

ACRA.

VERTICAL MACHINE CENTER

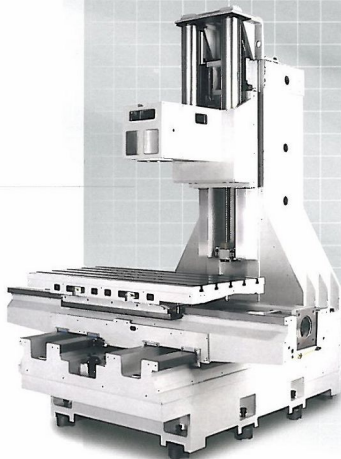
● AVMC-1100H



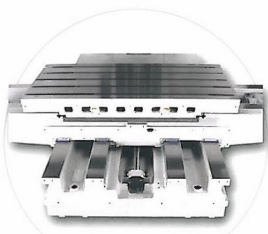
THE LEADER IN QUALITY AND RELIABILITY
~SINCE 1973~

RIGID MEEHANITE CASTING FRAMES WITHOUT DEFORMATION

- Z-axis moving balance by air cylinder without counter weight, no vibration, no noise.
- Z-axis servo motor with brake unit to protect the head down while power off on short time.
- Special base design to separate lube-oil and chip water, this reduces the water pollution.
- More than 5500kg casting frame and a total machine weight up to 7300kg, ensures rigidity during heavy cutting and stability with the 30 meter rapid feed.



4 BOX-WAY DESIGN, RAPID SPEED MAX UP TO 30 m/min



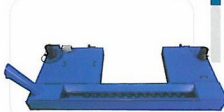
- 4 box-way base & table moving full support on 1100mm travelled.

HIGH PRECISION, RIGID SPINDLE



- High precision, rigid spindle is mounted ø70mm, class P4 high precision bearings assuring maximum stability during cutting with minimum thermal deformation.
- The spindle accommodates BT #40, CAT #40, ISO 40 Or DIN 69871 tool holders.
- Standard spindle speed is 8,000 RPM. Higher spindle speed of 10,000 / 12,000 RPM is optional.

CHIP AUGER SYSTEM *standard*



- Mounted at the front side of the machine, the chip auger system will deliver chips to a cart. It can be used together with the flushing nozzles to keep the machine clean at all times.

HIGH QUALITY ELECTRIC CONTROL



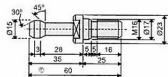
- Totally enclosed electric cabinet features dust-proof performance.
- Equipped with a heat exchanger to ensure constant temperature and control stability for the control circuits.
- The three axes control and general controls are separately mounted in two control cabinets to prevent electronic interference.

CAROUSEL TYPE MAGAZINE *standard

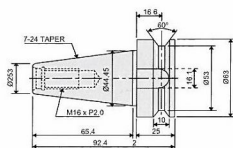


- The machine is equipped with a 20-tool carousel-type magazine which features fast tool change in only six seconds (tool to tool) and 12 seconds (chip to chip).

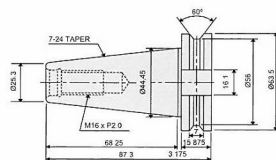
PULL STUD, TOOL SHANK



PULL-STUD

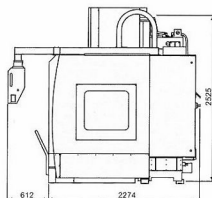
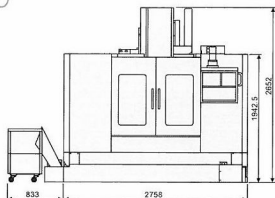


TOOL SHANK (STD) BT-40

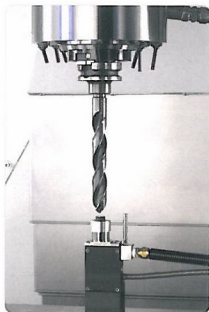


TOOL-SHANK (OPT) CAT-40 / DIN69871

DIMENSIONS



OPTIONAL ACCESSORIES



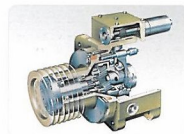
Auto tool length measurement-1



CAM type tool changer system



Auto tool length measurement-2



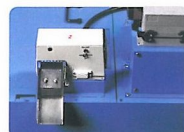
Planetary gear box



Axis linear glass scales



Chain type chip conveyor



Oil skimmer



Coolant thru tool holder



Coolant thru spindle

SPECIFICATIONS

| MODEL | | unit | AVMC-1100H |
|--------------------------|----------------------------|-----------|--|
| TABLE | Overall Size | mm (inch) | 1270 x 640 |
| | Working Area | mm (inch) | 1270 x 640 |
| | T-slots (size *no* Pitch) | mm (inch) | 18 x 5 x 125 |
| | Maximum Loading | kg (lb) | 1200 |
| TRAVEL | X / Y / Z Axis | mm (inch) | 1100 / 610 / 610 |
| DISTANCES | Spindle To Column Ways | mm (inch) | 660 |
| | Spindle To Table Top | mm (inch) | 100 - 710 |
| | Floor To Table Top | mm (inch) | 895 |
| SPINDLE | Taper | BT# | 40 |
| | Speed | rpm | 8000 |
| | Motor | kw | 7.5 / 11 (11 / 15) |
| AXIS MOTORS X & Y / Z | Cutting Feedrate | mm/min | 1-8000 |
| | Rapid Feedrate X / Y / Z | m/min | 24 (30) / 24 (30) / 20 (24) |
| AUTOMATIC TOOL CHANGE | Type Of Atc | | ARMLESS |
| | No. Of Atc | tools | 20 |
| | Max. Tool (DIA / Length) | mm (inch) | 106 / 300 |
| | Max. Tool Weight | kg (lb) | 7 |
| | Tool To Tool | sec. | 6 |
| | Chip To Chip | sec. | 12 |
| BALLSCREW ON 3 AXIS | Dia. X Pitch (X.Y.Z. Axis) | mm | 40 x 12 |
| ACCURACY | Positioning | mm (inch) | jis6388:±0.05mm/300mm vdi 3441:po.14mm |
| | Repeatability | mm (inch) | jis 6388:±0.03mm vdi 3441:ps0.014mm |
| | Roundness | mm (inch) | jis 6388:±1.01mm/300mm diameter |
| MISCELLANEOUS | Machine Net Weight | kg (lb) | 7300 (16100) |
| | Power Required | kva | 25 |
| | Pneumatic Required | kg/cm2 | 7 |

STANDARD ACCESSORIES

- ☐ Full Splash Guard.
- ☐ Pre-Extended Ball Screw.
- ☐ Spindle oil cooler system.
- ☐ Auto Lubrication.
- ☐ Working Lamp & Alarm Light.
- ☐ Heat Exchanger on Elec. Cabinet.
- ☐ Levelling Pads & Bolts.
- ☐ Adjusting Tools & Box.
- ☐ Screw Type Chip Conveyor & Bucket.
- ☐ Chip Auger System.
- ☐ Carousel Type Magazine.

OPTIONAL ACCESSORIES

- ☐ Spindle Belt-Transmission With 10000 / 12000 rpm.
- ☐ Chip Clean Spray Gun.
- ☐ Chain Type Chip Bucket
- ☐ M-30 Auto Power Off Function
- ☐ Spindle ZF Gear Box Transmission.

WIDER SELECTION CNC CONTROLLERS



SIEMENS
840D / 810D



HEIDENHAIN
TNC-i530



SELCA
S4045 / S4045PD



FANUC
Oi-MC / 18i-MB



MITSUBISHI
M64S / M65S



ANILAM
6000

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