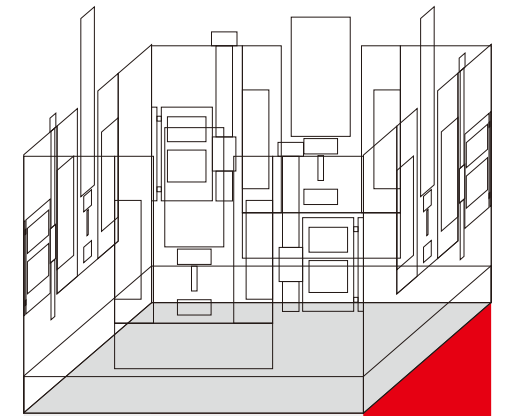




# Small Footprint Big Cutting Capacity

1000mm Y Axis Travel

## SOGOTEC Precision Co., Ltd.

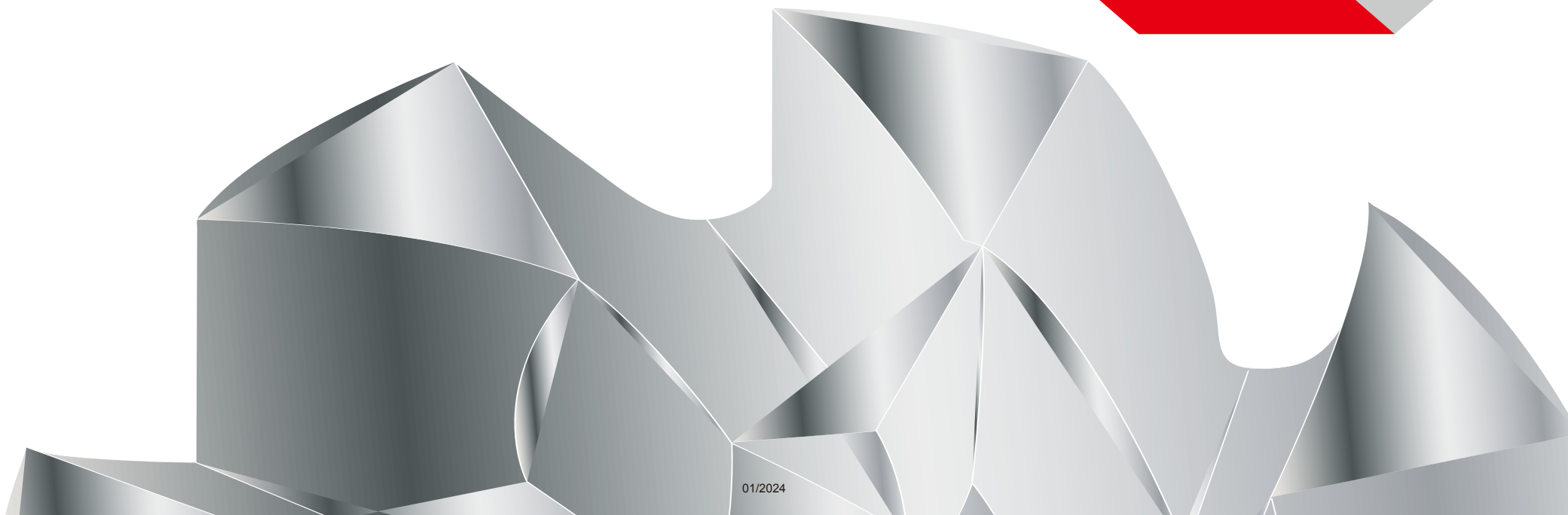
No.178, Guangqi Rd., Shengang Dist.,  
Taichung City 42948, Taiwan (R.O.C.)

Tel: +886-4-25612611

Fax: +886-4-25611613

E-mail: [sales@focaseiki.com.tw](mailto:sales@focaseiki.com.tw)

[www.focaseiki.com.tw](http://www.focaseiki.com.tw)



