



Offer date:2017/2/8
Quotation No.VM2018AFMF20170208A

Stock Machine
Double Column Machining Center **VM2018A**
With FANUC 0i MF
All three axis use linear guide way



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A.) General Machine Description

One-piece cast iron machine bed and one piece cast iron bridge yield in highest rigidity for precise machining results. The frame, stress-relieving designed, provides a stable performance of the machine.

The whole structure was analyzed by FEM to optimize rigidity and precision.

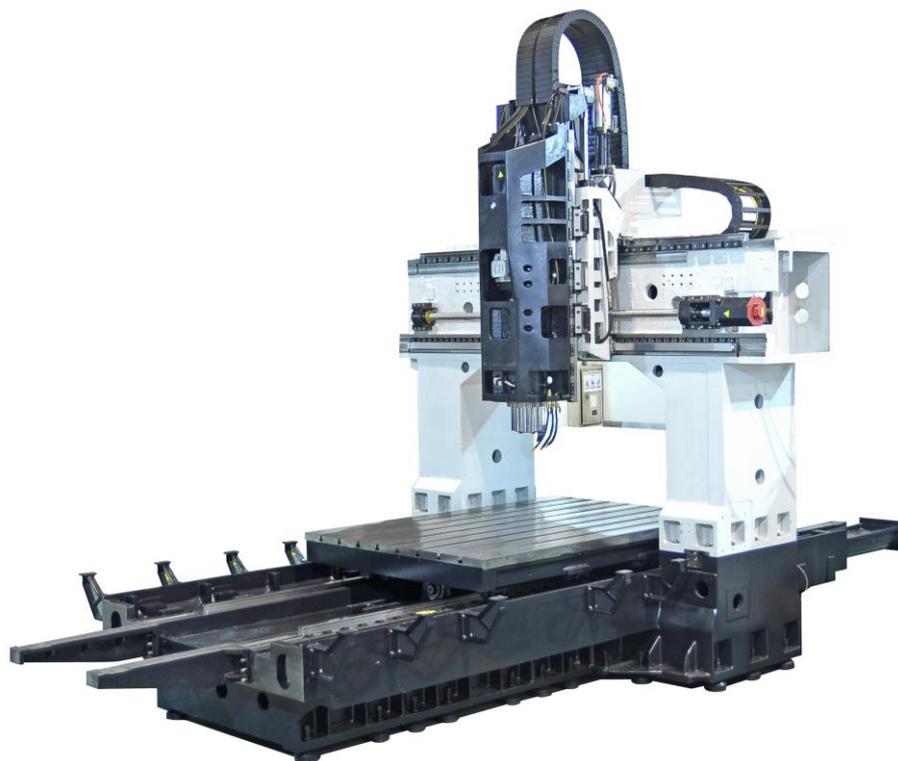
Preload roller linear guide ways with P grade allow max. loading but with a lower friction coefficient (0.003-0.006). It supplies smooth running thanks to optimized roller recirculation and guidance, saving energy consumption.

C3 grade double nut ball screws provide precise cutting, even for heavy loads.

A BF gear box with a 26 KW motor generate 662Nm torque for powerful cutting, thus reducing machining time.

Two coil chip conveyor and one chain chip conveyor remove the chips effectively.

The machine is operated via an operator's panel, designed by Sky Master and made in Taiwan.



B.) Technical Parameter and Equipment for VM2018A, standard

Machine Type	VM2018A (linear way)
CNC system	FANUC 0i MF
X Travel	2300 mm
Y Travel	2000 mm
Z Travel	800 mm
Table size	2300 x 1600 mm
T slot size(quantity/width/distance)	8x 22 x 180 mm
Distance from table to floor	950 mm

Max. load on table	8000 kgs
Spindle taper	BT50 (45°pull stud)
Max. spindle speed	6000 rpm
Distance from spindle nose to table	180~980 mm
Distance between two column	1840 mm
Spindle motor power (continual working 30 mins)	22/26 kw
Spindle motor torque	662 N.m
Rapid travel on X/Y	20000 mm/min
Rapid travel on Z	15000 mm/min
Max. cutting feedrate	1~10000 mm/min
X, Y, Z motor	7/4/4 kw
Tool capacity (optional)	32 pcs
Max. tool diameter	Φ110/Φ225 mm
Max. tool length	350 mm
Max. tool weight	20 kgs
Full travel positioning accuracy(VDI/DGQ 3441)	P 0.020 mm
Repeatability accuracy(VDI/DGQ3441)	Ps 0.015 mm
Air pressure	0.6~0.8 MPa
Supply voltage & frequency	3/PE, AC380V, 50Hz
Power requirement	60 KVA
Machine weight	25000 kg
Machine size (LxWxH)	7027 x 5217 x 4339 mm

Standard:

- FANUC 0i MF absolute type controller
- AICC II, Ethernet DNC, fine mould package, machining condition selecting
- BF gear box (direct driven)
- Spindle 6000rpm BT50
- Rigid tapping
- Full enclosure guard
- Spindle air blowing device
- Machining air blowing device
- Working area light
- 3 color indication light
- Spindle chiller
- Portable MPG
- Coolant system
- Automatic lubrication system
- Pneumatic unit
- Heat exchanger for electric cabinet
- Air gun flushing function
- Water gun flushing function
- Transformer
- Tool box
- Automatic power off
- Foundation blocks and fixture screws
- Chain type chip conveyor with bucket (1 set)
- Coil chip conveyor (2 set)
- Door interlock
- Operation manual

Standard Machine Price with Fanuc for agent as above FOBNINGBO: upon request USD
Machine size after package:7100x3500x3670(mm), G/W: 27000kg, N/W: 25000kg

D.) Documentation

2 sets of documentation in English:

- Mechanical and pneumatic part manual (with accuracy and quality control sheets)
- Electric part manual including schematic drawings
- Machine operation and NC error message manual
- Original manuals from OEM suppliers (FANUC, auxiliary equipment)
- Documentation for FANUC in English language
- Foundation construction standards

E.) Machine painting

According Sky Master standard

F.) Acceptance, Training, Installation

Machine acceptance in manufacturers workshop before installation with following content:

- Inspection and presentation of machine
- Functional test of machine (basic function)
- Optional additional testing work-piece, provided by customer
- Checking of geometric accuracy according to Sky Master accuracy charts

The final acceptance will be signed by parties of Sky Master and customer.

Training for customers will be performed at SKY MASTER's factory. Transportation and accommodation has to be born by the buyer. (contents and duration to be specified)

Installation will be performed by **GK**

SKY MASTER CAN ASSIGN ENGINEER TO GERMANY FOR INSTALLATION,THE TRAVELLING/ACCOMMODATION COST WILL BE BORNE BY THE END-USER

G.) Payment, Delivery and Warranty Conditions

Payment conditions: 30% in advance by T/T, 70% before shipment by T/T or 100% by L/C, hereof 30% down payment, 70% against shipping documents.

Delivery time :Stock machine

Warranty is 12 month from the date of final acceptance for CNC system, for mechanical parts 12 month, but not longer than 14 months from the date of shipment.

Mechanical parts during warranty will be replaced free of charge and have to be returned to Sky Master.

Wearing parts are excluded from warranty.

Warranty performance on customer side will be performed by **GK**

Validity of offer: 3 month