



MAPLE

www.maple-tech.com.tw

ME—SERIES

High Accuracy.
High Performance.

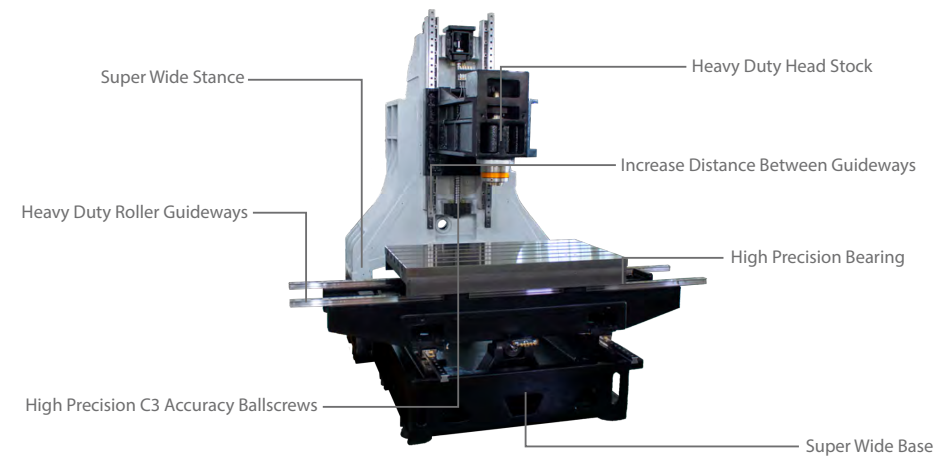
Introducing the most powerful
ME-Series we ever design.



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 1400 kg. With high-end servomotors that are directly connected to the ball screw not one single ounce of power is 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 1060/1260 machine body.



■ Designed with technology

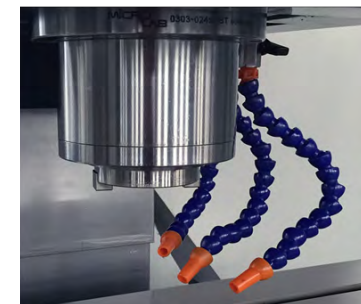
ME-Series was designed with the most advance FEM analysis software on the market. We are able to test our design under many different stressed conditions. This gives us the ability to design the ME-Series machine to not only meet our customers requirements, but to surpass our customers needs. This gives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



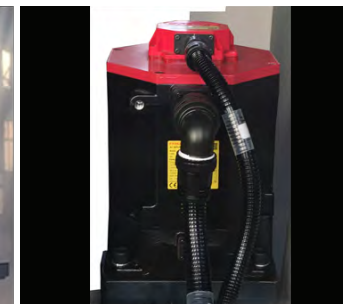
■ High-Capacity Cartridge Spindle

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.



