



INDIA INTERNATIONAL MARKETING COMPANY



**CYLINDRICAL & CENTRELESS GRINDER / CUTTER GRINDER - SIGMA UNIVERSAL TOOL
& CUTTER GRINDERS (UTC 250 T)**



Special Features

Functional Versatility

The machine basically designed for sharpening and reconditions wide range of high speed and carbide tipped tools as Side & Face Milling Cutters, Cylindrical cutters, Angle cutters, Convex & Concave cutters, Gear Hobs, End Mills, Shell Mills Reamers, Drills, Taps etc.

Construction

Wheel Head : it is of rigid construction and holds the spindle assembly. It can be flitted horizontally and swiveled vertically full 360 degree, for quick setting of compound angles. 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 Spindle: Alloy steel hardened and ground spindle is mounted on precision pre-loaded radial ball bearings, which are greased packed. The grinding wheels can be mounted on both sides of the spindle and the wheels mount design is such that the spindle can be reversed.

Work Table : This is mounted on the carriage and can be swiveled 45 degree on either side of the column. This table has a smooth and rapid movement longitudinally on the carriage through a roller chain guided and Supported on jibs. Slow movement is through a reduction gearbox. Change over from rapid to slow movement is through a push/pull knob. The precise movement on roller chain enables smooth, sensitive and accurate longitudinal movement even with heavy jobs. The adjustable reversing dogs on the worktable are spring loaded for shockproof reversal of table. Auxiliary Table: This table is mounted on worktable and can be fine adjusted 9 degree on either side. It carries the work head & tail stock, between which jobs are mounted.

Universal Work Head : This can be swiveled full 360 degree in both Horizontal and Vertical planes. It can hold job up to 600mm with the aid if raising blocks. It's spindle nose has ISO 50/MT 5 tapes and the spindle is mounted to taper roller bearings.

SPECIFICATION		UTC-225 TS	UTC-250 TM	UTC-250 T	UTC-20 T
CAPACITY					
Max, swing on std. centre	mm	225	250	250	280
Swing with raising blocks	mm	300	350	350	380
Length between work head					
And RH tailstock	mm	330	330	520	610
Admit between centers	mm	440	440	670	760
Max. height centre of wheel					
Above table	mm	250	300	300	380
TABLE:					
Longitudinal traverse	mm	300	400	480	510
Cross traverse	mm	130	200	250	250
Swivel either side of centre					
(End scale)	Degrees	-	-	9	9
Swivel LH/RH of column					
(Centre scale)	Degrees	45°/45°	45°/45°	45°/45°	45°/45°
Size of table	mm	650 x 100	750 x 115	920 x 140	1010 x 140
WHEEL HEAD:					
Vertical adjustment of wheel head	mm	175	210	210	290
Swivel	Degrees	360°	360°	360°	360°
Tilting in either direction	Degrees	180° ±	180° ±	180° ±	180° ±
Spindle speed	r.p.m	3800/5600	3800/5600	3800/5600	3800/5600

Motor power	KW/HP	0.37/1	0.75/1	0.75/1	0.75/1
SHIPPING DIMENSIONS:					
Net weight of the machine	Kg.	400	750	1150	1250
Gross weight of the machine	Kg.	500	900	1350	1450
Overall size of machine LxWxH	mm	900x800x1200	1075x1100x1400	1325x1170x1460	1325x1170x1460
Overall size of packing case					
L X H X H	mm	1000x950x1350	1200x1280x1550	1450x1350x1600	1450x1350x1600

STANDARD EQUIPMENT

- Universal cutter head with Mt-3 adpoter sleeves
- Box structure design, heavily reinforced with ribs, provides high rigidity and stability.
- Left hand centre tail stock
- Diamond holder (excluding)
- Plain tooth rest and extension and micro adjustment to blade
- Centre height gauge
- Centre with Morse taper no. 3.
- Wheel guards with guard holder – 3 nos
- Grinding wheels – 3 nos
- All necessary spanners and wrenches
- Suitable electricals
- Maintenance and instructions manual.

SPECIAL ACCESSORIES

- Cylindrical external grinding attachment
- Cylindrical internal grinding attachment
- A) swivel vice B) Two way swivel vice. C) Universal 3-way swivel vice
- Face, milling cutter grinding attachment
- Radius grinding attachments
- Long reamer grinding attachment
- Gear milling cutter grinding attachment
- Angular wheel dressing attachment
- Radius dressing attachment
- Hob grinding attachment
- Dust exhausting unit
- Static wheel balancing unit
- Collapsible bellows for column

OTHER EXTRA EQUIPMENTS

- Collect Attachment & Collets
- 4" Self Centering Chuck
- Positive Indexing Attachment
- Extension Piece for Internal grinding Spindle
- Cutter Arbors
- Wheel Flanges
- Dressing Diamond
- Machine Lamp with Transformerz



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