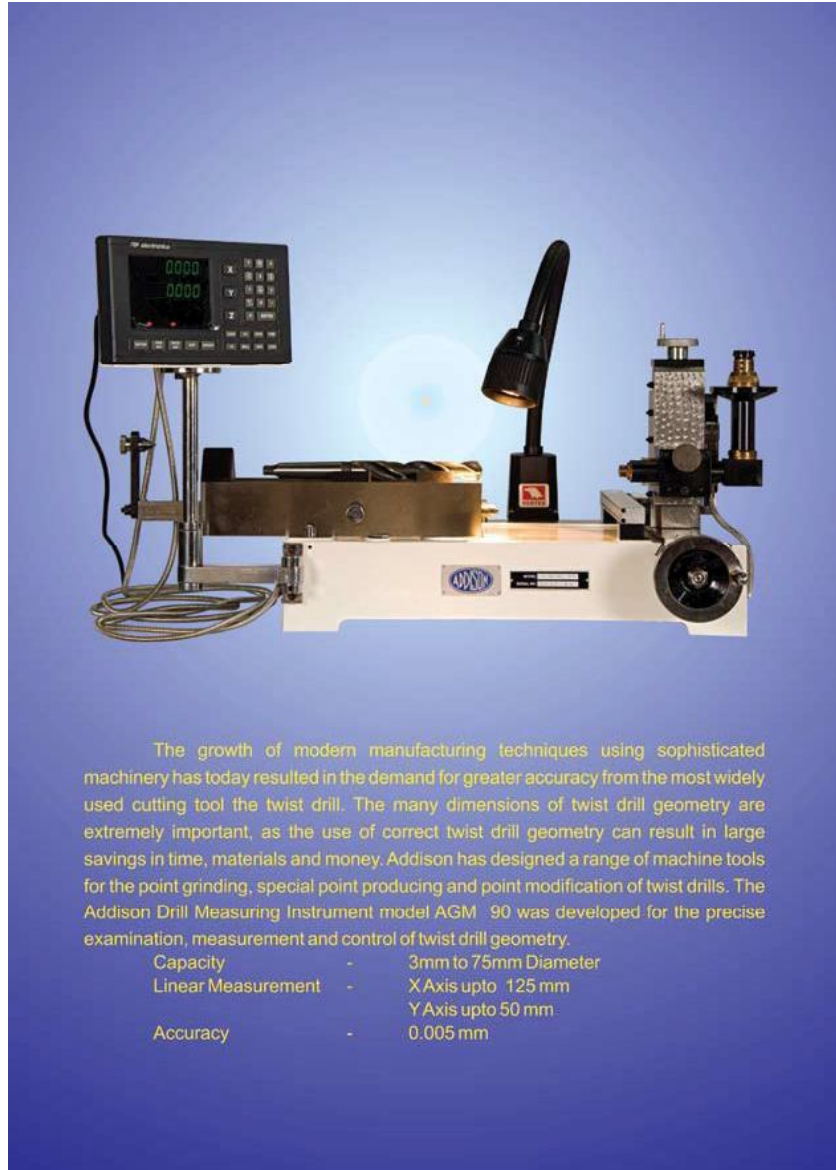




**ADDISON DRILL MEASURING INSTRUMENT  
MODEL - AGM 90**

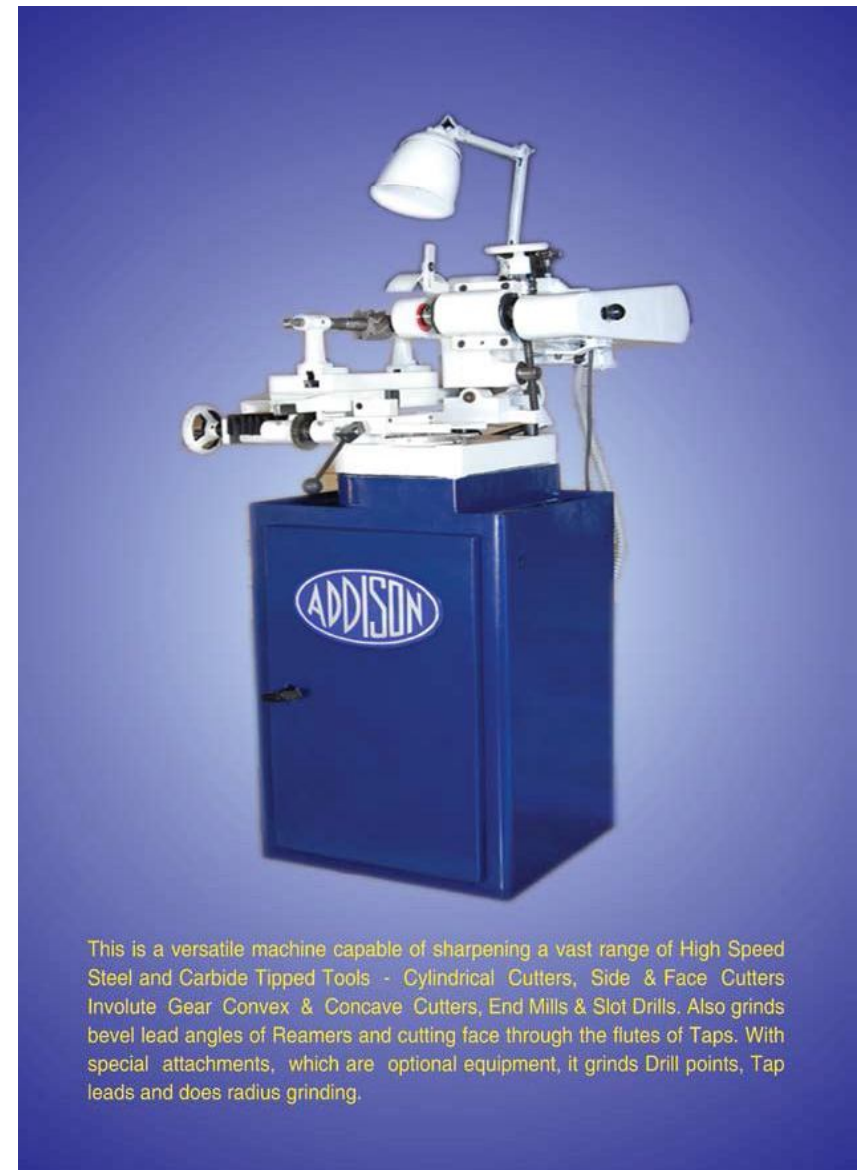


The growth of modern manufacturing techniques using sophisticated machinery has today resulted in the demand for greater accuracy from the most widely used cutting tool the twist drill. The many dimensions of twist drill geometry are extremely important, as the use of correct twist drill geometry can result in large savings in time, materials and money. Addison has designed a range of machine tools for the point grinding, special point producing and point modification of twist drills. The Addison Drill Measuring Instrument model AGM 90 was developed for the precise examination, measurement and control of twist drill geometry.

Capacity	-	3mm to 75mm Diameter
Linear Measurement	-	X Axis upto 125 mm Y Axis upto 50 mm
Accuracy	-	0.005 mm



**TOOL & CUTTER GRINDER MODEL TC 30**



This is a versatile machine capable of sharpening a vast range of High Speed Steel and Carbide Tipped Tools - Cylindrical Cutters, Side & Face Cutters, Involute Gear, Convex & Concave Cutters, End Mills & Slot Drills. Also grinds bevel lead angles of Reamers and cutting face through the flutes of Taps. With special attachments, which are optional equipment, it grinds Drill points, Tap leads and does radius grinding.


**TOOL & CUTTER GRINDER MODEL TC - 810**


This is a versatile machine capable of sharpening a vast range of High Speed Steel and Carbide Tipped Tools - Cylindrical Cutters, Side & Face Cutters, Involute Gear Convex & Concave Cutters, End Mills & Slot Drills. Also grinds bevel lead angles of Reamers and cutting face through the flutes of Taps. With special attachments, which are optional equipment, it grinds Drill points, Tap leads and does radius grinding.