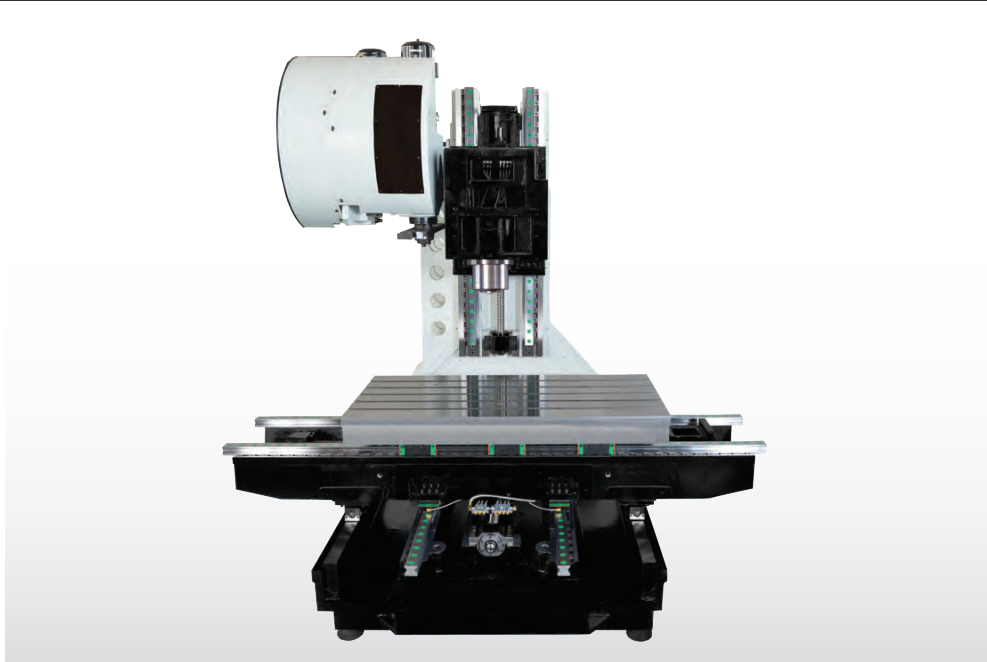
■ High Speed Tool Changer

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 29 years, the ME-Series is designed to carve through curves and cleaves of any material it meets—without cutting corners along the way.



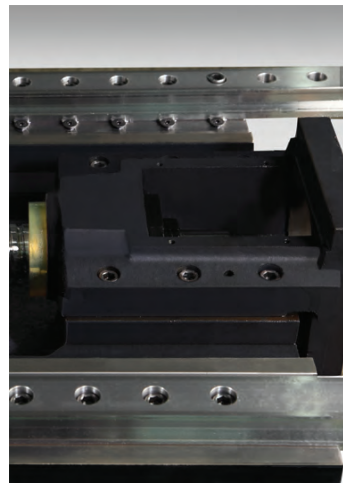
Always in control

We equipped our machine with the most powerful controller on the market. This gives the machine more flexibility to handle any task it needs to handle.



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 than what is needed the machine will have the ability to cut faster, harder, and have more durability then other machines.



The little things that matter

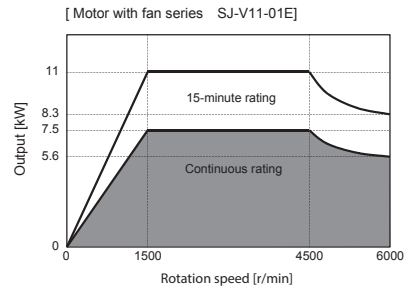
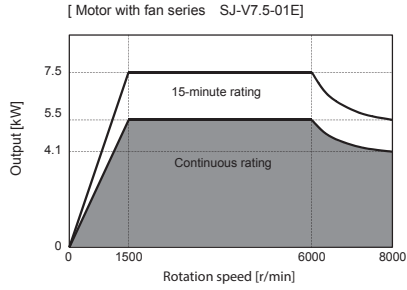
The most important part of the machine are the little things that no one ever ask about. With the ME-Series we looked at the little things and made sure it was up to the task. With larger and more bearings per-axis, we were able to give the machine more axis force for those heavy cutting jobs. With more bearings, we were able to put more force on each axis. This gives the machine more drill ability, heavy cutting ability, and smoothness corning rigidity.



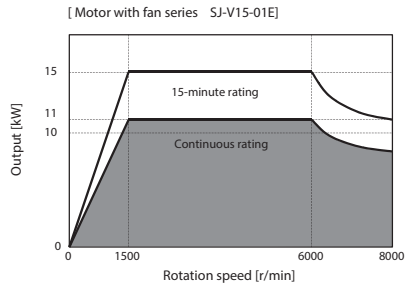
Performance Diagrams-Mitsubishi

ME-655/855/1055 Mitsubishi-Driver

ME-1060/1260/1270/1370/1470 Mitsubishi-Driver



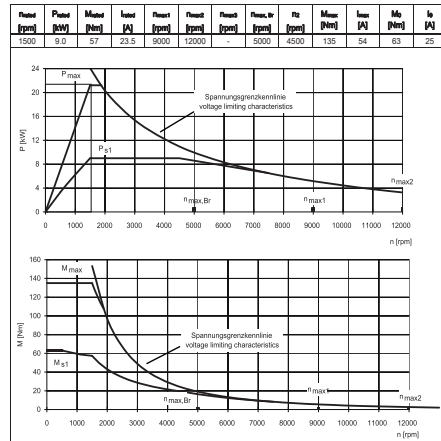
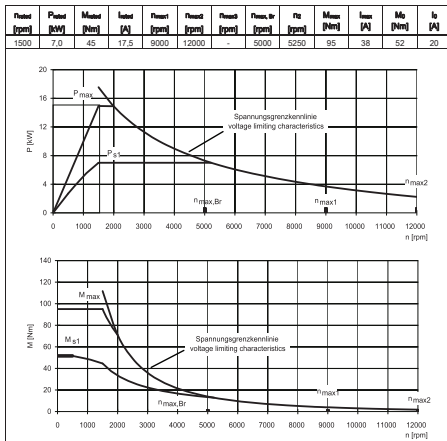
ME-1270/1370/1470 Mitsubishi-Driver Optional



