

RENSI

CE

BARON-MAX®

Since 1976

CNC Vertical Milling Centers

Designed to meet the needs of today's Tool room, Simple to Set-up and Operate

Large Travel while providing the versatility required.



BARON-MAX VM Sarjan jyrsinkeskuksset ovat suunniteltu tukevasta petityyppisen jyrsinkoneen pohjalta ja tarjoavat CNC jyrsinkeskuksen erittäin edullisesti, ne ovat erityisen kustannustehokkaita komponenteille, jotka vaativat pitkiä liikematkvoja. VM sarja on saatavilla X-liikematkalla 750mm, 1000mm, 1300mm, 1500mm, 1700mm, 2000mm & 3000mm ja Y akseli on jopa 850 mm

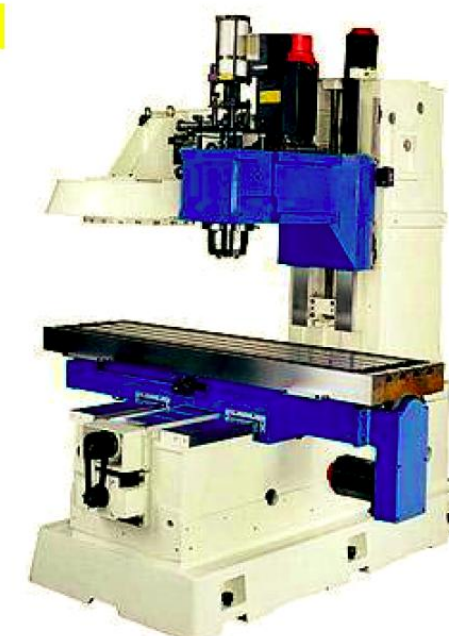
VM-Series Vertical Milling Centers

High Speed with Low Cost Vertical Milling Centers
Offering quality, reliability and value for money



VM-18 on suunniteltu erityisesti piensarja valmistukseen ja työkaluhuoneisiin ja on ideaalinen job shop vaatimuksiin koneen pienestä lattiapinta-ala tarpeesta. VM-18 :ssa on 10 HP (peak) high torque AC digital closed Loop karamoottori BT 40 kartiolla ja to 80 – 8,000 rpm nopeudella (Std.) tai 12,000 rpm (Optio). Pikaliikkeet 15 m/min, koneen paino 2850 Kgs) ja runko on rivotettua valua. 16-paikkainen karusellityyppien työkalun vaihtaja (ATC) voi ottaa 76 mm (3") halkasijaisen työkalun enintään 6 kg per kalu. VM-18 X-Y-Z liikkeet ovat 760 mm x 400 mm x 450 mm, paikoitustarkkuus 0.0004" (0.01 mm) ja toistotarkkuus 0.0002" (0.005 mm). Lisävarusteita mm. karanläpijähdytys, 4. akseli, eri kara jne.

VM-25



VM-20

X-Y-Z-liike: 1000x500x550mm
Pöytäkoko: 400 x 1370 mm
5.5/7.5 KW, BT #40 / 8,000 rpm.
16 Tkai karuselli ATC
Täysin suljetut suojat

VM-25

1300x600x600mm
420 mm x 1600 mm
5.5/7.5 KW
Täysin suljetut suojat

VM-26

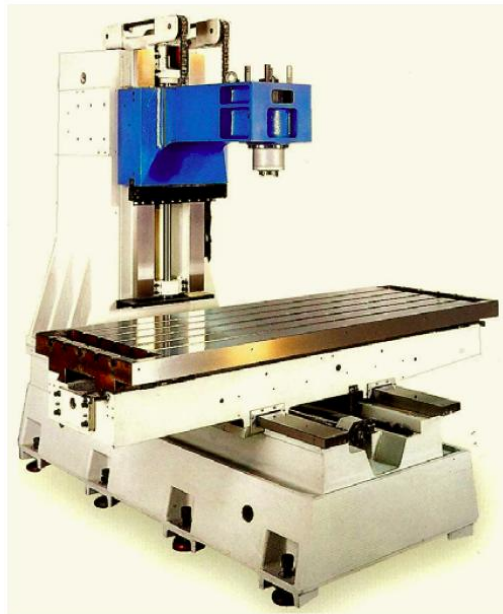
1500x610x610mm
450 mm x 1600 mm
5.5/7.5 KW
Puolisuljetut suojat

