



MAPLE

Endless Innovation



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MA  
SERIES

High Agility  
High Performance

INTRODUCING  
the most advance MA-Series we ever built.

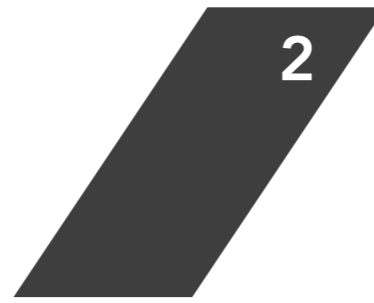
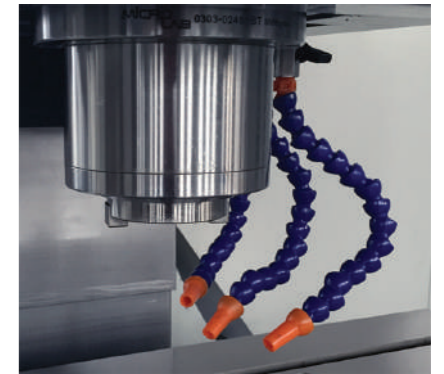
# MA-SERIES

## HIGH SPEED VERTICAL MACHINING CENTER



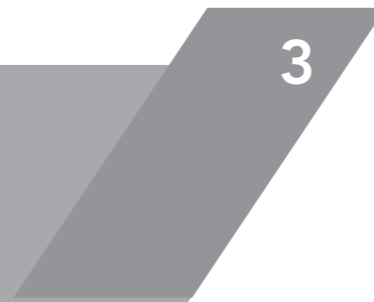
### Spindle Technology

The advanced design of our spindles provides high axial thrust capability, yet generates minimal heat. The spindles 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 operations of the spindle regardless of operation temperature.



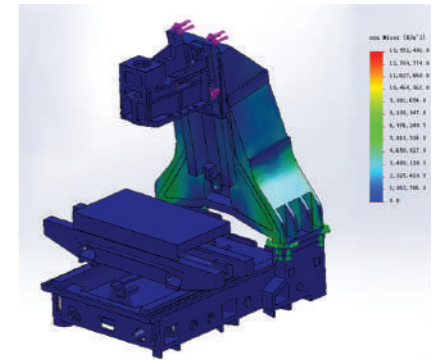
### Separate Is Better

Many machines face overheating and noise from high voltage amps that are installed in the electronic cabinets. The MA-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.



### Designed With Technology

MA-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 MA-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.

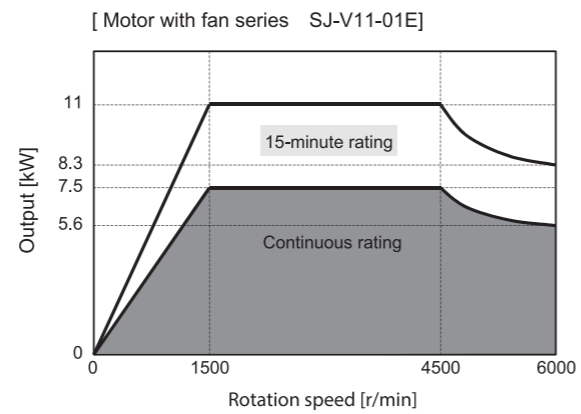
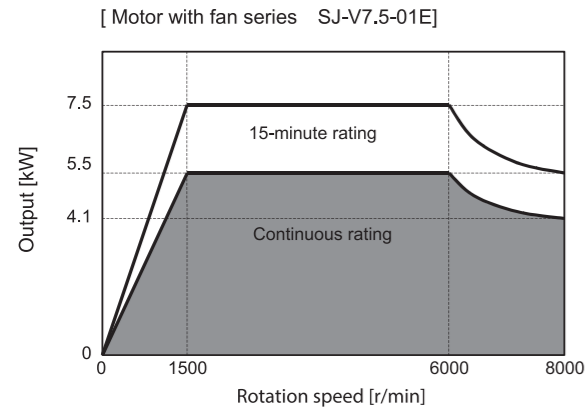


When structure is everything the MA-Series does not disappoint. With one of the widest stance in its class, the machine is more than capable of handling even the toughest cutting jobs the industry has to offer.

