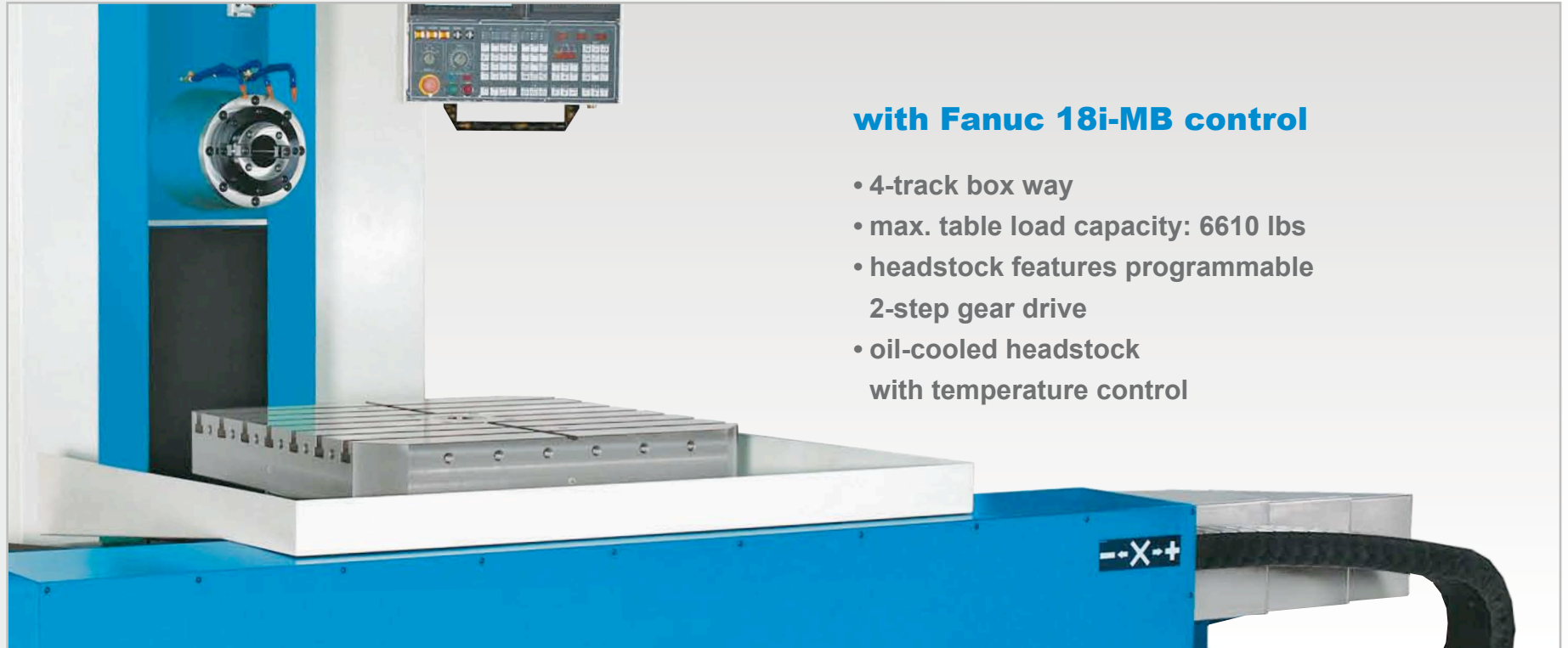




Horizontal CNC Drill Press/Milling Center

# HBZ 800



**with Fanuc 18i-MB control**

- 4-track box way
- max. table load capacity: 6610 lbs
- headstock features programmable 2-step gear drive
- oil-cooled headstock with temperature control

