CELEBRATING 33 YEARS OF EXCELLENCE

JAEWOO MACHINES

FUTURE FACTORY Industry 4.0

# Machineering at its **Best...**


## Jaewoo Machines Pvt. Ltd.

(Formerly known as J.V. Exports)

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# About **Us**

Jaewoo is one of the leading brand name in the manufacturing of CNC, VMC, HMC with PAN India presence. We are ranked among Top 10 manufacturer in India and have a wide network of sales and service across all major cities. With a humble beginning in 1988, we have come a long way and optimize our product offerings and our production facilities to meet customer demands.

## Vision

We will have 5000 machines installation with best ROI for our customers by 31st March 2025

## Mission

To provide Technology Solutions for our customers and help them grow

## Values

Innovation, Quality, Integrity, Growth

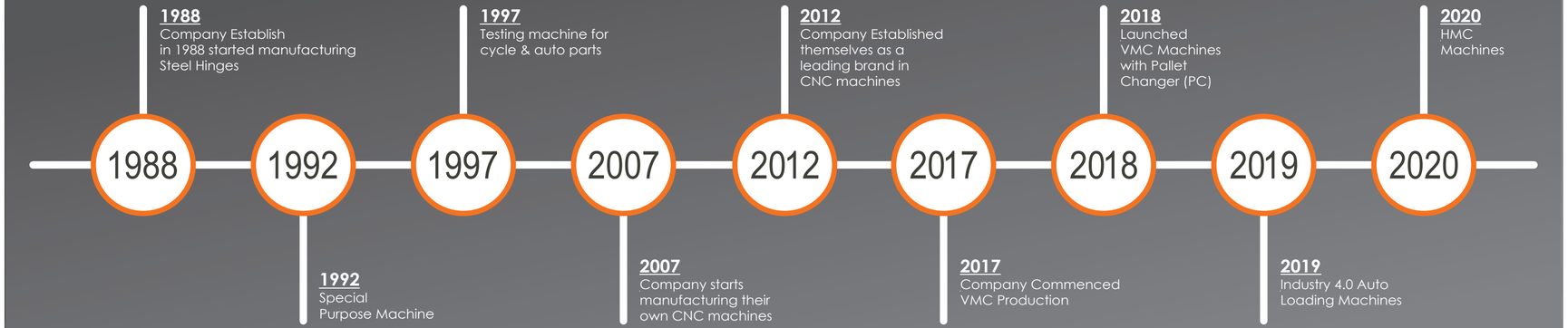
# Why **Jaewoo ?**

Jaewoo as a reputed brand has established astrong presence in the market. The businessworks hard to deliver the best quality products. Each ready product is put through stringent quality checks to ensure that it meets the highest standards possible. With high grade cast iron for highest rigidity, It is filled with a special epoxy '**Harcrete**' for vibration damping to enable heavy cuts for best surface finish & tool life. Thermostable technology results in Minimal Thermal Growth of Ballscrew. This ensures no variation in size after machine is re-started after stoppage.

# Jaewoo **Advantages**

- Heavy rate of metal removal
- Better surface furnish & longer tool life
- Much longer service life with original accuracy
- Better positioning and repeatability resulting in close tolerances on job
- Widest range of models are also available with customized solutions. All ART+ Series models areavailable in turnmill centre version.

# Our Journey of Machineering



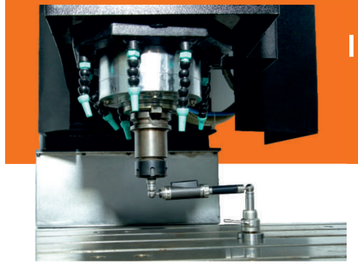
# Our Plant

Unit-1

Unit-2



## BALL BAR INSPECTION



## LASER CALIBRATION


All Machines are Laser Calibrated for positioning accuracy, repeatability and finally inspected with Ball Bar Test for geometrical errors and Circular interpolation accuracy before dispatch.

# ARV 500

## STANDARD FEATURES OF THE MACHINES

- Linear Motion Roller Guide ways for X, Y and Z-axis.
- Hardened and ground ball screws.
- Direct-coupled servomotors to the ball screws.
- High performance digital motors for spindle and axes.
- Heavy Duty cast structures.
- Absolute encoders for all the Axes.
- Fast cam driven Electro-mechanical Auto Tool Changer.
- Siemens 828 CNC System.
- Machine Guard with efficient coolant and chip flow.
- Electronic Counter balance.
- Spindle taper Air Blow.
- MPG.
- Levelling pads.
- Centralized Lubrication system.
- Rigid Tapping.
- Coolant System.
- TPM Friendly Machines.
- Auto retrieval for ATC.

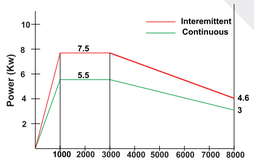
## OPTIONAL FEATURES AT EXTRA COST:

- Chip Conveyor.
- Fanuc 0iMF Plus Controller.
- Higher RPM Spindle.
- Coolant Thru Spindle (CTS).
- Coolant gun.
- Spindle mounted probe.
- Table mounted probe.
- Electronic edge finder.
- Coolant filtration system.
- Panel AC for electrical Panel.
- Oil skimmer for coolant.
- 4th axis option NC Rotary table.
- 4th and 5th axes NC Rotary cum tilting table.

