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Established Since **1973**

HIGH PRECISION SURFACE **GRINDERS**

Manual & Hydraulic Series

Its Quality that Counts!

Manual Surface Grinder Features

Carriage

Are perfectly grounded hand scrapped and matched Guideways. Longitudinal Slide move in oil dip bath to ensure smooth, high long lasting accuracy.

Body Base

Bhurji Surface Grinders are built with outstanding structural design and Extra Heavy Duty Base. The centre of cross width and height is more as compared to any other surface grinding machine. The base is extra wide for no over hanging.

Wheel Head

Ultra precision hardened Nitralloy Spindle (grease packed for long life) runs in antifriction bearings and directly driven by flange mounted motor (to eliminate any vibration) through flexible couplings.

Micro Feed System

The Vertical Central Hand Wheel dial is graduated in 0.01 mm and has floting 'Zero' setting for convenience of the operator. The Microfeed movement Knob allows 0.002 mm increment in Hand Feed.

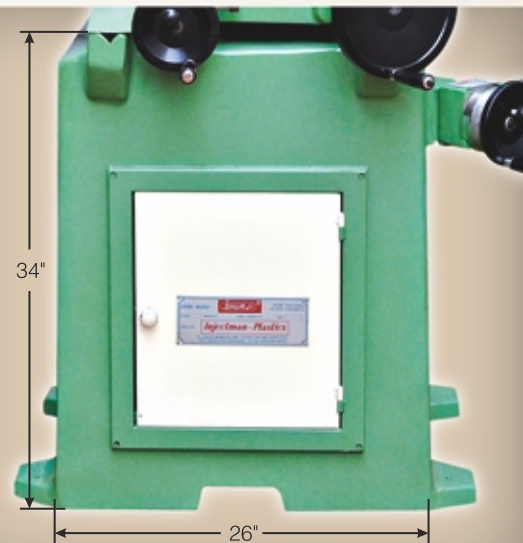
Model: BJ-1224OT



Model: BJ-1020



Bhurji Surface Grinding machines have extra heavy duty base with wider dimension.



Extra Base Line

Hydraulic Surface Grinder Features

Optimized Design Structure

Microfeed Hydraulic Surface Grinders are robust and simple in design but accurate and efficient, as well as most suitable for the tool room and production jobs. The Cross Slide is on Double-V which is best for Hydraulic Machines for rigidity and stability.

Hydraulic System

Surface Grinders are fitted with Compact Hydraulic Power Pack (dust proof) with an exclusively designed control unit incorporated within the body of machine. The said system does not require any extra load. The required pressure-oil drains through a fine filter, before entering the Tank. The Hydraulic Tank is fitted outside to eliminate any heat and vibrations.

Wheel Head

Ultra precision hardened Nitralloy Spindle (grease packed for long life) runs in antifriction bearings and directly driven by flange mounted motor (to eliminate any vibration) through flexible couplings. Its production and testing passes through rigorous inspection at manufacturing stages to ensure smooth and trouble free running and sensitivity essential for extraordinary finish. The Spindle housing is supported in Vertical Column which is heavy duty, ribbed and stationary.

Longitudinal Traverse & Cross Movement

The Magnetic Table travels on 'Vee & Flat Guide-way' and is driven through a hydraulic cylinder, having provision of continuous lubrication. The Cross Movement is on Double V Guideways through Electric Motor for fine and incremental grinding.

