



Endless Innovation



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High Accuracy. High Performance.

Introducing the most powerful ME-Series we ever design.

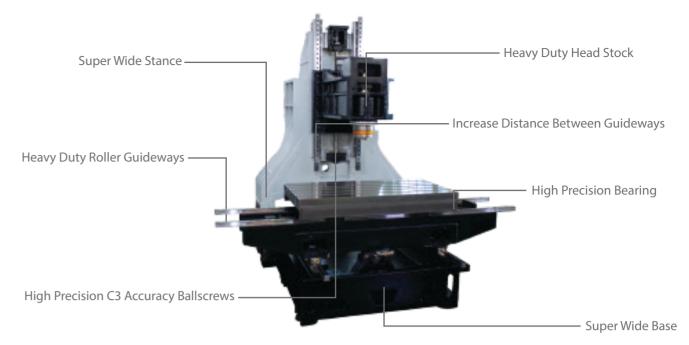


THE ULTIMATE ALL-ROUNDER.

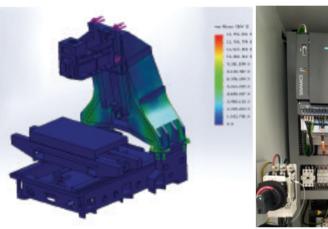
Every day presents different challenges. Luckily, the Maple ME-Series has what it takes to tackle just about anything: versatility. Its super wide base design provides great balance of the machine and opens up to create a platform capable of supporting up to 800 to 2000 kg. With high-end servo motors that are directly connected to the ball screw not one single ounce of power is lost during transmission.

Just as impressive as the ME-Series performs in mold production with innovative design and cutting-edge technologies make it also very suitable for parts production. In short: the Maple ME-Series has a clever solution for whatever challenge comes it ways.





Display 1060 machine body.



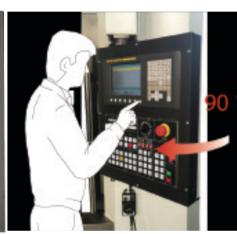
■ Designed with technology

ME-Series was designed with the most advance FEM analysis software on the market. We are able to test our design under many different stressed conditions. This gives us the ability to design the ME-Series machine to not only meet our customers requirements, but to surpass our customers needs. This gives the customer more value because of our design.



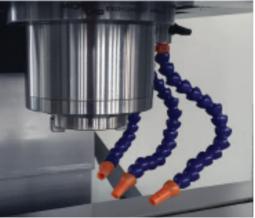
■ Separate is better

Many machines face overheating and noise from high voltage amps that are installed in the electronic cabinets. The ME-Series machine was designed to avoid all these problems. By separating all the high voltage from the low voltage parts the machine is able to reduce heat and noise from high voltage units affecting the low voltage units.



■ Swivel-type operation panel

The operation panel which can swivel from 0 degree to 90 degrees improves operability and visibility.



■ High-Capacity Cartridge Spindle

The advanced design of our spindles provides high axial- thrust capability, yet generates minimal heat. The spindle uses front and rear pre-load angular bearing with large spacer to enhance radial stability - enabling heavy cuts on steel. To ensure pro-long life of the spindle, high temperature grease is used to guarantee smooth operation of the spindle regardless of operation temperature.



■ High Speed Tool Changer

Without a tool changer the machine cannot operate at its fully automatic potential. That is why the ME-Series uses nothing but the most high quality tool changer on the market. With a 1.8 second tool change time it is one of the fastest performing tool change on the market.



A direct connect servo motor with a brake has been added.

The Z-axis motor is equipped with internal brakes. This means the headstock will not lower by itself. Direct connect motor helps reduce back lash and helps create a better responding machine.



Using the expertise honed over 30 years, the ME-Series is designed to carve through any material it meets-without sacrificing accuracy or finish along the way.



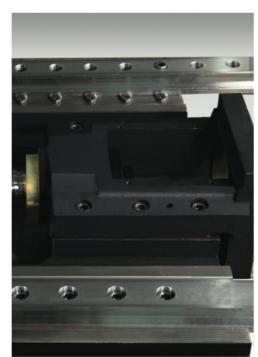
Always in control

We equipped our machine with the most powerful controller on the market. This gives the machine more high speed capability and increase productivity.



Strength in the right places

The ME-Series is designed with larger guideways and more slide blocks compare to other machines in the market. We believe by designing the machine with more then what is needed. The machine is able to cut faster, harder, and have more durability then other machines.



The little things that matter

The most important parts of the machine are the little things that no one ever ask about. With the ME-Series we looked at the little things and made sure it was up to the task. With larger and more bearings per-axis, we were able to give the machine more axis force which enables the machine to have more drilling ability, heavier cutting ability and more smoothness during corning.

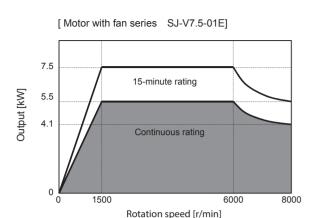


ME-1060/1260/1270 Siemens-Drive Optional

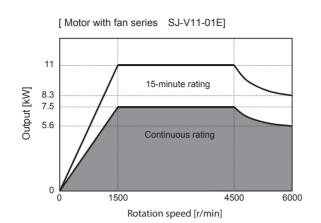
ME-1370/1470/1670/1690/1890/1611/1811/2012 Siemens-Drive



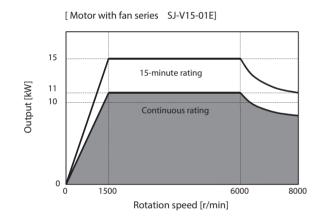




ME-1060/1260/1270 Mitsubishi-Drive

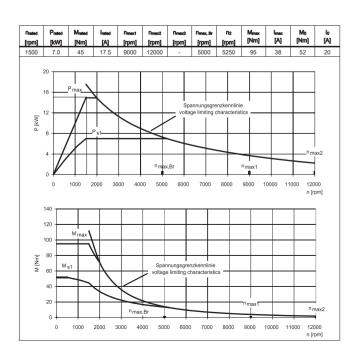


ME-1370/1470/1670/1690/1890/1611/1811/2012 Mitsubishi-Drive

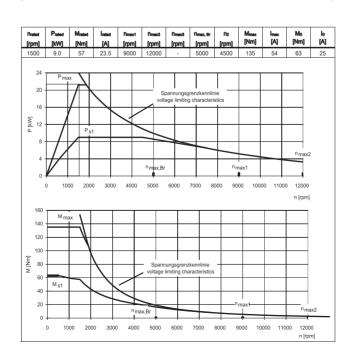


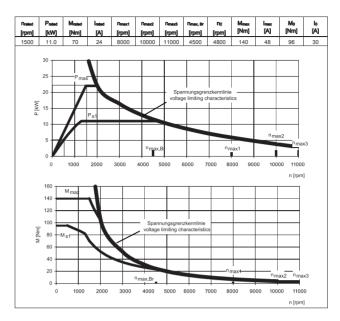
Performance Diagrams-Siemens

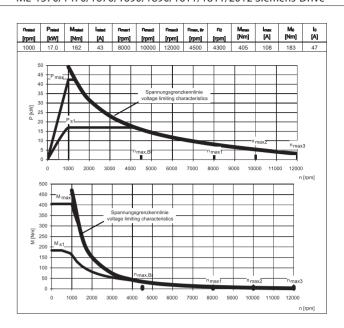
ME-655/855/1055 Siemens-Drive



ME-1060/1260/1270 Siemens-Drive





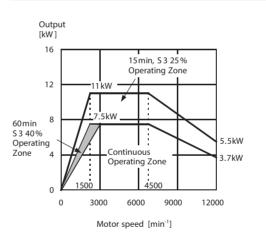


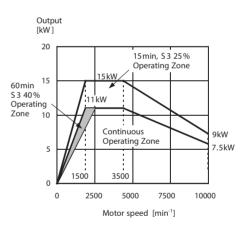
Performance Diagrams-Fanuc

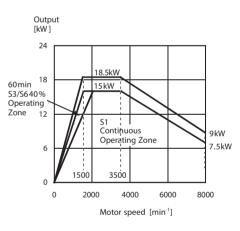
ME-655/855/1055 Fanuc-Drive

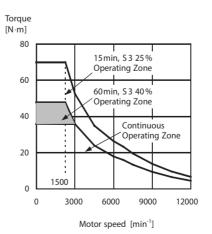
ME-1060/1260/1270/1370/1470/1670 Fanuc-Drive

