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- Sliding Head Lathe
- Multi-Turret Turn Mill Center
- Turn Mill Center With B-Axis
- Twin Spindle Chucker

Multi Tasking Machining Range

Imported Div.

COSMOS Machine Tool Solutions



Your Partner in Progress ...





Sliding Head Lathe

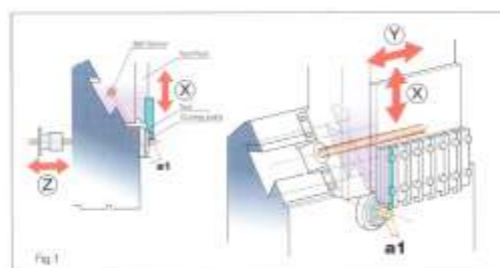
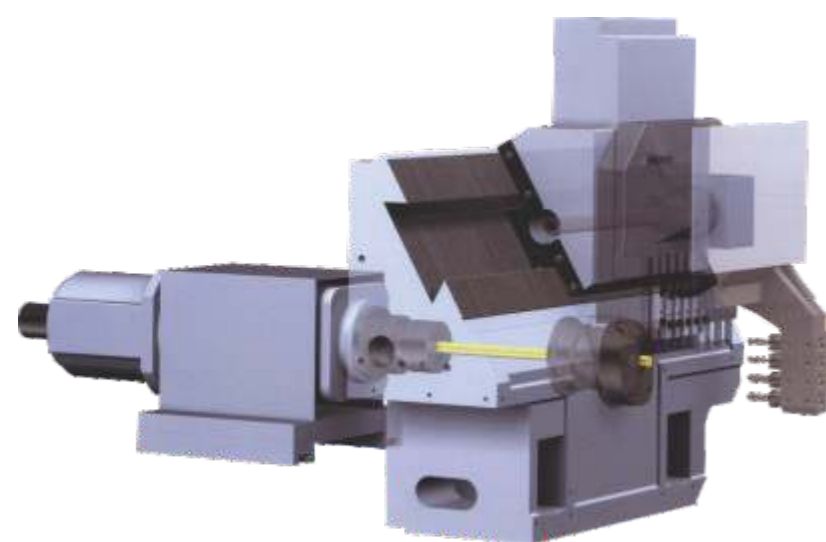
SB/SR Series

Star Micronics Co. Ltd. , Japan

Component Dia

- 10 to 38 MM
- Twin Spindle
- Upto 38 Tools Available
- Milling and Turning

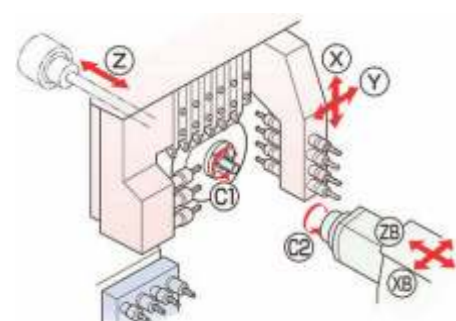
| MODEL | UNIT | SR-10J Type C | SB-20R Type G | SB-20J Type C | SB-32J | SR-38 | SR-20RIV |
|------------------------------|-------|----------------|----------------|----------------|----------------|----------------|----------------|
| TRAVEL | | | | | | | |
| Max. machining diameter | mm | Ø10 | Ø20 | Ø20 | Ø32 | Ø38 | Ø20 |
| Total no of stationary tools | mm | 18 | 18/19 | 20 | 18 | 25 | 25 |
| Total no of live tools | mm | 7 | 10 | 16 | 19 | 13 | 13 |
| Rapid feed rate | m/min | 35 | 35 | 35 | 24 | 35,15(Y2) | 36,24(Y2 Y3) |
| Main spindle indexing angle | | C-axis control | C-axis control | C-axis control | C-axis control | C-axis control | C-axis control |
| Max. spindle speed | RPM | 15000 | 10000 | 10000 | 5000 | 7000 | 10000 |
| Max. spindle motor | KW | 2.2/3.7 | 2.2/3.7 | 2.2/3.7 | 5.5/7.5 | 7/11 | 2.2/3.7 |
| Sub Spindle nose | RPM | 10000 | 9000 | 8000 | 7000 | 7000 | 10000 |
| Sub Spindle motor | KW | 0.55/1.1 | 0.55/1.1 | 0.55/1.1 | 2.2/3.7 | 3.7/5.5 | 3.7/5.5 |