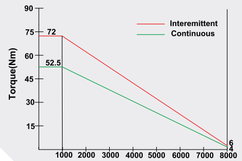
## MACHINING CAPABILITIES

| OPERATION | DIA OF CUTTER/TOOL | CUTTING PARAMETERS | MATERIAL | CUTTING CAPACITY |
|---|---|---|---|---|
| MILLING | 80 | RPM 1000, FEED 1000 mm/Min | EN8 | 150 CC/Min |
| DRILLING | U-DRILL 25 | RPM 1500, FEED 1500 mm/Min | EN8 | Dia 25 |
| TAPPING | COATED TAP | RPM 130 | EN8 | M25x1.5 |

## POWER DIAGRAM



Spindle Power v/s RPM



Spindle Torque v/s RPM



# ARV 700

## STANDARD FEATURES OF THE MACHINES

- Linear Motion Roller Guide ways for X, Y and Z-axis.
- Hardened and ground ball screws.
- Direct-coupled servomotors to the ball screws.
- High performance digital motors for spindle and axes.
- Heavy Duty cast structures.
- Absolute encoders for all the Axes.
- Fast cam driven Electro-mechanical Auto Tool Changer.
- Siemens 828 CNC System.
- Machine Guard with efficient coolant and chip flow.
- Electronic Counter balance.
- Spindle taper Air Blow.
- MPG.
- Levelling pads.
- Centralized Lubrication system.
- Rigid Tapping.
- Coolant System.
- TPM Friendly Machines.
- Auto retrieval for ATC.

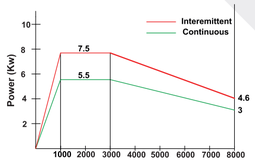
## OPTIONAL FEATURES AT EXTRA COST:

- Chip Conveyor.
- Fanuc 0iMF Plus Controller.
- Higher RPM Spindle.
- Coolant Thru Spindle (CTS).
- Coolant gun.
- Spindle mounted probe.
- Table mounted probe.
- Electronic edge finder.
- Coolant filtration system.
- Panel AC for electrical Panel.
- Oil skimmer for coolant.
- 4th axis option NC Rotary table.
- 4th and 5th axes NC Rotary cum tilting table.

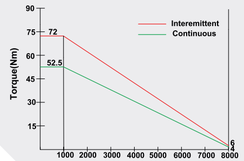
## MACHINING CAPABILITIES

| OPERATION | DIA OF CUTTER/TOOL | CUTTING PARAMETERS | MATERIAL | CUTTING CAPACITY |
|---|---|---|---|---|
| MILLING | 80 | RPM 1000, FEED 1000 mm/Min | EN8 | 150 CC/Min |
| DRILLING | U-DRILL 25 | RPM 1500, FEED 1500 mm/Min | EN8 | Dia 25 |
| TAPPING | COATED TAP | RPM 130 | EN8 | M25x1.5 |

## POWER DIAGRAM



Spindle Power v/s RPM



Spindle Torque v/s RPM

# ARV 800

## STANDARD FEATURES OF THE MACHINES

- Linear Motion Roller Guide ways for X, Y and Z-axis.
- Hardened and ground ball screws.
- Direct-coupled servomotors to the ball screws.
- High performance digital motors for spindle and axes.
- Heavy Duty cast structures.
- Absolute encoders for all the Axes.
- Fast cam driven Electro-mechanical Auto Tool Changer.
- Siemens 828 CNC System.
- Machine Guard with efficient coolant and chip flow.
- Electronic Counter balance.
- Spindle taper Air Blow.
- MPG.
- Levelling pads.
- Centralized Lubrication system.
- Rigid Tapping.
- Coolant System.
- TPM Friendly Machines.
- Auto retrieval for ATC.

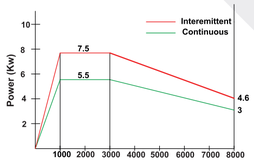
## OPTIONAL FEATURES AT EXTRA COST:

- Chip Conveyor.
- Fanuc 0iMF Plus Controller.
- Higher RPM Spindle.
- Coolant Thru Spindle (CTS).
- Coolant gun.
- Spindle mounted probe.
- Table mounted probe.
- Electronic edge finder.
- Coolant filtration system.
- Panel AC for electrical Panel.
- Oil skimmer for coolant.
- 4th axis option NC Rotary table.
- 4th and 5th axes NC Rotary cum tilting table.

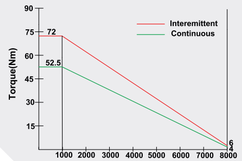
## MACHINING CAPABILITIES

| OPERATION | DIA OF CUTTER/TOOL | CUTTING PARAMETERS | MATERIAL | CUTTING CAPACITY |
|---|---|---|---|---|
| MILLING | 80 | RPM 1000, FEED 1000 mm/Min | EN8 | 150 CC/Min |
| DRILLING | U-DRILL 25 | RPM 1500, FEED 1500 mm/Min | EN8 | Dia 25 |
| TAPPING | COATED TAP | RPM 130 | EN8 | M25x1.5 |

## POWER DIAGRAM



Spindle Power v/s RPM



Spindle Torque v/s RPM



# ARV 1000

## STANDARD FEATURES OF THE MACHINES

- Linear Motion Roller Guide ways for X, Y and Z-axis.
- Hardened and ground ball screws.
- Direct-coupled servomotors to the ball screws.
- High performance digital motors for spindle and axes.
- Heavy Duty cast structures.
- Absolute encoders for all the Axes.
- Fast cam driven Electro-mechanical Auto Tool Changer.
- Siemens 828 CNC System.
- Machine Guard with efficient coolant and chip flow.
- Electronic Counter balance.
- Spindle taper Air Blow.
- MPG.
- Levelling pads.
- Centralized Lubrication system.
- Rigid Tapping.
- Coolant System.
- TPM Friendly Machines.
- Auto retrieval for ATC.

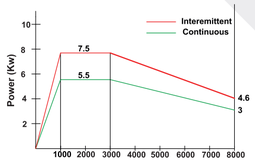
## OPTIONAL FEATURES AT EXTRA COST:

- Chip Conveyor.
- Fanuc 0iMF Plus Controller.
- Higher RPM Spindle.
- Coolant Thru Spindle (CTS).
- Coolant gun.
- Spindle mounted probe.
- Table mounted probe.
- Electronic edge finder.
- Coolant filtration system.
- Panel AC for electrical Panel.
- Oil skimmer for coolant.
- 4th axis option NC Rotary table.
- 4th and 5th axes NC Rotary cum tilting table.

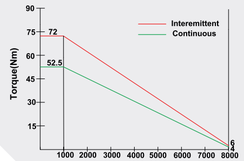
## MACHINING CAPABILITIES

| OPERATION | DIA OF CUTTER/TOOL | CUTTING PARAMETERS | MATERIAL | CUTTING CAPACITY |
|---|---|---|---|---|
| MILLING | 80 | RPM 1000, FEED 1000 mm/Min | EN8 | 150 CC/Min |
| DRILLING | U-DRILL 25 | RPM 1500, FEED 1500 mm/Min | EN8 | Dia 25 |
| TAPPING | COATED TAP | RPM 130 | EN8 | M25x1.5 |

## POWER DIAGRAM



Spindle Power v/s RPM



Spindle Torque v/s RPM

# ARV 1100+

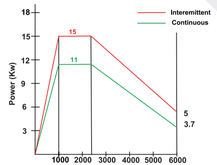
## STANDARD FEATURES OF THE MACHINES

- Linear Motion Guide ways for X, Y and Z-axis.
- 6 LM Blocks for X- axis.
- 4 LM Rails for Y- axis.
- Hardened and ground C3 class accuracy ball screws.
- Direct-coupled servomotors to the ball screws.
- High performance digital motors for spindle and axes.
- Heavy Duty cast structures.
- Absolute encoders for all the Axes.
- Fast cam driven Electro-mechanical Auto Tool Changer.
- Fanuc 0iMF CNC System.
- Machine Guard with efficient coolant and chip flow.
- Electronic Counter balance.
- Spindle taper Air Blow.
- MPG
- Levelling pads.
- Centralized Lubrication system.
- Rigid Tapping.
- Coolant System.
- TPM Friendly Machines.

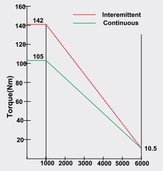
## MACHINING CAPABILITIES

| OPERATION | DIA OF CUTTER/TOOL | CUTTING PARAMETERS | MATERIAL | CUTTING CAPACITY |
|---|---|---|---|---|
| MILLING | 80 | RPM 1000, FEED 1000 mm/Min | EN8 | 150 CC/Min |
| DRILLING | U-DRILL 25 | RPM 1500, FEED 1500 mm/Min | EN8 | Dia 25 |
| TAPPING | COATED TAP | RPM 130 | EN8 | M25x1.5 |

## POWER DIAGRAM




Spindle Power v/s RPM




Spindle Torque v/s RPM



# ARV 1300

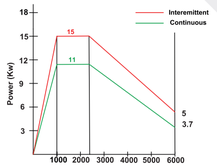
## STANDARD FEATURES OF THE MACHINES

- Linear Motion Guide ways for X, Y and Z-axis.
- 6 LM Blocks for X- axis.
- 4 LM Rails for Y- axis.
- Hardened and ground C3 class accuracy ball screws.
- Direct-coupled servomotors to the ball screws.
- High performance digital motors for spindle and axes.
- Heavy Duty cast structures.
- Absolute encoders for all the Axes.
- Fast cam driven Electro-mechanical Auto Tool Changer.
- Fanuc 0iMF CNC System.
- Machine Guard with efficient coolant and chip flow.
- Electronic Counter balance.
- Spindle taper Air Blow.
- MPG
- Levelling pads.
- Centralized Lubrication system.
- Rigid Tapping.
- Coolant System.
- TPM Friendly Machines.

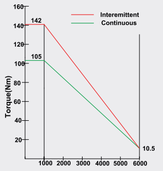
## MACHINING CAPABILITIES

| OPERATION | DIA OF CUTTER/TOOL | CUTTING PARAMETERS | MATERIAL | CUTTING CAPACITY |
|---|---|---|---|---|
| MILLING | 80 | RPM 1000, FEED 1000 mm/Min | EN8 | 150 CC/Min |
| DRILLING | U-DRILL 25 | RPM 1500, FEED 1500 mm/Min | EN8 | Dia 25 |
| TAPPING | COATED TAP | RPM 130 | EN8 | M25x1.5 |

## POWER DIAGRAM




Spindle Power v/s RPM




Spindle Torque v/s RPM

# ARV 700 PC

## STANDARD FEATURES OF THE MACHINES

- Linear Motion Roller Guide ways for X, Y and Z-axis.
- Hardened and ground ball screws.
- Direct-coupled servomotors to the ball screws.
- High performance digital motors for spindle and axes.
- Heavy Duty cast structures.
- Absolute encoders for all the Axes.
- Fast cam driven Electro-mechanical Auto Tool Changer.
- Siemens 828 CNC System.
- Machine Guard with efficient coolant and chip flow.
- Electronic Counter balance.
- Spindle taper Air Blow.
- MPG.
- Levelling pads.
- Centralized Lubrication system.
- Rigid Tapping.
- Coolant System.
- TPM Friendly Machines.
- Auto retrieval for ATC and APC

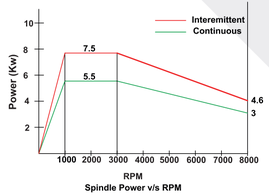
## OPTIONAL FEATURES AT EXTRA COST:

- Chip Conveyor.
- Fanuc 0iMF Plus Controller.
- Higher RPM Spindle.
- Coolant Thru Spindle (CTS).
- Coolant gun.
- Spindle mounted probe.
- Table mounted probe.
- Electronic edge finder.
- Coolant filtration system.
- Panel AC for electrical Panel.
- Oil skimmer for coolant.

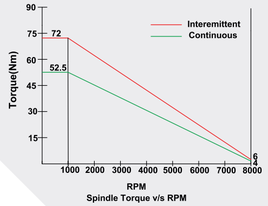
## MACHINING CAPABILITIES

| OPERATION | DIA OF CUTTER/TOOL | CUTTING PARAMETERS | MATERIAL | CUTTING CAPACITY |
|---|---|---|---|---|
| MILLING | 80 | RPM 1000, FEED 1000 mm/Min | EN8 | 150 CC/Min |
| DRILLING | U-DRILL 25 | RPM 1500, FEED 1500 mm/Min | EN8 | Dia 25 |
| TAPPING | COATED TAP | RPM 130 | EN8 | M25x1.5 |

## POWER DIAGRAM



Spindle Power v/s RPM



Spindle Torque v/s RPM



# ARV 800 PC

## STANDARD FEATURES OF THE MACHINES

- Linear Motion Roller Guide ways for X, Y and Z-axis.
- Hardened and ground ball screws.
- Direct-coupled servomotors to the ball screws.
- High performance digital motors for spindle and axes.
- Heavy Duty cast structures.
- Absolute encoders for all the Axes.
- Fast cam driven Electro-mechanical Auto Tool Changer.
- Siemens 828 CNC System.
- Machine Guard with efficient coolant and chip flow.
- Electronic Counter balance.
- Spindle taper Air Blow.
- MPG.
- Levelling pads.
- Centralized Lubrication system.
- Rigid Tapping.
- Coolant System.
- TPM Friendly Machines.
- Auto retrieval for ATC and APC

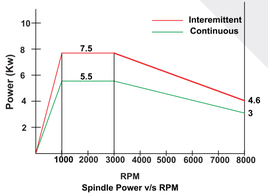
## OPTIONAL FEATURES AT EXTRA COST:

- Chip Conveyor.
- Fanuc 0iMF Plus Controller.
- Higher RPM Spindle.
- Coolant Thru Spindle (CTS).
- Coolant gun.
- Spindle mounted probe.
- Table mounted probe.
- Electronic edge finder.
- Coolant filtration system.
- Panel AC for electrical Panel.
- Oil skimmer for coolant.

