|                                     |                                                     |
|-------------------------------------|-----------------------------------------------------|
| - Additional work coordinate system | G54.1 P1 - 48 ( 48 pairs)                           |
| - Alarm display                     |                                                     |
| - Alarm history display             |                                                     |
| - Clock function                    |                                                     |
| - Cycle start / Feed hold           |                                                     |
| - Display of PMC alarm message      | Message display when PMC alarm occurred             |
| - Dry run                           |                                                     |
| - Ethernet function(Embedded)       |                                                     |
| - Graphic display                   | Tool path drawing                                   |
| - Help function                     |                                                     |
| - Loadmeter display                 |                                                     |
| - MDI / DISPLAY unit                | 10.4" color LCD, Keyboard for data input, soft-keys |
| - Memory card interface             |                                                     |
| - Operation functions               | Tape / Memory / MDI / Manual                        |
| - Operation history display         |                                                     |
| - Program restart                   |                                                     |
| - Run hour and part number display  |                                                     |
| - Search function                   | Sequence NO. / Program NO.                          |
| - Self - diagnostic function        |                                                     |
| - Servo setting screen              |                                                     |
| - Single block                      |                                                     |

## OPTIONAL SPECIFICATIONS

|                                                                               |                            |
|-------------------------------------------------------------------------------|----------------------------|
| - 3-dimensional coordinate conversion                                         |                            |
| - 3-dimensional tool compensation                                             |                            |
| - 3rd / 4th reference return                                                  |                            |
| - Addition of tool pairs for tool life management                             | 128 / 512 pairs            |
| - Additional controlled axes                                                  | max. 6 axes in total       |
| - Additional work coordinate system                                           | G54.1 P1 - 300 (300 pairs) |
| - AI HPCC* (High Precision Contour Control) with 64 bit Risc600 block preview |                            |
| - Automatic corner override                                                   | G62                        |
| - Chopping function                                                           |                            |
| - Coordinate rotation                                                         | G68, G69                   |
| - Cylindrical interpolation                                                   | G07.1                      |
| - Tool monitoring system                                                      |                            |
| - Data server                                                                 |                            |
| - Dynamic graphic display                                                     | Machining profile drawing  |
| - Exponential interpolation                                                   |                            |
| - EZ Guide i (Conversational Programming Solution)                            |                            |
| - F15 tape format                                                             |                            |
| - Figure copying                                                              | G72.1, G72.2               |
| - Handle interruption                                                         |                            |
| - High speed skip function                                                    |                            |
| - Involute interpolation                                                      | G02.2, G03.2               |
| - Look ahead control                                                          | G08                        |
| - Machining time stamp function                                               |                            |
| - NANO AICC (AI Contour Control)                                              | 80 block preview           |
| - No. of Registered programs                                                  | 200 / 400 / 1,000 EA       |
| - Number of tool offsets                                                      | 200 / 400 / 499 / 999 EA   |
| - Optional angle chamfering / corner R                                        |                            |
| - Optional block skip addition                                                | 9 blocks                   |
| - Part program storage                                                        | 4,200 ft.                  |
| - Playback function                                                           |                            |
| - Polar coordinate command                                                    | G15 / G16                  |
| - Polar coordinate interpolation                                              | G12.1 / G13.1              |
| - Programmable mirror image                                                   | G50.1 / G51.1              |
| - Remote buffer                                                               |                            |
| - Scaling                                                                     | G50, G51                   |
| - Single direction positioning                                                | G60                        |
| - Stored stroke check 2 / 3                                                   |                            |
| - Tool life management                                                        |                            |
| - Tool position offset                                                        | G45 - G48                  |

**HM 500 / 630 / 800**

HM 500/630/800

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Design and specifications are subject to change without prior notice.

 DAI0711SP