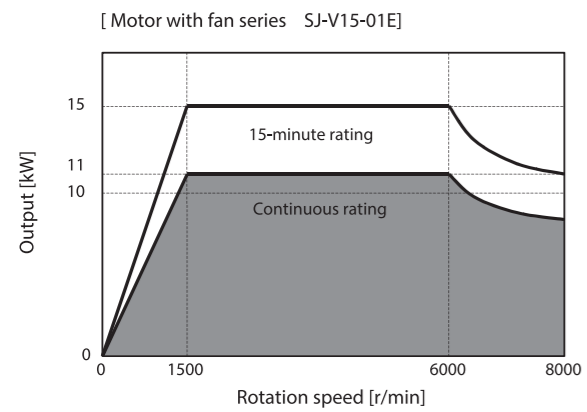


MA-645/745/850 Mitsubishi-Driver

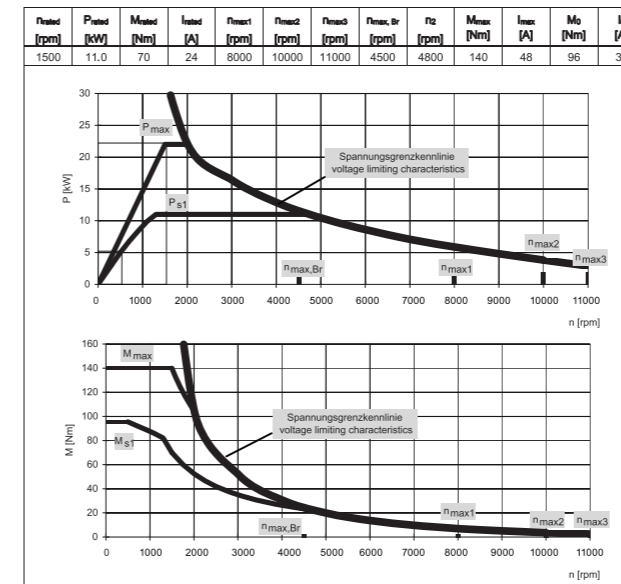
MA-1062 (MA-645/745/850 Optional) Mitsubishi-Driver



MA-1062 Mitsubishi-Driver Optional

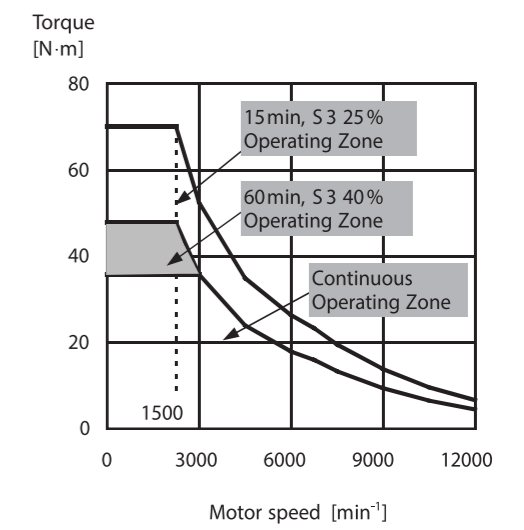
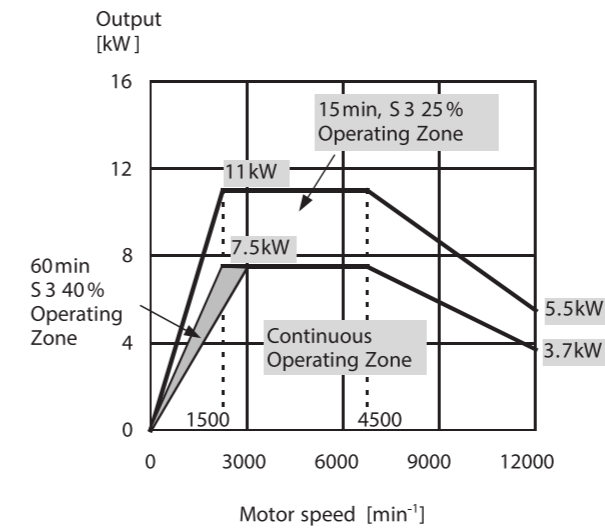