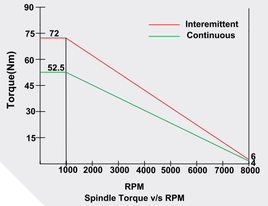
## MACHINING CAPABILITIES

| OPERATION | DIA OF CUTTER/TOOL | CUTTING PARAMETERS | MATERIAL | CUTTING CAPACITY |
|---|---|---|---|---|
| MILLING | 80 | RPM 1000, FEED 1000 mm/Min | EN8 | 150 CC/Min |
| DRILLING | U-DRILL 25 | RPM 1500, FEED 1500 mm/Min | EN8 | Dia 25 |
| TAPPING | COATED TAP | RPM 130 | EN8 | M25x1.5 |

## POWER DIAGRAM



Spindle Power v/s RPM



Spindle Torque v/s RPM

# ARV 400

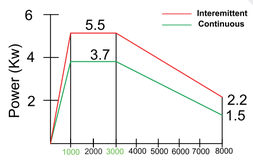
## STANDARD FEATURES OF THE MACHINES

- Linear Motion Roller Guide ways for X, Y and Z-axis.
- Hardened and ground ball screws.
- Direct-coupled servomotors to the ball screws.
- High performance digital motors for spindle and axes.
- Heavy Duty cast structures.
- Absolute encoders for all the Axes.
- Fast cam driven Electro-mechanical Auto Tool Changer.
- Siemens 828 CNC System.
- Machine Guard with efficient coolant and chip flow.
- Electronic Counter balance.
- Spindle taper Air Blow.
- MPG.
- Levelling pads.
- Centralized Lubrication system.
- Rigid Tapping.
- Coolant System.
- TPM Friendly Machines.
- Auto retrieval for ATC and APC

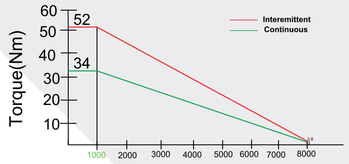

## MACHINING CAPABILITIES

| OPERATION | DIA OF CUTTER/TOOL | CUTTING PARAMETERS | MATERIAL | CUTTING CAPACITY |
|---|---|---|---|---|
| MILLING | 80 | RPM 1000, FEED 1000 mm/Min | EN8 | 150 CC/Min |
| DRILLING | U-DRILL 25 | RPM 1500, FEED 1500 mm/Min | EN8 | Dia 25 |
| TAPPING | COATED TAP | RPM 130 | EN8 | M25x1.5 |

## POWER DIAGRAM




Spindle Power v/s RPM ARV-400




Torque v/s RPM ARV-400



# ARV 1100

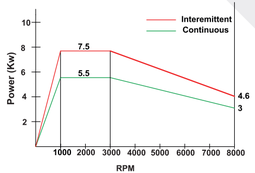
## STANDARD FEATURES OF THE MACHINES

- Linear Motion Guide ways for X, Y and Z-axis.
- 6 LM Blocks for X- axis.
- 4 LM Rails for Y- axis.
- Hardened and ground C3 class accuracy ball screws.
- Direct-coupled servomotors to the ball screws.
- High performance digital motors for spindle and axes.
- Heavy Duty cast structures.
- Absolute encoders for all the Axes.
- Fast cam driven Electro-mechanical Auto Tool Changer.
- Fanuc 0iMF CNC System.
- Machine Guard with efficient coolant and chip flow.
- Electronic Counter balance.
- Spindle taper Air Blow.
- MPG
- Levelling pads.
- Centralized Lubrication system.
- Rigid Tapping.
- Coolant System.
- TPM Friendly Machines.

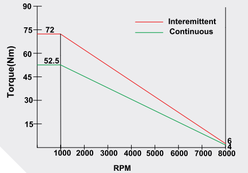
## MACHINING CAPABILITIES

| OPERATION | DIA OF CUTTER/TOOL | CUTTING PARAMETERS | MATERIAL | CUTTING CAPACITY |
|---|---|---|---|---|
| MILLING | 80 | RPM 1000, FEED 1000 mm/Min | EN8 | 150 CC/Min |
| DRILLING | U-DRILL 25 | RPM 1500, FEED 1500 mm/Min | EN8 | Dia 25 |
| TAPPING | COATED TAP | RPM 130 | EN8 | M25x1.5 |

## POWER DIAGRAM




Spindle Power v/s RPM




Spindle Torque v/s RPM

# ARV 1500

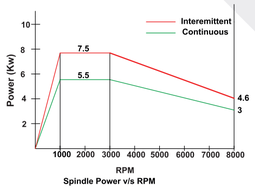
## STANDARD FEATURES OF THE MACHINES

- Linear Motion Guide ways for X, Y and Z-axis.
- 6 LM Blocks for X- axis.
- 4 LM Rails for Y- axis.
- Hardened and ground C3 class accuracy ball screws.
- Direct-coupled servomotors to the ball screws.
- High performance digital motors for spindle and axes.
- Heavy Duty cast structures.
- Absolute encoders for all the Axes.
- Fast cam driven Electro-mechanical Auto Tool Changer.
- Fanuc 0iMF CNC System.
- Machine Guard with efficient coolant and chip flow.
- Electronic Counter balance.
- Spindle taper Air Blow.
- MPG
- Levelling pads.
- Centralized Lubrication system.
- Rigid Tapping.
- Coolant System.
- TPM Friendly Machines.

