Production Solutions
Machining Range

COSMOS Machine Tool Solutions

Vertical Machining Center
Horizontal Machining Center
Horizontal Turning Center
Vertical Turning Center

GUJARAT
Vadodara : +91 - 76000-30976
South Gujarat : +91 - 76000-30976
Ahmedabad : +91 - 70437-35005
Rajkot & Saurashtra : +91 - 99740-61567

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Pune : +91 - 98509-89476
Kolhapur : +91 - 78758-97744
Nashik : +91 - 96378-27722
Aurangabad : +91 - 90496-93366
Mumbai : +91 - 70308-77977

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Jamshedpur : +91 - 9771456300
Kolkata : +91 - 97714-56300

NORTH INDIA
Delhi & NCR : +91 - 93500-50200
Noida & Gaziabad : +91 - 93500-75724
Gurgaon & Bhiwadi : +91 - 93500-50200
Faridabad : +91 - 95999-10370

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Hyderabad : +91 - 75670-80452
Chennai : +91 - 75740-21485
Coimbatore : +91 - 90251-68602
Bengaluru : +91-99022-00025

Sales Inquiry : +91-96620-44983
Service Line : +91-93776-66555
**Optimum Chip Proof and Immediate Detect!-AKIRA A Guarder**

AKIRA-SEIKI RMV-APC models AKIRA A Guarder design double protection for high volume machining stability. Gap between locating taper. The active strong pressure clean and immediate detect absolutely ensure light chip-stuck concern.

**Also available with 4th & 5th Axis**

Advance optimum machine tool for multi-faces productive jobs with high accuracy required and save cost.

High efficient tilting rotary table completes all the processing in one catch-up. Free-interference or various fixture application and easier.

**Table indexing angle**

- B-axis: +30° ~ -120°
- C-axis: 360°

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**Super High Speed DTC with Pallet Changer**

**RMV Series**

Akira Seiki, Taiwan

<table>
<thead>
<tr>
<th>Table Size</th>
<th>500 x 300 to 700 x 400 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>72 M/Min Rapid Z Axis</td>
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<tr>
<td>15000 Rpm spindle</td>
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<tr>
<td>24 Teeth APC Location</td>
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<tr>
<td>B140 Spindle Available</td>
<td></td>
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</table>

**Standard Features**

- Linear Guide Way On All 3 Axis
- Spindle Air Chilling
- Spindle Taper Air Blow
- Coolant Flush System Next To Spindle Nose
- Automatic Pallet Exchange, Precise Location By Big Scale Teeth Coupling
- Akira Seiki Patented Air Ring With Detective System Under Pallet
- Servo Tool Magazine
- Full Enclosure Splash guard (Adopt Non-Toxicant Painting)
- Top Cover
- Washing Gun
- M07 Air Blow For Workpiece
- M30 Auto Power Off

- User Friendly Operation Manual
- Remote Control Mpg
- Coolant Flushing Ring Under Pallet (Standard For Rmv500Apc And Rmv700Apc)
- Automatic Lubrication Unit
- Operation Status Lights (3 Colors Led Light)
- Heat Exchanger For Eletical Cabinet
- Coolant Tank With 2 High Pressure Pump
- Machine & Control Operation Manuals
- 1 Year Warranty For Machine
- 2 Years Warranty For Controller

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**MODEL**

<table>
<thead>
<tr>
<th>TRAVEL</th>
<th>UNIT</th>
<th>RMV-160RT</th>
<th>RMV-250RT</th>
<th>RMV-500 APC</th>
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<td>mm</td>
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<td>mm</td>
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<td>Dia. 250</td>
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<td>10</td>
<td>100</td>
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<td>RPM</td>
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<td>12000 (15000)</td>
<td>15000 (24000)</td>
<td>12000 (15000)</td>
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<td>12</td>
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<td>12</td>
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<td>BT 30</td>
<td>BT 40</td>
<td>BT 30</td>
<td>BT 40</td>
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<td>EA</td>
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<td>24/40</td>
<td>24</td>
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<tr>
<td>Floor space ( Length x Width )</td>
<td>mm</td>
<td>1600 x 2322</td>
<td>1900 x 2677</td>
<td>1500 x 2780</td>
<td>1900 x 3150</td>
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</table>
**Drill Tap Center**

**PC Series**

Akira Seiki, Taiwan

**Travel Ranges**
- 460 x 320 to 700 x 400 mm
- 21 Tool Servo ATC
- 1.2G Max. Acceleration / Deceleration
- 60 M/Min High Speed
- 84 Nm High Torque Minimum footprint

<table>
<thead>
<tr>
<th>MODEL</th>
<th>UNIT</th>
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<th>PC-700</th>
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<td>330</td>
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<td>m/min</td>
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<td>G</td>
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<td>BT 30</td>
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</tr>
<tr>
<td>Floor space (W x L)</td>
<td>mm</td>
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<td>2100 x 2530</td>
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</table>

