

High precision , High Efficiency , High Quality









Linear Guideway Series

AHV-850L/AHV-1020L/AHV-1300L/AHV-1500L



O AHV-850L / AHV-1020L



O AHV-1300L/AHV-1500L

THE LEADER IN QUALITY AND RELIABILITY ~SINCE 1973~

OPTIMAL STRUCTURE DESIGN

High Rigidity! Lifetime Stability!

- The major structures are manufactured from Meehanite cast iron, stress relieved and combined with scientific rib reinforcement to ensure deformation-free operations.
- Increased width on the column bottom with box-type structure provides maximum stability especially when performing high speed cutting.
- Linear ways on three axes assure high feed rates and extremely smooth motion.
- Extra wide span between linear ways greatly increases machine stability.



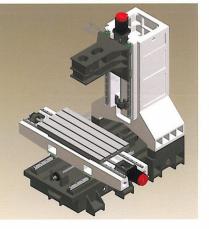
Belt Drive Spindle

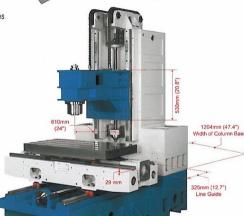
- Choice of spindle speeds 8,000, 10,000 or 12,000 rpm.
- Spindle taper BT-40.



Direct Drive Spindle

- Choice of spindle speeds 10,000, 12,000 or 15,000 rpm.
- Spindle taper BT-40.





O AHV-850L/AHV-1020L

- Choice of 8,000, 10,000, 12,000 or 15,000 rpm high speed spindles are designed for high speed machining requirement.
- High precision class C3 ball screws feature outstanding vibration dampening capability for high precision machining.
- Extra wide column bottom and base ensure superior stability during high speed machining.
- Compacted and simplified machine structure for space saving.

 Increased V axis travel for increasing working.
- Increased Y-axis travel for increasing working capacity (models AHV-1300L / 1500L)



Linear Guide Way

wide ball-type linear guide

The machine employs 45 mm.



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Directly Coupled Servomotors

The three axes ball screws are directly coupled to servomotors through backlash-free couplings. This ensures dependable positioning accuracy. High precision class C3 ball screws are preloaded to eliminate thermal strain.



Carousel Type Magazine

The carousel type magazine is standard equipment. It carries 16 tools for various types of machining applications. Fixed type tool selection for quick tool changing that reduces non-cutting time.



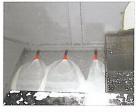
ARM Type Magazine (Opt.)

The magazine is divien by a precision cam for rapid and stable tool change motion. Tool loading capacity provides 20 or 24 tools to choose from. Bi-directional random tool selection provides quick tool changing that reduces non-cutfling time.



Spindle Splash Ring (Opt.)

The spindle splash ring is available only for models with arm-type magazine. The device not only effectively removes chips on workpiece but also increases workpiece cooling efficiency.



Coolant Flushing Device (Opt.)

Three coolant nozzles are provided on both sides of the table featuring high pressure flushing to remove chips from the table



4th/5th CNC Rotary Table (Opt.)

The 4th / 5th CNC rotary table features high positioning accuracy and maximum stability during cutting. It is ideal for various types of workpiece machining.

Specifications

NOTE: Specifications are subject to change without prior notice

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MODEL	Unit	AH	V-850L	AHV-1020L		AHV-1300L		AHV-1500L	
3 AXES TRAVEL									
X axis travel	mm	850		1020		1300		1500	
Y axis travel	mm	550		550		750		750	
Z axis travel	mm	580		580		700		700	
Distance from table surface to spindle nose	mm	120 - 700		120 - 700		120 - 820		120 - 820	
TABLE ®									
Table area	mm	1020 x 550		1200 x 550		1420 x 750		1650 x 750	
Max. load of table	kgs	600		800		1000		1000	
T-slot	mm	4 x 18 x 125		4 x 18 x 125		5 x 18 x 125		5 x 18 x 125	
SPINDLE					Standard spe	ed 8000 RPM			
Spindle taper	type	BT-40	BT-40	BT-40	BT-40	BT-40	BT-40	BT-40	BT-40
Spindle speed	rpm	8000 / 10000	10000 / 12000 / 15000	8000 / 10000	10000 / 12000 / 15000	8000 / 10000	10000 / 12000 / 15000	8000 / 10000	10000 / 12000 / 15000
Spindle drive	type	Belt type	Direct Drive	Belt type	Direct Drive	Belt type	Direct Drive	Belt type	Direct Drive
Spindle motor	kw	5.5 / 7.5	5.5 / 7.5	7.5 / 11	7.5 / 11	7.5 / 11	7.5 / 11	7.5 / 11	7.5 / 11
Spindle cooling	type	Oil cooler (std.)		Oil cooler (std.)		Oil cooler (std.)		Oil cooler (std.)	
FEED RATE									
Rapid traverse (X,Y)	m/min	30		30		30		30	
Rapid traverse (Z)	m/min	20		20		24		24	
Cutting feed rate	mm/min	1-15000		1-15000		1-15000		1-15000	
3 Axes motor output (X,Y,Z)	kw	1.8 / 1.8 / 2.5		1.8 / 1.8 / 2.5		4.0 / 4.0 / 7.0		4.0 / 4.0 / 7.0	
A.T.C.									
Magazine type	type	Carousel	Arm	Carousel	Arm	Carousel	Arm	Carousel	Arm
Tool magazine capacity	pcs	16	24	16	24	16	24	16	24
Max. tool diameter	mm	100 / 150	80 / 150	100 / 150	80 / 150	100 / 150	80 / 150	100 / 150	80 / 150
Max. tool length	mm	250	250	250	250	300	300	300	300
Max. tool weight	kgs	7	7	7	7	7	7	7	7
Tool selection	type	Fixed-type	Random	Fixed-type	Random	Fixed-type	Random	Fixed-type	Random
OTHER	-	***	-		-				
Power consumption	KVA	20		20		40		40	
Floor space (LxWxH)	mm	2940 x 2180 x 2350		2940 x 2180 x 2350		3720 x 2640 x 3100		4100 x 2640 x 3100	
Machine weight	kgs	6200		6800		10000		11000	

Standard Accessories

- · Spindle oil cooler unit. • Full splash guard.
- · Cutting coolant unit.
- · Heat exchanger in control box.
- · Auto power off.
- Auto lubrication system.
- · Mechanical, electrical operation manuals.

· Tool box.

(16 tools).

· Rigid tapping.

· Carousel type ATC.

- RS-232 interface. · Air blast through spindle. · Screw type chip
- · Work lamp. conveyor.

Optional Accessories

- Direct drive spindle 10.000.
- 12,000 or 15,000 RPM. • Belt drive spindle 10,000 or
- 12,000 RPM. Rotary table 320 or 250
- (4th axis; including manual tailstock, oil tank, motor and driver)
- · 4th axis oil tank
- · 4th axis motor with driver · Arm-type ATC (24 tools)
- · Oil skimmer.
- · Coolant gun (motor), rear coolant flushing device.
- · Link-chain-type chip conveyor.
- · Coolant through tool holder.
- · Spindle splash ring. (arm-type)
- · Linear scales for 3 axes.
- · Coolant through spindle center with filter.
- · Deep hole drilling stop. · Tool probe system.

Wider Selection Controllers



SIEMENS 840D / 810D



HEIDENHAIN



SELCA S4045 / S4045PD



FANUC Oi - MC / 18i - MB



MITSUBISHI M64S / M65S / M70



ANILAM

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