



Advanced Manufacturing Technology Development Centre

Centre of Excellence on Machine Tools and Production Technology, IIT Madras
Registered as a society under Tamil Nadu Society Registration act, 1975 - Reg. No. 421/2016



Tel: 044 – 6646 9825

Website : www.amtdc.org

Email: info@amtdc.org

Ref: AMTDC/EQUIPMENTS/2020/10

DATE: 10.07.2019

DUE DATE: 25.07.2020

Dear Sir,

Quotations are invited for “**VERTICAL RAM TURRET MILLING MACHINE AND ACCESSORIES**” as per the technical specification shown below/overleaf/enclosed document. **(Annexure – 1)**

Accessories

1. The quotations have to be sent to the following Address in the sealed cover.
The Secretary,
Advanced Manufacturing Technology Development Centre,
Ground floor, 'B' Block, IIT Madras Research Park
Kanagam Road, Taramani, Chennai – 600 113
2. Send the quotation by post/courier/in person on or before 25.07.2020. Fax and Email quotations are not acceptable.
3. Quotations must be valid for 60 days from the due date and **period of delivery required, warranty terms etc. should also be clearly indicated.**
4. GST if applicable and such other taxes legally leviable and intended to be claimed should be distinctly shown along with the price quoted. If this is not indicated no such claim will be admitted at a later stage.
5. The items should not be supplied before releasing an official Purchase order.
6. If the item is under DGS&D Rate Contract, Number and the Price must be mentioned. It may also please be indicated whether the supply can be made direct to us at the Rate contract price (Please note that we are not Direct Demanding Officers). If so, please send copy of the RC.
7. 100% of the payment will be made after the supply of the Instruments and installation. Installation has to be completed within a week.
8. Warranty: Warranty period should specifically be given. Free up-gradation and technical support will be provided, should be given in the quotation.
9. The technical compilation report has to be submitted along with the quotation.
10. **Acceptance and Rejection:** - AMTDC has the sole right to accept the whole or any part of the tender or portion of the quantity offered or reject it in full without assigning any reason.
11. For all other information or technical clarifications, please send the email.
Email: accounts@amtdc.org Phone: 66469825 / 42022629

Yours faithfully

K. Ramesh Kumar
09072020

Accounts Officer/ AMTDC

ACCOUNTS OFFICER

Advanced Manufacturing Technology



ANNEXURE – 1

VERTICAL RAM TURRET MILLING MACHINE		
SPECIFICATION		4KS
Table Specifications		
Table size (mm)		254*1270
T-Slot of table (Qty * size)		3*16mm
Longitudinal Manual		890mm
travel (X-axis) Auto		810mm
Cross travel		406mm
Vertical travel of knee		406mm
Ram travel		560mm
Milling head specifications		
Quill travel		127mm
Spindle to table nose (mm)		100~506
Over swivel on turret		360°
Head swivel (R&L)		45°
Head swivel (up & down)		45°
Spindle to column (mm)		159~719
Motor specifications		
Spindle motor		3HP
X axis motor		yes
Lifting motor		yes
Spindle specifications		
Spindle taper		NST#30
Feed and speeds		
Quill feeds (mm/rpm)		0.04 - 0.08 - 0.14
X-axis feed rate		in auto adjustable type
X-axis rapid speed		in auto adjustable type
Lifting speed		in auto adjustable type
Spindle Step head		66~4540 (50Hz) (16 steps)
Speed (rpm) Variable		50~3900 (50Hz)
OTHER FEATURES REQUIRED		
1	Licensed Mahanite casting GC275 with anneal & stress relieving treatment	
2	ISO-9002 Quality approved,100% accuracy and quality inspection	
3	Top cover Bearing supported for additional support Spindle	
4	Overload clutch of one piece design,quill pinion shaft is spline designed to support to over load clutch	

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IIT Madras Research Park
Chennai - 600 113



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5	Backlash adjustment:Double nut designed on the leadscrew nuts,material made of PBC2 phosper bronze provides anti-wearing and less backlash and easily backlash adjustment	
6	Thrust bearing support on table for Saddle & knee Pre-load the feed screws	
7	Adjustable Chain Type Breaking system	
8	Double speed motor with double switch	
9	Turcite B coated on X&Y guideways	
10	Licensed Mechanite casting GC275 with anneal & stress relieving treatment	
11	Spindle Accuracy-5micron and Bed accuracy -10micron for 300mm	
	Accessories required	QTY
1	6 inch Angle -fixed Milling Vise with base	1 no
2	52-Pc Steel Clamping Kit	1 Set
3	NT30 Integrated Type Keyless Drill Chucks (Clamping capacity : 0 - 8mm, 3 - 16mm)	2 set
4	NT30-ER40 23 PCS/SET (3 - 26mm) with wrench	2 set
5	C-Type Boring Head	1 no
6	NT30 Shank And Adapter For C-Type Boring head	1 no
7	NT30-FMB 32mm Face Mill Arbor	2 no
8	8 Simple Indexing Spacer with Chuck	1 no
9	Ground Parallels (18 Pcs set)	2 set
10	NT-30 Horizontal Milling Attachment	1 no
11	Crystal Hard and Ground Precision Angle Plate AA - 2743 - 150*150*150 mm	1 Pair
12	Coolant System suitable for your machine	1 no
13	500X Power Table Feeder X Axis suitable for your machine	1 no
14	500Y Power Table Feeder Y Axis suitable for your machine	1 no
15	500Z Power Table Feeder Z Axis suitable for your machine	1 no

EXECUTIVE ENGINEER
AMTDC