

Maximart®

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e

Rapido

Excellence series

HIGH SPEED
Machining Centers





Machine Versatility

All These In a Single Machine

- ✓ 0.3mm Drilled Holes
- ✓ Engraving
- ✓ Rough Cutting
- ✓ Large Hole Drilling
- ✓ Fine Finishing



excellence series

High Precision Machining

Powerful Rough Cutting

> Maximart High Speed VMC Versatility

The extreme rigidity and precision of assembly in the Maximart Rapido excellence machines, coupled with the positional accuracy of the C3 ball screws allows you to easily perform the finest drilling operations and also the hardest rough cutting, with maximum efficiency.

> Fine Drilling

Excellent Spindle Stability

With the extreme precision and stability of the Maximart Rapido excellence spindle, even the drilling of multiple fine holes down to 0.3mm diameter and smaller is no issue.

> Large Hole Drilling

Reduce Machining Times

The rigidity and power of the machine and spindle allows for Rapido excellence deep drilling of large diameter holes to shorten cycle times.

> Engraving

Reduce Machining Times

From heavy cutting to engraving, the Rapido excellence VMC can handle all aspects of the cutting cycle with ease.





Excellence series

Super Precision Fine Finishing Universal Machining Capabilities

> 3 Axis Simultaneous Complex Contour Machining

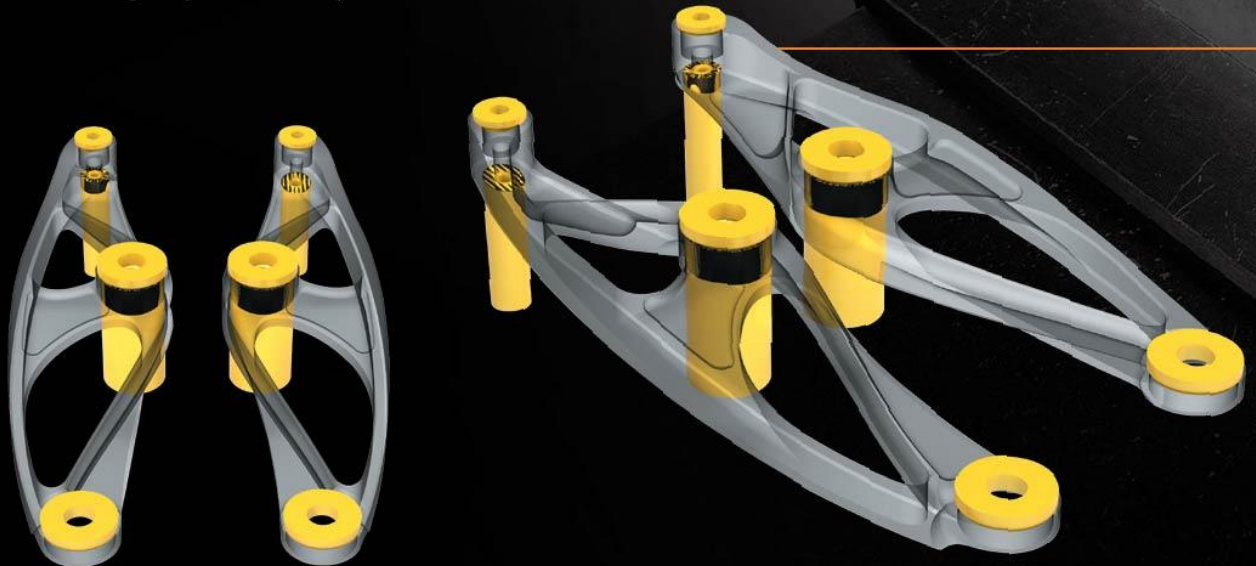
With complex 3D geometry components simultaneous 3 axis machining is the real test of the assembled machine's quality. The smooth positioning and rigidity of each axis in the Rapido excellence machines delivers excellent surface finish and also surface precision.

> Block Metal → Finished Part Single Set Up - Avoid Additional Processing

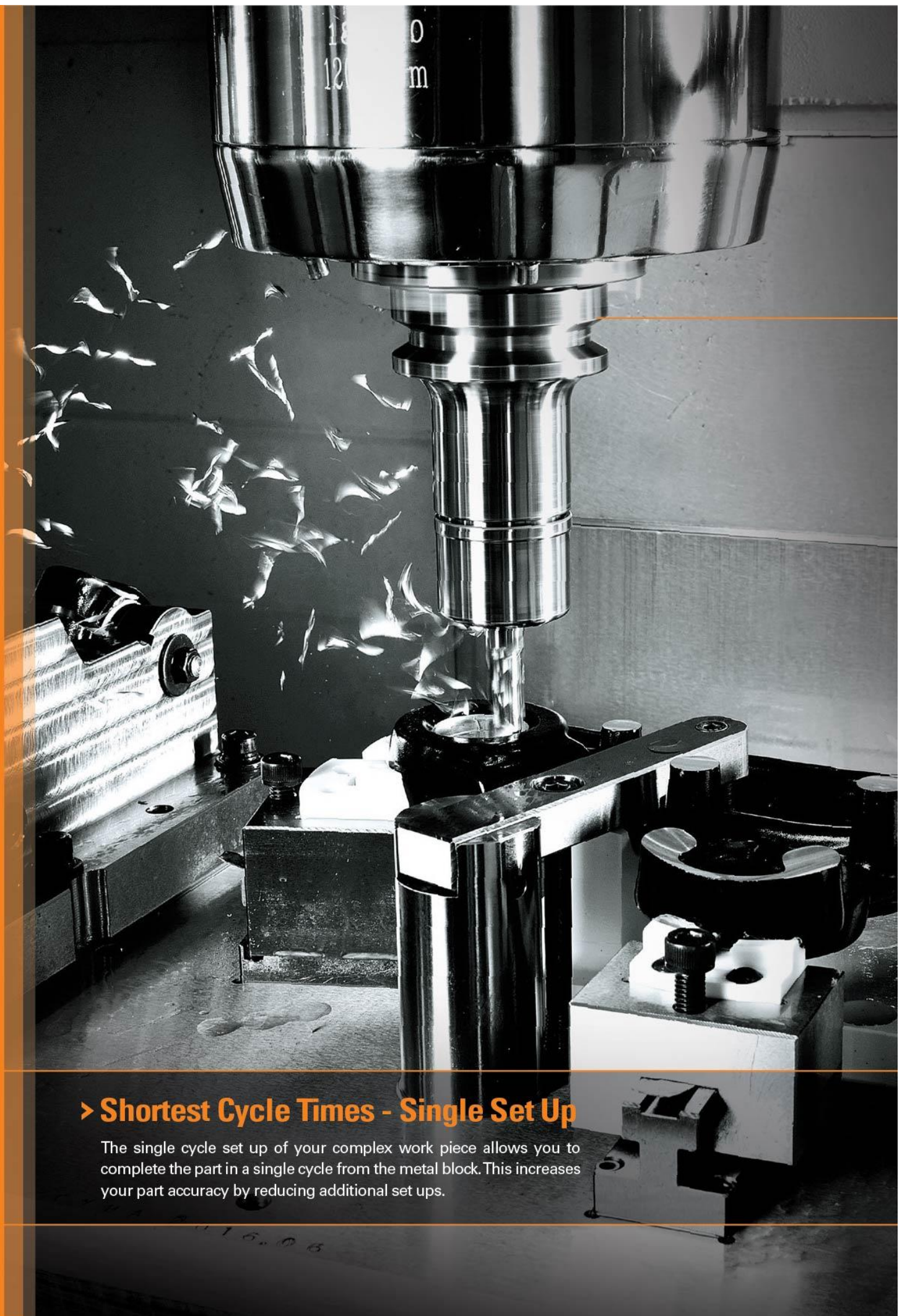
This is key for this type of component as this allows you to take it from block metal to finished component in a single step for maximum accuracy. The high quality C3 ball screws and linear guideways on this series of machines deliver the positioning accuracy you can rely on every time.