Model: A-818



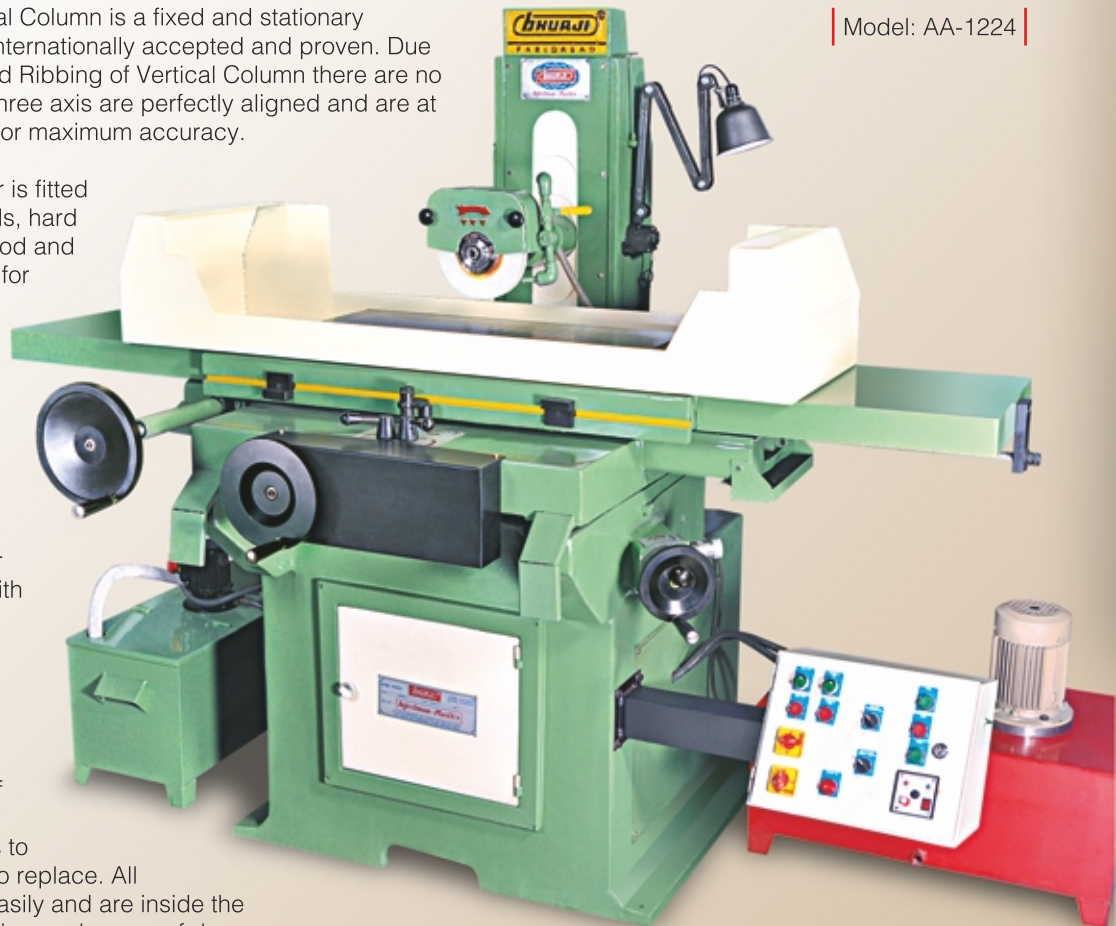
Model: AA-1230

Special Features

HYDRAULIC SURFACE GRINDER

Model: AA-1224

- **Vertical Column** » Vertical Column is a fixed and stationary Column design which is internationally accepted and proven. Due to Heavy Duty Casting and Ribbing of Vertical Column there are no chances of vibration. All three axis are perfectly aligned and are at right angle to each other for maximum accuracy.
- Hydraulic Surface Grinder is fitted with imported Kastas Seals, hard chrome plated Cylinder Rod and imported Honed Cylinder for long working life of Cylinder.
- Customised special Wiper Seal for Cylinder Rod cleaning and double protection.
- Hydraulic Power Pack is provided with Dowty Gear Pump for extra-long life with suction and return line filters, Polyhydron Relief Valve and Manifold Block on top of tank for easy assembly of Hoses.
- All Hydraulic Hoses are of Gates India. No Copper Pipes are used as it leads to leakage and are difficult to replace. All Hoses can be replaced easily and are inside the machine that leads to minimum chances of damage and accident.
- The Longitudinal Slide is automatically lubricated through Power Pack whose lubrication can be adjusted from Manifold Block.
- Control Panel is facilitated with TC, BCH, LT contractor and over load relays. The Panel is assembled as per CE guidelines with complete numbering and protection.
- After completion of job, the machine stops automatically through Limit Switch.



