



JAEWOO
MACHINES

Future **OF** **MACHINEERING**

ARV 400 / 500 / 700
VMC MACHINES
ACCURATE / RELIABLE



ENOUGH REASONS TO BUY
JAEWOO ARV SERIES MACHINES

THK, Japan - Make LM Guideways

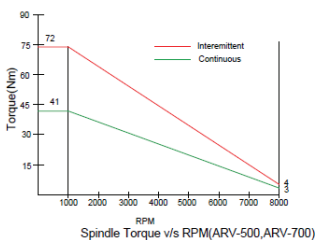
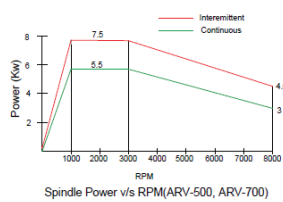
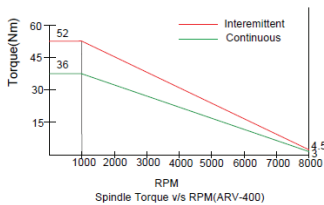
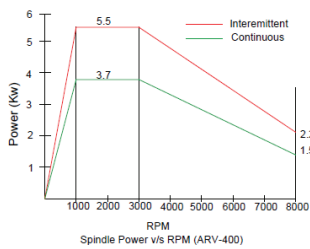
THK, Japan / Rexroth, Germany - Make Ball Screws

- **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

- **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(Ball Type for ARV400, ARV500 and Roller type for ARV700)
- 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 for ARV500, ARV700 and Umbrella type ATC for ARV400
- Fanuc/Siemens/Mitsubishi Controller
- Chip disposal on front left and Right
- 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	ARV400	ARV500	ARV700
Axis Strokes	mm			
X-axis		400	500	700
Y-axis		300	400	450
Z-axis		350	400	450
Spindle centre to Column Face	mm	425	475	475
Spindle Face to table Top (Min-Max)	mm	100-450	100-500	100-550
Table				
Working Surface	mm	600x325	650x400	900x450
T-Slots(NoxSizexSpacing)		3x14x115	3x18x125	4x18x100
Max load on Table	Kg	300	300	350
Distance from Floor to table	mm	925	930	965
Spindle				
Spindle Taper		BT-40	BT-40	BT-40
Spindle Power	Kw	3.7/5.5	5.5/7.5	5.5/7.5
Spindle Speed	RPM	8000	8000	8000
Spindle Bearing Dia	mm	70	70	70
Full Power Availability	RPM	1000	1000	1000
Feed				
Rapid	M/Min	30	30	30
Cutting Feed Rate	mm/Min	1-10000	1-10000	1-10000
Auto Tool Changer				
No of Tools	Nos	12	20	20
Tool Selection		Random-Bidirectional	Random-Bidirectional	Random-Bidirectional
Max. tool Dia(All Pockets Full)	mm	105	80	80
Max. tool Dia(Alt. Pockets Empty)	mm	130	125	125
Max. tool Weight	Kg	7	8	8
Max. Tool Length	mm	250	250	250
Tool Change time	Sec	5	2.5	2.5
Accuracies (As per ISO232-2)				
Positioning	mm	0.008	0.01	0.012
Repeatability	mm	0.006	0.006	0.007
CNC				
Machine Weight	Kg	3000	3500	4000
Machine Dimensions(WxLxH)	mm	1500x2100x2500	1875x2300x2600	2000x2320x2650
Power Requirement	KVA	10	15	15
Air Requirement	Kg/sqcm	6	6	6

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
- 4th axis option NC Rotary Table
- 4th and 5th 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	110 CC/Min for ARV400 and 150 CC/Min for ARV-500 and ARV-700
Drilling	(U-Drill)	RPM 1500, Feed 1500mm/Min	EN8	20mm for ARV400 and 25mm for ARV-500 and ARV-700
Tapping	Coated Tap	RPM200	EN8	M16x1.5 for ARV400 and M20x1.5 for ARV-500 and ARV-700

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DEALER NAME