> Material Removal High Removal Rates

The power of the spindle couples with the machines rigidity allow for high material removal rates through increased cut depth and infeed. For block metal cutting this is key to reducing the length of time for the initial rough cut, saving on your overall cycle time.







> Shortest Cycle Times - Single Set Up

The single cycle set up of your complex work piece allows you to complete the part in a single cycle from the metal block. This increases your part accuracy by reducing additional set ups.



Automotive Industry

Excellence series

Process Analysis - Jig Advice

> Total Process Service

Our expertise at Maximart is in telling you the most efficient way to hold and cut your workpiece. Through a detailed workpiece analysis, we can determine the very best solution that will reduce your process steps and minimize your cycle times.

> Reduced Process Steps

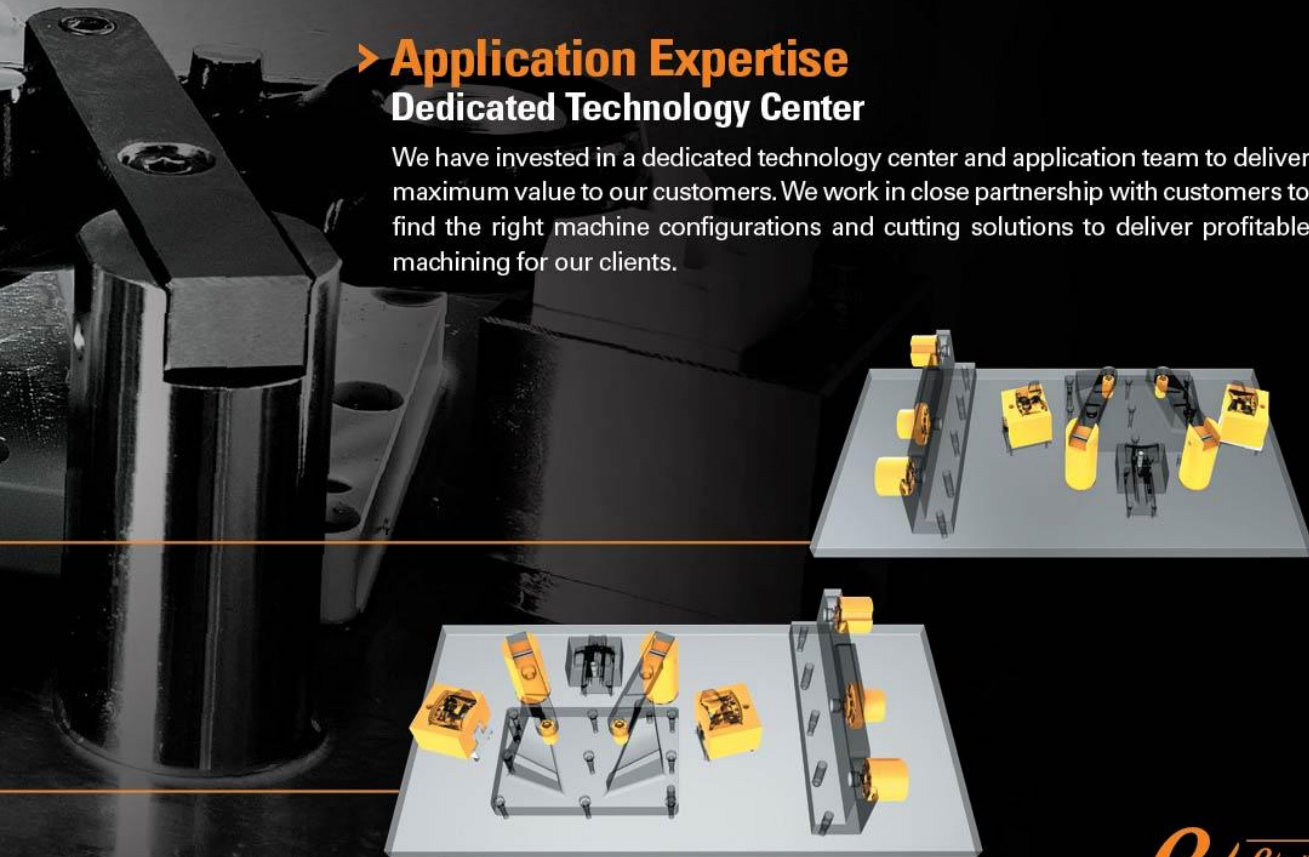
The addition of the Jig design for this workpiece has reduced the process steps from 4 to 2. This is key in high volume components as the step reduction allows you to maximize workpiece quality whilst also minimizing cycle time.

> Smart Machining Accessories

For this component we have added a 4th axis to the machine that allows the customer to machine more complex geometries in a single set up.

> Application Expertise Dedicated Technology Center

We have invested in a dedicated technology center and application team to deliver maximum value to our customers. We work in close partnership with customers to find the right machine configurations and cutting solutions to deliver profitable machining for our clients.





