

Heavy Duty Series



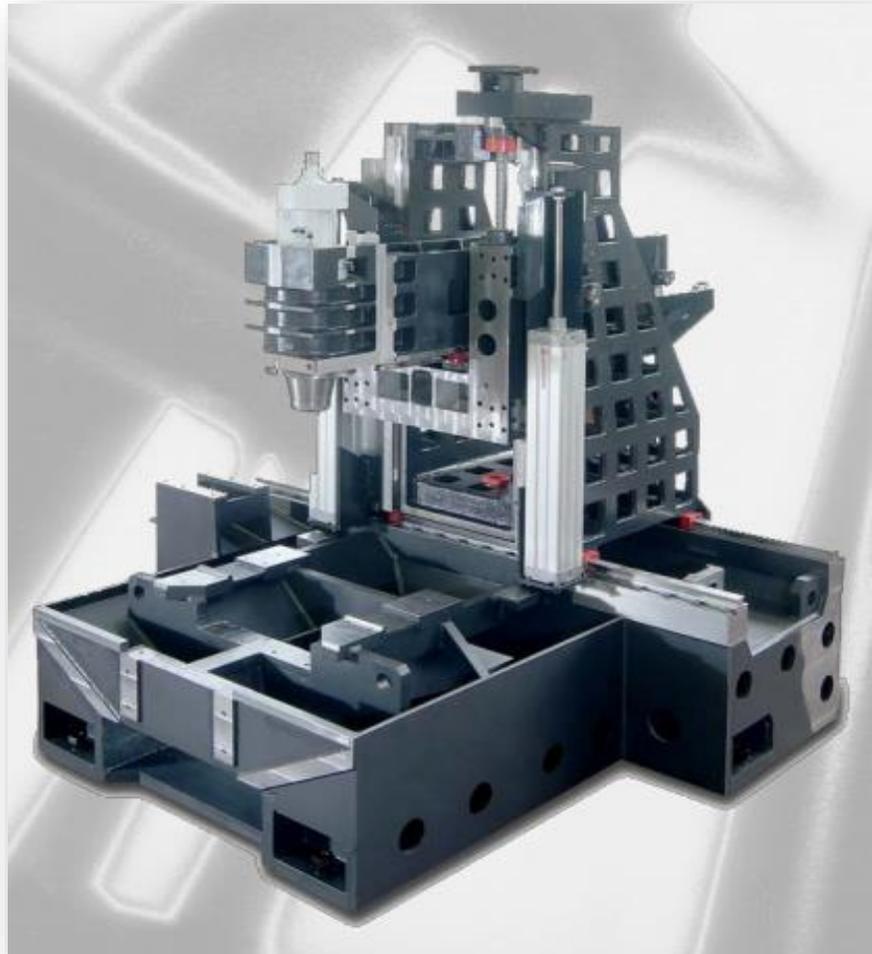
ATLANTEK

**AM
SERIES**

**VERTICAL
MACHINING CENTERS
TRAVELING COLUMN**



ATLANTEK



AM SERIES

3-4 AXES

Solid Mechanical Design

The structure for the ATLANTEK "AM SERIES" of CNC Vertical machining centers are designed to reduce dynamic masses while insuring maximum rigidity. Our engineering focus is to combine speed and strength, which are used by our customers to increase output while maintaining repeatability and accuracy.

The ATLANTEK "AM SERIES" features a large work area with X axis strokes from 1 meter to 7 meters. The completely enveloped and supported engineering design of the extending ram allows for the spindle to extend out in the Y axis further then conventional "C FRAME" designed CNC machines. The base, column, slide and head are designed to give the complete design a high level of resistance.

ATLANTEK "AM SERIES" utilize very powerful Electro Spindles in 40 taper or 50 taper sizes.