VM-28

1500x850x700mm
610 mm x 1850 mm
7.5/11 KW, BT#40 / 8,000 rpm
Puolisuljetut suojat



Isomman *Kapasiteetin: VM-28, VM-30 ja VM-35 suurella poikkiliikkeellä, Optimi suorituskyky poikkeuksellisen isolla työalueella ja täydellinen vaihtoehto isoille kalliille koneistuskeskuksille*



Semi-Enclosed chip guards for VM-28 as standard

The VM-30 and VM-35 are Designed for Ease of use and High Performance, Large Travel, Small Footprint and Accommodates large parts to meet the mold maker needs of today's



Semi-Enclosed chip guards for VM-30 as standard



Four-box ways on Y-axis provide exceptional table support

VM-30 ja VM-35 ovat paras valinta isojen ja raskaiden muottien koneistukseen. Koneita voidaan käyttää manuaalisella, puoliautomaattisesti, teach-in tai täydellä CNC-käyttötavalla. Painava rivotettu Meehanite valurunko on päästetty erinomaisen vakaaksi koneistusalustaksi. Johteet on päällystetty Turcit-B:llä ja käsin kaavattu. Kuularuuvit ovat 40 mm halkaisijaltaan ja kuulamuttereitä on kaksin kappalein. Karassa on 6 kpl laakeria. ATC on 20 paikkainen. X-Y-Z liikkeet ovat, **VM-30:** X-Y-Z: 1700 mm x 850 mm x 700 mm, **VM-35:** X-Y-Z: 2000 mm x 850 mm x 700 mm, antaen suuren koneistusalan.

VM-30

X-Y-Z- liike: 1700 x 850 x 700mm
Pöytäkoko: 760 mm x 1830 mm
Kara: 7.5/11 KW, BT#40 / 6000 rpm.
4-box way johdetta Y-akselilla
20 työkalun karuselli ATC
Puoli suljettu suoja.

VM-35

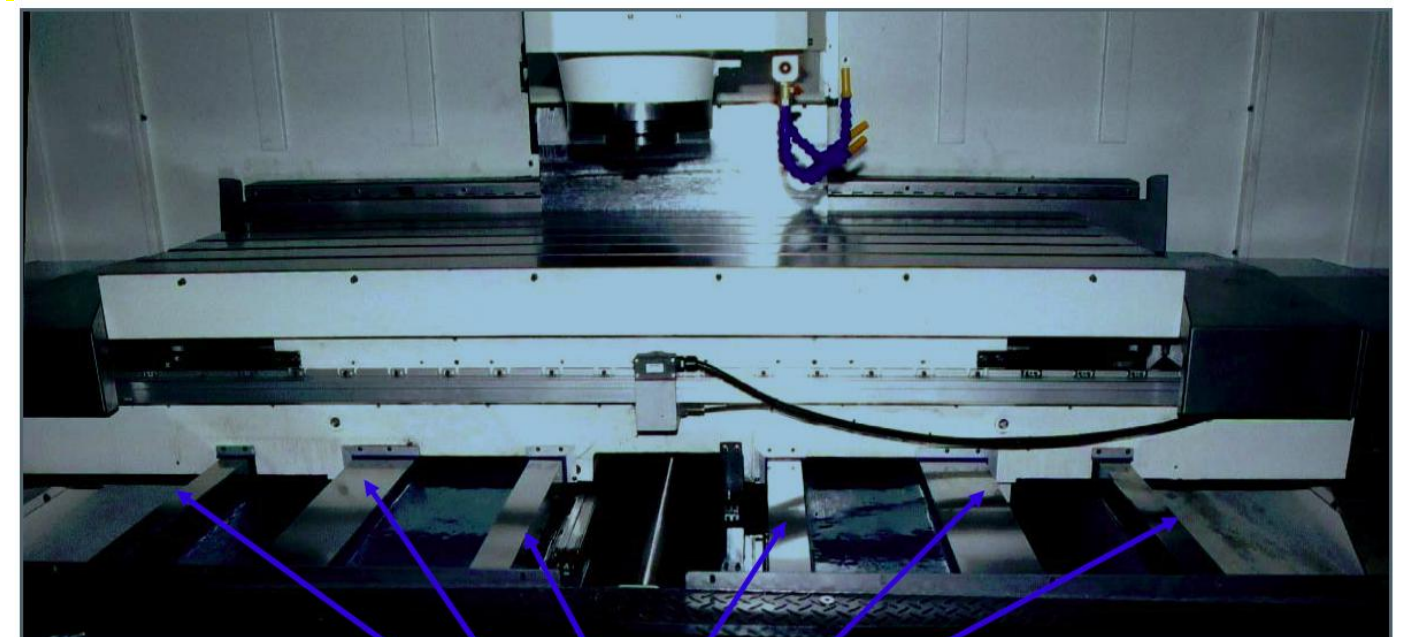
2000 x 850 x 700mm
810 mm x 2180 mm

VM-36

X-Y-Z- liike: 2500 x 850 x 700mm
X-Y-Z- liike:
Pöytäkoko: 810 mm x 2750 mm
Kara :7.5/11 KW, BT#40 / 8000 rpm.
6-box way johdetta Y-akselilla
20 työkalun karuselli ATC
Puoli suljettu suoja

VM-38 VM-38XL

3000 x 900 x 750mm
3000 x 1000 x 750mm
810 mm x 3200 mm
15/18.5 KW, #50 / 6000 rpm



Heavy duty Y-axis 6th Solid Box ways Construction for VM-36 & VM-38



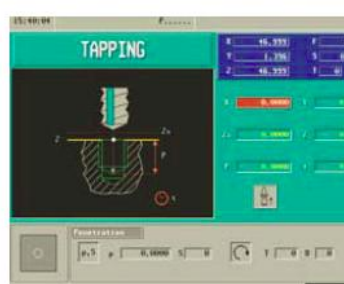
The New Power Hitter, Superior Solutions

The 8055i MC on the highly popular software



The most competitive FAGOR package with all FAGOR servo drive family's digital system.

The FAGOR 8055i MC CNC control combines value & reliability within a feature packed compact control. This control was built for the shop environment with a rugged keyboard and single enclosed design. The unique and very powerful operating system consists of 2 systems within 1 control. Utilizing a 100% very easy to program ICON key based conversational programming system and a very powerful ISO G-code programming system all within the same control system. This allows the control to adapt to the operator/programmers skill level. In addition, this dual operating system allows the control to be ideal for complex large run production parts, but also perfect for quick set-up small lot production.



- DXF file conversion via DNC software
- New Conversational Digitizing canned cycles
- Powerful Interactive Graphic Interface for easy programming – **No Prior CNC knowledge required.**
- Memory cards and Flash memory upgrades available
- Speed & Feed automatic calculator
- Ethernet capability.
- Solid & Tool Path Graphics with zoom
- Teach-in
- Rigid Tapping
- Look ahead up to 75 block
- Powerful full Servos Digital Drive capability
- Up to 4 axis simultaneous
- 11" high resolution LCD mono Monitor (Color as an option)
- 255 Tool Length, Diameter & Wear Offset
- On board mini-cad cam system (Profile Editor)

Superior Solution

- Open Architecture for customization
- High-Level Programming
- On board PLC
- High-Speed Algorithms
- Built-in Geometry Analyzer (Ball Bar test)
- Built-in Oscilloscope Functions