Standard Equipment

Grinding Wheel
Spanner for Wheel Changing
Wheel Adopter Puller
Wheel Balancing Stand
Diamond Dresser with Holder
Tool Kit

Optional Equipment

Permanent Magnetic Chuck
Work Light
Radius Dressing Attachment
Coolant Pump with Tank
Microfeed for Cross Slide
DRO for Vertical
Turcite Lining



Manual Surface Grinder Model Specifications

	BJ-914OT	BJ-1020	BJ-1024OT	BJ-1224OT
Max. Table Grinding	200 x 350	200 x 450	200 x 600	300 x 600
Max. Magnetic Table Travel	250 x 360	250 x 525	250 x 625	350 x 650
Magnetic Chuck Suitable (optional)	200 x 300	200 x 450	200 x 600	300 x 600
Max. Grinding Height under Wheel	240	240	250	250
Vertical Feed Graduation	0.01	0.01	0.01	0.01
Cross Feed Graduation	0.05	0.05	0.05	0.05
Elevator movement with Microfeed	0.002	0.002	0.002	0.002
Grinding Wheel Head Motor Speed	2800 rpm	2800 rpm	2800 rpm	2800 rpm
Grinding Wheel Head Motor	0.75 HP - 3 phase	1 HP - 3 phase	1.5 HP - 3 phase	2 HP - 3 phase
Grinding Wheel Size (D x B x W)	178 x 31.75 x 12.7	178 x 31.75 x 12.7	200 x 31.75 x 20	200 x 31.75 x 20
Diamond Dresser with Holder	0.5 CR	0.5 CR	0.5 CR	0.5 CR
Wooden Case Dimension (L x W x H)	1070 x 1200 x 1700	1070 x 1200 x 1700	1300 x 1500 x 1800	1400 x 1600 x 1950

*OT stands for Longitudinal Slide move in Oil Dip. BT stands for Longitudinal Slide move on Ball.
D = Dia, B = Bore, L = Length, W = Width, H = Height. All dimensions are in mm.*

Hydraulic Surface Grinder Model Specifications

	A-818	A-1024	AA-1224	AA-1230	AA-1000
Max. Table Grinding	200 x 450	200 x 600	300 x 600	300 x 750	300 x 900
Max. Magnetic Table Travel	250 x 500	250 x 650	350 x 650	350 x 800	400 x 1000
Max. Grinding Height under Wheel	225	250	260	275	285
Grinding Wheel Head Motor Speed	2800 rpm	2800 rpm	2800 rpm	2800/1400 rpm	1400 rpm
Grinding Wheel Head Motor	1 HP - 3 phase	1.5 HP - 3 phase	2 HP - 3 phase	2 HP - 3 phase	2 HP - 3 phase
Grinding Wheel Size (D x B x W)	180 x 31.75 x 13	200 x 31.75 x 13	200 x 31.75 x 13	200 x 71 x 20 (opt.)	250 x 71 x 20 (opt.)
Hydraulic Tank Capacity (Telus - 68)	35 Ltrs.	60 Ltrs.	60 Ltrs.	70 Ltrs.	80 Ltrs.
Hydraulic Pump Motor	1 HP	1 HP	1.5 HP	1.5 HP	2 HP
Auto Gross Feed Increment (Motorised Model Only)	0.2 – 5.0	0.2 – 5.0	0.2 – 5.0	0.2 – 5.0	0.2 – 5.0
Max. Longitudinal Table Speed	15 M/min	15 M/min	15 M/min	15 M/min	15 M/min
Vertical Feed Graduation	0.01	0.01	0.01	0.01	0.01
Cross Feed Graduation	0.05	0.05	0.05	0.05	0.05
Working Pressure	12 Kg/cm ²	12 Kg/cm ²	12 Kg/cm ²	12 Kg/cm ²	12 Kg/cm ²
Net Weight	1100 Kg	1200 Kg	1350 Kg	1500 Kg	1650 Kg
Wooden Case Dimension (L x W x H)	1050 x 1500 x 1700	1050 x 1800 x 1700	1200 x 2100 x 1800	1200 x 1500 x 1700	1350 x 2300 x 1900

*A stands for Longitudinal Slide Hydraulic only (Single Feed). AA stands for Cross Feed Automatic (Motorised).
D = Dia, B = Bore, L = Length, W = Width, H = Height. All dimensions are in mm.*

Sold & Serviced by: