

[www.acramachinery.com](http://www.acramachinery.com)  
**ACRA AM3 PRECISION MILLING MACHINES**



**FEATURES:**

- Class 7 Angular Contact Bearings
- Certified Meehanite Casting
- Ram Locking System U.S. Patent #4990039 Utilizing 6 T-Bolts
- Hand Scraped Turret-Column Ways
- Dust Cover For Knee And Crossfeed Ways
- Precision Hardened And Ground Table With Turcite
- Precision Hardened And Ground Ways
- Double Wall Column
- Built-In Coolant Tank In Base

**STANDARD EQUIPMENT:**

- Hardened & Ground Table & Ways
- Double Wall Construction
- TURCITE On The X & Y Axis
- Quill Heat Treat Hardened & Chromed

SPECIFICATIONS		AM3S	AM3V	AM3AC
<b>TABLE</b>	Table Size	10" x 54"	10" x 54"	10" x 54"
	Longitudinal Travel (X Axis)	39 1/2"	39 1/2"	39 1/2"
	Cross Travel (Y Axis)	16 1/2"	16 1/2"	16 1/2"
	Vertical Knee Travel (Z Axis)	16"	16"	16"
	Over Ram Travel	18"	18"	18"
	T-Slot Number , Size	3 , 5/8"	3 , 5/8"	3 , 5/8"
<b>SPINDLE</b>	Spindle Motor	R-8 or #30	R-8 or #30	R-8 or #30
	Spindle Speed	2 Speed	Inf. Vari.	Inf. Vari.
	Spindle RPM	80~5440 RPM	65~4200 RPM	50~5000 RPM
<b>QUILL</b>	Quill Diameter	3 3/8"	3 3/8"	3 3/8"
	Quill Travel	5"	5"	5"
<b>POWER</b>	Main Motor	2HP	3HP	3HP
	Voltage	220V OR 440V Only	220/440V AC/3PH	220V/3PH/1PH (Opt 440V)
<b>WEIGHT</b>	Net Weight	3,400 LBS	3,400 LBS	3,400 LBS
	Dimension W.x L.	68 1/2" x 56 1/2"	68 1/2" x 56 1/2"	68 1/2" x 56 1/2"

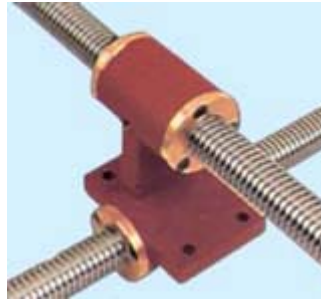
**NOTE!** The manufacturer reserves the right to modify the design, specifications, & mechanisms to improve the performances of the machines without notice. All specifications above are for your reference only.

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**DOUBLE-LOCK-  
DEVICES & ONE  
SHOT LUBE**

The Knee, Arm, Table & Saddle Are Each Equipped With A Pair of Locks To Firmly Clamp Each Axis And To Eliminate The Possibility of Lateral Movement.



**BACKLASH  
ADJUSTMENT**

The Double Nut Arrangement Utilized On The Table And Saddle Allows Backlash To Be Nearly Eliminated And Can Be Adjusted In A Matter Of Minutes



**PRECISION HAND  
SCRAPING**

The Upper & Lower Surface Of The Saddle Are Laminated With TURCITE-B And Precisely Hand Scraped To Provide A Smooth, Accurate And Wear Resistant Slideway Surface.



**ACCURATELY  
GROUND QUILL &  
HOUSING**

Hardened And Ground Spindle Back-Gears. The Hard Chromed Quill Is Ground To Mirror Finish And Fitted To The Quill Housing To Ensure Smooth Movement, Excellent Rigidity And Offers Extreme High Spindle Accuracy.



**HIGH PRECISION SPINDLE**

The Spindle Is Supported By Super Precision Class 7 (P4) Angular Contact Ball Bearings Which Have Been Accurately Measured, Selected And Preloaded, Then Assembled In A Temperature Controlled Room To Ensure Accuracy And Rigidity Throughout The Full RPM Range.



**MEEHANITE CAST  
IRON**

All Essential Castings Are Made Of High Grade Meehanite Cast Iron Which Has Been Stress Relieved To Provide A Rigid Machine Structure.



**LOW VIBRATION  
VARIOUS SPEED  
HEAD**

The Quietest Head You Ever Used, With Dynamically Balanced Pulleys And Chrome-Plated Motor Shaft For Smooth Speed Changing Free Of Noise And Vibration.