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Maximart Technology Center

Investing In Quality



We have accumulated enormous application experience over the years and our machining experts can rapidly understand and design the perfect machining set up for your product.

Our technology center provides a range of services for our customers including

- Workpiece & Cycle Analysis
- Clamping & Jig Design
- Application Design
- Test Production Machining
- Small Batch Test Production



> Machine Assembly & Testing

All of the Rapido machines are assembled by our skilled technicians in our temperature controlled production facility. We follow rigorous inspection and testing procedures to ensure that each component and also the final, assembled machine will delight customers with exceptional performance.

> Machining Test

As a part of our standard service for all customers, we perform a series of rigorous machining tests on each machine before it is packaged for shipping. The results of each machines performance along with the workpiece are labelled and stored for reference. Customers with special requirements may also perform additional proof of concept machining within the technology center before shipping.

e

Excellence Series

Excellence series

High Speed / High Rigidity



> e-1300



> e-750

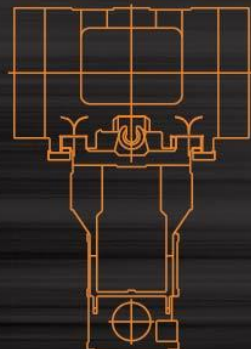
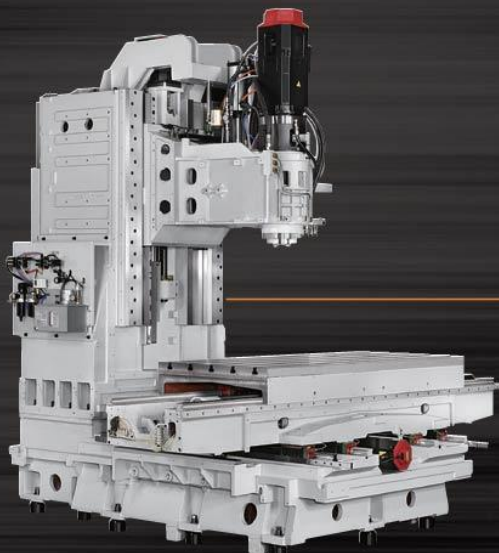


> *e*-1800

The e-1800 machine bed has 4 roller type linear guideways as well as an additional span of 2 auxiliary linear guideways between, that allows this machine to handle heavy loading and maintain outstanding stability.



> Dual-side Opening Machine Guard (Optional)



e

*e*xcellence series

G5 Gear Head VMC Series

High Rigidity / Spindle Taper # 50

> Oil Air Spindle

The oil air combination lubrication for this system extends the service life of the spindle.

> Direct Coupled Transmission

The motor and gearbox in this model of Rapido machine are directly coupled to ensure a smooth and stable gear shifting process.

> Hydraulic Gear Shift

Constant, stable hydraulic power enables smooth and stable gear shifting for the machine.

> High precision Gears

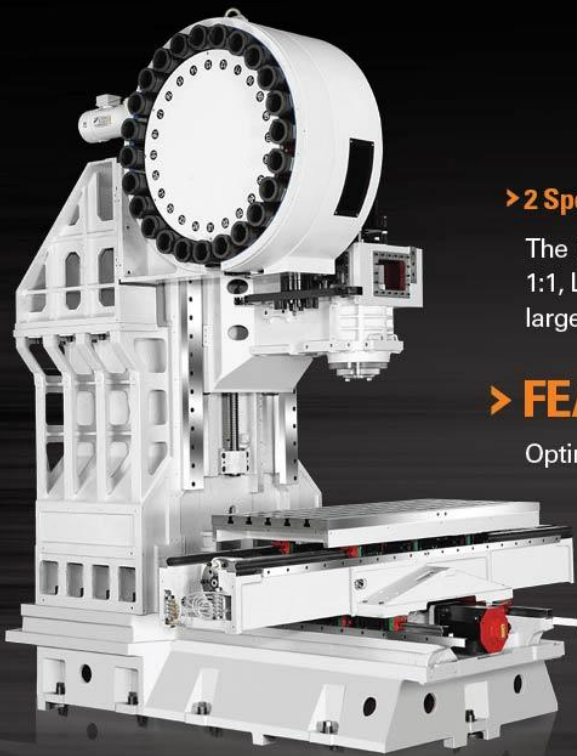
The gears in this machine are manufactured from Chrome-Molybdenum Alloy steel (SCM415) and are treated to a hardness of HRC55 for superior wear resistance.



> *e*-1300G5



> e-1800G5



> 2 Speed Gearbox

The high torque gearbox on this model delivers High Speed 1:1, Low Speed 1:4 Ratios that are perfect for heavy cutting on larger work pieces.

> FEA Analyzed Structure

Optimum Performance & Rigidity



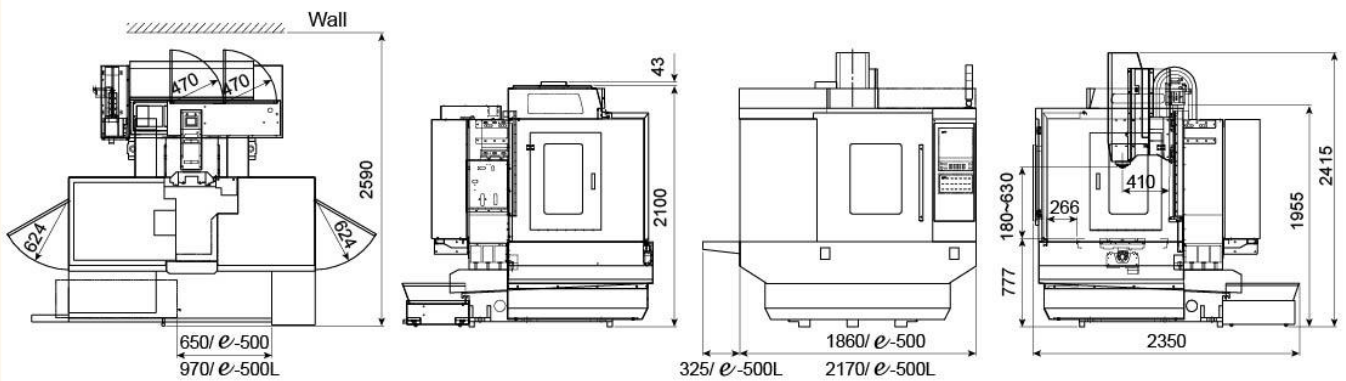
> Easy Loading

- Hydraulic top Guard for Easy Access Loading & Unloading
- Sealed Working Area for Clean Working Environment

e Machine Overall Dimensions

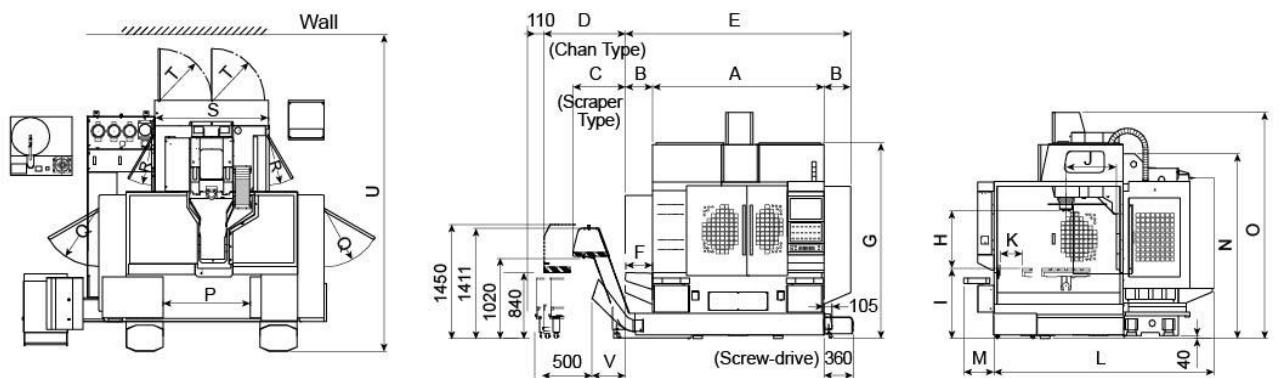
e-500, e-500L

unit: mm



e-850, e-1000, e-1100, e-1300

unit: mm

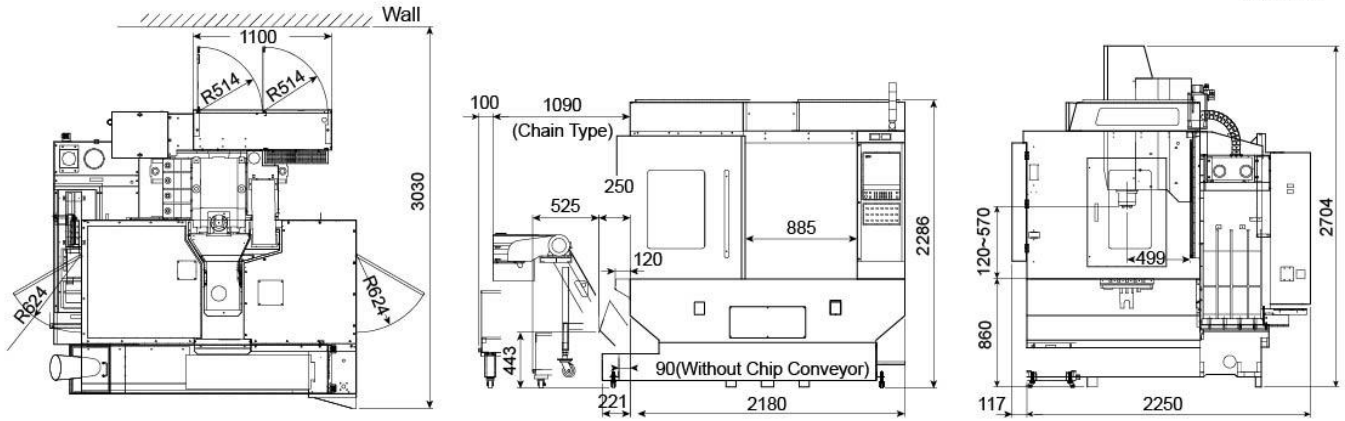


| ITEM | A | B | C | D | E | F | G | H | I | J | K |
|--------------|------|-----|-----|------|------|-----|------|---------|-----|-----|---------|
| MODEL | | | | | | | | | | | |
| e-850 | 2180 | 135 | 781 | 975 | 2450 | 325 | 2374 | 130~740 | 890 | 585 | 260~780 |
| e-1000 | 2180 | 300 | 616 | 975 | 2780 | 325 | 2374 | 130~740 | 890 | 585 | 260~780 |
| e-1100 | 2180 | 345 | 651 | 1035 | 2870 | 325 | 2374 | 120~730 | 900 | 630 | 200~810 |
| e-1300 | 2180 | 530 | 687 | 982 | 3240 | 325 | 2374 | 120~730 | 900 | 630 | 200~810 |

| ITEM | L | M | N | O | P | Q | R | S | T | U | V |
|--------------|------|-----|------|------|------|-----|------|------|------|------|-----|
| MODEL | | | | | | | | | | | |
| e-850 | 2900 | 380 | 2352 | 2890 | 1080 | 624 | R645 | 1450 | R675 | 4000 | 625 |
| e-1000 | 2900 | 380 | 2352 | 2890 | 1080 | 624 | R645 | 1450 | R675 | 4000 | 460 |
| e-1100 | 2965 | 380 | 2352 | 2890 | 1080 | 744 | R645 | 1450 | R675 | 4050 | 425 |
| e-1300 | 2965 | 380 | 2352 | 2890 | 1080 | 744 | R645 | 1450 | R675 | 4050 | 240 |

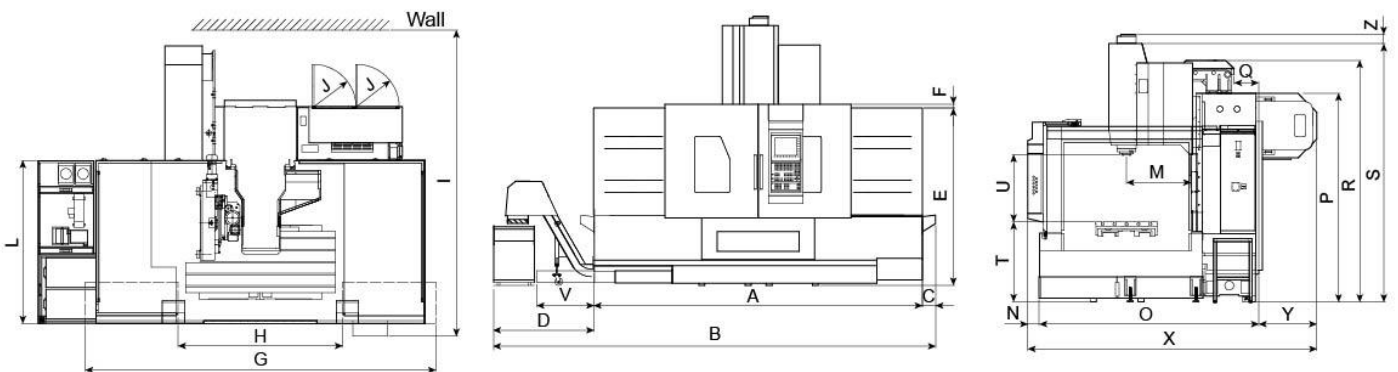
e-600, e-750

unit: mm



e-1800

unit: mm



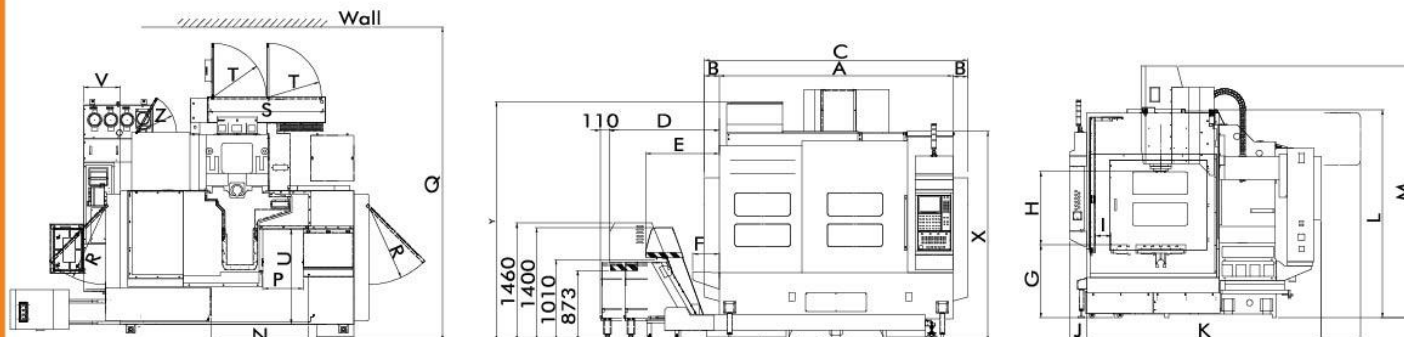
| ITEM | A | B | C | D | E | F | G | H | I | J | L | M |
|------------|------|------|-----|------|------|----|------|------|------|-----|------|-----|
| MODEL | | | | | | | | | | | | |
| 40#-24/32T | 4400 | 5925 | 178 | 1350 | 2370 | 50 | 4690 | 2200 | 3810 | 574 | 2180 | 860 |
| 50#-24T | 4400 | 5925 | 178 | 1350 | 2370 | 50 | 4690 | 2200 | 3810 | 574 | 2180 | 860 |
| 50#-32T | 4400 | 5925 | 178 | 1350 | 2370 | 50 | 4690 | 2200 | 4090 | 574 | 2180 | 860 |

| ITEM | N | O | P | Q | R | S | T | U | V | X | Y | Z |
|------------|-----|------|------|-----|------|------|------|-----|-----|------|-----|-----|
| MODEL | | | | | | | | | | | | |
| 40#-24/32T | 152 | 2935 | 2795 | 330 | 3235 | 3455 | 1072 | 900 | 775 | | | 130 |
| 50#-24T | 152 | 2935 | 2795 | 330 | 3235 | 3455 | 1072 | 900 | 775 | 3370 | 280 | 130 |
| 50#-32T | 152 | 2935 | 2795 | 330 | 3235 | 3455 | 1072 | 900 | 775 | 3875 | 785 | 130 |

e Machine Overall Dimensions

e-1300G5

unit: mm

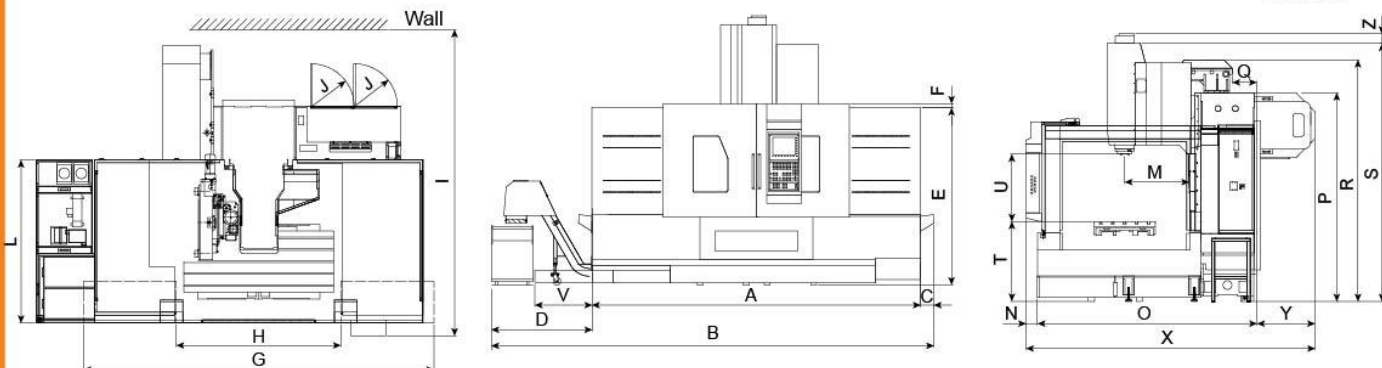


| ITEM | A | B | C | D | E | F | G | H | I | J | K | L |
|----------|------|-----|------|------|-----|-----|-----|---------|---------|-----|------|------|
| MODEL | | | | | | | | | | | | |
| e-1300G5 | 2880 | 185 | 3250 | 1360 | 910 | 325 | 900 | 200-900 | 190-800 | 210 | 2890 | 2570 |

| ITEM | M | N | P | Q | R | S | T | U | V | X | Y | Z |
|----------|------|------|-----|------|-------|------|------|------|-----|------|------|------|
| MODEL | | | | | | | | | | | | |
| e-1300G5 | 3100 | 1200 | 500 | 3870 | R1200 | 1450 | R675 | 1170 | 455 | 2590 | 2955 | R500 |

e-1800G5

unit: mm



| ITEM | A | B | C | D | E | F | G | H | I | J | L | M |
|---------|------|------|-----|------|------|----|------|------|------|-----|------|-----|
| MODEL | | | | | | | | | | | | |
| 50#-24T | 4400 | 5925 | 178 | 1350 | 2370 | 50 | 4690 | 2200 | 3810 | 574 | 2180 | 860 |
| 50#-32T | 4400 | 5925 | 178 | 1350 | 2370 | 50 | 4690 | 2200 | 3810 | 574 | 2180 | 860 |
| 50#-40T | 4400 | 5925 | 178 | 1350 | 2370 | 50 | 4690 | 2200 | 4090 | 574 | 2180 | 860 |

| ITEM | N | O | P | Q | R | S | T | U | V | X | Y | Z |
|---------|-----|------|------|-----|------|------|------|-----|-----|------|-----|-----|
| MODEL | | | | | | | | | | | | |
| 50#-24T | 152 | 2935 | 2795 | 330 | 3235 | 3455 | 1072 | 900 | 775 | — | — | 130 |
| 50#-32T | 152 | 2935 | 2795 | 330 | 3235 | 3455 | 1072 | 900 | 775 | 3370 | 280 | 130 |
| 50#-40T | 152 | 2935 | 2795 | 330 | 3235 | 3455 | 1072 | 900 | 775 | 3875 | 785 | 130 |

> e Specifications

| ITEM / MODEL | e-1300G5 | e-1800G5 |
|--|--|--|
| WORK TABLE | | |
| Table Size | 1400 x 610 (mm) | 2000 x 820 (mm) |
| T-slot | 18 x 5 x 100 (mm) | 22 x 5 x 160 (mm) |
| Max. table load | 900kgs | 2200kg |
| MOVEMENT & RANGE | | |
| X.Y.Z axis travel | 1300 x 610 x 700(mm) | 1800 x 800 x 700(mm) |
| Positioning accuracy | 0.003 mm / 300(mm) | 0.003mm / 300(mm) |
| X.Y.Z. axis repeatability | ±0.003 mm | ±0.003mm |
| 3 axes ball screws | X/Y: Ø40mm / C3 Z: Ø45mm / C3 | X/Y/Z: Ø50mm / C3 |
| X.Y axes Roller Type | X: 45mm x 6 pcs self-lube type block | X: 55mm x 6 pcs self-lube type block |
| Linear Ways | Y: 45mm x 6 pcs self-lube type block | Y: 55mm x 6 pcs self-lube type block |
| Z axis | Embraced Z axis boxway | Embraced Z axis boxway |
| 3 axes transmission | Direct drive | Direct drive |
| SPINDLE | | |
| Spindle nose taper | BT#50 | BT#50 |
| Spindle speed | Gear drive 6000rpm | Gear drive 6000rpm |
| Spindle diameter | Ø90mm | Ø100mm |
| Distance from spindle nose to table | 200-900mm | 200-900mm (opt. 200-1200mm) |
| Distance from spindle center to column | 628mm | 860mm |
| FEED | | |
| Cutting feed rate (mm/min.) | 1-12000mm/min | 1-12000mm/min |
| Rapid traverse rate (mm/min) | X/Y=32M/min Z=20M/min | X/Y=24M/min, Z=16M/min |
| 3 axes linear scale | opt., absolute 0.1µ resolution | opt., absolute type 0.1µ resolution |
| AUTO TOOL CHANGER | | |
| Tool storage capacity | Arm type 24 tools opt. 30,40 tools | Arm type 24 tools opt. 32,40 tools |
| Max. tool diameter | Ø105mm(Ø127mm) | Ø105mm(Ø127mm) |
| Tool selection | Bi-direction random shortest path | Bi-direction random shortest path |
| Max. tool weight | 15kgs/pc | 15kgs/pc |
| Max. tool length | 300mm | 350mm |
| GENERAL INFORMATION | | |
| Coolant motor | 50Hz, 0.85kw, 2kg/cm ² 60Hz, 1.27kw, 3kg/cm ² | 50Hz, 0.85kw, 2kg/cm ² 60Hz, 1.27kw, 3kg/cm ² |
| Coolant tank capacity | 300 Liters. | 350 Liters. |
| Chip conveyor motor | 0.18kw x 2 0.37kw x 1 | 0.18kw x 2 0.37kw x 1 |
| air pressure required | 6kg/cm ² | 6kg/cm ² |
| Power consumption | 35 KVA | 45 KVA |
| Machine weight | 10000kgs | 16800kgs |

• Above specifications are subject to change without prior notice.

Standard Accessories

- Full enclosure machine guard.
- Spindle cooling unit.
- Automatic lubrication system.
- Arm type BT#50, 24 tools ATC.
- Spindle nose coolant jet flushing.
- Spindle side air blow nozzle & coolant nozzle.
- Spindle air curtain.
- Coolant gun & air gun.
- Machine window with safety glasses.
- Rigid tapping (two times tool retract).
- Auto power off.
- 3-colors warning lamp.
- Tool & tool box.
- Leveling bolts & pads.
- Fluorescent work lamp (2 sets)
- Ethernet port
- Front side chain type chip conveyor

Optional Accessories

- Chip cart.
- Arm type BT#50, 30 or 40 tools ATC (sports field type) for e-1300G5
- Arm type BT#50, 32 or 40 tools ATC (sports field type) for e-1800G5
- Tool length measurement system (BLUM).
- Heidenhain absolute type linear seals on 3 axes with air-blow protection.
- Wiring & connectors preparation for 4th axis (with servo motor).
- 4th axis CNC rotary table with tailstock.
- Oil mist coolant system.
- Oil mist filtering & recycle system.
- Coolant through spindle (8 or 22 bar).
- Coolant / oil skimmer.
- Transformer.