MA-1062 Siemens-Driver Optional



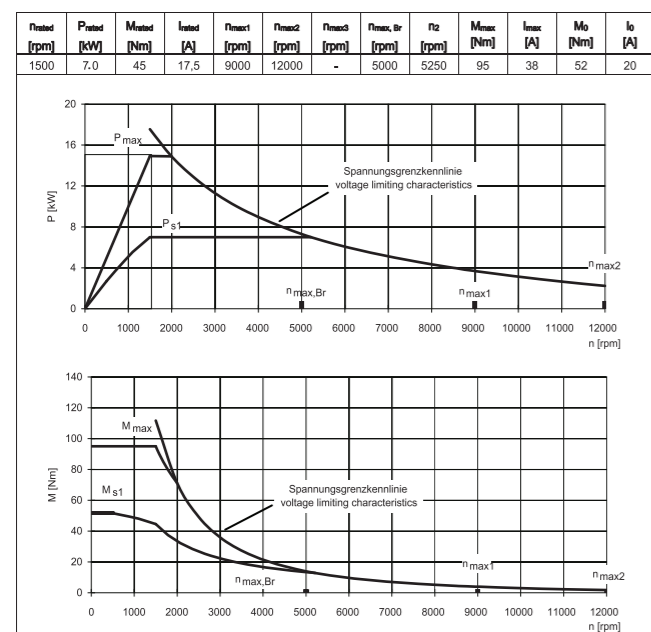
Performance Diagrams-Fanuc

MA-645/745/850 Fanuc-Driver

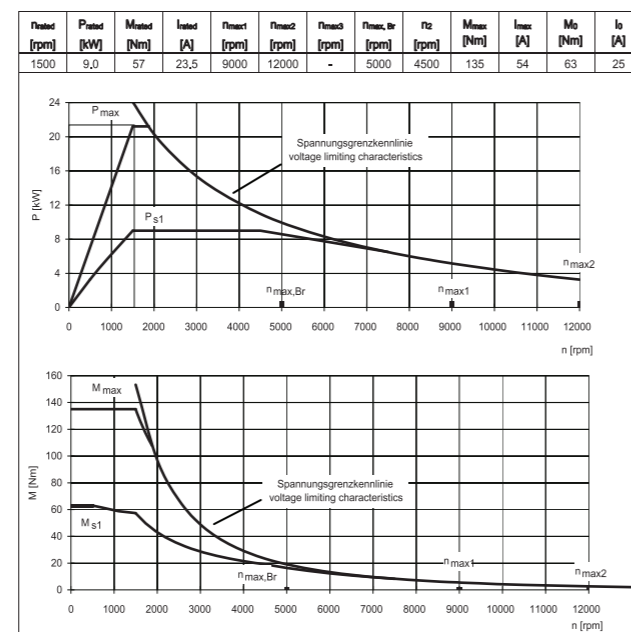


Performance Diagrams-Siemens

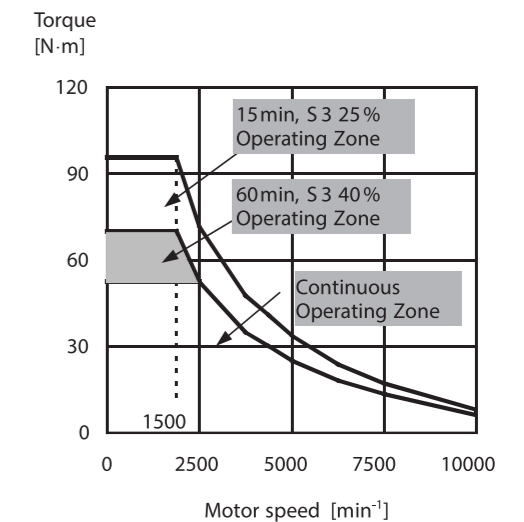
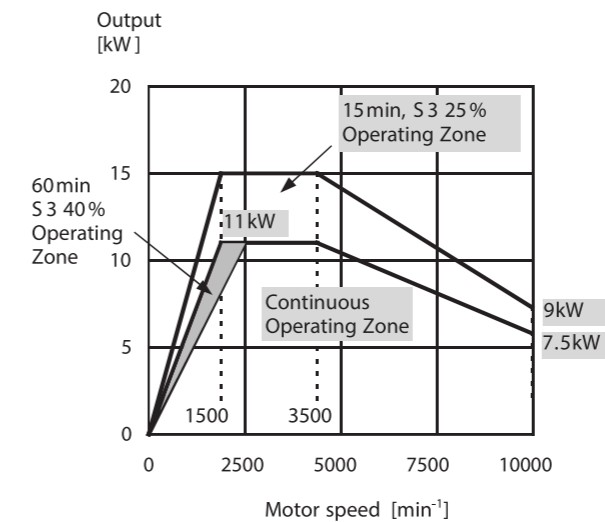
MA-645/745/850 Siemens-Driver