**Standard Features**

- Linear Guide Ways On All 3 Axis
- Pre-Tensioned Of 3 Axis Ballscrew
- Spindle Air Chilling
- Spindle Taper Air Blow
- Coolant Flush System Around Spindle Nose
- Full Enclosure Splashguard (Adopt Non-Toxic Painting)
- User Friendly Operation Manual
- Remote Control Mpg
- High Pressure Chip Flush System
- Automatic Lubrication Unit
- Working Light
- M07 Air Blow For Workpiece
- M30 Auto Power Off
- Operation Status Lights (3 Colors Led Light)
- Heat Exchanger For Electrical Cabinet
- Coolant Tank With High Pressure Pump
- Machine & Control Operation Manuals
- 1 Year Warrantee For Mechanism
- 2 Years Warrantee For Controller
**Meehanite high quality cast iron**
assures permanent rigidity and accuracy for each Akira Seiki machine casting frame by the authorized Meehanite foundries.

**A Type Rigid Column**
Optimum span steady base with A type large box way column design, Z axis employs robust slide way and spindle head cartridge for powerful pocketing and fast milling.
(For model with Y axis travel upper 540 mm).

**Head Stock Thermal Control**
Technology of coolant circulated inside the casting head stock to maintain the constant temperature to prevent deformation which generated by spindle during cutting.

**Golden Triangular Frame**
in optimum span of bed base and guide ways supports the superior acceleration and deceleration movement.

**Vertical Machining Center**
High Performance VMC
SR Series
Akira Seiki Taiwan

**Travel Ranges**
- 550x430 to 2600x1030 mm
- 35HP Power
- 9000 rpm Spindle
- High Cutting Dynamics
- High Reliability

**MODEL** | **UNIT** | **SR-2** | **SR 3** | **SR-32** | **SR-42** | **SR-52** | **SR-45XP** | **SR-55XP**
--- | --- | --- | --- | --- | --- | --- | --- | ---
X axis travel | mm | 550 | 762 | 815 | 1050 | 1300 | 1150 | 1350
Y axis travel | mm | 430 | 430 | 540 | 540 | 540 | 640 | 640
Z axis travel | mm | 460 | 460 | 560 | 560 | 560 | 660 | 660

Rapid Rate of X/Y/Z | m/min | 30/30/24
Working surface (WxH) | mm | 560 x 380 | 700 x 380 | 950 x 480 | 1200 x 480 | 1450 x 480 | 1300 x 600 | 1500 x 600

Maximum load | KG | 576 | 792 | 1080 | 1176 | 1296 | 1560 | 1800
Spindle motor capacity | HP | 15 | 15 | 18 | 18 | 18 | 18 | 18

**Standard Features**
- Linear Guide Ways for X and Y Axis, Z In Box Way
- Spindle Air Chilling
- Coolant Through Head Stock
- Spindle Taper Air Blow
- Full Enclosure Splash guard
- Complete Back Panel
- Front Door Interlock
- Chip Screw With Chip Trolley
- Chip Flush System By An Additional High Pressure Pump
- Rigid Tapping
- Remote Control Mpg
- Heat Exchanger For Electrical Cabinet
- Twin Working Lights
- Operation Status Lights (3 Colors Led Light)
- M30 Auto Power Off
- Manual Air Blow
- Automatic Lubrication Unit
- Container For Oil / Water Separation
- 1 Year Machine Warrantee
- 2 Years Warrantee For Controller

**Choose from the below packages**

**V XP - High Performance Package**
- 35 HP 12000rpm Spindle
- 28 Tool ATC
- 12000rpm Spindle with Oil Cooler
- Screw Type Chip Conveyor

**SV - Super Performance Package**
- 42 HP Spindle with 15000rpm @ 117Nm Peak Torque
- 28 Tool ATC
- 15000rpm Spindle Oil Cooler
- Chain Type Chip Conveyor

**HV - BT 50 Performance Package**
- 28 Tool ATC
- 8000 / 6000 rpm Spindle
- No Chip conveyor
**Standard Features**

- Spindle Speed 6000Rpm
- Geared Head Spindle With BBT 50
- Spindle Oil Cooler
- X, Y & Z Axis With Roller Type Guide Ways
- 24 Tools Arm Type Atc
- Manual Pulse Generator
- Coolant Splash Guard
- Two Chip Screw & One Belt Type Chip Conveyor
- With Bucket
- Heat Exchanger For Electric Cabinet
- Programmable Coolant System
- Spindle Air Blast
- Automatic Power Off
- Transformer
- Working Lamp

**Monobridge**

- Column & Beam is made from SINGLE PIECE Casting
- This “MonoBridge” design drastically improves machine capability to execute high-speed machining for roughing, semifinishing and finishing operations.

**Hydraulic Counter-balance on Z-axis**

The Z-axis movement is counter-balanced by two hydraulic cylinders, ensuring outstanding smoothness and stability of Z-axis movement.

**Accumulator**

The accumulator is used to supply pressure source to the hydraulic cylinders, allowing the Z-axis to move smoothly.

**Efficient Chip Evacuation**

The right and left side of base are equipped with two chip augers for delivering chips to the front mounted link chain type chip conveyor.

**Directly Coupled To Ball Screw**

The servo motor on the axes is directly coupled to the ball screw with a coupling, that eliminates backlash while achieving high transmission accuracy.

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**Double Column Machining Center**

**Zeus Series**

Cosmos, Taiwan

**Travel Ranges**

- 2000 x 1200 to 3000 x 1500 mm
- 8000 rpm spindle
- BBT50 Spindle
- Mono Bridge design
- Step type beam heavy duty structure

<table>
<thead>
<tr>
<th>MODEL</th>
<th>UNIT</th>
<th>Z-2212</th>
<th>Z-2215</th>
<th>Z-3212</th>
<th>Z-3215</th>
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<td>3000 x 1100</td>
<td>3000 x 1300</td>
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<td>4000</td>
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<td>960</td>
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<td>Max Daylight</td>
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<td>BBT 50</td>
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<td>Tool storage capacity</td>
<td>EA</td>
<td>24</td>
<td>24</td>
<td>24</td>
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</tbody>
</table>
### Double Column Machining Center
#### Maximus Series
**Cosmos, Taiwan**

**Travel Ranges**
- 2000 x 1600 to 6200 x 2800 mm
- 6000 Rpm spindle
- BBT50 Spindle
- 710Nm Torque
- Step type beam heavy duty structure
- Auto attachment changer

### Standard Features
- Fanuc Oi Mf
- Spindle Speed 4000 Rpm
- Geared Head Spindle With Bt 50
- Spindle Oil Cooler
- X & Y Axis With Roller Guide Ways
- Z Axis With Box Guide Ways
- 24 Tools Arm Type Atc
- Manual Pulse Generator
- Coolant Splash Guard
- Two Chip Screw & One Belt Type Chip Conveyor With Bucket
- Automatic Lubrication Unit
- Heat Exchanger For Electric Cabinet
- Coolant System
- Spindle Air Blast
- Automatic Power Off
- Working Lamp
- Transformer

### Step Type Beam for Improved Cutting Stability
The oversized beam is of step type construction, that allows for better stability during cutting.

Two Roller LM Guide are mounted one LM Guide on top and one in the front for minimizing deflection due to heavy cutting.

### Beam is scientifically reinforced by heavy ribbing

### Heavy Cutting Spindle High Gear Ratio (4000 RPM)

15/18.5 kW Spindle with Geared head churning out a massive 710 N.m of torque.

Geared head with high/low gear ratio handles both high speed machining and heavy cutting application.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>UNIT</th>
<th>M 2218</th>
<th>M 2718</th>
<th>M 3218</th>
<th>M 2224</th>
<th>M 2724</th>
<th>M 3224</th>
<th>M 4224</th>
<th>M 6224</th>
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<td>15/18.5 (22/26)</td>
<td>15/18.5 (22/26)</td>
<td>15/18.5 (22/26)</td>
<td>15/18.5 (22/26)</td>
<td>15/18.5 (22/26)</td>
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</tbody>
</table>
Compact HMC
Available in 4 Axis and 5 axis Configuration

H3XP
4 Axis HMC

H250RT
5 Axis HMC

Table Size
- 320 x 320 mm
- 12000 rpm spindle speed
- 48 rpm/min rapid speed
- 5 Axis Available
- HSM Ready
- Multi Pallet Pool

<table>
<thead>
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<th>MODEL</th>
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<th>H3XP</th>
<th>H250RT</th>
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<tr>
<td>Z axis travel</td>
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<td>350</td>
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<td>Rapid Rate of X/Y/Z</td>
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<td>48 / 48</td>
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<td>HP</td>
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<tr>
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<tr>
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<tr>
<td>Floor space ( Width x Length )</td>
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<td>1760 x 4040</td>
<td>1760 x 3400</td>
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</tbody>
</table>

Standard Features
- Fanuc BIMF Controller
- Ethernet for program transfer 24 Tool arm type automatic tool changer
- Belt drive spindle
- 2-axis servo brake
- LM Guideways on all axes
- Full splash guard
- Rigid tapping
- Portable MPG
- Heat Exchanger for electrical panel
- Air and air gun
- Automatic lubrication system Coolant system
- Oil coolant separator
- Chip Tray
- Operation lamp
- Work lamp
- Levelling pad
- Maintenance kit, Operation and maintenance manual
Robust and Precision Machine Bed
The major construction parts are based on Meehanite cast iron which is structurally stable, ensuring machine quality permanently.