Specifications of VM Series

Spec.	Model	VM-18	VM-20	VM-25	VM-26	VM-28	VM-30	VM-35	VM-36	VM-38
TRAVEL										
Longitudinal travel (X-axis)		760 mm	1000mm	1300mm	1500mm	1500mm	1700 mm	2000mm	2500mm	3000 mm
Cross travel (Y-axis)		400 mm	510 mm	610 mm	610 mm		850 mm			900 mm
Vertical travel (Z-axis)		450 mm	510 mm	610 mm	610 mm		700 mm			750 mm
Spindle nose to table top		120-570	120-670	120-720			120-850 mm			120-900
Spindle center to column		450 mm	550 mm	650 mm			900 mm			1050 mm
TABLE										
Table size (mm)		355x1270	400x1370	420x1600	450 x1800	610 x 1850	760 x 1830	810 x 2180	810x2750	810 x 3200
T-slots (width x No.x patch)		16 x 3 x 65 mm		16 x 5 x 60 mm		18 x 5 x100mm		18 x 5 x120mm		18x7x100
Max. Table load capacity		500 Kgs		800 Kgs		1500 Kgs		2200 kgs		3000 kgs
SPINDLE										
Spindle Motor		5.5/7.5 Kw (Std), 7.5/11 KW(Opt)				7.5/11 KW (Std.)	11/15 KW (Opt.),	15/18 KW (Opt.)		
Spindle speed range(STD)		60 – 8,000 rpm				60 – 8,000 rpm				6,000 rpm
Spindle speed range (OPT)		100– 12,000 rpm				80 – 12,000 rpm				8,000 rpm
Spindle Taper (standard)						BT# 40(STD.), CT#40 or DIN 69871A(Optional)				BT#50
Feed Motor torque (X-Y-Z)		6 Nm (1.4 KW)		11 Nm (1.9 KW)		22 Nm(2.5KW)				32 Nm
Rapid traverse (X-Y-Z)		15,000 mm/min				15,000 mm/min				
Cutting feedrate (X-Y-Z)						1-5000 mm/min				
ACCURACY										
Positioning						±0.010 mm (±0.0004")				
Positioning repeatability						±0.005 mm (±0.0002")				
AUTOMATIC TOOL CHANGER (Carousel Type).										
No. of tools.		10 Tools		16 Pockets		20 Pockets		24 Pockets		
Tool selection				By address code, Random/bi-directional rotation						
Pull stud				MAS 403-P40T (45°) or PS-CAT40 (45°)						P50T (45°)
Max. Tool (Dia. x length)				φ 80mm (3.2") x 250 mm (10")						240x350
Max. Tool weight				7 Kgs						15 KG
Tool change time				7 sec (Tool to Tool)						
Coolant pump motor				1/4 HP						
Floor space (L x W x H) (cm)		280x240x260	300x250x280	320x260x280		350x280x300		495x320x300		535x320x300
Packing size (shipment)		230x260x260	230x280x260	230x300x265		230x420x260		230x472x260		260x450x320
Power required		15 KVA		25 KVA		30 KVA		36 KVA		
Air required				6 kg/cm (85 psi)						
Machine weight (Approx)		3200 Kg	3600 Kg	4800 Kg	5200 Kg	7500 Kg	8000 Kg	9500 Kg		16,500 kg

◆ Specifications are subject to change without notice

Optional Accessories:

- Siemens 810D/840D CNC Control
- FAGOR 8070 CNC Control
- Medals 64M / 65M CNC Control.
- FANUC Oi MC, 21i/18Mi CNC Control.
- 12,000 rpm Spindle speed.
- Spindle oil chiller
- Coolant Through Spindle with Filter system
- Tool offset Probe
- Part Probe
- Thru hole drill kit with Filter system 5 bar.
- Chip Flush
- Chain type chip conveyor with bucket
- 24 Tools or 40 Tools Arm Type ATC.
- 4th Axis preparation.
- Φ 6", 8", 10" and 12" 4th Axis Rotary Tables
- Φ 8" and 10" 5th Axis Tilting Rotary Tables
- ZF 2-speed gearbox with BT#40/8,000 rpm.
- 2-speed gearbox with BT#50/6,000 rpm