**TOOL & CUTTER GRINDER MODEL - TC 816**


This is a versatile machine capable of sharpening a vast range of High Speed Steel and Carbide Tipped Tools - Cylindrical Cutters, Side & Face Cutters, Involute Gear Convex & Concave Cutters, End Mills & Slot Drills. Also grinds bevel lead angles of Reamers and cutting face through the flutes of Taps. With special attachments, which are optional equipment, it grinds Drill points, Tap leads and does radius grinding.





## TOOL & CUTTER GRINDER MODEL GRIND - 3X



## ADDISON TOOL & CUTTER GRINDERS



### ADDISON CNC TOOL & CUTTER GRINDER MODEL ADD GRIND - 3X



## TOOL & CUTTER GRINDER MODEL SPECIFICATIONS

### ADDISON CNC TOOL & CUTTER GRINDER MODEL ADD GRIND - 3X

- The machine is fitted with Linear Motion Guide System for its longitudinal movement with C1 Class ball Screws.
- The outstanding features of the system provides smooth movement with no clearance and higher running precision with high Rigidity.
- The smooth cross travel movement is achieved through hand operated high precision ball screw free from backlash.
- Main Spindle is provided with Super Precision Angular Contact bearings which facilitates smooth running at higher RPM.
- The work head fixture is a fully adjustable with swivel base with BT 50 holder.
- This Machine is operated with FANUC Series Oi Mate MD operating system .
- This Machine is also provided with sufficient cooling system for Control panel.
- This Machine is provided with Tail Stock Support to accommodate Extra Long Tools.