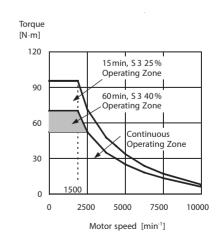
ME-1690/1890/1611/1811/2012 Fanuc-Drive

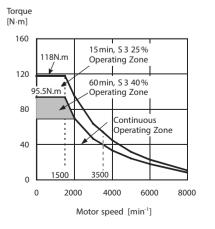












Options

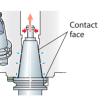
Two-face contact specifications

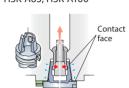
power and improves the machining precision.

Through-spindle coolant system

The through-spindle coolant system effectively eliminates chips, cooling the machine point, and lengthening the lives of your tools.

BT40 *. BT50 *









Coolant Pressure:

- 2 mpa
- 3 mpa - 5 mpa
- 7 mpa
- * When the two-face contact specification is selected, a two-face contact tool and other tools cannot

Tool rigidity has been improved by contact of both the spindle taper and the tool flange. This extends the useful life of a tool, raises cutting

* The colors and configurations shown in the photographs or illustrations may differe from

Linear Scale

OPTION

The absolute glass linear scale (full closed-loop control) made by HEIDENHAIN is effective for high-precision positioning, and is available as an option.



- High accuracy, high resolution
- Greater accuracy than standard machines
- Highly resistant to condensation and oil
- Vibration and impact resistant characteristics

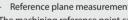
Workpiece measurement function OPTION

In-machine measuring system (spindle) Optical type touch sensor

In-machine measuring system (spindle)

Inductive type touch sensor

Work setter function (manual measurement application)







applying the sensor. - Coordinate rotation measurement

Machining can be done without changing the program even if the workpiece is attached crookedly, simply by performing this operation within the X-axis and Y-axis plane.



Tool measurement function OPTION

In-machine measuring system (table) Touch sensor (tool length)

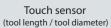


Tool setter function (manual measurement application)

The tool length value can be registered automatically to the designated tool offset umber .



In-machine measuring system (table)



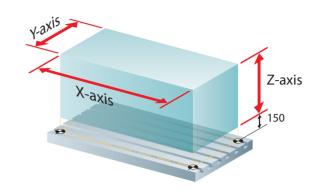
Tool length measurement

The tool length value can be registered automatically to the designated tool offset number



Work Piece Size

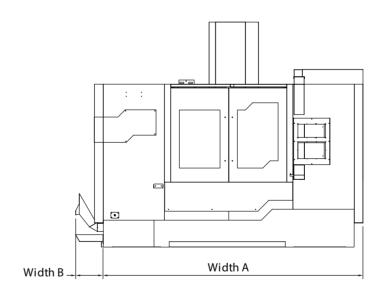
ME-Series

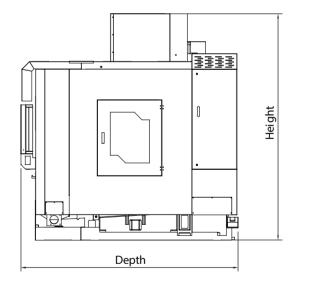


	Units	ME-655	ME-855	ME-1055	ME-1060	ME-1260	ME-1270	ME-1370	ME-1470	ME-1670	ME-1690	ME-1890	ME-1611	ME-1811	ME-2012
X-Axi	s mm	650	850	1000	1000	1200	1200	1300	1400	1600	1600	1800	1600	1800	2000
Y-Axi	s mm	550	550	550	620	600	720	720	720	720	900	900	1100	1100	1200
Z-Axi	s mm	550	550	550	600	600	700	700	700	700	800	800	900	900	860