**HBZ 800**





## 60 tool stations and with 4-sided machining for large and complex parts - and for your competitive edge

### DESCRIPTION



Shown without enclosure

- heavy machine body with single-column design
- spindle speed range from 30 to 3000 rpm
- 4-track box way
- high-precision indexing work table with servo drive
- max. table load capacity: 6610 lbs
- headstock with programmable 2-step gearbox ensures powerful chip removal across the entire speed range
- powerful AC spindle motor, 20 / 25 Hp
  - oil-cooled headstock with temperatur control ensures optimum performance in demanding applications
  - flexible work space cover included with standard equipment
  - rapid feed speeds up to 591“ /min
  - large table for heavy parts up to 6610 lbs
  - oil-cooled high-speed spindle, up to 3000 rpm
  - automatic transmission for powerful chip removal

# HBZ 800



Fanuc 18i-MB  
[www.knuth.de](http://www.knuth.de)

[www.knuth-usa.com](http://www.knuth-usa.com)

| Specifications HBZ 800                |                                  |
|---------------------------------------|----------------------------------|
| control                               | Fanuc 18i-MB with Manual Guide i |
| <b>working area</b>                   |                                  |
| X axis travel                         | 79"                              |
| Y / Z axis travel                     | 47"                              |
| table dimensions                      | 32"x32"                          |
| table load capacity (max.)            | 6610 lbs                         |
| T-slots (qty x width x spacing)       | 7x0.87" H7                       |
| rotary table rotation speed           | 4 rpm                            |
| indexing                              | 1°                               |
| spindle axis-to-table distance        | 0"- 47"                          |
| spindle nose-to-table dist.           | 10.8"-58"                        |
| <b>headstock</b>                      |                                  |
| spindle speed                         | 30 - 3000 rpm                    |
| spindle mount                         | BT 50                            |
| draw bolts                            | MAS-P50T-1                       |
| <b>feed</b>                           |                                  |
| rapid feed X / Z axis                 | 588" /min                        |
| Y axis rapid feed                     | 468" /min                        |
| work feed X / Y / Z axis              | 1-236" /min                      |
| <b>tool changer</b>                   |                                  |
| number of tool stations               | 60 each                          |
| - tool changing time, tool/tool       | 13 sec                           |
| tool weight (max.)                    | 55 lbs                           |
| tool size Ø x L (max.)                | 5" x 15.75"                      |
| tool selection                        | bi-directional                   |
| <b>drive capacities</b>               |                                  |
| main drive motor rating (cont/30 min) | 20/25 Hp                         |
| motor rating for X / Y / Z axis drive | 9 Hp                             |
| motor rating B axis                   | 5 Hp                             |
| <b>dimensions and weight</b>          |                                  |
| dimensions                            | 193"x201"x128"                   |
| weight                                | 39,680 lbs                       |
| Part No.                              | 181 070                          |

| Standard Equipment                          |
|---|
| - Fanuc 18i-MB with Manual Guide 0i         |
| - oil-cooled headstock                      |
| - automatic central lubrication             |
| - coolant system                            |
| - spindle blow-out system                   |
| - heat exchanger system for control cabinet |
| - spiral chip conveyor                      |
| - electronic hand-wheel                     |
| - work lamp                                 |
| - RS-232 port                               |
| - operating tools                           |
| - setup feet and bolts                      |

| Training  |
|---|
| - free 1-day training in Wasbek                       |
| - incl. accommodations for 1 night in our guest house |





CNC Control

# Fanuc 18i-MB

## High Performance for Excellent Productivity



- Port for memory card is located at the LCD display
- RS-232 port
- Ethernet function
- 1024 KB storage for parts programs
- multiple languages
- 5-axis machining
- easy programming at shop-level
- fixed cycles for easy parts programming
- Acceleration and Deceleration tuning
- Anti-jerk control
- Accuracy compensation feature
- Axis mirroring

**We provide prompt and proficient support, when you need it.**

### A wealth of world-class functions in the Basis CNC ensures maximum productivity:

- DNC control via memory card or RS 232 interface
- Manual program intervention and return to operation
- Custom macro to extend existing or generate new fixed cycles
- Constant surface quality thanks to nano-interpolation
- Machining of NURB curves possible
- Look Ahead: Optimum acceleration and deceleration of machining speeds by pre-reading several blocks of the parts program
- process time and parts counter
- Graphic programming support Manual Guide 0i