

## TOOL & CUTTER GRINDER



### Machine Introduction

Universal tool and cutter Grinders are used to sharpen milling cutters and tool bits. Our sigma UTC series is extremely versatile machine useful for surface grinding and grinding of complex shapes. Our sigma UTC series comes with a variety of optional accessories and fixtures. Set-up can be created and combined to complete many operations.

### Universal Tool and Cutter Grinder

✔ Sigam UTC 250TM    ✔ Sigam UTC 250T    ✔ Sigam UTC 280T

### Machine Features

#### Functional Versatility

The machine is basically designed for sharpening and reconditioning a wide range of high speed and carbide tipped tools such as side & face milling cutters, cylinder cutters, angle cutters, convex & concave cutters, gear hobs, end mills, shell mills, reamers, drills, taps, etc.

#### Main Construction of Machine

**Wheel Head :** It is of rigid construction and holds the spindle assembly. It can be fitted horizontally and swiveled vertically full 360 degrees, for quick setting of compound angles. The wheel head is mounted on the rigid column, which can be raised/lowered up/down. The wheel head also can be adjusted 150mm on the cross direction.

**Wheel head spindle :** Alloy steel hardened and ground spindle is mounted on precision pre-load radial ball bearings, which are greased packed. The grinding wheels can be mounted on both sides of the spindle and the wheel mount design is such that the spindle can be reversed.

**Work Table :** This is mounted on the carriage and can be swiveled 45 degrees on either side of the column. This table has a smooth and rapid movement longitudinally on the carriage through LM guideways which enable smooth, sensitive and accurate longitudinal movement even with heavy jobs. Auxiliary.

**Universal Work Head :** This can be swiveled full 360 degrees in both horizontal and vertical planes. Its spindle nose has ISO 50/MT 5 tapers and the spindle is mounted to taper roller bearings.

## Standard Accessories

- ✓ Universal Cutter Head with
- ✓ MT-3 Adopter & Dead Centre
- ✓ Right Hand Tail Stock. (Spring Loaded)
- ✓ Left Hand Centre Tail Stock
- ✓ Diamond Holder
- ✓ Plain Tooth Rest with Micro Adjustment
- ✓ Universal Tooth Rest
- ✓ Centre Height Gauge
- ✓ Wheel Guards
- ✓ Grinding Wheels - 3 Nos.
- ✓ Cutter Arbor Dia 25.4
- ✓ Wheel Flanges - 3 Nos.
- ✓ All Necessary Spanners and Wrenches
- ✓ Suitable Electrical
- ✓ Maintenance and Instructions Manual

## Optional Accessories

- ✓ Radius Grinding Attachment
- ✓ Cylindrical External & Internal Grinding Attachment
- ✓ Face Milling Cutter Grinding Attachment
- ✓ Extra Precision Spindle for Internal Grinding Attachment
- ✓ Drill Point & Top Lead Attachment
- ✓ Flute Grinding or Spiral or Hob Grinding Attachment
- ✓ Long Reamer Grinding Attachment
- ✓ Dust Collector Unit Complete with Electricals
- ✓ Radius Grinding Attachment for Die Sinking Cutter
- ✓ Cylindrical External Grinding Attachment
- ✓ Water Cooling Device
- ✓ Blade Grinding Attachment
- ✓ Permanent Magnetic Chuck 10" x 5"
- ✓ Milling Gear Cutter Grinding Attachment
- ✓ Universal Three Way Vice
- ✓ Wheel Balancing Unit
- ✓ Indexing Attachment with Plate 4 Pcs.
- ✓ 4" Self Centering Chuck with Flange
- ✓ Universal Two Ways Vice
- ✓ Angular Wheel Dressing Attachment
- ✓ Radius Dressing Attachment
- ✓ Universal Vice 100 mm
- ✓ Collets Attachment
- ✓ Machine Lamp with Electricals
- ✓ Raising Block
- ✓ MT-5 Cutter Arbor for Various Sizes
- ✓ Wheel Flange Optional Size
- ✓ Extension Pieces for Internal Grinding
- ✓ Spindle Dia : 6,10,11 or 14 mm
- ✓ Diamond Dresser
- ✓ Collets

## Technical Specification

		SIGMA UTC 250TM	SIGMA UTC 250T	SIGMA UTC 280T
<b>CAPACITY</b>				
Max. swing on std. Centre	mm	250	250	280
Swing with Raising Blocks		350	350	380
Length between Workhead and RH Tailstock	mm	330	520	610
Admit between Centers		440	670	760
Max. Height Center of wheel above Table	mm			
<b>TABLE</b>				
Longitudinal Traverse	mm	400	480	510
Cross Traverse		200	250	250
Swivel either side of Centre (End Scale)	degree	-	9	9
Swivel LH/RH of Column (Centre Scale)				
Size of Table	mm	850 x 115	920 x 140	1040 x 140
<b>WHEEL HEAD</b>				
Vertical adjustment of Wheel Head	mm	210	210	290
Swivel	degrees	360°	360°	360°
Tilting in either Direction	degrees	180°+	180°+	180°+
	r.p.m.	3800 5600	3800 5600	3800 5600
Motor Power	KW/HP	0.75 / 1	0.75 / 1	0.75 / 1
<b>SHIPPING DIMENSIONS</b>				
Net weight of the Machine	kg.	750	1150	1250
	kg.	900	350	1450
Overall size of Machine L x W x H	mm	1075 x 1100 x 1400	1425 x 1470 x 1580	1425 x 1470 x 1580
Overall size of Packing case L x W x H		141 300 550	575 575 650	575 x 575 x 650

# OUR PRODUCTS RANGE



CNC EDM (Pg. No. 03)



CNC EDM (Pg. No. 04)



ZNC EDM DC SERVO (Pg. No. 05)



ZNC EDM AC SERVO (Pg. No. 06)



CNC DRILL EDM (Pg. No. 07)



DRILL EDM (Pg. No. 08)



CNC WIRE CUT DC STEPPER (Pg. No. 09)



CNC WIRE CUT AC SERVO (Pg. No. 10)



LASER WELDING (Pg. No. 11)



HAND HELD LASER (Pg. No. 12)



FIBER LASER CUTTING (Pg. No. 13)



LASER MARKING/ENGRAVING (Pg. No. 14)



MIRO TIG WELDING (Pg. No. 14)



CNC ENGRAVING (Pg. No. 15, 16)



CNC WOOD ROUTER (Pg. No. 17)



SINGLE LIP GRINDER (Pg. No. 18)



Tapping Machine (Pg. No. 19)



DIGITAL READOUT (Pg. No. 19)



CONSUMABLES/SPARES (Pg. No. 20)



VERTICAL MOULDING (Pg. No. 21)



MILLING MACHINE (Pg. No. 22,23)



LATHE MACHINE (Pg. No. 24,25, 26, 27)



RADIAL DRILL MACHINE (Pg. No. 28, 29)



Tool and Cutter Grinder (Pg. No. 30,31)



**Registered Address :**

C-46, Mangolpuri Industrial Area,  
Phase-I, New Delhi-110083 (India)

 7529999900 / 9311003936

 [www.jkmachines.co](http://www.jkmachines.co)

[www.jkmachines.co.in](http://www.jkmachines.co.in)

 [jk.machines@hotmail.com](mailto:jk.machines@hotmail.com)

[info@jkmachines.co](mailto:info@jkmachines.co)



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