	AM2	AM3	AM4
"X" Axis	720 mm	1000 mm	1650 mm
"Y" Axis	520 mm	600 mm	600 mm
"Z" Axis	540 mm	640 mm	640 mm

	15,000 Rpm	12,000 Rpm	12,000 Rpm
Electro Spindle	18kW ISO30	35kW ISO30	35kW ISO30
(Option)	(ISO40)	(ISO50)	(ISO50)
Rapid Speed	40,000 mm/min	60,000 mm/min	60,000 mm/min

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SERIES

	M2	M3	M4
Vertical Machining Centers	Travelling Column	Travelling Column	Travelling Column
Travels X-Y-Z	720 x 520 x 540 mm	1000 x 600 x 640 mm	1650 x 600 x 640 mm
Frame	Cast-iron	Cast-iron	Electro-Welded Bed-frame Column and head in Cast Iron
Motor Spindle	15.000 Rpm 18 kW Cooled	12.000 Rpm 35 kW Cooled	12.000 Rpm 35 kW Cooled
Taper (option)	ISO30-BT30 (ISO40/BT40/ HSK-40A)	ISO40-BT40 (ISO50/BT50/ HSK- 100A/HSK-63A)	ISO40-BT40 (ISO50/BT50/ HSK- 100A/HSK-63A)
Head Balancing	---	Pneumatic Pistons	Pneumatic Pistons
Rapid Feed	60.000 mm/min	60.000 mm/min	60.000 mm/min
Measuring System (option)	Encoders (Pressurized optical linear scales)	Encoders (Pressurized optical linear scales)	Encoders (Pressurized optical linear scales)
Positioning Accuracy	± 5 µm	± 5 µm	± 5 µm
Tool storage (option)	Random 20 pos. (Random 30 pos.)	Random 30 pos. (Random 60 and Rack 90 - 120 pos.)	Random 30 pos. (Random 40 -60 and Rack 90 - 120 pos.)
CNC Control	Fanuc - Heidenhain Fagor - Siemens	Fanuc - Heidenhain Fagor - Siemens	Fanuc - Heidenhain Fagor - Siemens

***M2 Not standard: Contact Sales Team for more info.



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- ✓ Fanuc - Heidenhain - Siemens - Fagor
- ✓ 'X' Axis thermal compensation
- ✓ 12.000 Rpm Electro-Spindle 35 kW 120 Nm
- ✓ Head balancing
- ✓ Scraping chip conveyor

- ✓ 'X' Axis 1000 mm
- ✓ 'Y' Axis 600 mm
- ✓ 'Z' Axis 640 mm
- ✓ Working surface 1200 x 600 mm
- ✓ Loading capacity 3000 Kg
- ✓ Rapid Feed 60 m/min
- ✓ Motor Spindle 12.000 Rpm – 35 kW
- ✓ Taper ISO/BT40 – HSK-A -63
- ISO/BT50 – HSK100-A
- ✓ Tool Storage 30 pos. – Random



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- ✓ Tool storage of 60 pos. capacity (30 + 30 pos.*)
- ✓ 600x600 mm pendulum working area

*Option

- ✓ 'X' Axis 1650 mm
- ✓ 'Y' Axis 600 mm
- ✓ 'Z' Axis 640 mm
- ✓ Working surface 1800 x 600 mm
- ✓ Rapid Feed 60 m/min
- ✓ Tool Storage 30 pos. – Random





Tool Storage

40 Taper	50 Taper
30 Std.	20 Std.
60 Opt.	40 Opt.

Extending RAM & Cradle Design
Is pneumatically counter weighted for high speed & accuracy

Available Spindle Sizes with Specs

Taper	Rpm	kW	Nm
40	12,000	22.5-35	76-120
40	18,000	20-34	160-274
40	24,000	20-25	32-40
50	10,000	40-52	212-275



Dual Zone Configuration AVAILABLE

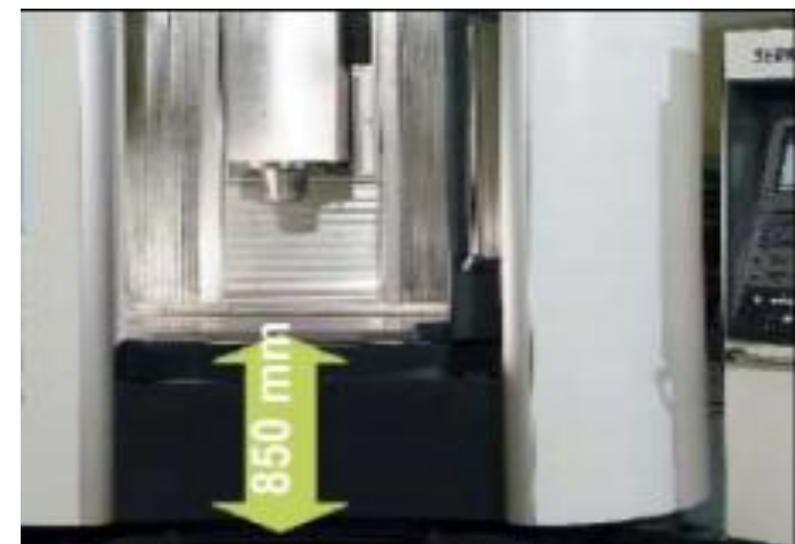
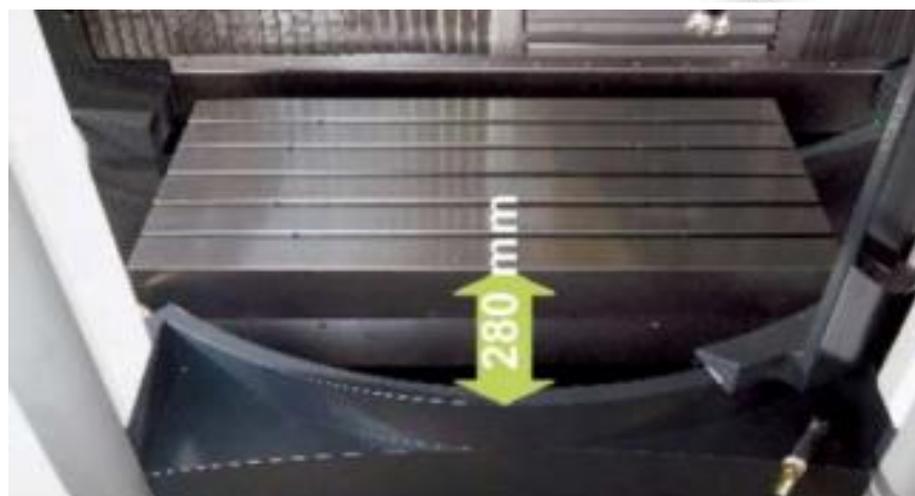
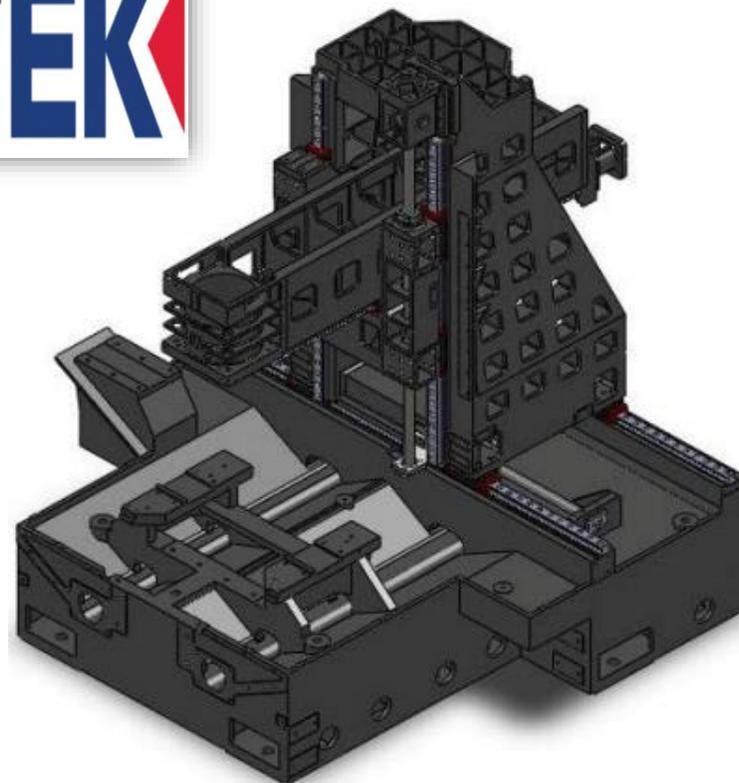
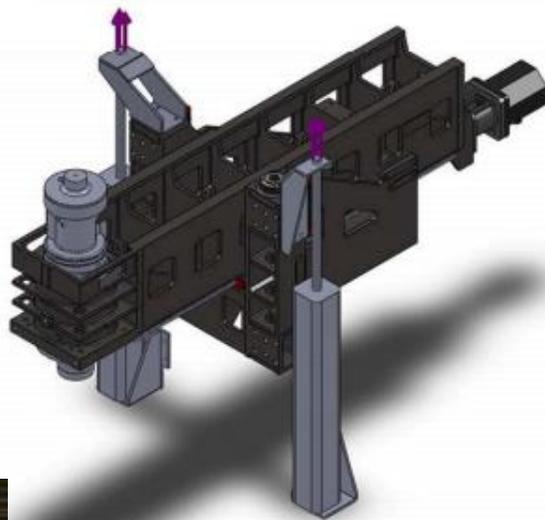
Fanuc
CNC Package Included
(See back for more info)

CHIP Conveyor
Tank capacity: 119 Gallon
Conveyor type: Scraping

Fixed Table with 3 AXIS Traveling Column Design



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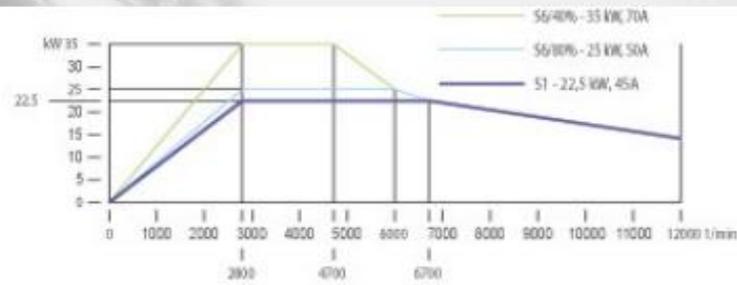
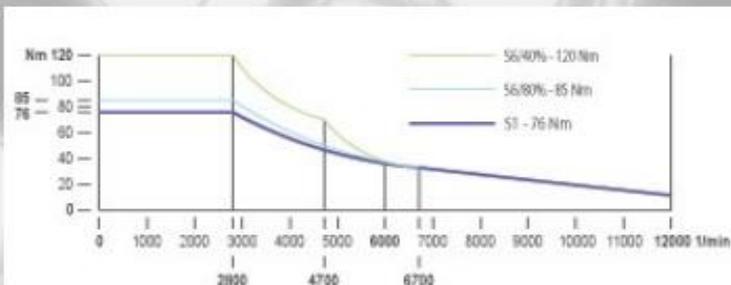




THE ELECTRO-SPINDLE

12.000 RPM

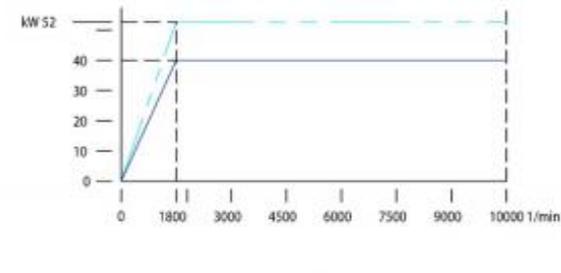
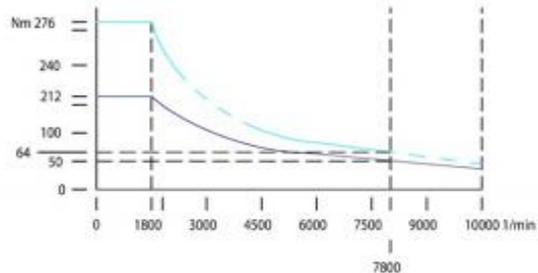
Taper: ISO-BT40



40
Taper

10.000 RPM

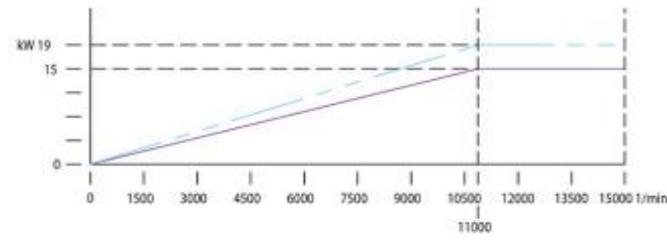
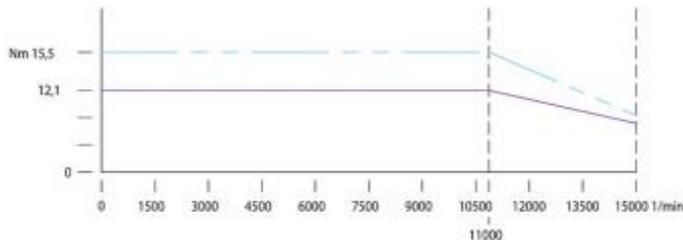
Taper: ISO-BT50/HSK100-A



50
Taper

15.000 RPM

Taper: ISO-BT30/HSK40-A



50
Taper



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