MA-1062 (MA-645/745/850 Optional) Siemens-Driver

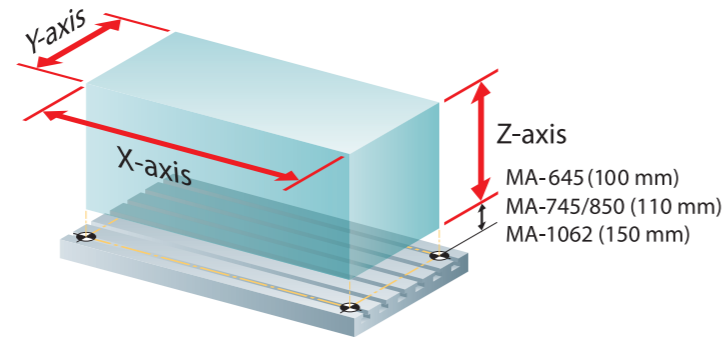


MA-1062 Fanuc-Driver



## Work Piece Size

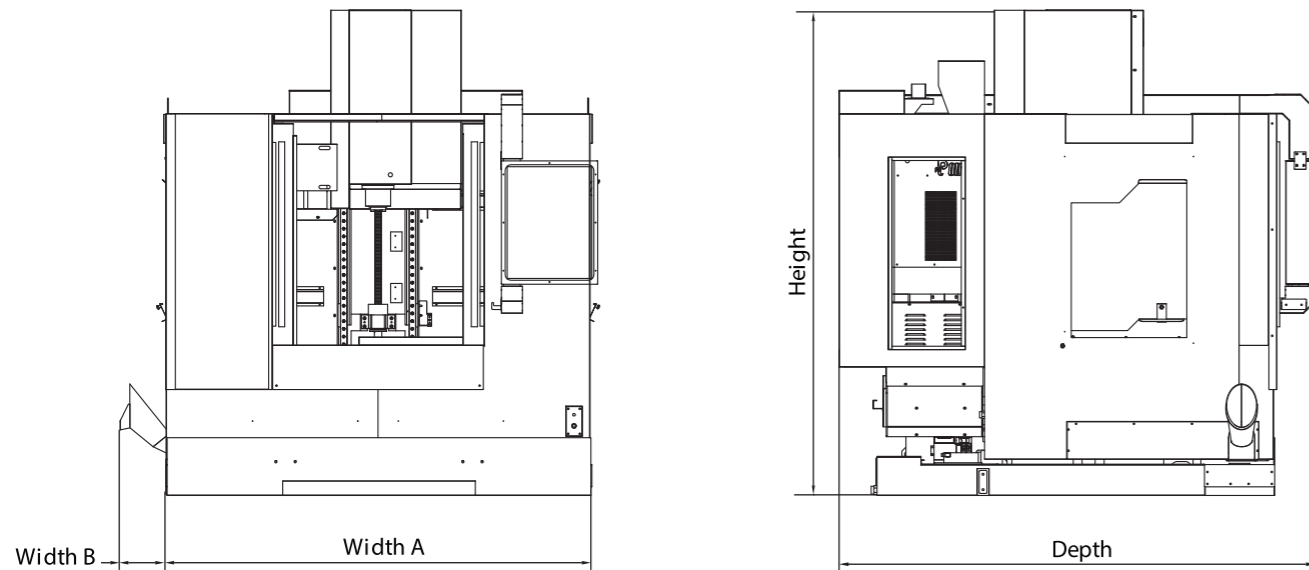
MA-Series



	Units	MA-645	MA-745	MA-850	MA-1062
X-Axis	mm	600	700	800	1000
Y-Axis	mm	450	450	520	620
Z-Axis	mm	520	550	550	600

## Floor Plans

MA-Series



	Units	MA-645	MA-745	MA-850	MA-1062
Depth	mm	2362	2472	2472	2480
Width A	mm	1900	2200	2200	2600
Width B	mm	335	243	243	368
Height Min	mm	2100	2260	2260	2290
Height Max	mm	2460	2520	2520	2720

	MA-645	MA-745	MA-850	MA-1062
<b>Table</b>				
Area of Table (mm)	800 x 450	900 x 450	1000 x 500	1100 x 600
Working Area (mm)	700 x 450	700 x 450	800 x 520	1000 x 600
T-Slot (mm)	80 x 18 x 5	80 x 18 x 5	80 x 18 x 5	100 x 18 x 5
Work Table Max Weight (kgs)	450	600	600	1000
<b>Travel</b>				
X/Y/Z - Axis Travel (mm)	600/450/520	700/450/550	800/520/550	1000/620/600
Spindle Nose to Table surface (mm)	100-620	110-660	110-660	150-750
X/Y/Z-Guideway Type	Linear Guideway	Linear Guideway	Linear Guideway	Linear Guideway
<b>Spindle</b>				
Spindle Taper	BT40	BT40	BT40	BT40
Spindle rpm	8000	8000	8000	8000
<b>Transmission Method</b>				
Spindle Motor (kw)-Fanuc	7.5/11	7.5/11	7.5/11	7.5/11
Spindle Motor (kw)-Mitsubishi	5.5/7.5	5.5/7.5	5.5/7.5	5.5/7.5
Spindle Motor (kw)-Siemens	7	7	7	7
Spindle Motor (kw)-Heidenhain	7.5	7.5	7.5	7.5
<b>Three-Axis Motor</b>				
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	1.8/1.8/3.0BS
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	1.5/1.5/3.0BS
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	2.85/2.85/3.55BS
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	2.9/2.9/3.9BS
3-Axis Cutting Feed Rate (mm/min)	10000	10000	10000	10000
3-Axis Rapid Traverse (m/min)	36/36/36	36/36/36	36/36/36	36/36/36
<b>Others</b>				
Machine Weight / Gross Weight (kgs)	4000	4200	4400	5300
<b>Control</b>				
MA-Series Control	Fanuc Oi-MF Plus, Mitsubishi M80A/M80B, Siemens 828D/840D, Heidenhain TNC620/TNC640			

### Standard

- Enclosed Guard
- Swiveling Control Box
- Low Energy Work Light
- LED 3 Color Warning Light
- Volumetric Type Automatic Lubricator
- Auto Power Off
- Rigid Tapping
- Tool Box
- Leveling Screws & Blocks
- Operation Manual
- Air Gun
- Mechanical Oil Coolant Separator

### Options

- Tool Changer 16/20/24/30/32
- Spindle Upgrade to Direct Drive 10000/12000/15000 rpm
- Spindle Upgrade Belt Type 12000 rpm
- Spindle 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
- Coolant Through Spindle - 6/20/30/50/70 bar
- Air Through Spindle