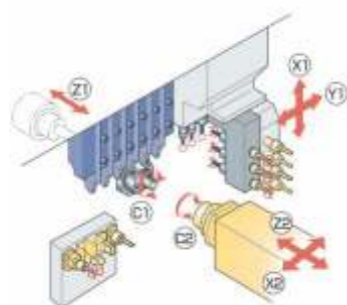
The SB series tool post employs a slant-type slide guide way structure. This enables the construction of the X and Y axes guide ways radially around the cutting point to improve machine rigidity. The construction also allows a linear line which passes the ball screw center and forms to be close to the cutting point (Fig. a1 on the right), and reduces the moment load by cutting resistance improves the tool post rigidity in the Y and Z axes directions. The Star original rigid tool post structure allows for an extended tool life and stable accuracy even in continuous machining over time.

Standard Features

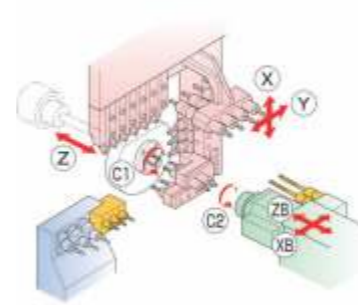
- Fanuc controller
- Hydraulic & Pneumatic Unit
- Auto lubrication unit
- Coolant level detector
- Door interlock
- Broken cut off tool detector
- Revolving guidebush
- C Axis control main 2 sub spindle
- Air purge for revolving guide bush & subspindle
- Work light



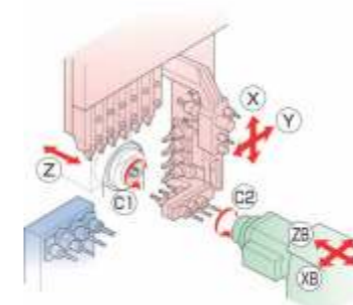
SR 10J



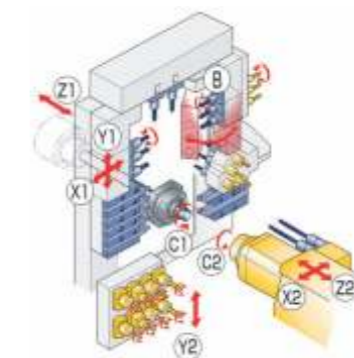
SB 20R



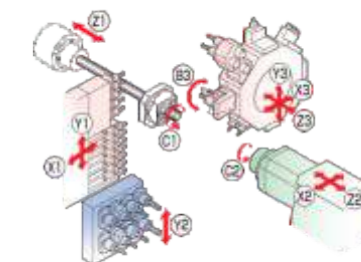
SR 20J



SR 32 / 38J



SR 20RIV / 38



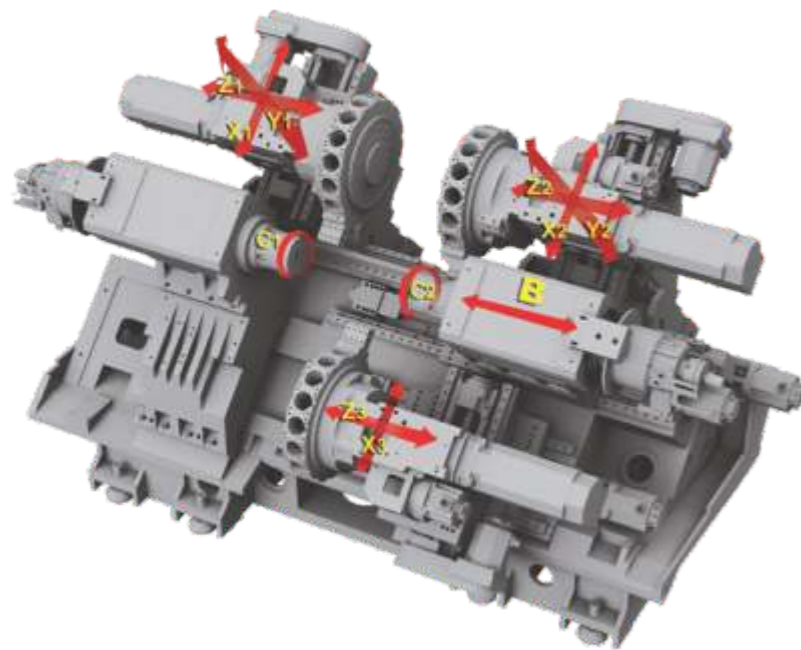
SV Series



Multi turret Multi Spindle Turnmill Center CT1/CT2/CT3 Series CC Machinery, Taiwan

Bar Capacity

- 52 & 76 MM
- Twin Spindle
- Twin turret with BMT Tooling
- Yaxis on both turrets
- 7Axis turnmill



Tailstock Option

With the CT2-52Y2MS both turrets are located at the top of the machine to allow customers the option of a central tailstock for longer work piece stability



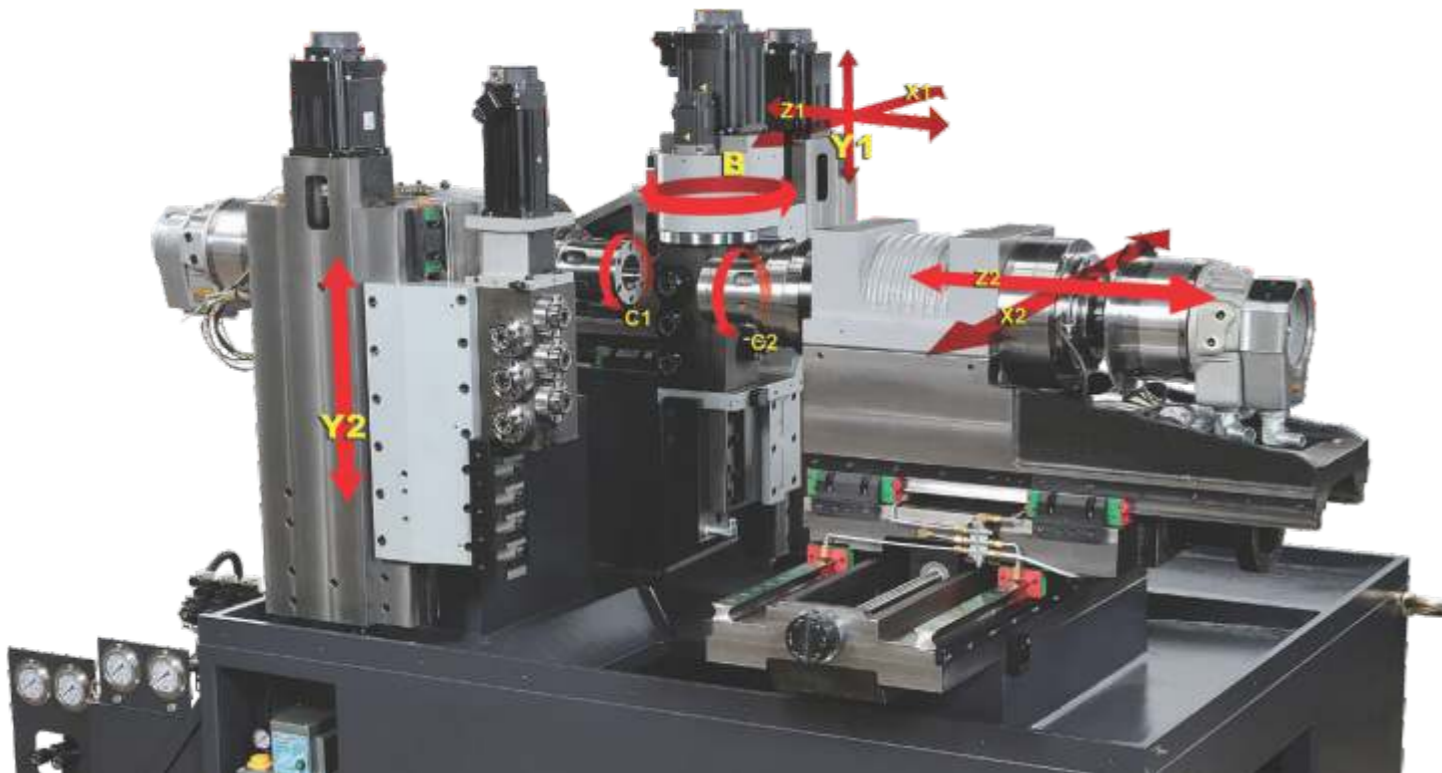
| MODEL | UNIT | CT2-52 | CT2-52YM | CT2-52Y2M(S) | CT3-52Y2M | CT2-76YM | CT2-76Y2M/CT3 |
|--|------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| No of turrets & type | | 2 | 2 | 2 | 3 | 2 | 2/3 |
| Bar capacity | | Ø51 | Ø51 | Ø51 | Ø51 | Ø76 | Ø76 |
| Max. Manu. Dia | mm | Ø360 | Ø360 | Ø360 | Ø360 | Ø360 | Ø360 |
| Standard Manu. Dia. | mm | Ø210 | Ø210 | Ø210 | Ø210 | Ø210 | Ø210 |
| Distance between two center | mm | 920 | 920 | 1045 | 1045 | 920 | 1045 |
| Max. Manu. Length | mm | 400 | 440 | 310 | 310 | 415 | 285 |
| Axis specifications | | | | | | | |
| X1,X2,X3 Axis travel | mm | 227.5/232 | 227.5/230 | 227.5/227.5 | 227.5/227.5/230 | 227.5/230 | 227.5/227.5/230 |
| Z1,Z2,Z3 Axis travel | mm | 440/440 | 440/440 | 310/250 | 310/250/440 | 382/382 | 252/250 |
| Y1, Y2 Axis travel | mm | - | ±50 | ±50/±50 | - | ±50 | ±50/±50 |
| B axis travel | mm | 650 | 650 | 775 | 775 | 530 | 655 |
| Spindle | | | | | | | |
| Spindle max | RPM | 6000 | 6000 | 6000 | 6000 | 4000 | 4000 |
| Spindle motor | | M: 7.5 / 11 kw, F :11 / 15 kw | M: 7.5 / 11 kw, F :11 / 15 kw | M: 7.5 / 11 kw, F :11 / 15 kw | M: 7.5 / 11 kw, F :11 / 15 kw | M: 7.5 / 11 kw, F :11 / 15 kw | M: 7.5 / 11 kw, F :11 / 15 kw |
| Spindle nose | | A2-5 | A2-5 | A2-5 | A2-5 | A2-6 | A2-6 |
| Chuck size | | 6" (8") | 6" (8") | 6" (8") | 6" (8") | 8" (10") | 8" (10") |
| Live tool turret | | | | | | | |
| Turret station | | 16-station | 16-station | 16-station | 16-station | 16-station | 16-station |
| Square tool | mm | □ 25 | □ 25 | □ 25 | □ 25 | □ 25 | □ 25 |
| Round tool | mm | Ø25 | Ø25 | Ø25 | Ø25 | Ø25 | Ø25 |
| Live tool rpm | RPM | - | 60-6000 | 60-6000 | 60-6000 | 60-6000 | 60-6000 |
| No of live tool | | - | 16x2 | 16x2 | 16x3 | 16x2 | 16x2/16*3 |
| Machine N.W. (Includes chip conveyor) | KG | 10200 | 10200 | 10200 | 11100 | 10300 | 11200 |

Standard Features

- Tool Kit & Box
- Collet Chuck Device
- Auto Bar Feeder Interface
- Finished Parts Catcher & Conveyor
- Cutting Fluid Device
- Auto Power Breaker
- Air-Blowing Device
- Electric Cabinet Air Conditioner
- Steel Belt Chip Conveyor & Cart

Turnmill Center with B-Axis Variable Angle Head CY2M Series CC Machinery, Taiwan

- Bar Capacity
- 52 & 76 MM
- Twin spindle with variable angle head
- Multi-tool turning & milling
- Tooled Up
- 9Axis turnmill



Application example



Optional

| MODEL | UNIT | CY2 52 M (B) |
|--------------------------|-------|--------------------|
| Max. Manu. Dia | mm | Ø51 |
| Spindle max | RPM | 6000 |
| X1/ Y1 / Z1 Axis travel | mm | 200/460/250 |
| X2/ Y2 / Z2 Axis travel | mm | 480 /460 / 270 |
| Max bar feeding | Dia | 51 |
| Spindle collet | | TRB-52 |
| Axis rapid travel speed | m/min | 30 |
| Front live tools | | 6+6 (Radial+Axial) |
| Front O.D. Turning tools | | 5 |
| Front I.D. Turning tools | | 5 |
| Back live tools | | 3+3 (Radial+Axial) |
| Back O.D. Turning tools | | 4 |
| Back I.D. Turning tools | | 4 |
| Spindle servo motor | KW | 7.5/11 |

