



**JAEWOO**  
MACHINES

# Future **OF** **MACHINEERING**

## ARV 1300 / 1500

VMC MACHINES  
*ACCURATE / RELIABLE*



## ENOUGH REASONS TO BUY **JAEWOO** ARV SERIES MACHINES

THK, Japan - Make LM Guideways

- **Ball Screws** Supported at Drive and Tail end for all axes for **Higher Speed**
- Ball Screw **Stretching** for all axes to counter **thermal effects** during running of the machine
- **Thermo Symmetric** Structure Design
- **Precision machining** capability due to minimal **Thermal Error design**
- **High Grade FG300** for Castings for higher Strength
- **User friendly** operation panel configuration

THK, Japan / **Rexroth**, Germany - Make Ball Screws

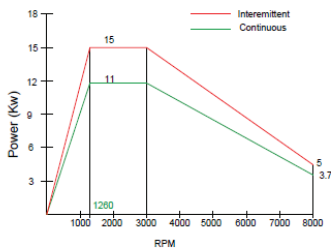
- **Cartridge** type Spindle Design
- **Laser Calibration**
- **Ball Bar** Inspection
- **Ergonomically** designed Machine Enclosure
- Compact design for **Minimum Floor Area** requirement
- **Effective Chip Disposal System**
- Electromechanical Auto Tool Changer
- **PMF- Fanuc (Predictive Maintenance Feature-4.0)**
- **Pulley Ratio** to ensure Full power availability at Lower RPM

## Standard Features

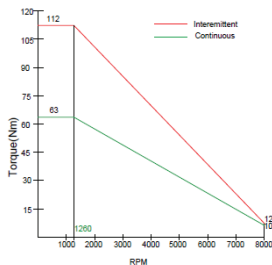
- LM Guideways Roller Type
- 6 LM Blocks for X-axis
- 4-Rails and 6 Blocks for Y-axis
- Hardened and Ground Ball Screws
- Direct Coupled Servo Motors
- High performance digital motors
- Pre-stretching of Ball Screws.
- Heavy Duty Cast Iron Structures
- Absolute Encoders for all axes
- Fast cam driven Arm type ATC.
- Fanuc/Siemens/Mitsubishi Controller
- Chip disposal at Rear of the Machine
- Coolant Flushing
- Ring type Coolant for Spindle
- Electronic Counterbalance
- Spindle taper Air Blow
- Auto Retrieval for ATC
- Rigid tapping
- MPG
- Ring type coolant for Spindle
- Centralized Lubrication System
- Levelling Pads
- TPM Friendly Machines
- Air Gun

## SPECIFICATIONS

	UNIT	ARV1300	ARV1500
<b>Axis Strokes</b>	mm		
X-axis		1300	1500
Y-axis		700	700
Z-axis		700	700
Spindle centre to Column Face	mm	715	715
Spindle Face to table Top (Min-Max)	mm	100-800	100-800
<b>Table</b>			
Working Surface	mm	1500x700	1500x700
T-Slots(NoxSizeXSpacing)		5x18x125	5x18x125
Max load on Table	Kg	1200	1500
Distance from Floor to table	mm	1100	1100
<b>Spindle</b>			
Spindle Taper		BT-40	BT-40
Spindle Power	Kw	11/15	11/15
Spindle Speed	RPM	8000	8000
Spindle Bearing Dia	mm	70	70
Full Power Availability	RPM	1260	1260
<b>Feed</b>			
Rapid	M/Min	24	24
Cutting Feed Rate	mm/Min	1-10000	1-10000
<b>Auto Tool Changer</b>			
No of Tools	Nos	20	20
Tool Selection		Random-Bidirectional	Random-Bidirectional
Max. tool Dia(All Pockets Full)	mm	80	80
Max. tool Dia(Alt. Pockets Empty)	mm	125	125
Max. tool Weight	Kg	8	8
Max. Tool Length	mm	250	250
Tool Change time	Sec	3	3
<b>Accuracies (As per ISO232-2)</b>			
Positioning	mm	0.018	0.020
Repeatability	Mm	0.010	0.012
<b>CNC</b>			
<b>Machine Weight</b>	Kg	8500	9000
<b>Machine Dimensions(WxLxH)</b>	mm	3300x3650x3200	3530x3650x3200
<b>Power Requirement</b>	KVA	25	25
<b>Air Requirement</b>	Kg/sqcm	6	6



Spindle Power v/s RPM(ARV-1300, ARV-1500)



Spindle Torque v/s RPM (ARV-1300, ARV-1500)

## OPTIONAL FEATURES AT EXTRA COST

- Chip Conveyor
- Higher RPM Spindle
- Coolant Thru Spindle with Hydro cyclone Filtration
- Coolant Gun
- Spindle Mounted Probe
- Table Mounted Probe
- 4<sup>th</sup> axis option NC Rotary Table
- 4<sup>th</sup> and 5<sup>th</sup> axes NC Rotary and Tilting Table
- Panel AC
- Oil Skimmer

## MACHINING CAPABILITIES

Operation	Dia of cutter/Tool	Cutting Parameters	Material	Cutting Capacity
Milling	Dia 80 Face Mill	RPM1000/Feed 1000mm/Min	EN8	250 CC/Min
Drilling	(U-Drill)	RPM900, Feed 900mm/Min	EN8	35 for
Tapping	Coated Tap	RPM 90	EN8	M35x1.5

**JAEMOO MACHINES PVT. LTD**

Chandigarh Road, HB-225, Village- Jandiala, Distt. Ludhiana - 141112, Punjab, India

+91 84840-00003    info@jaewoomachines.com    www.jaewoomachines.com

DEALER NAME