e Specifications

| ITEM / MODEL | e-500 | e-500L | e-600 | e-750 |
|----------------------------------|--|-----------------|--|-----------------|
| WORK TABLE | | | | |
| Table Size | 650 x 400 (mm) | 850 x 400 (mm) | 750 x 420 (mm) | 850 x 420 (mm) |
| T-slot | 14 x 3 x 125 (mm) | | 14 x 5 x 65 (mm) | |
| Table Load Capacity | 200kg | 300kg | 400kg | 450kg |
| MOVEMENT & RANGE | | | | |
| X,Y,Z Axis Travel (mm) | 500 x 400 x 450 | 700 x 400 x 450 | 600 x 420 x 450 | 750 x 420 x 450 |
| Positioning Accuracy | 0.003mm / 300mm | | 0.003mm / 300mm | |
| Repetition X,Y,Z. Axis | ±0.003mm | | ±0.003mm | |
| 3 Axes Ballscrew | X/Y/Z: Ø25mm / C3 | | X/Y: Ø32mm / C3, Z: Ø40mm / C3 | |
| 3 Axes Precision Linear Guideway | X: 25mm x 4 pcs self-lube type block Y: 30mm x 4 pcs self-lube type block Z: 30mm x 6 pcs self-lube type block | | X: 30mm x 4 pcs self-lube type block Y: 35mm x 4 pcs self-lube type block Z: 35mm x 6 pcs self-lube type block | |
| 3 Axes Transmission | Direct drive | | Direct drive | |
| SPINDLE | | | | |
| Spindle Taper | BT#30 | | BT#40 / CAT#40 / DIN#40 | |
| Spindle Speed | 60-12000rpm(opt. 20000rpm) | | 60-10000rpm (opt. 12000/15000rpm) | |
| Spindle Cooling Unit | Standard | | Standard | |
| Spindle Transmission | Direct Drive | | Direct Drive | |
| Spindle Diameter | Ø40mm | | Ø60mm | |
| Spindle Nose to Work Table | 180-630mm | | 120-570mm | |
| Spindle Center to Column | 410mm | | 450mm | |
| FEEDS | | | | |
| Feed Rate (mm/min) | 1-12000mm/min | | 1-12000mm/min | |
| Rapid Traverse (m/min) | X/Y/Z=48M/min | | X/Y/Z=32M/min | |
| 3 Axes Optical Linear Scale | not available | | opt., absolute type 0.1µ resolution | |
| A.T.C. | | | | |
| Tool Storage Capacity | Arm Type 20 Tools | | Armless type 16 tools opt., Arm type 20/30 tools | |
| Max. Tool Diameter | Ø76mm | | Ø100mm(Armless type) / Ø76mm(Arm type) | |
| Tool Selection | Bi-direction random shortest path | | Bi-direction random shortest path | |
| Max. Tool Weight | Max 4kg/pc | | 7kgs/pc | |
| Max. Tool Length | 200mm | | 250mm | |
| GENERAL INFORMATION | | | | |
| Coolant Motor | 50Hz, 0.65 kW, 1.3kg/cm ² 60Hz, 0.96 kW, 2kg/cm ² | | 50 Hz, 0.65 kW, 1.3 kg/cm ² 60 Hz, 0.96 kW, 2 kg/cm ² | |
| Coolant Tank Capacity | 160 Liters. | | 300 Liters. | |
| Chip Conveyor Motor | (opt. 0.2kw) | | 0.2kw | |
| Air Pressure Required | 6kg/cm ² | | 6kg/cm ² | |
| Power Consumption | 15 KVA | | 15 KVA | |
| Machine Weight | 3000kgs | 3150kgs | 4500kgs | 4700kgs |

• Above specifications are subject to change without prior notice.

Standard Accessories

- Full enclosure machine guard.
- Spindle nose coolant jet flushing.
- Spindle side air blow nozzle & coolant nozzle.
- Spindle air blast before tool-changing.
- Spindle all-time air curtain.
- Spindle cooling system (2000BTU) for e-500 / 500L.
- Spindle cooling system (4000BTU) for e-600 / 750 / 850 / 1000 / 1100 / 1300.
- Spindle cooling system (8000BUT) for e-1800.
- 3 axes precision ballscrews C3 grade.
- 3 axes linear guideway with self-lube device.
- e-1800X/Y linear quideway with self lube device. Z axis Boxway.
- Z axis brake motor.
- Automatic central lubrication system with alarm.
- Z axis auto ascend when power failure (with Fanuc CNC and MITSUBISHI CNC).
- Arm-type 20 tools ATC tool change device (For ex-500 / 500L).
- Armless 16 tools ATC (inverter drive) (For e-600 / 750).
- Armless 20 tools ATC (inverter drive) (For e-850 / 1000 / 1100 / 1300).
- Arm-type 24 tools ATC (e-1800 only).
- Single side screw-drive chip conveyor, at machine frontside (except e-500 / 500L).
- Frontside chain type chip conveyor (e-1800 only).
- Air gun & coolant gun.
- Machine window with safety glasses.
- Fluorescent worklamp (1 sets) (For e-500 / 500L / 600 / 750).
- Fluorescent worklamp (2 sets) (For e-850 / 1100 / 1300 / 1800).
- Leveling pads & bolts.
- Operation/Parts manuals.
- Tools & tool box.
- Rigid tapping.
- Auto power off.
- 3-colors warning lamp.

