



Complete Solution of Hydraulic & CNC Surface Grinding Machine



www.surfacegrinding.co.in

ABOUT US

We introduce ourselves as **PRAYOSHA ENTERPRISE** serving in Hydraulic Surface Grinding Machine and Cylindrical Grinding Machine since last 1.5 decades than of now, it is situated at Ahmedabad in the state of Gujarat, and We **PRAYOSHA ENTERPRISE** are one of the leading supplier and manufacturer of Hydraulic Surface & Cylindrical Grinding Machine in India. All the grinding machines are manufacturing under highly qualified & experienced personnel.

Our infrastructure is built with sophisticated technology and industrious professional Spread over area , our infrastructure is divided into manufacturing unit , quality testing , research & development unit also .

Our manufacturing unit is fitted with all the machines that are required for the production of hydraulic surface & cylindrical grinding machines with all testing facility as per IS 2743.

Our all the machines are tested as per **IS 274**

Our Product range includes following:

- Hydraulic, PLC & CNC Surface Grinding Machines
- Hydraulic, PLC & CNC Cylindrical Grinding Machines
- SPM Grinding Machines
- Tailor made machines as per customer demand

After sales service network is available all over the India for our client's satisfaction.

PRAYOSHA Brand is trusted in the market since last 15 Years.

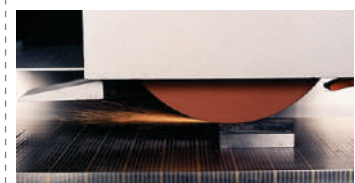
We have supplied more than 1200 grinding machines in India and abroad also.for more details, please feel free to contact us or visit our web site.

www.prayoshaenterprise.com

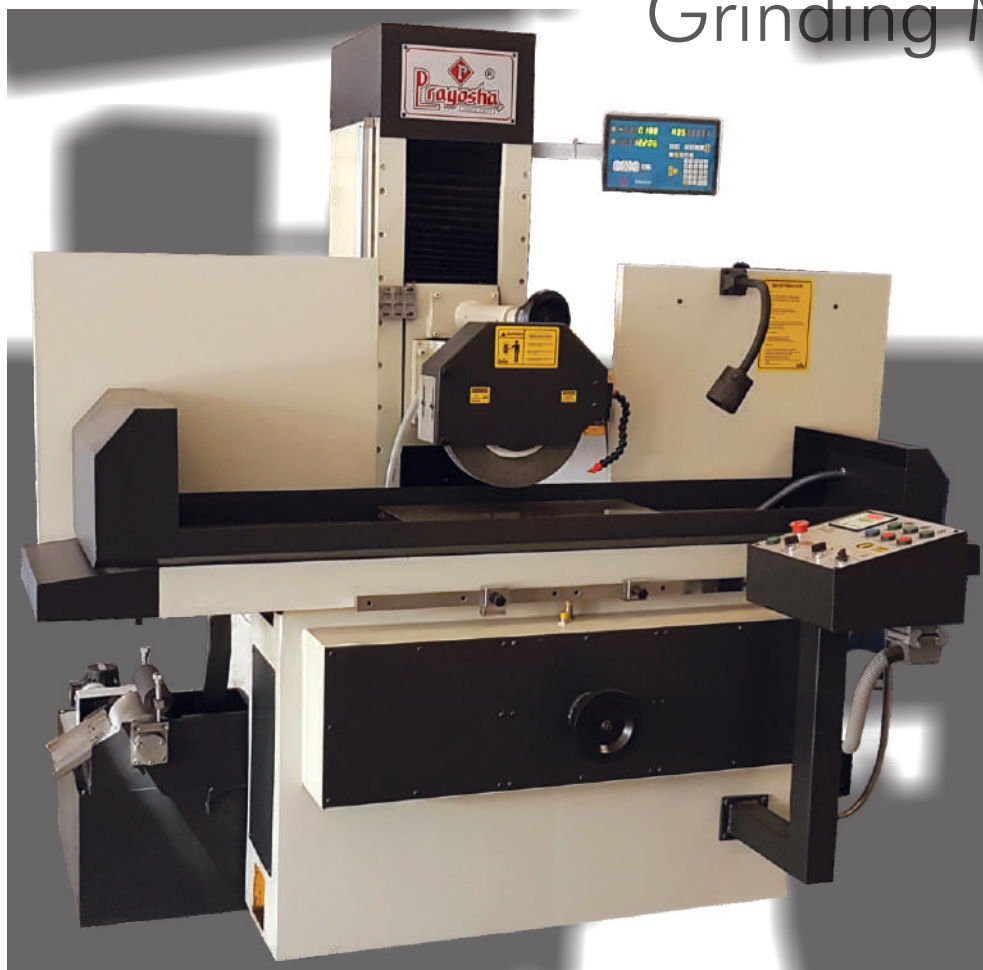
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Hydraulic Surface Grinding Machine