Vertical Machining Center

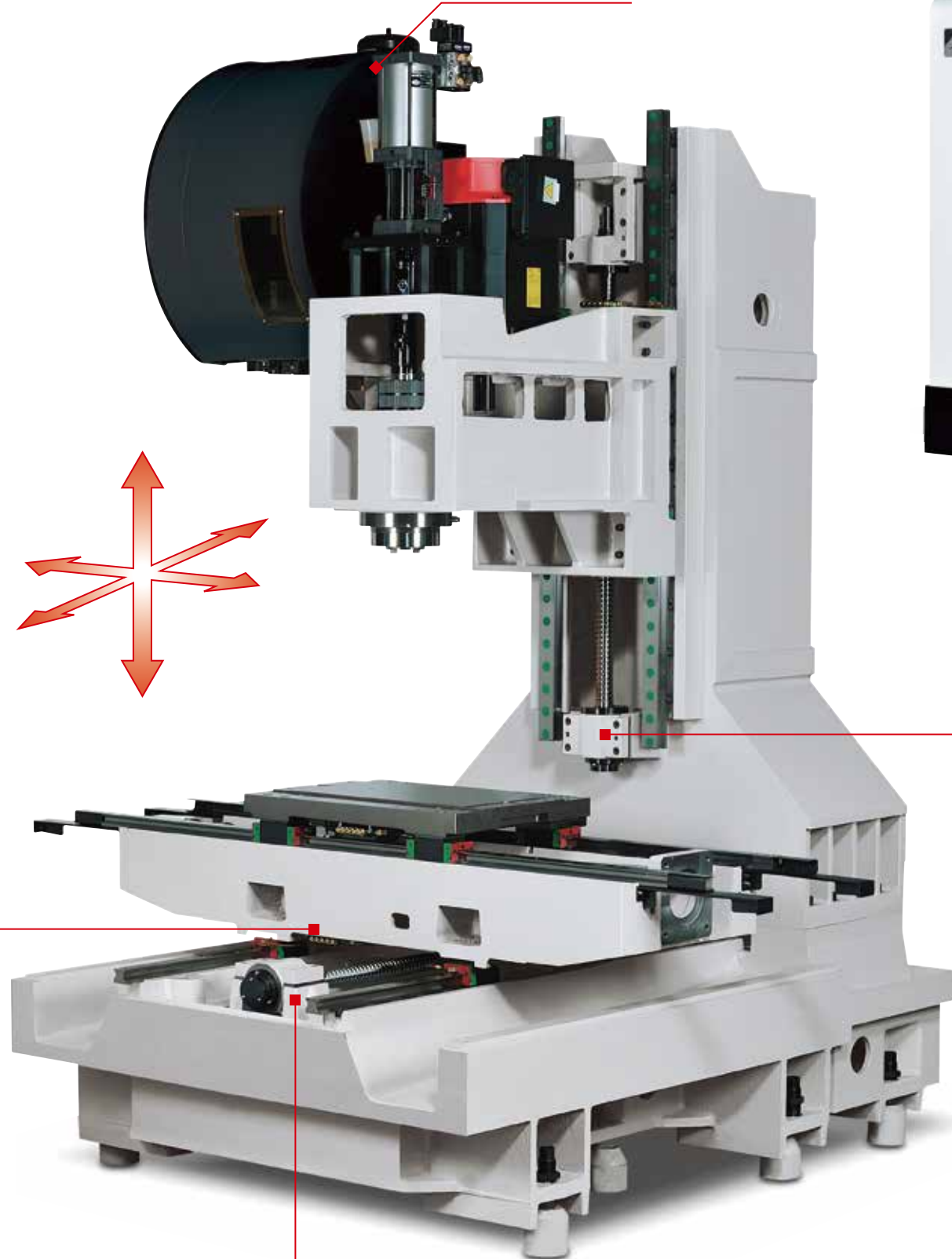
- X/Y/Z Rapid Traverse 30/30/24 m/min (Option 36/36/30 m/min)
- HQ-Container Ocean Packing (Lowest Shipping Fee)
- Direct Type Spindle Motor Cooling Device

Reservoir  
Bottle For A.T.C.

3 Axis High Rigidity Design

Reservoir-Type  
Lubricator Bronze  
Tube Oil Circuit

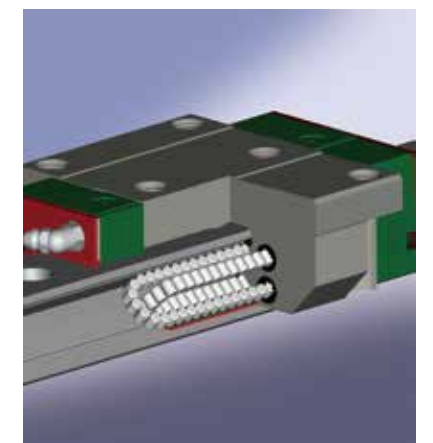
3 Axes Adopted Roller Type  
Linear Guideways



## Heavier Loading & Higher Precision

Roller Type Linear Guideways on X/Y/Z Axis

X/Y/Z Axes Equipped with  
7 Angular Ball Bearings to  
Reduce Thermal  
Deformation Impacts



- 3 Axis Rapid Traverse 24 m/min, Option 30/30/24 m/min
- HQ-Container Packing (Lower Shipping Cost)
- Reservoir-Type Lubricator Bronze Tube Oil Circuit
- Direct Type Spindle Motor Cooling Device

Independent Pneumatic  
Reservoir For ATC

Option ISO-50, ZF Gear Box

Special Design For Y Axis  
Four Tracks & Roller Type  
Linear Guide

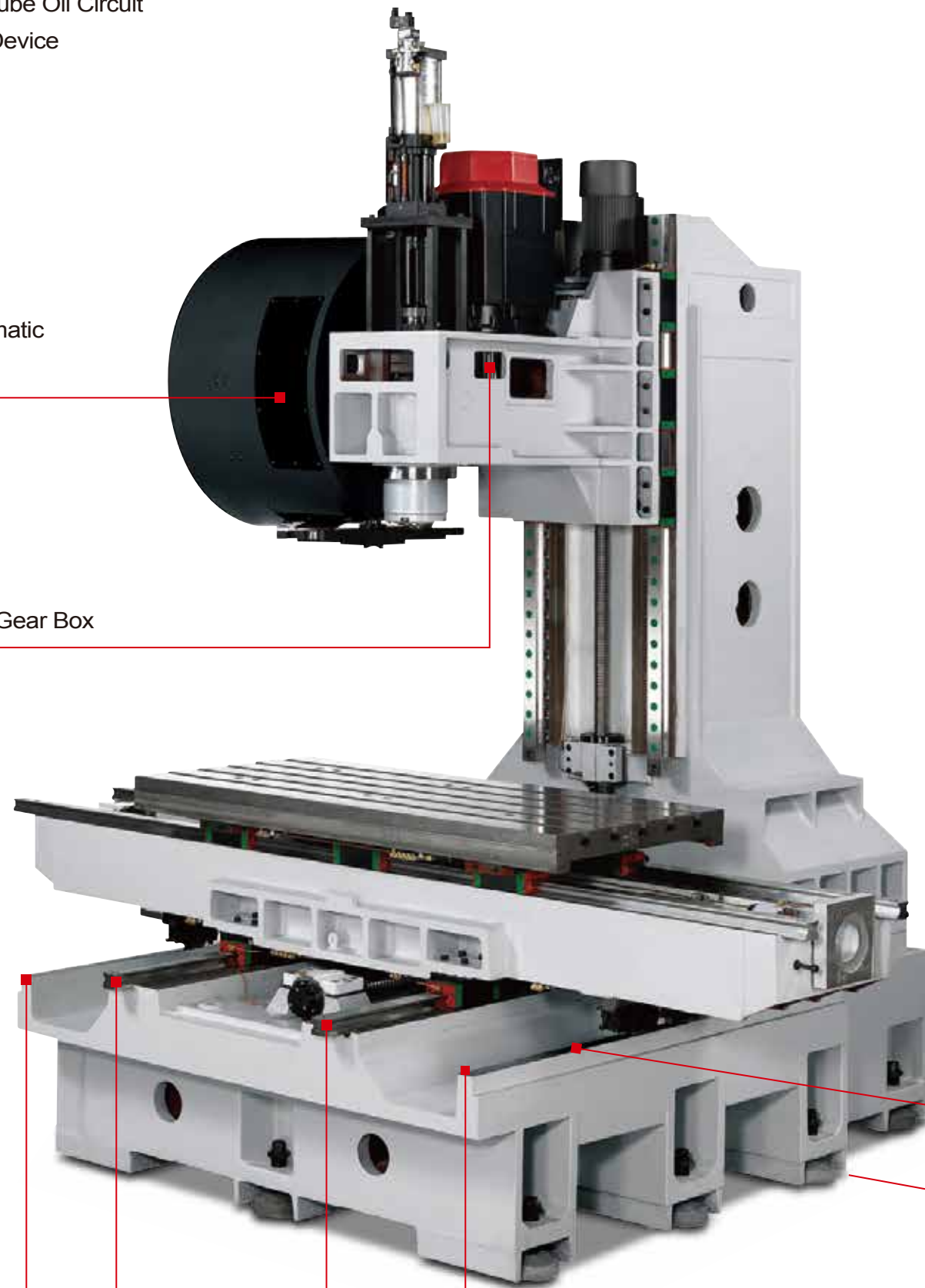
Y Axis Travel 700mm  
For Large Workpiece  
Machining Options

700mm



## Increased Precision & Stability

4 Roller Linear Guideways on Y Axis



- Low Speed High Torque Wide Range Spindle Motor
- Z Axis Used Servo Motor Brake System & Two Cylinders For Counter Balance For High Performance
- 2000 Models Use NSK Roller Type Slide Blocks On Y Axis For Increased Machine Stability & Precision
- Movable Control Panel For Easy Operation, Workpiece / Tool Adjustment

Large Diameter  $\varnothing$  63 mm C3  
Ball Screw on X/Y/Z Axes

Spindle Transmission  
Options, Belt Type, Direct  
Type, Gear Type

X/Y/Z Axes Use Heavy Loading  
55mm 6 x 8 x 6 Slide Blocks &  
Cross Roller Type Linear  
Guideways Delivers High  
Performance During 3 Axis  
Movement

## Faster Cycle Times

X/Y/Z Axes Rapid Traverse 24/24/20 m/min

Extra Large Y Axis Travel  
1000 mm For Large  
Workpiece Machining Options

1000mm

Material: NAK 80

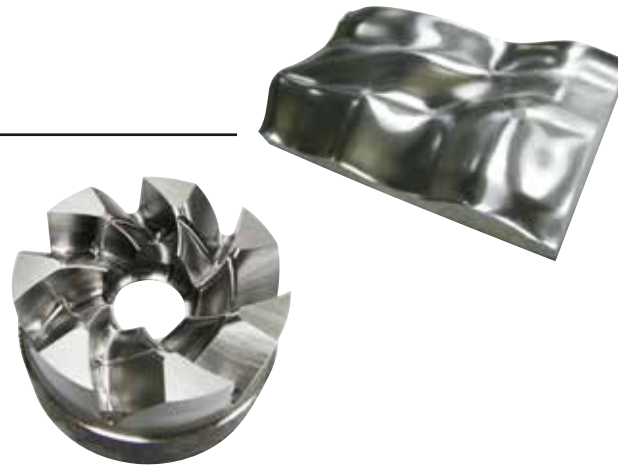
Machining Program: Fan Mold

Tool:  $\phi 10R2$ ,  $\phi 3R3$ ,  $\phi 4R3$

RPM: 4800, 9000, 15000

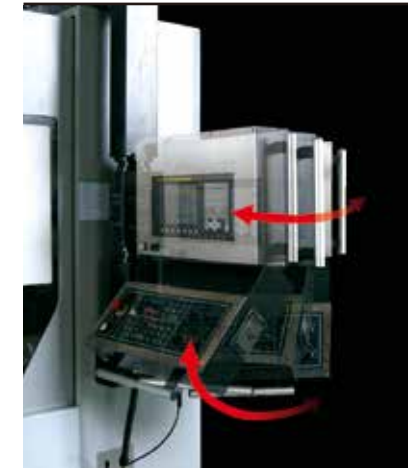
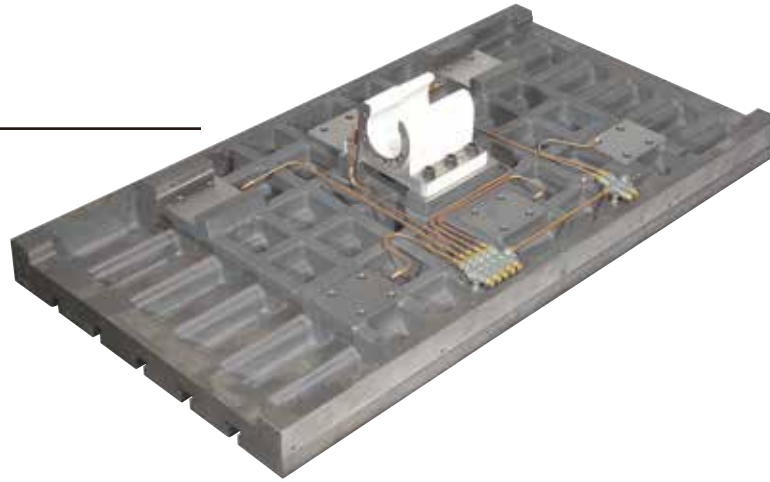
mm/min: F3000, F3000, F2500

Machining Time: 32, 38, 70 min



Reservoir Type Lubricator

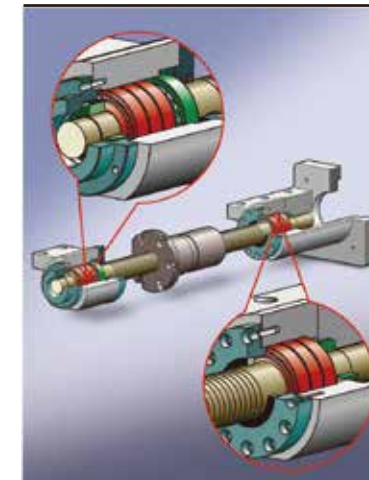
Bronze Tube Oil Circuit



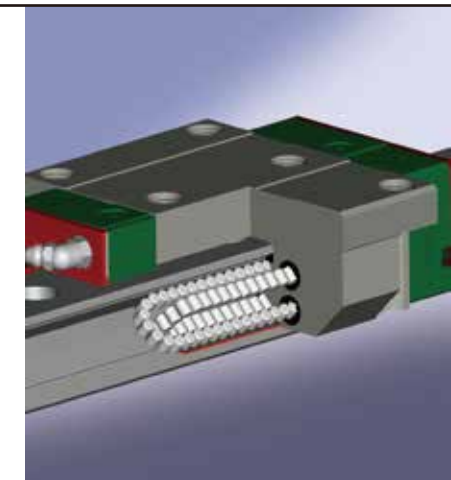
4 Way Swiveling Control Box



Direct Type Spindle Motor Cooling Device

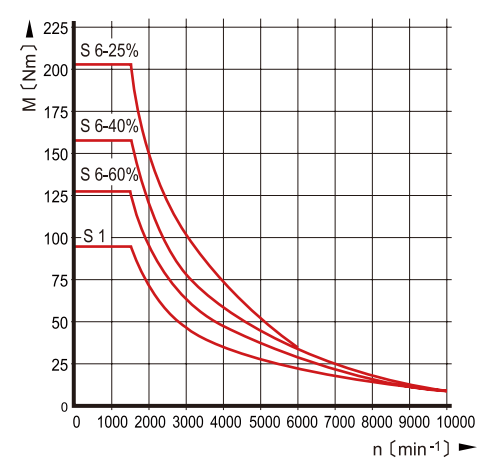


Enhanced Screw Pretension Design

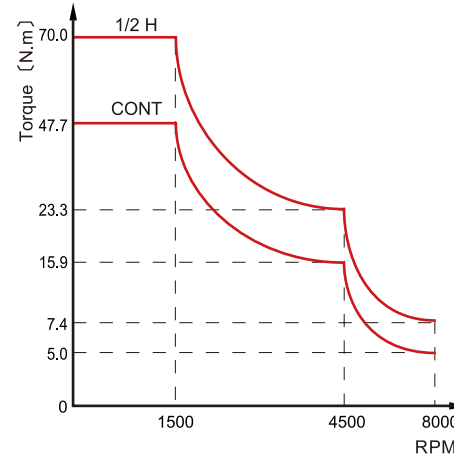


High Rigidity Roller Type Linear Guide

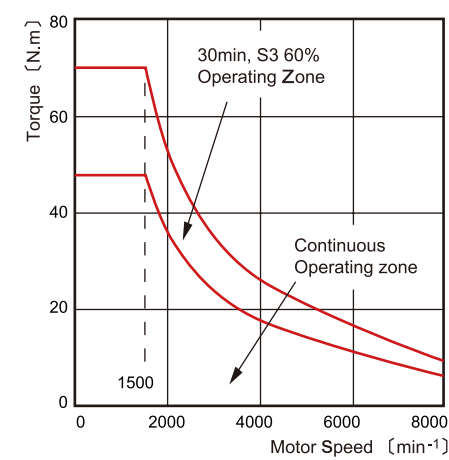
HEIDENHAIN QAN 260M Series  
Torque Characteristic Curve



MISTUBISHI SJ-V11 Series

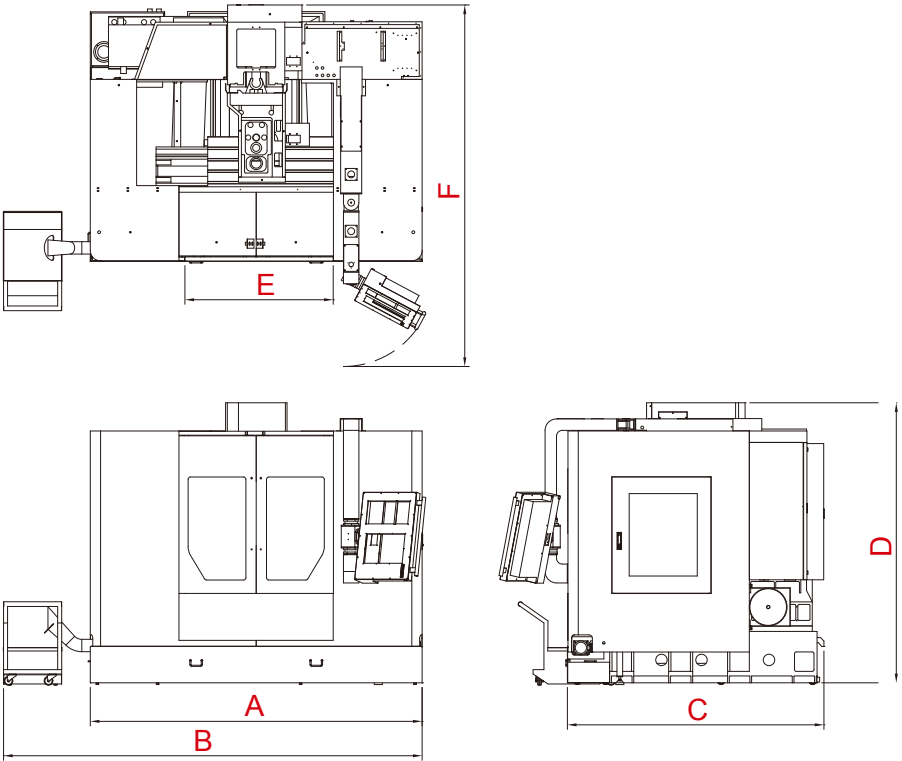


FANUC  $\alpha$ Series



- Ball Bar Test
- Laser Calibration
- Spindle Dynamic Balance

VMC Series Specifications



Dimensions

|           | A    | B    | C    | D        | E        | F    |
|-----------|------|------|------|----------|----------|------|
| 600       | 1900 | 2600 | 2410 | Min 2150 | Max 2800 | 760  |
| 860       | 2200 | 2960 | 2640 | Min 2360 | Max2910  | 860  |
| 1100      | 2900 | 3660 | 2240 | Min 2360 | Max2910  | 1230 |
| 1160      | 2900 | 3660 | 2240 | Min 2430 | Max3060  | 1190 |
| 1170      | 2900 | 3660 | 2270 | Min 2425 | Max3070  | 1190 |
| 1250      | 3200 | 3960 | 2270 | Min 2425 | Max3070  | 1380 |
| 1400/1500 | 3600 | 4360 | 2270 | Min 2425 | Max3070  | 1530 |
| 1670      | 3960 | 4720 | 2270 | Min 2425 | Max3070  | 1720 |
| 1676      | 3800 | 4560 | 2800 | Min 2490 | Max3190  | 1600 |
| 1876      | 4120 | 4880 | 2800 | Min 2490 | Max3190  | 2000 |
| 2076      | 4640 | 5400 | 2800 | Min 2490 | Max3190  | 2000 |
| 1600      | 3850 | 4650 | 3660 | Min 2630 | Max3430  | 1660 |
| 1800      | 4210 | 4970 | 3660 | Min 2630 | Max3430  | 1840 |
| 2000      | 4680 | 5440 | 3660 | Min 2630 | Max3430  | 2040 |

Standard Accessories:

- Arm Type Automatic Tool Changer (24 Tools)
- Fully Enclosed Guard
- Swiveling Control Box
- Work Light & Alarm Light
- Volumetric Type Automatic Lubricator
- Coolant & Chip Flushing System
- Auto Power Off
- Rigid Tapping
- Tool Box
- Leveling Screws & Blocks
- Operation Manual
- Mechanical Oil Coolant Separator
- Spindle Coolant Ring
- Chip Auger

Optional Accessories:

- Air Gun
- Coolant Gun
- Coolant Through Spindle (CTS)
- Transformer
- Chip Conveyor
- Linear Scale
- Auto Tool Length Measurement System
- Auto Workpiece Measurement System
- Air Conditioner

VMC (PM/DM/GM) -

Table

|                            |     |
|----------------------------|-----|
| Table Size                 | mm  |
| Working Area               | mm  |
| T-Slot                     | mm  |
| Max Table Loading Capacity | kgs |

Travel

|                               |    |
|-------------------------------|----|
| X/Y/Z Axis Travel             | mm |
| Spindle Nose To Table Surface | mm |

Spindle

|                     |     |
|---------------------|-----|
| Spindle Taper       | rpm |
| Spindle Speed       |     |
| Transmission Method | kw  |
| Spindle Motor       |     |

ATC

|                               |        |
|-------------------------------|--------|
| Magazine Capacity             | tools  |
| Tool Selection Method         |        |
| Max Diameter / W / O Adjacent | mm     |
| Max Tool Weight / Length      | kgs/mm |
| Tool Shank Specification      |        |
| Tool Change Time              | sec    |

3 Axis Traverse

|                         |        |
|-------------------------|--------|
| 3 Axis Cutting Feedrate | mm/min |
| 3 Axis Rapid Traverse   | m/min  |

Drive Motors

|                          |    |
|--------------------------|----|
| Chip Auger Motor         | hp |
| Chip Conveyor Motor      | hp |
| Coolant Pump Motor       | hp |
| Chip Flushing Pump Motor | hp |

Coolant Tank

|                       |       |
|-----------------------|-------|
| Coolant Tank Capacity | ℓ     |
| Coolant Flow          | ℓ/min |

Others

|                           |     |
|---------------------------|-----|
| Machine size (L x W x H)  | mm  |
| Net Weight / Gross Weight | kgs |

- Description in ( ) are optional accessories

|     |     |      |            |             |             |      |            |            |            |
|-----|-----|------|------------|-------------|-------------|------|------------|------------|------------|
| 600 | 860 | 1100 | 1160(1170) | 1250 (1350) | 1400 (1500) | 1670 | 1600(1676) | 1800(1876) | 2000(2076) |
|-----|-----|------|------------|-------------|-------------|------|------------|------------|------------|

|              |              |              |                      |                  |                  |              |                   |                   |                   |
|--------------|--------------|--------------|----------------------|------------------|------------------|--------------|-------------------|-------------------|-------------------|
| 650 x 500    | 910 x 560    | 1100 x 560   | 1160 x 600(700)      | 1350 x 600       | 1500 x 600       | 1700 x 700   | 1700 x 1000(760)  | 1900 x 1000(760)  | 2100 x 1000(760)  |
| 610 x 500    | 860 x 600    | 1100 x 600   | 1100 x 600(1150x700) | 1250(1350) x 700 | 1400(1500) x 700 | 1600 x 700   | 1600 x 1000(760)  | 1800 x 1000(760)  | 2000 x 1000(760)  |
| 18 x 5 x 100 | 18 x 5 x 100 | 18 x 5 x 100 | 18 x 5 x 100(125)    | 18 x 5 x 100     | 18 x 5 x 100     | 18 x 5 x 125 | 18 x 7 x 125(100) | 18 x 7 x 125(100) | 18 x 7 x 125(100) |
| 300          | 800          | 900          | 1000                 | 1200             | 1500             | 1500         | 2200(1800)        | 2500(2100)        | 3000(2400)        |