Mechanical Design
Robust and Precision Machine Bed

Mechanical Rigidity
Unique rib construction. Wide base and robust structure ensure steady machining against heavy loads.

Spindle with quick reacting and high tool-pulling force

The spindle only takes 1.7 seconds to accelerate from 0 to 6000 RPM.

The spindle only takes 1.2 seconds to decelerate from 6000 RPM to 0.

Spindle tool-pulling force

1800 kgf (17000N)

Spindle with high tool-pulling force, providing tool clamping and high rigidity, enhancing machining rigidity.

Unique IDD Spindle Transmission

LH-500/LH-630A

Standard Features

- Spindle Rpm: 6000Rpm & 8000Rpm
- Spindle Oil Cooling System
- Spindle Air Seal System
- Spindle Direct Transmission
- 3-Axis Roller Linear Rail
- 3-Axis Hollow Ballscrew Cooling System
- pallet 1 Division
- pallet M16 Fixing Holes
- Splash Ring
- Track Type Chip Conveyor System
- Chip Cart
- Indoor Chip Auger

- Mechanical Oil-Coolant Separator
- Overhead Chip Wash Down System
- Disc-Type Coolant Separator
- Front Door / Side Door Safety Switch
- Tool Storage Capacity 40T
- Tool Specification 8Bt
- M30 Automatic Power Off System
- Working Light (Lighting)
- Warming Light
- Electrical Cabin Heat Exchange System
- Fanuc 0Mf
Box-in-Box Construction
The design of our X-axis has slideways on both top and bottom of our Box-in-Box construction. Designed with twin drive simultaneous ball screw this enhances the balance and greatly increases the rigidity ensuring accuracy under all conditions.

### Standard Features
- Fanuc Oi-M Controller
- Automatic pallet changer
- Linear Scales for X, Y & Z Axis
- Screw Type Chip Disposal Equipment
- Steel Belt Type Chip Conveyor
- Coolant Unit
- Coolant through spindle 17 Bar
- Deluge Coolant
- Coolant System Around The Spindle
- Oil Skimmer
- Coolant Gun
- Hydraulic Unit
- 40 Tools ATC
- Spindle Air Blast System
- Dual Speed Gearbox
- Panel Ac
- Rigt Tapping
- Full Enclosure Guarding
- Auto Lubrication Unit
- Protection Covers For Slideways
- Tool Box
- Signal Tower Light
- Working Lamp
- Leveling Pads & Screw
- Operation Manual
### Horizontal Boring Machine
**HBM Series**
You Ji Taiwan

**Spindle Bore Size**
- 110 x 130 Available
- Working Range of 2x1.8 x 1.2 M up to 5.5x1.8 x 1.2 M
- Various head can be configured

### Standard Features
- Fanuc Oi-Mf
- Rotary Table
- Dual Speed Gearbox
- Spindle Air Blast System
- Side Coolant For Spindle
- Oil Mist Lubrication System For Spindle
- Rigid Tapping
- Hyd. System
- Auto Lubrication Unit
- Coolant System
- Screw Type Chip Disposal Equipment
- Steel Belt Type Chip Conveyor
- Telescopic Covers For Side Ways
- Panel Ac
- Lighting Inside The Electrical Cabinet
- Working Lamp
- Signal Tower Light
- Manual Pulse Generator
- Levelling Bolt & Blocks
- Ethernet Socket

### TRAVEL

<table>
<thead>
<tr>
<th>MODEL</th>
<th>UNIT</th>
<th>HBM 110</th>
<th>HBM 130</th>
</tr>
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<tbody>
<tr>
<td>X axis travel</td>
<td>mm</td>
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<td>2500 (upto 5500)</td>
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<tr>
<td>Y axis travel</td>
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<td>1800 (upto 3000)</td>
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<td>Rapid Rate of X/Y/Z/W</td>
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<td>Working surface ( W x L )</td>
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<td>Table loading capacity</td>
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<td>Max spindle speed</td>
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<td>22/26</td>
<td>37/45</td>
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<td>Type of tool shank</td>
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<td>B Axis rotation angle</td>
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<td>as per request</td>
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<tr>
<td>Power Capacity</td>
<td>KVA</td>
<td>110</td>
<td>110</td>
</tr>
</tbody>
</table>

### Optional Features
- Manual Extension Milling Head
- Manual 90° Milling Head
- Manual Universal Milling Head
- Manual 90° Extension Milling Head
- Spindle Supporting Sleeve

---

**CUTTING EDGE TECHNOLOGY - HYDROSTATIC SYSTEM ON B AXIS**
- The YOU Ji designed Rotary Table uses the latest Hydrostatic technology, our system can carry a maximum of 15 tons (Option).
- High precision B axis provides ±7.5” positioning accuracy, and ±5” repeatability accuracy.
- The combination of the 3 axis of the machine and B axis allows from-axis-machining capability, which provides all necessary criteria machining needs of complex work pieces.
- The Floating Braking System ensures superior accuracy and stability even under heavy cutting.