Standard Features

- Tool Kit & Box
- Collet Chuck Device
- Auto Bar Feeder Interface
- Finished Parts Catcher & Conveyor
- Chip Washing Coolant Device & Air Blowing Device
- Cutting Fluid Pump
- Cutting Fluid Inspection Device
- Sub Spindle Air-Blowing Device
- Auto Power Breaker
- Cross Side Live Tooling Device
- Front Side Live Tooling Device
- Rear Machining Device
- Sub Spindle Finished Parts Ejector
- Air-Conditioner For Electrical Cabinet
- Built-In Spindles (Main Spindle & Sub Spindle)
- Chiller For Main Spindle & Sub Spindle
- Oil Mist Lube System
- Steel Belt Chip Conveyor

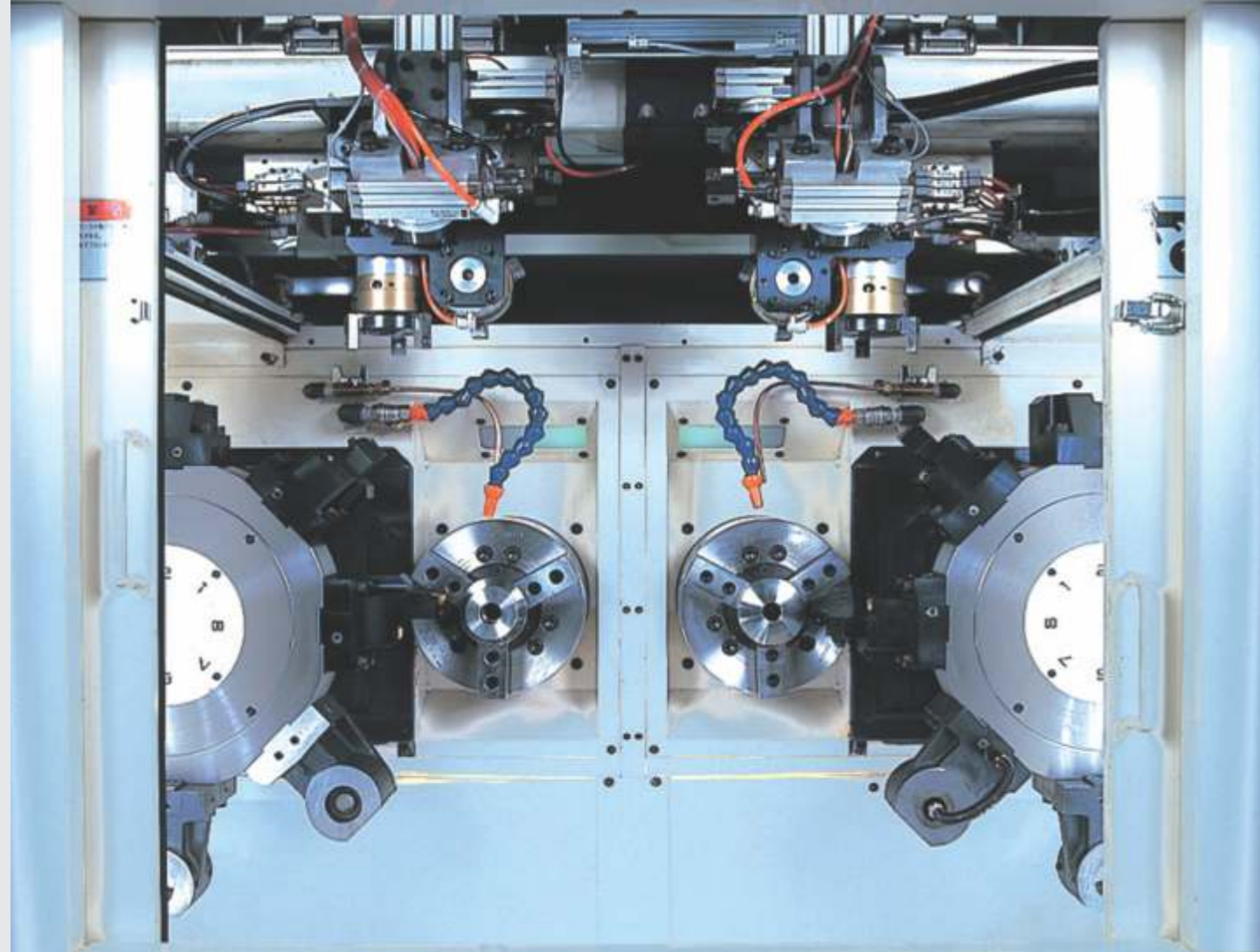
"Live Tooling is The Key to Your Versatility and Productivity"

The CY2 delivers 18 live tools to maximize your machining options.

The large number of available tools allows you to complete a job in one set-up. It also gives you the ability to process multiple complex components without the need to change tools.

This increases your productive time and reduces the need for specialized operators to be available for set-ups, easing your scheduling.

18 Live Tools



Twin Spindle Chucker

XW Series

Takamaz, Japan

Chuck Size

- 30 to 200 mm
- Autoloader integrated in the machine
- Twin Spindle twin turret
- 6-9 Sec loading time

| MODEL | UNIT | XW 30 | XW 30 Plus | XW 60 | XW 130 | XW 200 |
|----------------------|-------|------------------|------------------|---------------------|------------------|----------------------|
| TRAVEL | | | | | | |
| Optimum Turning Dia. | mm | 30 | 30 | 60 | 150 | 200 |
| Max. Turning Dia. | mm | 50 | 50 | 175 | 280 | 320 |
| Max. Turning Length | mm | 50 | 50 | 130 | 155 | 220 |
| Spindle Nose | mm | A3-S2 | A2-3 | A2-5 | A2-6 | A2-8 |
| Chuck size | inch | 3 x 2 | Collet, 3,4x2 | Collet, 6 (5 Opt.) | 8 x 2 | 10 x 2 |
| Swing bearing I.D. | mm | φ50 | φ60 | φ75 (φ65 Opt) | φ100 | φ120 |
| Spindle speed | rpm | Max. 10,000* | Max. 8,000 | Max. 4,500 | Max. 4,000 | Max. 2,800 |
| Type | | Gang type x 2 | Gang type x 2 | 8-station turret x | 8-station turret | 8-station turret x 2 |
| Max stroke | mm | X:160 | X:160 | X:125 | X:150 | X:170 |
| | | Z:200 | Z:230 | Z:140 | Z:160 | Z:220 |
| Rapid traverse rate | m/min | X:12 | X:12 | X:21 | X:24 | X:24 |
| | | Z:15 | Z:20 | Z:18 | Z:24 | Z:24 |
| Spindle motor | KW | AC 3.7 / 2.2 x 2 | AC 5.5 / 3.7 x 2 | AC 7.5 / 5.5 x 2 | AC 11 / 7.5 x 2 | AC 18.5 / 15 x 2 |
| L X W | mm | 1300 X 2000 | 1340 X 2120 | 1595 X 2005 | 1890 X 2140 | 1990 X 2330 |

Standard Features

- Fanuc 0iMF Controller
- Ethernet for program transfer
- Full splash guard
- Rigid tapping
- Portable MPG
- Heat Exchanger for electrical panel
- Coolant and air gun
- Automatic lubrication system
- Coolant system
- Oil coolant separator
- Chip Tray
- Operation lamp
- Work lamp
- Leveling pad
- Maintenance kit, Operation and maintenance manual

Our Complete Product Range

Vertical Machining Center

DTC WITH PALLET CHANGER



DRILL TAP CENTER



HIGH PERFORMANCE VMC



DOUBLE COLUMN MACHINING CENTER



DOUBLE COLUMN MACHINING CENTER



TURRET TYPE VTL



RAM TYPE VTL



Vertical Turning Centers

Horizontal Machining Centers

HORIZONTAL DRILL TAP CENTER



HIGH PERFORMANCE HMC



HEAVY DUTY HMC



HORIZONTAL BORING MACHINE



HIGH PERFORMANCE HTC



HEAVY DUTY HTC



OIL COUNTRY HTC



FLATBED LATHE



Horizontal Turning Center

5-Axis Machining Centers

5-AXIS TRUNNION TYPE



GANTRY TYPE 5-AXIS



5-AXIS UNIVERSAL HEAD TYPE



5-AXIS BRIDGE TYPE



SLIDING HEAD LATHE



MULTI TURRET TURNMILL CENTER



TURNMILL CENTER WITH B-AXIS VARIABLE ANGLE HEAD



TWIN SPINDLE



Multitasking Turnmill Centers