|             |             |              |              |                         |                         |                   |                         |                         |                         |
|-------------|-------------|--------------|--------------|-------------------------|-------------------------|-------------------|-------------------------|-------------------------|-------------------------|
| 610/500/500 | 860/600/600 | 1100/600/600 | 1100/600/600 | 1250(1350)/700/600(640) | 1400(1500)/700/600(640) | 1600/700/600(640) | 1600/1000(760)/800(700) | 1800/1000(760)/800(700) | 2000/1000(760)/800(700) |
|-------------|-------------|--------------|--------------|-------------------------|-------------------------|-------------------|-------------------------|-------------------------|-------------------------|

|        |         |         |                  |               |               |               |                   |                   |                   |
|--------|---------|---------|------------------|---------------|---------------|---------------|-------------------|-------------------|-------------------|
| 90~590 | 120~720 | 120~720 | 120~720(110~760) | 120~720 (760) | 120~720 (760) | 120~720 (760) | 200~1000(140~840) | 200~1000(140~840) | 200~1000(140~840) |
|--------|---------|---------|------------------|---------------|---------------|---------------|-------------------|-------------------|-------------------|

|                      |                             |                                   |
|----------------------|-----------------------------|-----------------------------------|
| ISO-40               | ISO-40 (ISO-50)             | ISO-50 (ISO-40)(ISO-40 (ISO-50))  |
| 10000 (12000, 15000) | 8000 (10000, 12000, 15000 ) | (ISO50:6000,8000,10000)           |
| Belt (Direct)        | Belt (Direct, Gearbox)      | Belt (Gear, Direct, Gearbox)      |
| 5.5/7.5 (7.5/11)     | 7.5/11 (11/15, 15/18.5)     | 15/18.5 (18.5/22)(11/15(15/18.5)) |

|                  |                            |                                 |                                                        |
|------------------|----------------------------|---------------------------------|--------------------------------------------------------|
| 24 (30)          | 24 (30, 36) (ISO50: 20,24) | 24 (30, 36, 40) (ISO50: 20, 24) | ISO50 20 (ISO40 24) (ISO40:24, 30,36,40, ISO50:20, 24) |
| Random           | Random                     |                                 | Random                                                 |
| ø75 / ø150       | ø75 / ø150                 |                                 | ø105 / ø210 (ø75 / ø150)                               |
| 7 / 240          | 7 / 300 (ISO50: 15/350)    |                                 | 15/350 (ISO40: 7/300) (7/300 (ISO50: 15/350))          |
| ISO-40           | ISO-40 (ISO-50)            |                                 | ISO-50 (ISO-40) (ISO-40 (ISO-50))                      |
| T-T 2.5; C-C 4.8 | T-T 2.5; C-C 4.8           |                                 | T-T 3.5; C-C 7(T-T 2.5; C-C 4.8)                       |

|          |                               |                     |
|----------|-------------------------------|---------------------|
| 12000    | 12000                         | 10000               |
| 36/36/36 | 30/30/24 (36/36/30, 48/48/36) | 24 (30/30/24)       |
|          |                               | 20/20/15 (24/24/20) |

|           |           |           |
|-----------|-----------|-----------|
| 1/4       | 1/4       | 1/4       |
| 1/4       | 1/4       | 1/4       |
| 3/4       | 3/4       | 3/4       |
| 1/2 (3/4) | 1/2 (3/4) | 1/2 (3/4) |

|     |     |     |     |     |     |     |          |          |          |
|-----|-----|-----|-----|-----|-----|-----|----------|----------|----------|
| 180 | 350 | 400 | 400 | 400 | 500 | 520 | 600(480) | 700(500) | 750(520) |
| 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200      | 200      | 200      |

|                    |                    |                    |                    |                    |                    |                    |                                |                                |                                |
|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------------------|--------------------------------|--------------------------------|
| 2600 x 3360 x 2800 | 2960 x 3570 x 3110 | 3660 x 3160 x 3110 | 3660 x 3300 x 3080 | 3960 x 3400 x 3080 | 4360 x 3400 x 3080 | 4720 x 3400 x 3080 | 4610 x 4750(3470) x 3470(3190) | 4970 x 4750(3470) x 3470(3190) | 5440 x 4750(3470) x 3470(3190) |
| 4300/4500          | 6000/6600          | 6400/6900          | 7300/7800          | 7400/7900          | 8100/8700          | 8300/8800          | 17000(20000(8700/9300))        | 18000(21000(9100/9700))        | 20000(23000(10000/10600))      |

- We reserve the right to modify the design and specification without notice in advance. Above specifications are for reference only. Correct specifications are based on actual machine.