Performance Diagrams-Siemens

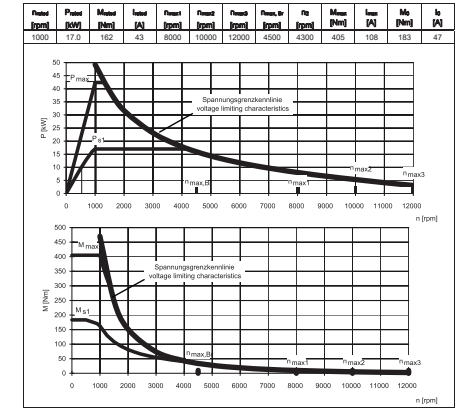
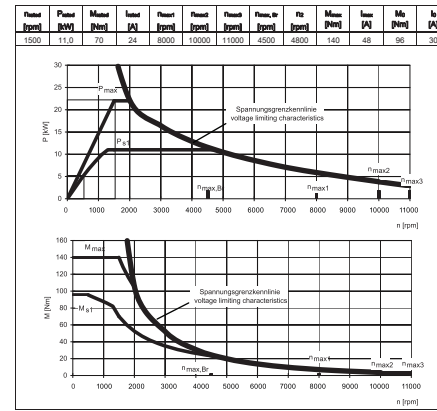
ME-655/855/1055 Siemens-Driver

ME-655/855/1055 Siemens-Driver Optional



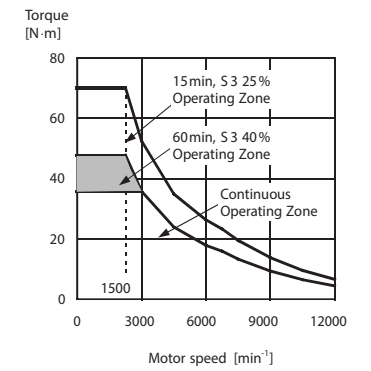
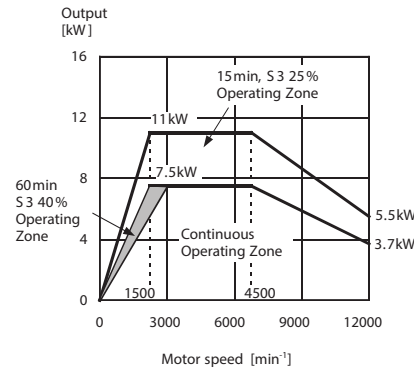
ME-1060/1260/1270/1370/1470 Siemens

ME-1060/1260/1270/1370/1470 Siemens-Driver Optional

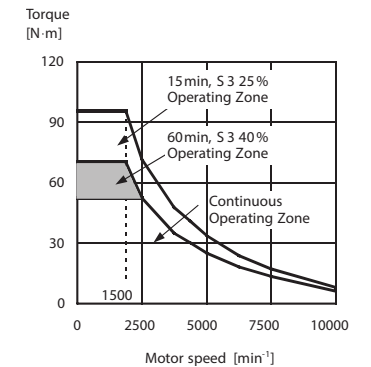
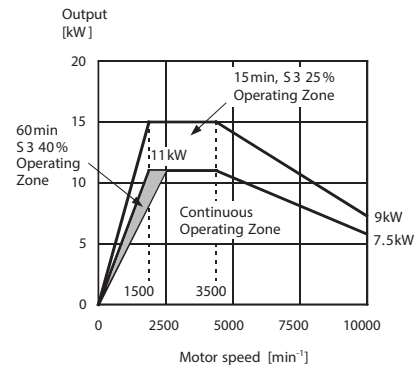


Performance Diagrams-Fanuc

ME-655/855/1055 Fanuc-Driver



ME-1060/1260/1270/1370/1470 Fanuc-Driver

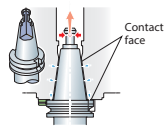


Options

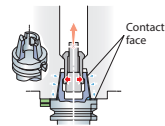
Two-face contact specifications OPTION

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 power and improves the machining precision.