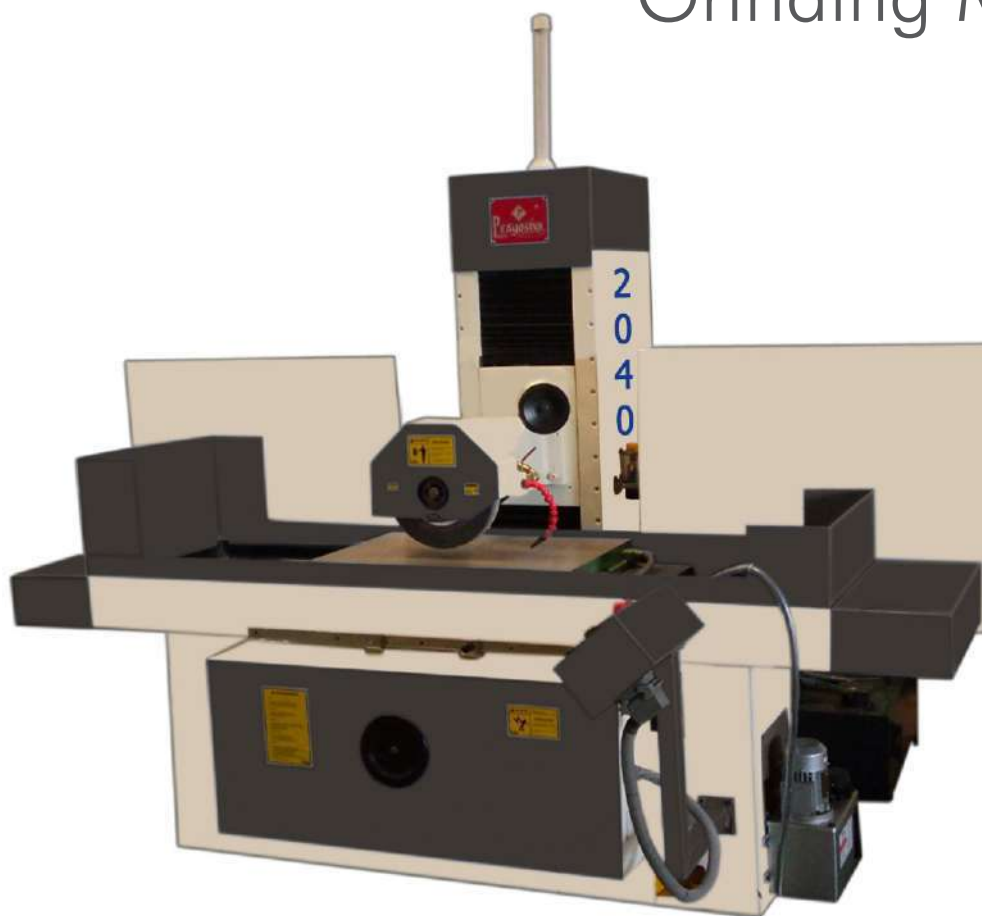


Technical Specification

Specification / Models	Unit	Premier Hydraulic Surface Grinding Machine				
		PH 818	PH 1020	PH 1224	PH 1230	PH 1240
General Capacity						
Max. Table Size	mm	200 x 450	250 x 500	300 x 600	300 x 750	300 x 1000
Max. Longitudinal Travel	mm	525	600	675	825	1050
Max. Cross Transverse	mm	225	275	325	325	325
Max. Spindle Center Height above Table	mm	400				
Speed and Feeds						
Max. Table Speeds	m/min.	1.5-18 / 2.5-25 (Optional)				
Power Cross Transverse	mm/min.	1000				
Auto Cross Feed at each Table Reversal (Infinitely variable)	mm	0.5 to 5				
Least Count of Vertical feed head wheel	mm	0.002				
Grinding Head						
Size of Grinding Wheel	mm	250 x 25 x 76.2				350 x 50 x127
Power of Spindle Motor	HP	2		3		5
Speed of Grinding Spindle	RPM	2800				1440
Hydraulic System						
Working Pressure	Kg/Cm	20				
Motor	HP	2				3
Tank Capacity	Ltrs	75				

MODEL : SUPREME

Hydraulic Surface Grinding Machine



Technical Specification

Specification / Models	Unit	Supreme Hydraulic Surface Grinding Machine			
		PH 1632	PH 1640	PH 2040	PH 2060
General Capacity					
Max. Table Size	mm	400 x 800	400 x 1000	500 x 1000	500 x 1500
Max. Longitudinal Travel	mm	875	1075	1075	1575
Max. Cross Transverse	mm	450		550	
Max. Spindle Center Height above Table	mm	550			
Speed and Feeds					
Max. Table Speeds	m/min.	1.5-18 / 2.5-25 (Optional)			
Power Cross Transverse	mm/min.	1000			
Auto Cross Feed at each Table Reversal (Infinitely variable)	mm	0.5 to 5			