| e-850 | | e-1000 | | e-1100 | | e-1300 | | e-1800 | |
|---|--|---|--|---|--|---|--|---|--|
| 1000 x 520 (mm) | | 1100 x 520 (mm) | | 1250 x 610 (mm) | | 1400 x 610 (mm) | | 2000 x 820 (mm) | |
| 18 x 5 x 100 (mm) | | 18 x 5 x 100 (mm) | | 18 x 5 x 100 (mm) | | 18 x 5 x 100 (mm) | | 22 x 5 x 160 (mm) | |
| 700kg | | 700kg | | 900kg | | 900kg | | 2200kg | |
| 850 x 520 x 610 | | 1000 x 520 x 610 | | 1100 x 610 x 610(opt. Y=710mm) | | 1300 x 610 x 610(opt. Y=710mm) | | 1800 x 800 x 700 | |
| 0.003 mm / 300 mm | | 0.003 mm / 300 mm | | 0.003 mm / 300mm | | 0.003 mm / 300mm | | 0.003mm / 300mm | |
| ±0.003 mm | | ±0.003 mm | | ±0.003 mm | | ±0.003 mm | | ±0.003mm | |
| X/Y/Z: Ø40mm / C3 | | X/Y/Z: Ø40mm / C3 | | X/Y/Z: Ø40mm / C3 | | X/Y/Z: Ø40mm / C3 | | Ø50mm / P10mm / C3 | |
| X: 35mm x 6 pcs self-lube type block | | X: 45mm x 6 pcs self-lube type block | | X: 45mm x 6 pcs self-lube type block | | X: 45mm x 6 pcs self-lube type block | | X: 55mm x 6 pcs self-lube type block | |
| Y: 45mm x 4 pcs self-lube type block | | Y: 45mm x 6 pcs self-lube type block | | Y: 45mm x 6 pcs self-lube type block | | Y: 45mm x 6 pcs self-lube type block | | Y: 55mm x 6 pcs self-lube type block | |
| Z: 45mm x 6 pcs self-lube type block | | Z: 45mm x 6 pcs self-lube type block | | Z: 45mm x 6 pcs self-lube type block | | Z: 45mm x 6 pcs self-lube type block | | Y: Supporting slide 45mm x 4 pcs self-lube type block | |
| Direct drive | | Direct drive | | Direct drive | | Direct drive | | Direct drive | |
| BT#40 / CAT#40/ DIN#40 | | BT#40 / CAT#40/ DIN#40 | | BT#40 / CAT#40/ DIN#40 | | BT#40 / CAT#40/ DIN#40 | | BT#40 / CAT#40/ DIN#40 | |
| 60-10000rpm (opt. 12000/15000rpm) | | 60-10000rpm (opt. 12000/15000rpm) | | 60-10000rpm (opt. 12000/15000rpm) | | 60-10000rpm (opt. 12000/15000rpm) | | 60-10000rpm (opt. 12000/15000rpm) | |
| Standard | | Standard | | Standard | | Standard | | Standard | |
| Direct Drive | | Direct Drive | | Direct Drive | | Direct Drive | | Direct Drive | |
| Ø70mm | | Ø70mm | | Ø70mm | | Ø70mm | | Ø70mm | |
| 130-740mm | | 130-740mm | | 120-730mm | | 120-730mm | | 200-900mm | |
| 585mm | | 585mm | | 630mm | | 630mm | | 860mm | |
| 1-12000mm/min | | 1-12000mm/min | | 1-12000mm/min | | 1-12000mm/min | | 1-12000mm/min | |
| X/Y/Z=32M/min | | X/Y/Z=32M/min | | X/Y/Z=32M/min | | X/Y/Z=32M/min | | X/Y=24M/min, Z=16M/min | |
| opt., absolute type 0.1µ resolution | | opt., absolute type 0.1µ resolution | | opt., absolute type 0.1µ resolution | | opt., absolute type 0.1µ resolution | | opt., absolute type 0.1µ resolution | |
| Armless type 20 tools | | Armless type 20 tools | | Armless type 20 tools | | Armless type 20 tools | | Arm type 24 tools | |
| opt., Arm type 20/30/48/60 tools | | opt., Arm type 20/30/48/60 tools | | opt., Arm type 20/30/48/60 tools | | opt., Arm type 20/30/48/60 tools | | opt., Arm type 40 tools | |
| Ø100mm(Armless type) / Ø76mm (Arm type) | | Ø100mm(Armless type) / Ø76mm (Arm type) | | Ø100mm(Armless type) / Ø76mm (Arm type) | | Ø100mm(Armless type) / Ø76mm (Arm type) | | Ø90mm(Ø75mm) | |
| Bi-direction random shortest path | | Bi-direction random shortest path | | Bi-direction random shortest path | | Bi-direction random shortest path | | Bi-direction random shortest path | |
| 7kgs/pc | | 7kgs/pc | | 7kgs/pc | | 7kgs/pc | | 7kgs/pc | |
| 300mm | | 300mm | | 300mm | | 300mm | | 350mm | |
| 50Hz, 0.85kw, 2kg/cm ² | | 50Hz, 0.85kw, 2kg/cm ² | | 50Hz, 0.85kw, 2kg/cm ² | | 50Hz, 0.85kw, 2kg/cm ² | | 50Hz, 0.85kw, 2kg/cm ² | |
| 60Hz, 1.27kw, 3kg/cm ² | | 60Hz, 1.27kw, 3kg/cm ² | | 60Hz, 1.27kw, 3kg/cm ² | | 60Hz, 1.27kw, 3kg/cm ² | | 60Hz, 1.27kw, 3kg/cm ² | |
| 420 Liters. | | 420 Liters. | | 420 Liters. | | 420 Liters. | | 350 Liters. | |
| 0.2 kw x 2 / 0.4 kw x 1 | | 0.2kw x 2 / 0.4 kw x 1 | | 0.2kw x 2 / 0.4 kw x 1 | | 0.2kw x 2 / 0.4 kw x 1 | | 0.2kw x 2 / 0.4 kw x 1 | |
| 6kg/cm ² | | 6kg/cm ² | | 6kg/cm ² | | 6kg/cm ² | | 6kg/cm ² | |
| 20 KVA | | 20 KVA | | 25 KVA | | 25 KVA | | 35 KVA | |
| 7300kgs | | 7500kgs | | 8000kgs | | 8350kgs | | 16800kgs | |

Optional Accessories

- CE / EMC conformity machine.
- Transformer to suit local power supply.
- Fanuc CNC 0i-Mate-MF AICC I / 8.4" TFT upgrade to 0i-MF AICC II / 10.4" TFT with DATA SERVER + ETHERNET + JERK.
- Heidenhain TNC 620 / 15.1" TFT upgrade to iTNC 530 / 640 / 15.1" TFT.
- e-850 / 1000 / 1100 / 1300 spindle 10000rpm upgrade to 12000 / 15000rpm with spindle cooling system.
- Arm-type 20 / 30 tools ATC with inverter tool change device for e-600 / 750 .
- Arm-type 20 / 30 / 48 / 60 tools ATC with inverter tool change device for e-850 / 1000 / 1100 / 1300.
- "ZF" gearbox + oil cooling system for e-850 / 1000 / 1100 / 1300 / 1800 with belt-drive spindle.
- CTS 8bar or 22bar for e-850 / 1000 / 1100 / 1300 / 1800 (For Mitsubishi CNC only belt-drive spindle available).
- Wiring + connectors preparation for 4th axis (without driver without motor).
- 4th axis AC servo package complete (withwiring / connectors / driver / motor / PLC).
- 4th axis CNC rotary table with or without tailstock.
- Tool length / diameter measurement system.
- Workpiece measurement system.
- Single side chain type chip conveyor, at machine front side for e-600 / 750 / 850 / 1000 / 1100 / 1300.
- Single side screw-drive chip conveyor, at machine backside for e-500 / 500L.
- Single side chain type chip conveyor, at machine backside for e-500 / 500L.
- Chip cart.
- 3 axes optical linear scale, absolute type 0.1u resolution (except e-500 / 500L).
- CNC system overseas warranty fee.
- Coolant / Oil skimmer.



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CE/EMC ISO 9001