BT40 *, BT50 *



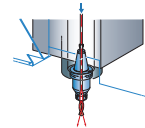
HSK-A63, HSK-A100



* When the two-face contact specification is selected, a two-face contact tool and other tools cannot be used together.

Through-spindle coolant system OPTION

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



Center through

Coolant Pressure:

- 2 mpa
- 3 mpa
- 5 mpa
- 7 mpa

* The colors and configurations shown in the photographs or illustrations may differ from those of the actual product.

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

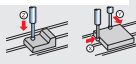
Workpiece measurement function OPTION

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

Work setter function (manual measurement application)

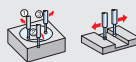
- Reference plane measurement

The machining reference point can be calculated simply by applying the sensor from the Z, X and Y-axis directions.



- Reference hole measurement

Centering a boss, hole, groove or width can be done at any two or three points, simply by 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.



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

Tool measurement function OPTION

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

Tool setter function (manual measurement application)

- Tool length measurement

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



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

- Tool length measurement

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



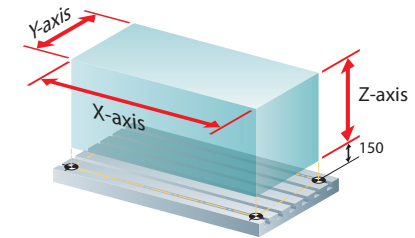
- Tool diameter measurement

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



Work Piece Size

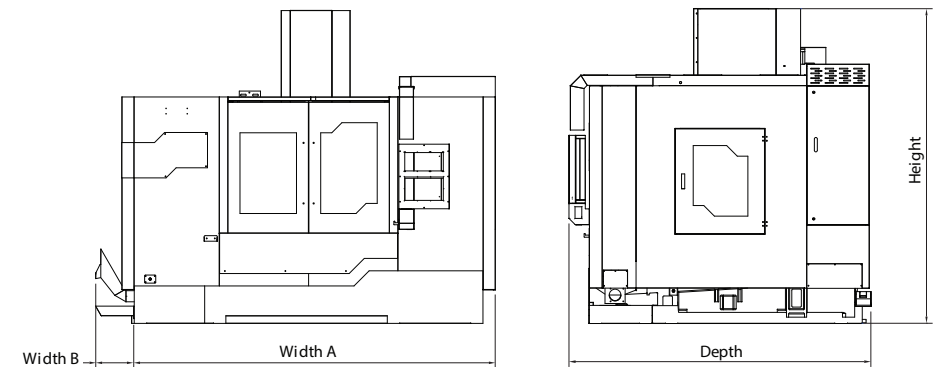
ME-Series



	Units	ME-655	ME-855	ME-1055	ME-1060	ME-1260	ME-1270	ME-1370	ME-1470
X-Axis	mm	650	850	1000	1020	1200	1200	1300	1400
Y-Axis	mm	550	550	550	600	600	720	720	720
Z-Axis	mm	550	550	550	600	600	700	700	700

Floor Plans

ME-Series



	Units	ME-655	ME-855	ME-1055	ME-1060	ME-1260	ME-1270	ME-1370	ME-1470
Depth	mm	2346	2346	2400	2471	2450	2558	2558	2558
Width A	mm	2350	2350	2600	2850	2900	3700	3700	3700
Width B	mm	344	344	368	346	308	228	228	228
Height Min	mm	2380	2380	2380	2460	2450	2417	2417	2417
Height Max	mm	2780	2780	2780	2910	2850	3117	3117	3117