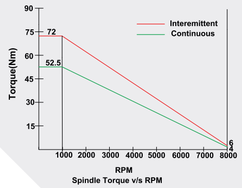
## MACHINING CAPABILITIES

| OPERATION | DIA OF CUTTER/TOOL | CUTTING PARAMETERS | MATERIAL | CUTTING CAPACITY |
|---|---|---|---|---|
| MILLING | 80 | RPM 1000, FEED 1000 mm/Min | EN8 | 150 CC/Min |
| DRILLING | U-DRILL 25 | RPM 1500, FEED 1500 mm/Min | EN8 | Dia 25 |
| TAPPING | COATED TAP | RPM 130 | EN8 | M25x1.5 |

## POWER DIAGRAM



Spindle Power v/s RPM



Spindle Torque v/s RPM



# MOVING COLUMN DOUBLE STATION

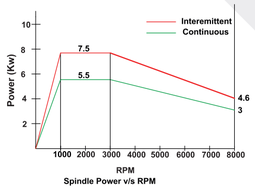
## STANDARD FEATURES OF THE MACHINES

- Linear Motion Guide ways for X, Y and Z-axis.
- 6 LM Blocks for X- axis.
- 4 LM Rails for Y- axis.
- Hardened and ground C3 class accuracy ball screws.
- Direct-coupled servomotors to the ball screws.
- High performance digital motors for spindle and axes.
- Heavy Duty cast structures.
- Absolute encoders for all the Axes.
- Fast cam driven Electro-mechanical Auto Tool Changer.
- Fanuc 0iMF CNC System.
- Machine Guard with efficient coolant and chip flow.
- Electronic Counter balance.
- Spindle taper Air Blow.
- MPG
- Levelling pads.
- Centralized Lubrication system.
- Rigid Tapping.
- Coolant System.
- TPM Friendly Machines.

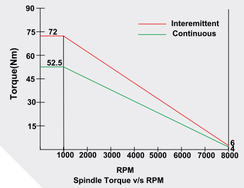
## MACHINING CAPABILITIES

| OPERATION | DIA OF CUTTER/TOOL | CUTTING PARAMETERS | MATERIAL | CUTTING CAPACITY |
|---|---|---|---|---|
| MILLING | 80 | RPM 1000, FEED 1000 mm/Min | EN8 | 150 CC/Min |
| DRILLING | U-DRILL 25 | RPM 1500, FEED 1500 mm/Min | EN8 | Dia 25 |
| TAPPING | COATED TAP | RPM 130 | EN8 | M25x1.5 |

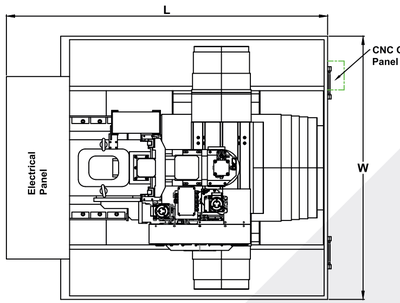
## POWER DIAGRAM



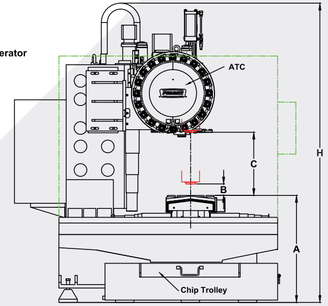
Spindle Power v/s RPM



Spindle Torque v/s RPM




PLAN VIEW

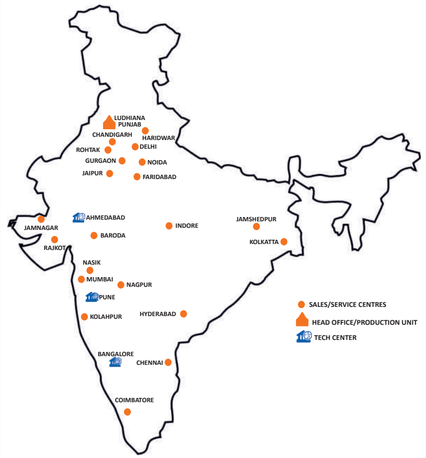



LHS VIEW

| DIMN. | ARV 400 | ARV 500 | ARV 700 | ARV 800 | ARV 700(PC) | ARV 800(PC) | ARV 1000 | ARV 1100 | ARV 1100+ | ARV 1300 | ARV 1500 | MOVING COLUMN DOUBLE STATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W | 1500 | 1875 | 2400 | 2700 | 3250 | 3500 | 2950 | 3350 | 3350 | 3750 | 3750 | 3000 |
| L | 2100 | 2300 | 2320 | 2700 | 2700 | 3200 | 3000 | 3650 | 3650 | 3650 | 3650 | 5000 |
| H | 2500 | 2600 | 2650 | 2650 | 2800 | 3000 | 3000 | 3200 | 3200 | 3200 | 3200 | 3100 |
| A | | 930 | 965 | 1015 | 1200 | 1200 | 1070 | 1090 | 1090 | 1090 | | |
| B | | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | |
| C | | 550 | 550 | 610 | 550 | 610 | 650 | 750 | 750 | 800 | | |