---

**TRIPLE COOLING / Temperature Control = Accuracy Control**
1. First Cooling: Oil cooling for external spindle sleeve.
2. Second Cooling: Oil mist cooling for spindle bearing.
3. Third Cooling: Oil cooling for boring spindle.

---

**Horizontal Machining Centers**
Cosmos Production Machining Range
Two-stepped Rigid Base Support
To enforce the steady rigidity while fast feeding cut, Turning Center base designed in dual level of Z axial guide ways. This increased contact face by both lower and upper guide way obtain more cutting rigidity than conventional only one contact face

Reinforced Frame Construction
AKIRA-SEIKI Turning Center casting are steady as rock to perform excellent dynamic accuracy and vibration absorption while rapid cutting.

The internal ribs of each key casting elements like base, column, head cartridge and saddles are enforced for deformation-resistant and antidamp vibration.

AKIRA-SEIKI SL models with fully two-stepped guide ways with fully balance contact support (Available for LS15(L)/LS15(L)/LS40(L) only)

Tooling Interference
Polygon 10/12T Turret for 2 axis model
mm/inch

Standard Features
- Pre-Tensioned Of 2 Axis Ballscrew
- Hydraulic System For Chuck Clamp (Same Unit For Tailstock / Quill Clamp While Equipped)
- Manual Tailstock (S12D)
- Programmable Tailstock (S330(L) / S335(L) / S40)
- Coolant Flush System (1 Individual Pump)
- MOT Auto Air Blow For Work Piece
- Soft Jaws And Hard Jaws * 1 Set 3 Pcs (Not Include S15 Collect Chuck)
- Padel Switch For Chuck Clamp / Unclamp
- Bar Feeder Interface (N/A For S40)
- Heat Exchanger For Electrical Cabinet
- Operation Status Lights (3 Colors Led Light)
- Automatic Lubrication Unit
- Container For Oil / Water Separation
- 1 Year Machine Warrantee
- 2 Years Warrantee For Controller
- Target Parts Number Setter Inside Nc (Software Only)
- Remote Mpg Control

Max Swing Dia
- 450 x 750MM
- True Slant Bed Structure
- LM Guideways in all Axes
- High torque available
- Live tool opt.

<table>
<thead>
<tr>
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<td>950:1500</td>
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<td>6&quot;</td>
<td>8&quot;</td>
<td>8&quot; (Opt 10&quot;)</td>
<td>10&quot; (Opt 12&quot;)</td>
<td>10&quot; (Opt 14&quot;)</td>
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<td>220+20</td>
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<td>A 2-5</td>
<td>A 2-6</td>
<td>A 2-6</td>
<td>A 2-6</td>
<td>A 2-11</td>
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<tr>
<td>Rapid feed rate (X/Z)</td>
<td>m/min</td>
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<td>36/36</td>
<td>36/36</td>
<td>36/36</td>
<td>30/30</td>
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<td>Tailstock travel</td>
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<td>570:1970</td>
<td>975:1520</td>
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<td>MT 3</td>
<td>MT 4</td>
<td>MT 4</td>
<td>MT 4</td>
<td>MT 5</td>
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</table>

High Performance HTL
Akira SL Series
Akira Seiki, Taiwan
**Highly rigid machine structure**
- A one-piece Meehanite casting delivers significant benefits for precision turning. The rigid base evenly dissipates vibration and heat throughout its entire structure.
- A robust slant bed design supports the spindle, turret and tailstock for additional rigidity. This design also facilitates chip disposal.

**Tool interference for hydraulic turret**

**Highly efficiency turret**
- The turret’s high precision curvic coupling ensures powerful hydraulic clamping - even for your heaviest cuts.
- A non-stop, random indexing system makes tool changes quick and minimizes non-cutting time.
- Through turret coolant flushes chips away and delivers superior surface finishes.

**Highly precision way system**
- Box ways on the X/Z axes provide the rigidity for heavy and interrupted cuts.
- AC servo motors drive the X/Z axes ballscrews for fast acc/dec rates and maximum thrust.
- Pre-tensioned ballscrews reduce thermal deformation and enhance machining accuracy.

**Programmable hydraulic tailstock**
- Ultra rigid structure fully supports parts to eliminate vibration.
- Fully programmable and easy-to-use.

The YH36/50/60 models are equipped with a rotating (built-in-type) live center. The quill is controlled by the CNC program.

**Heavy Duty HTC**

**YH Series**

**YOU JI, Taiwan**

**Max Swing Dia**
- 560 to 900mm
- 600+ NM Torque
- Heavy duty design
- Box guide ways in all axes
- Live tool
- True slant bed

---

<table>
<thead>
<tr>
<th>MODEL</th>
<th>UNIT</th>
<th>YH-21</th>
<th>YH-28</th>
<th>YH-36</th>
<th>YH-50</th>
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<td>mm</td>
<td>560</td>
<td>680</td>
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<td>900</td>
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<td>mm</td>
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<td>390</td>
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<td>590</td>
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<td>430</td>
<td>600</td>
<td>680</td>
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<td>1 1/2&quot;</td>
<td>2&quot;</td>
<td>2 1/2&quot;</td>
<td>3 1/2&quot;</td>
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<td>X Axis travel</td>
<td>mm</td>
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<td>-40~+215</td>
<td>-30~+300</td>
<td>-30~+340</td>
<td>-30~+360</td>
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<td>mm</td>
<td>-400</td>
<td>-40~+1100</td>
<td>-470</td>
<td>-499</td>
<td>-520</td>
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<td>Max. spindle speed</td>
<td>RPM</td>
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<td>3000</td>
<td>1-950; 950~2000</td>
<td>1-1350; 1350~3000</td>
<td>1-1850; 1850~3600</td>
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<td>Spindle nose</td>
<td>A 2-6</td>
<td>A 2-8</td>
<td>A 2-11</td>
<td>A 2-11</td>
<td>A 2-11</td>
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<td>Bar capacity</td>
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<td>74</td>
<td>89</td>
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<td>Rapid feed rate ( X/Z )</td>
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<td>Tailstock travel</td>
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<td>499; 1-1149</td>
<td>1335; 1-1835</td>
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<td>MT 5</td>
<td>MT 4/MT5</td>
<td>MT5 (Rotary quill)</td>
<td>MT5 (Rotary quill)</td>
<td>MT5 (Rotary quill)</td>
</tr>
</tbody>
</table>

**Standard Features**

- Spindle Motor
- Dual Speed Gearbox
- Fanuc Oi T
- Hydraulic Chuck
- Hard Jaws
- Soft Jaw
- Foot Pedal
- Hydraulic Tailstock
- Rotary Quill Tailstock
- Live Center
- Coolant Pump
- Manual Steady Rest - Yh 50
- Hydraulic Turret
- Od Tool Holder
- Boring Bar Holder
- Boring Bar Bush
- Bmt Turret + C Series
- Hydraulic Unit
- Heat Exchanger For Hyd Oil
- Heat Exchanger For Electrical Cabinet
- Auto Lubrication Unit
- Side Exit Chip Conveyor
- Chip Bucket
- Full Enclosure Guarding
- 3 Stage Signal Tower
- Working Lamp
- Machine Manual
Three step gearbox
Experience the power with the You Ji-built, 3-speed gearbox on all AH Series machines. The optimum-designed gear ratio performs continuous full power output during gear shifting, achieves substantially more torque than other gearbox alternatives.

Spindle front and rear chucks
Spindle big bore front & rear chucking system is applicable to long shaft machining. This solution efficiently reduces windup and distortion of the workpiece, while increasing machining accuracy and stability.

<table>
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<tr>
<th>MODEL</th>
<th>UNIT</th>
<th>AH-06</th>
<th>AH-09</th>
<th>AH-12</th>
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<tr>
<td>Max. cutting length</td>
<td>mm</td>
<td>1000; I:2100; II:3200</td>
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<td>inch</td>
<td>Manual chuck</td>
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<td>232</td>
<td>306</td>
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<td>No of tool station</td>
<td>EA</td>
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<td>Rapid feed rate (X/Z)</td>
<td>m/min</td>
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<td>Milling option</td>
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<tr>
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<td>900; I:2000; II:3100</td>
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<tr>
<td>Tailstock taper</td>
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<td>MT 5</td>
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</tbody>
</table>

Standard Features
- Fanuc Oi-T Controller
- Hydraulic Chuck
- Hard Jaws
- Soft Jaw
- Foot Pedal (Hydraulic Chuck)
- Foot Pedal (Tailstock)
- Hydraulic Tailstock
- Live Center
- Coolant Pump
- 12 Station Hyd Turret
- Face Tool Holder
- Boring Bar Holder
- Boring Bar Bush
- BMT Power Turret
- Hydraulic Unit
- Hydraulic Oil Cooler
- Auto Lubrication Unit
- Heat Exchanger
- Chip Conveyor
- Chip Trolley
- Full Enclosure Guarding
- Signal Tower Light
- Working Lamp
- Tool Box With Tools
- Operation Manual And Part List

Horizontal Turning Centers
Controller: Fanuc 0i-TD
Spindle 4-Steps Speed Auto. Change
XZ-Axes Auto. Lubrication System
XZ-Axes With Turcite-B
XZ-Axes C3 Ball Screw
Rear Chain Type Chip Conveyor
Manual Tailstock
Quill 125Mm For DHL Model
Strong Manual /Electric Tailstock

Standard Features
- Controller Fanuc 0i-TD
- Spindle 4-Steps Speed Auto. Change
- X2-Axes Auto. Lubrication System
- X2-Axes With Turcite-B
- X2-Axes C3 Ball Screw
- Rear Chain Type Chip Conveyor
- Manual Tailstock
- Quill 125Mm For DHL Model
- Strong Manual /Electric Tailstock
- Quill Ø 208Mm For DHK Model
- (Manual Quill, Motorized Base )
- Steady Rest 16”
- Coolant System
- Full Enclosed Splash Guard
- Heat Exchanger
- Dead Center
- Tools & Tool Box
- Operational Manual

Flatbed Lathe
DHL/DHK Series
Denver, Taiwan

| MODEL       | UNIT   | TRAVEL | Swing over bed | Swing over cross slide | Admit between center | Spindle bore | Spindle nose | Bed width | X Axis travel | Z Axis travel | Spindle range | Spindle speed | Spindle motor | Turret type | Tailstock | Steady rest |
|-------------|--------|--------|----------------|------------------------|----------------------|--------------|--------------|-----------|---------------|---------------|----------------|---------------|---------------|-------------|-------------|------------|-------------|
| DHL-460     | AL-460 | mm     | 460            | 260                    | 100                  | 70           | A2-6(Opt A2-8) | 317       | 230           | 152           | 1500; I:3000; II:4000; III:6000; IV:9000; V:12000 | 1800 ( Opt 3000 ) | 7.5          | Manual 4 way; other available | Carried by saddle | As per request |
| DHL-560     | AL-560 | mm     | 560            | 360                    | 110                  | 110          | A2-11; A2-15; A2-20 | 500       | 600           | 152           | 2000; I:3000; II:4000; III:6000; IV:9000; V:12000 | 500; I:1000; II:1500; III:2000; IV:3000; V:4000 | 22/26 (Opt 30) | H4 Hydraulic turret; other available | Manual / Motorized | As per request |
| DHL-720     | AL-720 | mm     | 600            | 600                    | 610                  | 1120         | A2-11; A2-15; A2-20 | 610       | 610           | 152           | 2000; I:3000; II:4000; III:6000; IV:9000; V:12000 | 500; I:1000; II:1500; III:2000; IV:3000; V:4000 | 22/26 (Opt 30) | H4 Hydraulic turret; other available | Manual / Motorized | As per request |
| DHL-1120    | AL-1120| mm     | 960            | 960                    | 810                  | 1220         | A2-11; A2-15; A2-20 | 810       | 810           | 152           | 2000; I:3000; II:4000; III:6000; IV:9000; V:12000 | 500; I:1000; II:1500; III:2000; IV:3000; V:4000 | 22/26 (Opt 30) | H4 Hydraulic turret; other available | Manual / Motorized | As per request |
| DHL-1220    | AL-1220| mm     | 1220           | 1220                   | 810                  | 1420         | A2-11; A2-15; A2-20 | 810       | 810           | 152           | 2000; I:3000; II:4000; III:6000; IV:9000; V:12000 | 500; I:1000; II:1500; III:2000; IV:3000; V:4000 | 22/26 (Opt 30) | H4 Hydraulic turret; other available | Manual / Motorized | As per request |
| DHK-960     | DHK-960| mm     | 1220           | 1220                   | 810                  | 1300         | A2-11; A2-15; A2-20 | 810       | 810           | 152           | 2000; I:3000; II:4000; III:6000; IV:9000; V:12000 | 500; I:1000; II:1500; III:2000; IV:3000; V:4000 | 22/26 (Opt 30) | H4 Hydraulic turret; other available | Manual / Motorized | As per request |
| DHK-1120    | DHK-1120| mm   | 1320           | 1320                   | 810                  | 1420         | A2-11; A2-15; A2-20 | 810       | 810           | 152           | 2000; I:3000; II:4000; III:6000; IV:9000; V:12000 | 500; I:1000; II:1500; III:2000; IV:3000; V:4000 | 22/26 (Opt 30) | H4 Hydraulic turret; other available | Manual / Motorized | As per request |
| DHK-1220    | DHK-1220| mm   | 1420           | 1420                   | 810                  | 1620         | A2-11; A2-15; A2-20 | 810       | 810           | 152           | 2000; I:3000; II:4000; III:6000; IV:9000; V:12000 | 500; I:1000; II:1500; III:2000; IV:3000; V:4000 | 22/26 (Opt 30) | H4 Hydraulic turret; other available | Manual / Motorized | As per request |

Horizontal Turning Centers
Admit Between Center
- 1500 Upto 10000 MM
- Bedwidth 610 Upto 1160 MM
- Spindle Nose A2-11 Upto A2-20
- Backside chuck optional
**Turret type VTL**

**CY Series**

**YOU JI, Taiwan**

- **Chuck Size**
  - 8 to 32 inch
  - C Axis with live tooling option
  - Twin machine LH & RH Available
  - Heavy duty cutting design

### MODEL Specifications

<table>
<thead>
<tr>
<th></th>
<th>UNIT</th>
<th>CY-275H R/L</th>
<th>CY-550H R/L</th>
<th>CY-750H R/L</th>
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<td>Chuck size</td>
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<td>X Axis travel</td>
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<tr>
<td>Spindle nose</td>
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### Standard Features

- Check size
- 8 to 32 inch
- C Axis live tooling option
- Twin machine LH & RH Available
- Heavy duty structure
One Piece Column Structure

VTL 1000-2500 series

The high rigidity box type symmetric column structure is fitted to machine base. The heavily walled and multi ribbed design minimizes the thermal distortion, withstanding static and dynamic torsion, ensures a high rigid end stable machine assembly.

The large vertical turning lathes are equipped with cross roller bearing. The bearing, with the characteristics of high precision, high loading and high rigidity, is suitable for machining large and non-symmetrical work pieces.

Table Diameter
- 1000 to 6000 mm
- ATC Available
- C Axis live tooling option
- Twin ram option
- Heavy duty structure

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Standard Features
- Fanuc 0i-T Controller
- 4 Jaws Manual Chuck
- Yv1000 (40°), Yv1200 (49°), Yv1600 (63°)
- Dual Speed Gearbox
- Hydraulic Unit
- Coolant Unit
- Pressure Relief Automatic
- Lubrication System
- Air Conditioner For Electrical Cabinet
- Chip Conveyor And Chip Bucket
- Working Lamp
- 5 Station Turret (A Series)
- 12 Positions Tool Magazine (ATC Series)
- 16 Positions Tool Magazine (AtcRC Series)
- Tool Box With Tools
- Operation Manual
- Square Guarding
COSMOS: Service Support

COSMOS, as a leading provider of machine tools services, is dedicated to enhancing our customer experience at every level of the organization. We do this through providing world class products supported by customer-focused services and support in the form of COSMOS Service Line. Our goal is rewarding growth through exceeding the expectations of our customers every day.

Field Service
Qualified machine tool service keeps your business running. Our quick response times with knowledgeable, factory-trained engineers give us a distinct edge in our service capabilities. With our wide service network, our engineers are always a phone call away. May it be preventive maintenance or disaster management, our service team has you covered for it all. The Cosmos service team will help maintain your machines for the many years to come.

Training
Get more out of your machines through proper training of your operating team at the COSMOS Training Center. On machine training can be conducted giving the user an edge & added expertise on machine usage. Our application, programming, and service training modules will facilitate more efficient usage of your machine. Topics include machine servicing, hands-on operation, and Basic CNC programming.

COSMOS Service Line is the first of its kind in the country. It is a centralized system to maintain & record all service complaints the first calling point for all customers anywhere in India and with completely auto-tracking system for each problem until it is resolved. Once a complaint is registered, on the spot troubleshooting is provided by our Sr. Engineers and if unresolved an engineer visit is scheduled.

Service Line No: +91-9377666555 and E-mail: serviceline@cosmos.in

COSMOS: Moving Towards Industry 4.0

Through A Digital Factory Solution

Problems

- Inaccurate Manual Data
- Boxes of Paper reports DAILY
- No real-time data monitoring

Solution

- Data directly from controller
- Minimal human intervention
- Real-time data acquisition
- PC/Mobile Applications
- Link production/maintenance/marketing and development

Results

- 20% Increase in Productivity
- 99% Data Accuracy
- 3 Months Return on Investment
- ₹ 25% More efficient programs
Our Complete Product Range

Horizontal Turning Center
- HTC
- Heavy Duty HTC
- Oil Country HTC
- Flatbed Lathe
- HMC
- High Performance HMC
- Heavy Duty HMC
- Horizontal Boring Machine
- DTC with Pallet Changer
- Drill Tap Center
- High Performance VMC
- Double Column Machining Center
- Double Column Machining Center
- Vertical Turning Centers
- Turret Type VTL
- Ram Type VTL
- DTC with Pallet Changer
- Drill Tap Center
- High Performance VMC
- Double Column Machining Center
- Vertical Machining Center
- YOU JI
- GSA
- MAXXTRON TECHNOLOGY CO., LTD.
- MAXXTRON

Horizontal Machining Centers
- 5-Axis Machining Centers
- 5-Axis Trunnion Type
- Gantry Type 5-Axis
- 5-Axis Universal Head Type
- 5-Axis Bridge Type
- Vertical Machining Centers
- YOU JI
- GSA
- MAXXTRON TECHNOLOGY CO., LTD.
- MAXXTRON

Multitasking Turnmill Centers
- Twin Spindle
- Multi Turret Turnmill Center
- Turnmill Center with B-Axis Variable Angle Head
- Sliding Head Lathe
- GSA