Floor Plans

ME-Series





Units ME-655 ME-855 ME-1055 ME-1060 ME-1260 ME-1270 ME-1370 ME-1470 ME-1670 ME-1690 ME-1890 ME-1611 ME-1811 ME-2012

Width A	mm	2710	2710	2930	3300	3200	3300	4000	4000	4100	4100	4200	4100	4200	5700
Width B	mm	300	300	330	300	300	300	300	300	300	300	300	300	300	300
Depth	mm	2400	2400	2420	2620	2620	2620	2750	2750	2800	2800	2850	3500	3500	3900
Height Min	mm	2350	2350	2350	2450	2450	2550	2850	2850	2850	2850	2900	2850	2900	4200
Height Max	mm	2750	2750	2750	2900	2850	3000	3170	3170	3200	3200	3250	3250	3250	4600

9 | 10

Technical Data

	ME-655	ME-855	ME-1055	ME-1060	ME-1260	ME-1270
Table						
Area of Table (mm)	800 x 550	1000 x 550	1100 x 550	1100 x 600	1300 x 600	1300 x 700
Working Area (mm)	650 x 550	850 x 550	1000 x 550	1000 x 600	1200 x 600	1200 x 700
T-Slot (mm)	100 x 18 x 5	100 x 18 x 5	100 x 18 x 6			
Work Table Max Weight (kgs)	600	800	800	1000	1200	1200
Travel						
X/Y/Z - Axis Travel (mm)	650/550/550	850/550/550	1000/550/550	1000/620/600	1200/600/600	1200/720/700
Spindle Nose to Table surface (mm)	150-700	150-700	150-700	150-750	150-750	150-850
X/Y/Z-Guideway Type	Linear Gindeway	Linear Guideway	Linear Guideway	Linear Guideway	Linear Guideway	Linear Guideway
Spindle						
Spindle Taper	BT40	BT40	BT40	BT40/BT50	BT40/BT50	BT40/BT50
Spindle rpm	10000	10000	10000	10000/6000	10000/6000	10000/6000
Transmission Method						
Spindle Motor (kw)-Fanuc	7.5/11	7.5/11	7.5/11	11/15	11/15	11/15
Spindle Motor (kw)-Mitsubishi	5.5/7.5	5.5/7.5	5.5/7.5	7.5/11	7.5/11	7.5/11
Spindle Motor (kw)-Siemens	7	7	7	9	9	9
Spindle Motor (kw)-Heidenhain	7.5	7.5	7.5	10	10	15
Three-Axis Motor						
X/Y/Z-Axis Servo Motor (kw)-Fanuc	1.8/1.8/3.0BS	1.8/1.8/3.0BS	1.8/1.8/3.0BS	3.0/3.0/3.0BS	3.0/3.0/3.0BS	3.0/3.0/3.0BS
X/Y/Z-Axis Servo Motor (kw)-Mitsubishi	1.5/1.5/3.0BS	1.5/1.5/3.0BS	1.5/1.5/3.0BS	3.0/3.0/3.0BS	3.0/3.0/3.0BS	3.0/3.0/3.0BS
X/Y/Z-Axis Servo Motor (kw)-Siemens	2.85/2.85/3.55BS	2.85/2.85/3.55BS	2.85/2.85/3.55BS	3.55/3.55/3.55BS	3.3/3.3/5.5BS	3.55/3.55/5.5B
X/Y/Z-Axis Servo Motor (kw)-Heidenhain	2.9/2.9/3.9BS	2.9/2.9/3.9BS	2.9/2.9/3.9BS	3.9/3.9/3.9BS	3.9/3.9/4.6BS	3.9/3.9/4.6BS
3-Axis Cutting Feed Rate (mm/min)	10000	10000	10000	10000	10000	10000
3-Axis Rapid Traverse (m/min)	36/36/36	36/36/36	36/36/36	36/36/36	36/36/36	
Others						
Machine Weight / Gross Weight (kgs)	4500	5200	5500	6200	6500	7000
Control						

Air Gun

Mechanical Oil Coolant Separator

Standard

- **Enclosed Guard**
- **Swiveling Control Box**
- **Low Energy Work Light**
- **LED 3 Color Warning Light**
- **Volumetric Type Automatic Lubricator**
- **Auto Power Off**
- **Rigid Tapping**
- **Leveling Screws & Blocks**
- **Operation Manual**

Technical Data

ME-1370	ME-1470	ME-1670	ME-1690	ME-1890	ME-1611	ME-1811	ME-2012
1400 x 700	1500 x 700	1700 x 700	1800 x 900	2000 x 900	1800 x 1100	2000 x 1100	2100 x 1200
1300 x 700	1400 x 700	1600 x 700	1600 x 900	1800 x 900	1800 x 1100	1800 x 1100	2000 x 1200
100 x 18 x 6	100 x 18 x 6	100 x 18 x 6	150 x 22 x 5	150 x 22 x 5	155 x 22 x 7	155 x 22 x 7	150 x 22 x 7
140 0	1500	1600	2000	2000	2000	2500	2000
1300/720/700	1400/720/700	1600/720/700	1600/900/800	1800/900/800	1600/1100/900	1800/1100/900	2000/1200/860
150-850	150-850	150-850	150-950	150-950	150-1050	150-1050	150-1010
Linear Guideway	Linear Guideway	Linear Guideway	Linear Guideway	Linear Guideway	Linear Guideway	Linear Guideway	Linear Guideway
BT40/BT50	BT40/BT50	BT40/BT50	BT50	BT50	BT50	BT50	BT50/HSK63
10000/6000	10000/6000	10000/6000	6000	6000	6000	6000	8000/12000/1800
11/15	11/15	11/15	15/18.5	15/18.5	15/18.5	15/18.5	15/18.5
11/15	11/15	11/15	11/15	11/15	11/15	11/15	11/15
15	15	15	15	15	15	15	15
15	15	15	15	15	15	15	15
3.0/3.0/3.0BS	3.0/3.0/3.0BS	3.0/3.0/3.0BS	3.0/3.0/3.0BS	3.0/3.0/3.0BS	3.0/3.0/3.0BS	3.0/3.0/3.0BS	3.0/3.0/3.0BS
4.5/4.5/4.5BS	4.5/4.5/4.5BS	4.5/4.5/4.5BS	4.5/4.5/4.5BS	4.5/4.5/4.5BS	7.0/7.5/4.5BS	7.0/7.0/3.0BS	4.5/4.5/4.5BS
5.5/5.5/5.5BS	5.5/5.5/5.5BS	5.5/5.5/5.5BS	5.5/5.5/5.5BS	5.5/5.5/5.5BS	6.4/6.4/5.5BS	6.4/6.4/5.5BS	5.5/5.5/5.5BS
4.6/4.6/4.6BS	4.6/4.6/4.6BS	4.6/4.6/4.6BS	4.6/4.6/4.6BS	4.6/4.6/4.6BS	9.6/9.6/5.2BS	9.6/9.6/5.2BS	4.6/4.6/4.6BS
10000	10000	10000	6000	6000	10000	10000	6000
24/24/2	24 std. (36/36/24	opt.)	20/20/20	20/20/20	20/20/20	20/20/20	20/20/15
9000	9500	10000	15000	16000	16000	17000	19000

Fanuc OJ-MF PLUS /31i, Mitsubishi M80A/M80B, Siemens 828D/840D, HeidenhainTNC620/TNC640

Options

- Tool Changer 16/20/24/30/32
- Spindle Upgrade to Direct Drive 10000/12000/15000rpm
- Spindle Upgrade Belt Type 12000 rpm
- Spinde Upgrade Built-in 18000/24000 rpm
- Screw Type Chip Conveyor
- **Chain Type Chip Conveyor**
- **Chip Wash System**
- Tool measuring system
- Tool breakage system

- Linear Scale
- Spindle Oil Cooler
- **Coolant Through Spindle**
- Air Through Spindle
- Oil Mist Collector
- Fully Enclosed Casing