Least Count of Vertical feed head wheel	mm	0.002			
Grinding Head					
Size of Grinding Wheel	mm	350 x 50 x 127			
Power of Spindle Motor	HP	5		7.5	
Speed of Grinding Spindle	RPM	1440			
Hydraulic System					
Working Pressure	Kg/Cm	20			
Motor	HP	3		5	
Tank Capacity	Ltrs	75		150	

Hydraulic Surface Grinding Machine

MODEL : JUMBO PLUS



Specification / Models	Unit	Jumbo Plus Hydraulic Surface Grinding Machine					
		PH 2448	PH 3060	PH 3260	PH 3280	PH 30100	PH 32100
General Capacity							
Max. Table Size	mm	600 x 1200	750 x 1500	800 x 1500	800 x 2000	750 x 2500	800 x 2500
Max. Longitudinal Travel	mm	1275	1575	1575	2150	2600	2600
Max. Cross Transverse	mm	650	800	850	850	800	850
Max. Spindle Center Height above Table	mm	700					
Speed and Feeds							
Max. Table Speeds	m/min.	1.5-18 / 2.5-25 (Optional)					
Power Cross Transverse	mm/min.	1500					
Auto Cross Feed at each Table Reversal (Infinitely variable)	mm	0.5 to 5					
Least Count of Vertical feed head wheel	mm	0.002					
Grinding Head							
Size of Grinding Wheel	mm	450 x 50 x 127					
Power of Spindle Motor	HP	10		15		20	
Speed of Grinding Spindle	RPM	1440					
Hydraulic System							
Working Pressure	Kg/Cm	20					
Motor	HP	7.5				10	
Tank Capacity	Ltrs	200				250	

Technical Specification

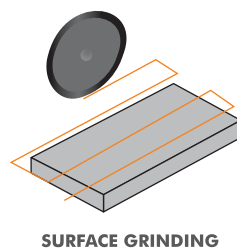
MODEL : PLC

PLC Surface Grinding Machine

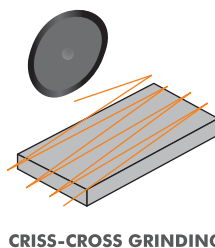


All Table Size Can Be Available In PLC Surface Grinding Machine
Fix Grinding Mode Available In PLC Surface Grinding Machine

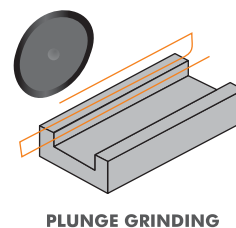
3 Type Of Grinding Modes



SURFACE GRINDING



CRISS-CROSS GRINDING



PLUNGE GRINDING

Conversation Automatic Wheel Dressing 2 Types Of Wheel Dressing Modes

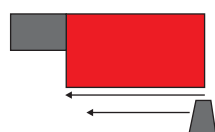


TABLE TYPE
SINGLE TIP DRESSING

2 Types Of Graphic Conversation Auto Wheel Dressing
Mode Can Be Executed Together With 4 Grinding Modes &
Automatic Wheel Compensation

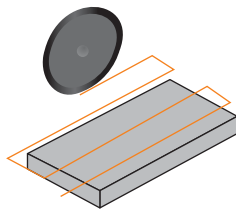
CNC Surface Grinding Machine

MODEL : CNC

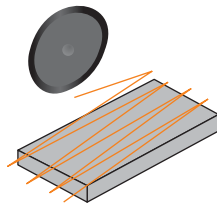


All Table size can be available in CNC Surface Grinding Machine
Customize Profile Grinding available in CNC Surface Grinding Machine

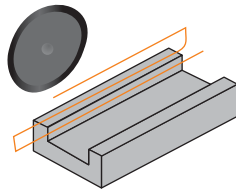
4 Type Of Grinding Modes



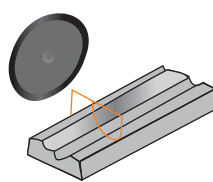
SURFACE GRINDING



CRISS-CROSS GRINDING



PLUNGE GRINDING



PROFILE GRINDING

Conversation Automatic Wheel Dressing 2 Types Of Wheel Dressing Modes

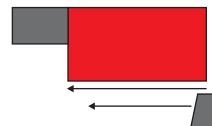
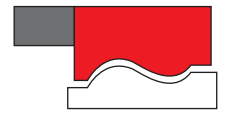
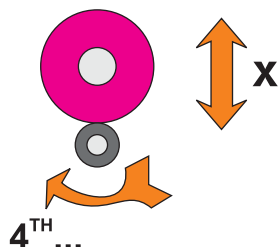


TABLE TYPE
SINGLE TIP DRESSING

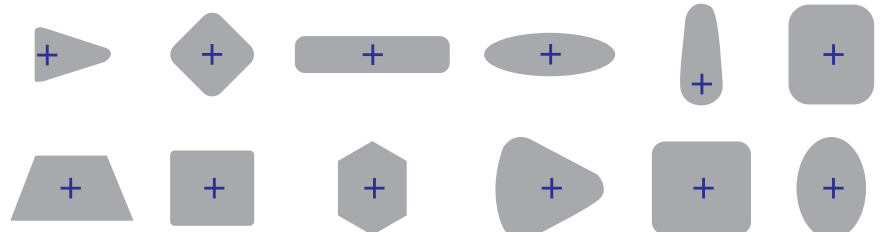


PROFILE DRESSING

2 Types Of Graphic Conversation Auto Wheel Dressing Mode Can Be Executed Together With 4 Grinding Modes & Automatic Wheel Compensation



Shapes Can Be Ground With 4" Axis



Double Column CNC Surface Grinding Machine

DOUBLE COLUMN



Technical Specification

Specification / Models	Unit	Double Column CNC Surface Grinding Machine				
		C2X4080	C2X6080	C2X60100	C2X60120	C2X80200
General Capacity						
Grinding surface of table	mm	1000X2000	1500X2000	1500X2500	1500X3000	2000X5000
Max. travel (cross x Longitudinal)	mm	1100X2200	1600X2200	1200X2700	1600X3200	2100X5200
Wheel bottom to table	mm	600				
(Verticle Head)						
Spindle center height from table	mm	850				
Max. height from table top to bottom of standard wheel	mm	500				
Hydraulic Table speed	m/min	1.5-18 / 2.5-25 (Optional)				
Cross Movement						
Clearance between the columns	mm	1200	1700			2200
Intermittent cross feed approx. (Electro-mechanical)	mm	1-40				
Continuous cross fee approx. (Electro-Mechanical)	mm/min	3000				
Hand feed per division	mm	0.001				
Between Column	mm	1300	1800	1800	1800	2300
Vertical Movement						
Rapid traverse approx	mm	3000				
Hand feed per division MPG	mm	0.001				
Grinding Wheel						
Dimension (O.D. x W x I.D)	mm	510x100x203				
Spindle speed (50/60Hz)	RPM	1000-1400				
Spindle speed (50/60Hz)						
Motor						
Horizontal head spindle motor	KW /HP	15 / 20				
Vertical head spindle motor	KW /HP	7.5 / 10				
Hydraulic motor	KW /HP	15				
CNC Specification						
Crossfeed rapid feedrate(approx)	mm/min	3000				
Cross/Vertical infeed least input increment	mm	0.001				
Rapid vertical rate	mm/min	3000				

Quality Compliance

Success is directly proportional to the quality of products and services of an organization and its capabilities to meet customers' requirements. Understanding this, we adhere to stringent quality norms while designing, developing and producing hydraulic surface grinding machines. Our assurance towards quality is not limited to just machines, thus, we ensure that the after sales services are executed as per defined industry standards. We also have a team of quality experts, which follows a quality management system to ensure the implementation of following policies at every level of organization.

Hallmarks of company's quality policy

- Commitment to continuous quality improvements as the engine of our business
- Goals that drive our efforts, measure progress and provide for process improvement
- Training to provide knowledge, skills and tools that enhance our efforts
- Create an environment that encourages our employees and vendors to prevent defects
- Total quality right from inception

Research and Development

In order to meet the growing needs of our clients, we have developed a research and development department. Fitted with requisite tools and equipment, this department is managed by a team of experienced & qualified research associates. Our researchers conduct intensive research activities that revolve around:

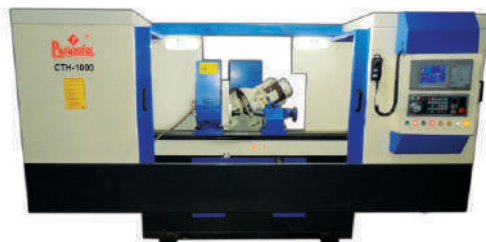
- Design improvisation
- Finding new & innovative techniques of production
- Diversifying our existing range of hydraulic surface grinding machines

Further, our research associates also carry out various market surveys to ensure that our entire range is competitively priced in the market. Owing to the sincere efforts of our researchers, we always come out with the best solutions to clients' problems.

Client Satisfaction

grinding machines. These machines are manufactured using quality components, spare parts and other raw material that is procured from reliable vendors. We are supported by a team of experts, which works in close association with our clients to manufacture machines as per their exact requirements. We also provide after sales service to our clients, which ensure enhanced performance and long functional life. Further, we have also developed a customer support department so that our clients can avail the necessary information.

Our 4 Axis SPM Machines



CNC Multi Pitch Thread
Grinding Machine



CNC Profile
Grinding Machine

ACCESSORIES



ELECTRO MAGNET CHUCK



WHEEL BALANCING STAND

MAGNETIC COOLANT
SEPARATOR



PAPER BAND FILTER WITH
COOLANT MAGNETIC
SEPARATOR



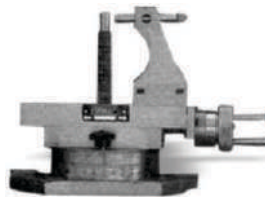
COOLANT SYSTEM



MACHINE LAMP



WHEEL FLANGE



WHEEL FORMING ATTACHMENT



DUST COLLECTOR



DE - MAGNETIZER



2 WAY UNIVERSAL VISE



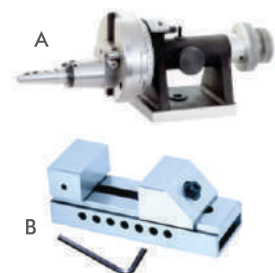
3 WAY UNIVERSAL VISE



PARALLEL DRESSER



PUNCH FORMER



A = RADIUS DRESSERS
B = TOOL ROOM VISE



Our Foot Print

- UAE
- AFRICA
- SOUDI ARABIA
- US
- QUATAR

We are Certified in



SURFACE GRINDING

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