### ADDISON TOOL & CUTTER GRINDER MODEL TC 810

- The work head fixture is fully adjustable with a swivel base. Graduations are provided for accurately setting up the tools for grinding. Indexing System is provided for 2,3,4,6,8,12 & 24 flute cutters. Other flutes can be set with finger rest.
- The machine is fitted with hardened and ground guide ways in cross travel and longitudinal to have very smooth movement.
- The tilting arrangement has been provided so that the wheel head be swung 30 degrees on either side.
- Cutter upto 203mm ( 8" ) can be accommodated on this machine.
- The grinding spindle runs on super precision angular contact ball bearings and is provided with AC drive which can steplessly vary the speed upto 5000 rpm. Drive from the motor to the spindle is through coupling. The spindle speed is easily changed by selector switch for the use of conventional and super abrasive grinding wheels.

### ADDISON TOOL & CUTTER GRINDER MODEL TC 816

- The work head fixture is fully adjustable with a swivel base. Graduations are provided for accurately setting up the tools for regrinding. Indexing System is provided for 2,3,4,6,8,12 & 24 flute cutters. Other flutes can be set with finger rest.
- The machine is fitted with hardened and ground guide ways in cross travel and longitudinal to have very smooth movement.
- The tilting arrangement has been provided so that the wheel head be swung 30 degrees on either side.
- Cutter upto 203mm ( 8" ) can be accommodated on this machine.
- The grinding spindle runs on super precision angular contact ball bearings and is fixed on a rigid wheel base which can swivel 360 Degree in the horizontal plane. Drive from the motor to spindle is through a Flat Belt. The spindle speed is easily changed through step pulley for the use of conventional and super abrasive grinding wheels.

### ADDISON TOOL & CUTTER GRINDER MODEL TC 30

- The Work head holding fixture is fully adjustable with a swivel base. Graduations are provided for accurately setting up the tools for grinding.
- An Adjustable stopper limits the longitudinal table traverse at forward and backward strokes. The table has a swivel base for easy setting up of the tools at various angles on the horizontal plane and has a locking arrangement.
- The tilting arrangement has been provided at the rear and the wheel head can be swung through 20 degrees on either side. Readily visible graduations on the tilting bracket make it easier for setting up of clearance angle on the cutters accurately.
- Cutter up to 203mm ( 8" ) can be accommodated on this machine. The outstanding feature of this machine is "TILTING HEAD".
- The wheel head spindle runs on roller bearings and has two speeds 2800 RPM and 5000 RPM. Drive from the motor to spindle is by endless flat belt, the Spindle is easily altered by changing the belt.



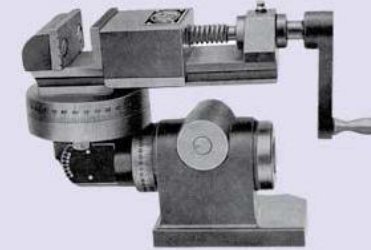
**TOOL & CUTTER GRINDER  
TECHNICAL SPECIFICATIONS**



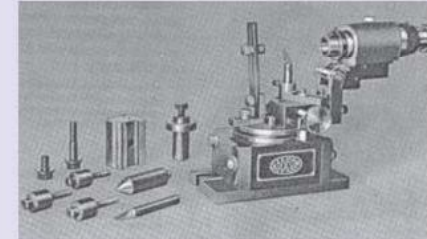
**ADDISON MACHINE TOOLS OPTIONAL  
ACCESSORIES FOR CUTTING TOOL RESHARPENING**

<b>Tool &amp; Cutter Grinder Technical Specifications</b>				
	TC30	TC810	ADD GRIND 3X	TC816
Max Dia Ground	203 mm	203 mm	304 mm	203 mm
Max Admit Between Centres	254 mm	330 mm	500 mm	480 mm
Max Length of Cutting Edge / Ground	127 mm	250 mm	400 mm	400 mm
Grinding Spindle Speed	2800/5000 RPM	2800/5000 RPM Variable Speed Control	MAX 9000 RPM Variable Speed Control	2800/5000 RPM
Working Surface of 'T' Slot Table	330 x 160 mm	550 x 105 mm	980 x 160 mm	690 x 110 mm
Longitudinal Traverse	152 mm	250 mm	400 mm	400 mm
Cross Traverse	136 mm	105 mm	200 mm	127 mm
Motor Capacity	0.75 HP	0.75 HP	1.5 HP	0.75 HP
Machine Base	470 x 476 mm	690 x 920 mm	690 x 920 mm	520 x 520 mm
Floor Space	762 x 1016 mm	920 x 1070 mm	2300 x 2600 mm	920 x 1500 mm
Height of the Machine	1400 mm	1600 mm	2200 mm	1300 mm
Weight of the Machine with STD Accessories	350 kgs	850 Kgs	1.5 tone	650 Kgs

**UNIVERSAL MACHINEVICE**



**RADIUS GRINDING ATTACHMENT**



**DRILL POINT AND TAP LEAD GRINDING ATTACHMENT**







## ADDISON MACHINE TOOLS OPTIONAL ACCESSORIES FOR CUTTING TOOL RESHARPENING

### ADDISON DRILL POINT AND TAP LEAD GRINDING ATTACHMENT

- It is a simple unit to carry out point grinding of drills 3mm to 20mm and Tap Cone Grinding of 3 and 4 flute taps.
- Point grinding of drills with standard geometry 118 Degrees to 140 Degrees is feasible. Web thinning on drills shall be carried out with this attachment.
- This attachment is suitable for "ADDISON" Model Tool & Cutter Grinder such as TC30.TC810.TC816 & TC 810E, For other manufacturer's Tool & Cutter Grinding machines, it can be made suitable on request.
- This attachment is provided with 18 Sizes of Collets ranging from 3 to 20mm to facilitate quick setting for resharpening and for taps with Pin Collets for 3 and 4 Flute Taps. Apart from the above it is provided with Morse Taper Shank MT1 and MT2 with "C" Spanner.

### ADDISON RADIUS GRINDING ATTACHMENT

- It is designed to carry out, Ball Nosing of Slot drills including those gashed on the spiral, Radius Grinding on End Mills, Forming and regrinding corner rounding cutters and Grinding Radii on Side and Face Cutters.
- The attachment can accommodate cutters with 1" Shank Dia and Smaller Shanks also be accompanied by using Bushes which are supplied along with this as Standard Equipment.
- ADDISON Radius Grinding Attachment is supplied with Work holder, Centre, Swan neck, extension block, finger rest and three spacers. (Spacers for our TC 30 Model Only.)

### ADDISON UNIVERSAL MACHINE VICE

- Addison Universal Machine vice is fully universal in three planes and is designed for rapid setting of work piece to any compound angle desired with readily visible graduations.
- It is possible to convert the Universal vice in to Swivel Vice with minimum loss of time using the conversion attachment supplied along with the unit and the swivel vice is adjustable in one plane through 360 Degrees.
- By Specification, the width of Jaws is 70mm; Depth of Jaws is 25mm. Admit between jaws is 40mm. The Overall height of Universal Vice is 150mm and the Overall height of Swivel vice is 90mm.

*We reserve the right to deviate from the specifications given above as it is our constant endeavour to make improvements in the design of our products.*

FOR ENQUIRES PLEASE CONTACT



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## ADDISON DRILL GRINDER MODEL - ADG 350



Addison Drill Point Grinding Machine is a versatile and compact machines designed to provide simple but, effective means of resharpening of wide varieties of both HSS and Solid Carbide Drills, Taps and End Mills accurately with minimum skill.

Tools can be Ground	: Drills, Taps, End mills
Dia of the Drill that can be Ground	: 3mm - 50mm
Max Drill admit length	: Standard
Number of LIPS that can be Ground	: 2 Lips for Drills with RH & LH Cutting 2, 3 & 4 Flutes for Taps and End Mills with RH Cutting Only.
Point Angle	: 40 Degrees / 180 Degrees
Grinding Wheel	: Flat Wheel 180 x 40 x 31.75AA60, Dish wheel 150 x 19 x 31.75AA46
Motor	: ½ HP 2800 rpm, 3 Phase 415V/50HZ
Coolant Pump	: 0.25kw 2900rpm
Total Power Consumption	: 1.5 kw



**ADDISON DRILL GRINDER  
MODEL - ADG 80 & ADG 100**



Addison Automatic Drill Point Grinder Model ADG 80 & ADG 100 are a versatile compact & sturdy machine and designed for sharpening the Point of the Twist Drills in a wide range of Two, Three & Four flutes accurately and quickly. This machine can accommodate drills From Diameter 10mm to 80mm(for ADG 80) and 10mm -100mm (for ADG 100) with overall length up to 1000 mm.

Tools can be Ground	:	Drills
Dia of the Drill that can be Ground	:	10mm to 80mm(for ADG 80) & 10mm -
100mm (for ADG 100)		
Max Drill admit length	:	1,000 mm
Number of LIPS that can be Ground	:	2, 3 & 4 Lips for Drills with RH Cutting
Point Angle	:	100 Degrees / 160 Degrees
Grinding Wheel	:	Flat Wheel 254 x 50 x 100mm,
		3A46 Kv5
Motor	:	3kw - 2900rpm
Coolant Pump	:	0.25kw 2900rpm
Total Power Consumption	:	3.75 kw