Technical Data

	ME-655	ME-855	ME-1055	ME-1060
Table				
Area of Table (mm)	800 x 550	1000 x 550	1100 x 550	1100 x 600
Working Area (mm)	650 x 550	850 x 550	1000 x 550	1020 x 600
T-Slot (mm)	100 x 18 x 5	100 x 18 x 5	100 x 18 x 5	100 x 18 x 5
Work Table Max Weight (kgs)	600	800	800	1000
Travel				
X/Y/Z - Axis Travel (mm)	650/550/550	850/550/550	1000/550/550	1020/600/600
Spindle Nose to Table surface (mm)	150-700	150-700	150-700	150-750
X/Y/Z-Guideway Type	Linear Guideway	Linear Guideway	Linear Guideway	Linear Guideway
Spindle				
Spindle Taper	BT40	BT40	BT40	BT40
Spindle rpm	10000	10000	10000	10000
Transmission Method				
Spindle Motor (kw)-Fanuc	11.0	11.0	11.0	15.0
Spindle Motor (kw)-Mitsubishi	7.5	7.5	7.5	11.0
Spindle Motor (kw)-Siemens	7.0	7.0	7.0	9.0
Spindle Motor (kw)-Heidenhain	7.5	7.5	7.5	10.0
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
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
X/Y/Z-Axis Servo Motor (kw)-Siemens	2.3/2.3/3.3BS	2.3/2.3/3.3BS	2.3/2.3/3.3BS	3.3/3.3/4.87BS
X/Y/Z-Axis Servo Motor (kw)-Heindanhain	2.9/2.9/3.9BS	2.9/2.9/3.9BS	2.9/2.9/3.9BS	3.9/3.9/4.6BS
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
Others				
Machine Weight / Gross Weight (kgs)	4300	4500	4800	6000
Control				
ME-Series Control	Fanuc Oi-MF/31i, 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

Technical Data

	ME-1260	ME-1270	ME-1370	ME-1470
Table				
Area of Table (mm)	1300 x 600	1300 x 700	1400 x 700	1500 x 700
Working Area (mm)	1200 x 600	1200 x 700	1300 x 700	1400 x 700
T-Slot (mm)	100 x 18 x 5	100 x 18 x 6	100 x 18 x 6	100 x 18 x 6
Work Table Max Weight (kgs)	1200	1500	1700	1900
Travel				
X/Y/Z - Axis Travel (mm)	1200/600/600	1200/720/700	1300/720/700	1400/720/700
Spindle Nose to Table surface (mm)	150-750	150-850	150-850	150-850
X/Y/Z-Guideway Type	Linear Guideway	Linear Guideway	Linear Guideway	Linear Guideway
Spindle				
Spindle Taper	BT40	BT40/50	BT40/50	BT40/50
Spindle rpm	10000	10000/6000	10000/6000	10000/6000
Transmission Method				
Spindle Motor (kw)-Fanuc	15.0	18.5	18.5	18.5
Spindle Motor (kw)-Mitsubishi	11.0	15.0	15.0	15.0
Spindle Motor (kw)-Siemens	9.0	17.0	17.0	17.0
Spindle Motor (kw)-Heidenhain	10.0	15.0	15.0	15.0
Three-Axis Motor				
X/Y/Z-Axis Servo Motor (kw)-Fanuc	3.0/3.0/3.0BS	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	3.0/3.0/3.0BS	3.0/3.0/4.5BS	3.0/3.0/4.5BS	3.0/3.0/4.5BS
X/Y/Z-Axis Servo Motor (kw)-Siemens	3.3/3.3/4.87BS	4.87/4.87/4.87BS	4.87/4.87/4.87BS	4.87/4.87/4.87BS
X/Y/Z-Axis Servo Motor (kw)-Heindanhain	3.9/3.9/4.6BS	4.6/4.6/4.6BS	4.6/4.6/4.6BS	4.6/4.6/4.6BS
3-Axis Cutting Feed Rate (mm/min)	10000	10000	10000	10000
3-Axis Rapid Traverse (m/min)	36/36/36	24/24/24	24/24/24	24/24/24
Others				
Machine Weight / Gross Weight (kgs)	6500	8000	8400	9000
Control				
ME-Series Control	Fanuc Oi-MF/31i, Mitsubishi M80A/M80B, Siemens 828D/840D, Heidenhain TNC620/TNC640			

Options

- Upgrade 40 Taper to 50 Taper (Only ME-1060/1260/1270/1370/1470)
- 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
- Spindle Oil Cooler
- Coolant Through Spindle
- Air Through Spindle
- Oil Mist Collector
- Fully Enclosed Casing



MAPLE



Endless Innovation



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