# Our **Presence**




- Ludhiana
- Jalandhar
- Chandigarh
- Rohtak
- Delhi
- Noida
- Gurgaon
- Faridabad
- Haridwar
- Jaipur
- Bhiwadi
- Alwar
- Jamnagar
- Ahmedabad
- Rajkot
- Baroda
- Surendranagar
- Surat
- Vadodara
- Vapi
- Valsad
- Daman
- Indore
- Jamshedpur
- Kolkatta
- Nasik
- Mumbai
- Nagpur
- Pune
- Kolhapur
- Hyderabad
- Bangalore
- Chennai
- Coimbatore

## Our **Clients**




## Technology **Partners**

# Jaewoo Series

## Control System:

The CNC System offered with latest digital control from FANUC 0I TF PLUS or SIEMENS 808 and 828D

## Standard Features:

1. Monoblock Structure
2. 8-Station Bi-Directional Turret
3. L. M. Guideways
4. SIEMENS 808 and 828D
5. Hydraulic Chucking
6. Auto & Manual Coolant System
7. Centralised & Programmable Lubrication
8. Electrical with Quality Devices
9. Tailstock with Hydraulic Quill

## Optional from Jaewoo:

1. FANUC 0I TF PLUS CNC Systems
2. Gang Tooling
3. Chip Conveyor
4. Collet Chuck
5. Extra High Power Spindle Motors
6. Bar Feeder
7. Part Catcher
8. Live Tool
9. Tooled Up Solution
10. Extra Large Bore Spindle
11. Live Tail Stock Centre

| SPECIFICATIONS | UNIT | ARV 400 | ARV 500 | ARV 700 | ARV 800 | ARV 1000 | ARV 1100 | ARV 1100+ (BT-40) | ARV 1100+ (BT-50) | ARV 1300 (BT-40) | ARV 1300 (BT-50) | ARV 700 PC | ARV 800 PC | ARV 1500 | MOVING COLUMN DOUBLE STATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **AXES STROKES** | | | | | | | | | | | | | | | |
| X-AXIS | MM | 400 | 500 | 700 | 800 | 1000 | 1100 | 1100 | 1100 | 1300 | 1100 | 700 | 800 | 1500 | 1100 |
| Y-AXIS | MM | 300 | 400 | 450 | 510 | 550 | 600 | 700 | 700 | 700 | 700 | 450 | 510 | 700 | 510 |
| Z-AXIS | MM | 350 | 450 | 450 | 510 | 550 | 600 | 700 | 700 | 700 | 700 | 450 | 510 | 700 | 510 |
| SPINDLE CENTRE TO COLUMN FACE | MM | 475 | 475 | 475 | 545 | 575 | 615 | 700 | 700 | 700 | 700 | 475 | 545 | 700 | 545 |
| SPINDLE FACE TO TABLE TOP | MM | 100-450 | 100-500 | 100-550 | 100-610 | 100-650 | 100-700 | 100-800 | 100-800 | 100-800 | 100-800 | 100-550 | 100-610 | 100-800 | |
| **TABLE/PALLET** | | | | | | | | | | | | | | | |
| WORKING SURFACE | MM | 600x325 | 650x400 | 900x450 | 1000x510 | 1200x550 | 1300x600 | 1300x650 | 1300x650 | 1500x700 | 1300x650 | 700x425 | 800x490 | 1500x700 | 600x400 (2 Nos) |
| T-SLOTS | | 3x14x115 | 3x14x125 | 4x18x100 | 5x18x100 | 5x18x100 | 5x18x100 | 5x18x125 | 5x18x125 | 5x18x125 | 5x18x125 | 5x14x80 | 5x18x100 | 5x18x125 | |
| MAX LOAD ON THE TABLE | KG | 300 | 300 | 350 | 500 | 600 | 700 | 1000 | 1000 | 1200 | 1200 | 350 | 400 | 1200 | 400 |
| DISTANCE FROM FLOOR TO TABLE | MM | 925 | 930 | 965 | 1015 | 1000 | 1000 | 1050 | 1050 | 1050 | 1050 | | | 1090 | |
| **SPINDLE** | | | | | | | | | | | | | | | |
| SPINDLE TAPER | | BT-40 | BT-40 | BT-40 | BT-40 | BT-40 | BT-40 | BT-40 | BT-50 | BT-40 | BT-50 | BT-40 | BT-40 | BT-40 | BT-40 |
| SPINDLE POWER | KW | 3.7/5.5 | 5.5/7.5 | 5.5/7.5 | 7.5/11 | 7.5/11 | 7.5/11 | 7.5/11 | 11/15 | 11/15 | 11/15 | 5.5/7.5 | 7.5/11 | 11/15 | 11/15 |
| SPINDLE SPEED | RPM | 8000 | 8000 | 8000 | 8000 | 8000 (10000 Optional) | 8000 (10000 Optional) | 8000 | 6000 | 8000 | 6000 | 8000 | 8000 | 8000 | 6000 |
| SPINDLE BEARING DIA | MM | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 100 | 70 | 100 | 70 | 70 | 100 | 70 |
| FULL POWER AVAILABILITY | RPM | 1000 onwards | 1000 onwards | 1000 onwards | 1000 onwards | 1000 onwards | 1000 onwards | 1000 onwards | 1000 onwards | 1000 onwards | 1000 onwards | 1000 onwards | 1000 onwards | | |
| **FEED** | | | | | | | | | | | | | | | |
| RAPID | M/MIN. | 30 | 30 | 30 | 30 | 30 | 24 | 20 | 20 | 20 | 20 | 30 | 30 | 20 | 20 |
| CUTTING FEED RATE | MM/MIN. | 1-10000 | 1-10000 | 1-10000 | 1-10000 | 1-10000 | 1-10000 | 1-10000 | 1-10000 | 1-10000 | 1-10000 | 1-10000 | 1-10000 | 1-10000 | 1-10000 |
| **AUTO TOOL CHANGER** | | | | | | | | | | | | | | | |
| NO.OF TOOLS | | 12 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 24 | 24 | 20 | 20 | 24 | 20 |
| TOOL SELECTION | | Random Bi-directional | Random Bi-directional | Random Bi-directional | Random Bi-directional | Random Bi-directional | Random Bi-directional | Random Bi-directional | Random Bi-directional | Random Bi-directional | Random Bi-directional | Random Bi-directional | Random Bi-directional | Random Bi-directional | Random Bi-directional |
| MAX. TOOL DIA (ALL POCKETS FULL) | MM | 105 | 80 | 80 | 80 | 80 | 80 | 80 | 125 | 80 | 125 | 80 | 80 | 125 | 80 |
| MAX. TOOL DIA (ALL POCKETS EMPTY) | MM | 130 | 125 | 125 | 125 | 125 | 125 | 125 | 200 | 125 | 200 | 125 | 125 | 80 | 125 |
| MAX. TOOL WEIGHT | KG | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 20 | 8 | 20 | 8 | 8 | 8 | 8 |
| MAX. TOOL LENGTH | MM | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 400 | 250 | 400 | 250 | 250 | 250 | 250 |
| TOOL CHANGE TIME | SEC. | 6 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 3.5 | 2.5 | 3.5 | 2.5 | 2.5 | 3 | 3.5 |
| **ACCURACIES (AS PER JIS)** | | | | | | | | | | | | | | | |
| POSITIONING | MM | +/-0.008 | +/-0.010 | +/-0.012 | +/-0.012 | +/-0.016 | +/-0.016 | +/-0.016 | +/-0.016 | +/-0.018 | +/-0.018 | +/-0.012 | +/-0.012 | +/-0.018 | +/-0.014 |
| REPEATABILITY | MM | +/-0.004 | +/-0.006 | +/-0.007 | +/-0.008 | +/-0.009 | +/-0.009 | +/-0.010 | +/-0.010 | +/-0.010 | +/-0.010 | +/-0.007 | +/-0.008 | +/-0.010 | +/-0.008 |
| CNC | | Fanuc 0iMF | Siemens 828 | Siemens 828 | Siemens 828 | Fanuc 0iMF/Siemens 828 | Fanuc 0iMF/Siemens 828 | Fanuc 0iMF | Fanuc 0iMF | Fanuc 0iMF | Fanuc 0iMF | Simens 828 | Simens 828 | | |
| MACHINE WEIGHT | KG | 3000 | 3500 | 4000 | 5000 | 6000 | 7000 | 8000 | 8500 | 9000 | 9000 | 4000 | 5000 | 9000 | 6000 |
| MACHINE DIMENSION (WxLxH) | MM | 1500x2100x2500 | 1875x2300x2600 | 2400x2320x2650 | 2700x2700x2650 | 3000x3000x3000 | 3250x3000x3000 | 3350x3650x3200 | 3350x3650x3200 | 3750x3650x3200 | 3750x3650x3200 | 3250x2700x2800 | 3500x3200x3000 | 3750x3650x3200 | 3000x5000x3100 |
| POWER SUPPLY | | 415V, 3 Phase, 50 Hz. | 415V, 3 Phase, 50 Hz. | 415V, 3 Phase, 50 Hz. | 415V, 3 Phase, 50 Hz. | 415V, 3 Phase, 50 Hz. | 415V, 3 Phase, 50 Hz. | 415V, 3 Phase, 50 Hz. | 415V, 3 Phase, 50 Hz. | 415V, 3 Phase, 50 Hz. | 415V, 3 Phase, 50 Hz. | 415V, 3 Phase, 50 Hz. | 415V, 3 Phase, 50 Hz. | 415V, 3 Phase, 50 Hz. | 415V, 3 Phase, 50 Hz. |
| POWER REQUIREMENT | KVA | 10 | 15 | 15 | 20 | 20 | 20 | 25 | 25 | 25 | 25 | 15 | 20 | 25 | 25 |
| AIR REQUIREMENT | KG/SQ CM | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |