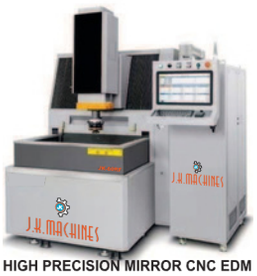
# OUR PRODUCTS RANGE



CNC EDM NEXT GEN V1.1 (Pg. No. 03)



HIGH PRECISION MIRROR CNC EDM
AUTOMATIC LIFTING OIL TANK (Pg. No. 04)



CNC EDM (Pg. No. 05)



CNC EDM (Pg. No. 06)



ZNC EDM DC SERVO (Pg. No. 07)



ZNC EDM AC SERVO (Pg. No. 08)



DRILL EDM NEXT GEN (Pg. No. 09)



CNC DRILL EDM (Pg. No. 10)



WIRE CUT EDM STEPPER (Pg. No. 11)



WIRE CUT EDM SERVO (Pg. No. 12)



MOULD LASER WELDING (Pg. No. 13)



LASER MARKING/ENGRAVING
MICRO TIG WELDINNG (Pg. No. 14)



CNC ENGRAVING (Pg. No. 15 & 16)



CNC ENGRAVING (Pg. No. 15 & 16)



CNC WOOD ROUTER (Pg. No. 17)



CUTTER GRINDER'S (Pg. No. 18)



DIGITAL READOUT (Pg. No. 19)



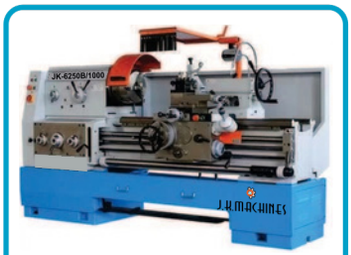
CONSUMABLES/SPARES (Pg. No. 20)



VERTICAL TURRET MILLING (Pg. No. 21)




HYDRAULIC SURFACE GRINDER (Pg. No. 22)



ALL GEARED LATHE (Pg. No. 23)



RADIAL DRILL MACHINE (Pg. No. 24)



VERTICAL MOULDING (Pg. No. 25)




ELECTRICAL SCOOTY (Pg. No. 26)

J.K. MACHINES




# TOOL & CUTTER GRINDER

## Machine Introduction

Universal tool and cutter Ginder are used to sharpen milling cutters and tool bits. Our sigma UTC series is extremely veratile machine useful for surface grinding and grinding of complex shapes. Our sigam UTC series comes with variety of opitional accessorise and fixtures. set-up can be created and combuined to complete many operations.

### Univeresal Tool and Cutter Ginder

- Sigam UTC 250TM
- Sigam UTC 250T
- Sigam UTC 280T

## Machine Features

### Functional Versatility

The machine basically designer for sharpning and recondetion wide range of high speed and carbide Tipped tool as side & Face Milling Cutters Cylinders cutters,Angel Cutters, convex & concave cutters, gear hobs, End mills, shell mills Reamers, Drill, Tapes etc.

### Main Construction of Machine

**Wheel Head :** Its is of rigid construction and holds the spindel assembly. it can be fitted horizontal and swiveled verticaly full 360 degree, for quick setting of compund angels. wheel head is mounted on the rigid column, which can be raised/lower up/ down wheel head also can be adjusted 150mm on cross direction.

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

**Work Table :** This is mounted on the carriage and can be swiveled 45 degree on either side of the column. This tables has a smooth and rapid moument longtudinally on the carriage through LM Giudeways which enable smooth, sensitive and accurate longitudinal movment even with heavy jobs Auxillary.

**Universal Work Head** : This Can be Swiveled full 360 degree 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"
- Miling 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 |
|---|---|---|---|---|
| **CAPACITY** | | | | |
| 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 | | | |
| **TABLE** | | | | |
| 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 |
| **WHEEL HEAD** | | | | |
| 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 |
| **SHIPPING DIMENSIONS** | | | | |
| 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 | 1575 x 575 x 650 |

**Corporate Office cum Showroom :**
**C-46, Mangolpuri Industrial Area,**
**Phase-I, New Delhi-110083 (India)**

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# J.K. MACHINES

HIGH PRECISION INDUSTRIAL MACHINERY

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