



Proudly Made in India



High Precision Horizontal Spindle

SURFACE GRINDERS



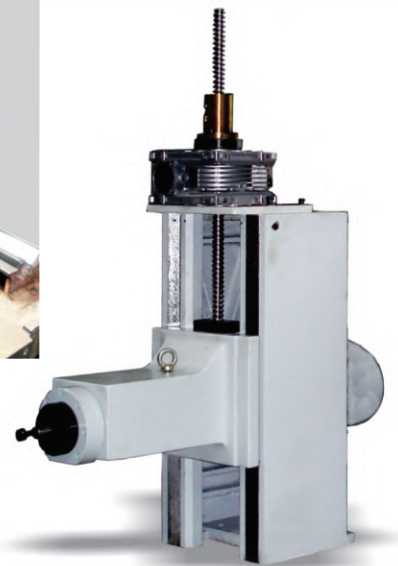


The **COSMOS Earth E 1050 NC**

- User-friendly NC control
- Automatic grinding cycle
- Surface and plunge grinding
- Diamond dresser mounted left on table for automatic dressing
- Logical program run via HMI touch screen
- Manual grinding with electronic handwheel infeed possible
- Precision ball screw in Y + Z axis
- Electro-magnetic chuck with variable force control
- Coolant system with paper-belt filter
- External maintenance-friendly hydraulics

V & FLAT GUIDEWAYS

Hand Scrapping creates contact points and oil pockets (High spots and low spots) between mating surfaces & ensures that the mating components are perfectly matched. Turcite B coating allows mating surfaces to guide across each other without sticking. This results in smoother operation better vibration damping & hence, enhanced geometrical accuracy and surface finish.



Diamond dresser and grinding wheel



Digital control panel

SPECIFICATIONS	UNIT	E 7040-NC	E 1050-NC	V 1260-NC	V 1570-NC	V 2070-NC
CAPACITY						
GRINDING AREA	MM	700 X 400	1000 X 500	1200 X 600	1500 X 700	2000 X 700
LONGITUDINAL TRAVEL	MM	750	1100	1300	1600	2100
CROSS TRAVEL	MM	405	510	630	730	730
DISTANCE BETWEEN TABLE TO SPINDLE CENTRE	MM	525	650	650	650	650
TABLE SLOT	MM	ONE, 16 MM ALIGNMENT SLOT	ONE, 16 ALIGNMENT SLOT	ONE, 16 ALIGNMENT SLOT	ONE, 16 ALIGNMENT SLOT	ONE, 16 ALIGNMENT SLOT
MAX. LOAD ON TABLE (E. M. CHUCK + COMPONENT)	KG	350	600 KG	750	1050	2000
SPINDLE & GRINDING WHEEL						
SPINDLE MOTOR	KW	3.7	5.5 KW	7.5	11	11
SPEED MAX.	RPM	1400	1400 RPM	1400	1000	1000
BEARINGS		ULTRA PRECISION P3 CLASS ANGULAR CONTACT	ULTRA PRECISION P3 CLASS ANGULAR CONTACT	ULTRA PRECISION P3 CLASS ANGULAR CONTACT	ULTRA PRECISION P3 CLASS ANGULAR CONTACT	ULTRA PRECISION P3 CLASS ANGULAR CONTACT BALL BEARING
LUBRICATION		GREASED FOR LIFE	GREASED FOR LIFE	GREASED FOR LIFE	GREASED FOR LIFE	GREASED FOR LIFE
GRINDING WHEEL (OD X WIDTH X ID)	MM	300 X 40 X 76.2	350 X 65 X 127	350X65X127	400x100x127	400 X 100 X 127
FEED & TRAVERSE						
TABLE SPEED	M/MIN	1~28	1~28	1~28	1~28	1~28
VERTICAL RAPID FEED RATE	MM/MIN	180	180	300	300	300
MINIMUM INCREMENTAL IN VERTICAL AXIS	MM	0.001	0.001	0.001	0.001	0.001
CROSS FEED/STROKE	MM	1~10 MM/STROKE	1~10 MM/STROKE	1~10 MM/STROKE	1~10 MM/STROKE	1~10 MM/STROKE
CROSS RAPID TRAVERSE	MM/MIN	1200	1200	1200	1200	1200
DRIVE						
LONGITUDINAL		HYDRAULIC	HYDRAULIC	HYDRAULIC	HYDRAULIC	HYDRAULIC
CROSS		3Ø INDUCTION MOTOR WITH INVERTER & BALL SCREW	3Ø INDUCTION MOTOR WITH INVERTER & BALL SCREW	AC SERVO MOTOR WITH BALL SCREW	AC SERVO MOTOR WITH BALL SCREW	AC SERVO MOTOR WITH BALL SCREW
VERTICAL		STEPPER MOTOR & BALL SCREW	AC SERVO MOTOR WITH BALL SCREW	AC SERVO MOTOR WITH BALL SCREW	AC SERVO MOTOR WITH BALL SCREW	AC SERVO MOTOR WITH BALL SCREW
OTHERS						
TOTAL POWER CONSUMPTION	KW	7	12	14	18	21
INPUT POWER SOURCE		415V/3 PHASE/50 HZ	415V/3 PHASE/ 50HZ	415V/3 PHASE/ 50HZ	415V/3 PHASE/ 50HZ	220V A.C/24V D.C.
MACHINE WEIGHT	KG	2500	5000	7000	7800	10000
MACHINE DIMENSION	MM	3150x1975x2550	4690x2475x2900	5100x2990x2900	6500x3300x3100	8500x3540x3100

SPECIFICATIONS	UNIT	JR-800	JR-1000
CAPACITY			
GRINDING DIAMETER	MM	800	1000
CROSS TRAVEL	MM	400	500
DISTANCE BETWEEN TABLE TO SPINDLE CENTRE	MM	650	650
MAXIMUM LOAD ON TABLE	KG	650	800
SPINDLE & GRINDING WHEEL			
SPINDLE MOTOR	KW	7.5	11
SPEED MAX.	RPM	1000	1000
GRINDING WHEEL (OD X WIDTH X ID)	MM	350x65x127	400x100x127
FEED & TRAVERSE			
TABLE SPEED	RPM	10~60	10~60
MINIMUM INCREMENTAL IN VERTICAL AXIS	MM	0.001	0.001
RAPID TRAVERSE FOR CROSS AXIS	MM/MIN	300	300
CROSS FEED	MM/MIN	2000	2000
OTHERS			
TOTAL POWER CONSUMPTION	KW	15	18
MACHINE WEIGHT	KG	9000	9200
MACHINE DIMENSION (L x W x H)	MM	3550x3900x2900	3550x3900x2900

* Specifications and design characteristics are subject to change without prior notice.



The **COSMOS JUPITER JR-800NC**



CNC MACHINE TOOLS

COSMOS IMPEX INDIA PVT. LTD. / www.cosmos.in

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