MAKE IN INDIA

BPI
GRINDERS

THE COMPLETE SOLUTION OF YOUR GRINDING PROBLEMS

High Precision Universal Cylindrical Grinding Machine

SINCE 1964
SATISFYING CUSTOMERS



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BHAGWAN PRODUCTS (INDIA)

BPI GRINDERS

Company Profile

Since 1964, **BHAGWAN PRODUCTS INDIA** is The Leading Manufacturer of Universal Cylindrical & Internal Grinding Machines, Located in Ludhiana (Punjab) India. Spreading Over A Sprawling Area of 16,100 Sq. Ft. The Company Was Established Under The Supervision Guidance and Experience of S. Rattan Singh, Having Well Versed in The Manufacturing of Machines and Machine Tools Items. We Manufacture Mechanical, Hydraulic, NC, PLC & CNC Controlled Universal Cylindrical Grinding Machines. Company Have Sold More Than 5600 Machines Throughout India as Well as Abroad.

Besides Our Standard Machines, We Can Also Manufacturer Machines According To Customer Requirement.

S. Rattan Singh Started A New Unit With Support of His Son S. Dalbir Singh in 1996, Near Sarinh Power House, Malerkotla Road, Vill. Alamgir, Ludhiana. Spreading Over A Sprawling Area of 25,000 Sq.ft. We Started Manufacturing HSS Ground Thread Taps, Thread Rolls, Milling & Hob Cutters Etc. Under ST TAPS & CUTTING TOOLS Brand.

We Have Also Added New Products In HAWK STONE & HAWK METAL Brand. In **HAWK STONE** We Started HSS & Carbide Endmills, Drills, Reamers, Center Drills, Profile & Special Cutters. In **HAWK METAL** Brand We Manufacturing Customized Fabrication Of Sheet Metal Parts, Enclosure For Machine Tools, Automotive As Well As Agriculture Industries. Apart From That We Are Manufacturing Auto Mobile, Agriculture & Tractor Parts.

We Offer Quality Products At Very Competitive Prices, Ensuring Value For Money To Various Esteemed Clients In Diversified Industries.

With State-of-the-art Facilities Equipped With Latest Machines And Dedicated Professionals, We Are Poised To Deliver International Standard Quality Products At The Most Affordable Rates. We Make Sure That Our Offered Range Goes Through A Stringent Quality Check Process After It Is Manufactured. Our Adapt Specialists, Skilled Engineers, Efficient Workforce & Matchless Resources Enable Us To Serve The Demands Of Various Sectors With Quality Solutions. Moreover On Time Delivery Schedules Has Given Us A Competitive Edge In The Market.

Our Company Encouraged New Ideas Of Manufacturing To Offer A Better Quality Of Products.

Our Mission Is To Provide The Most Reliable And Durable Products To Suit Our Customers' Diverse And Challenging Machining Requirements.

Infrastructure

BPI GRINDERS

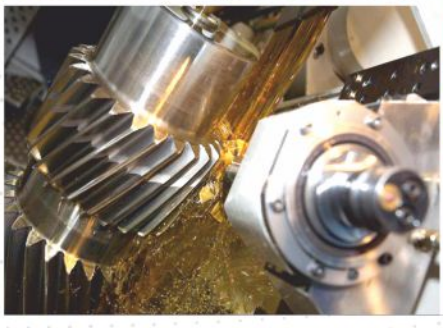










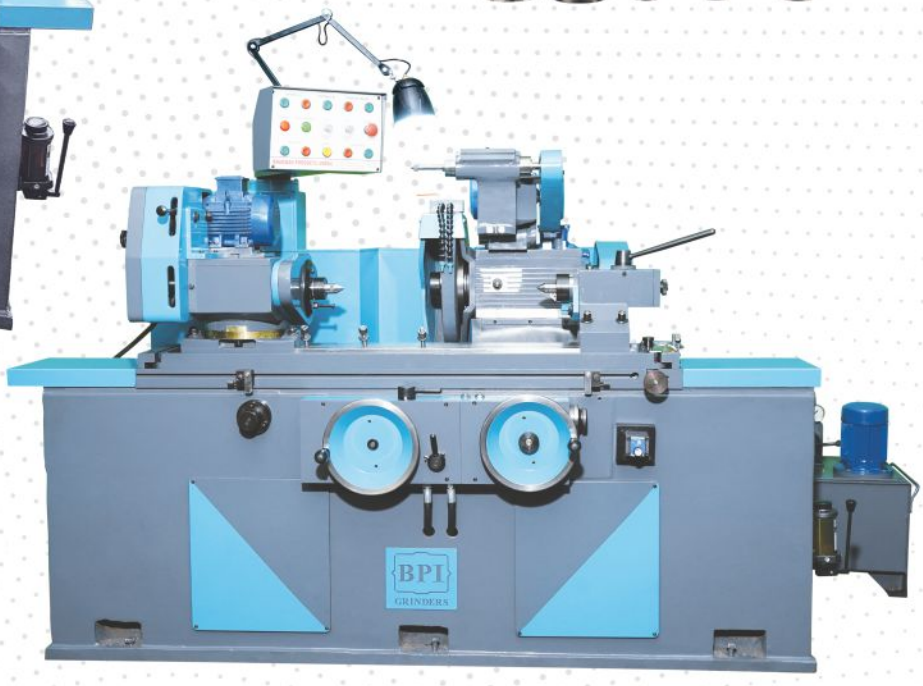




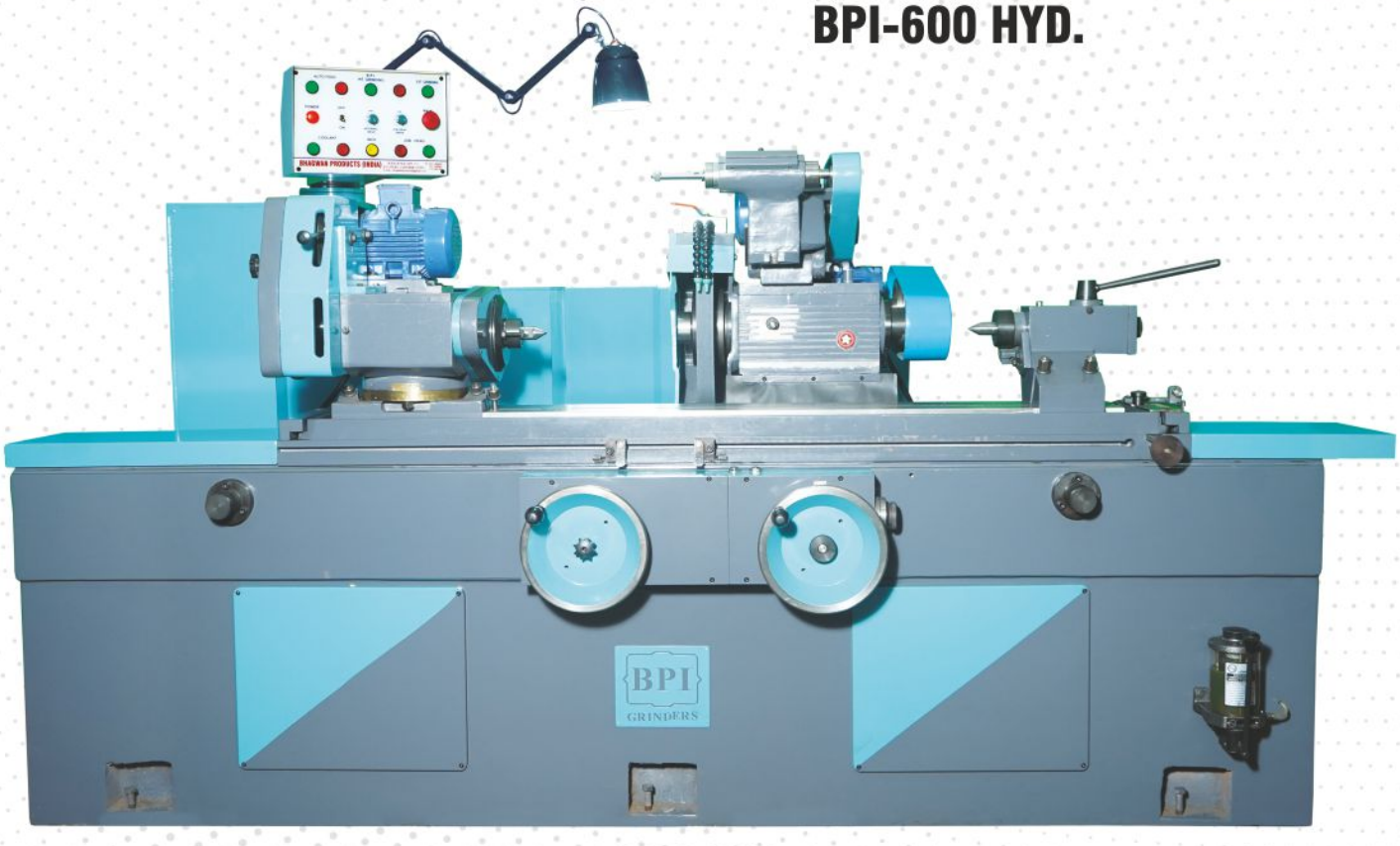


BPI-300





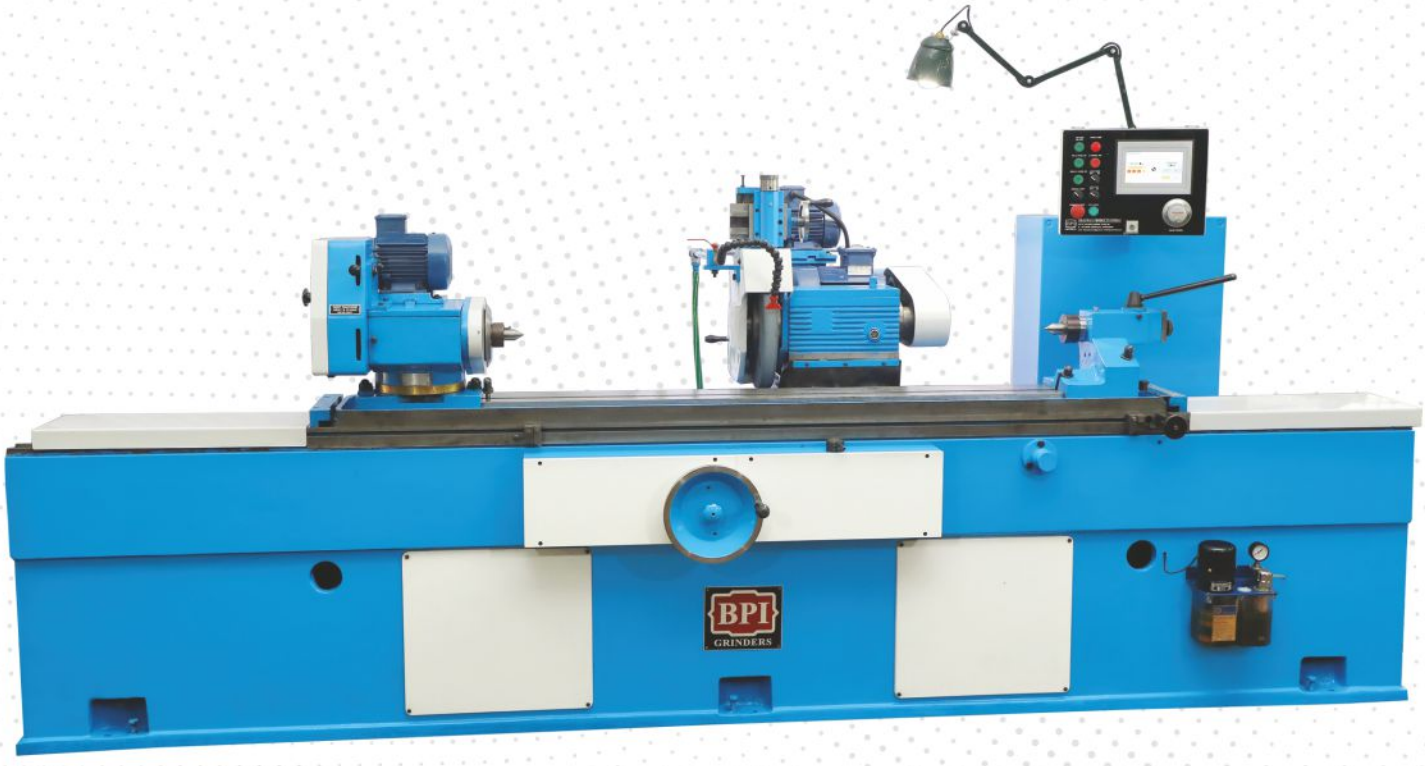
BPI-600 HYD.



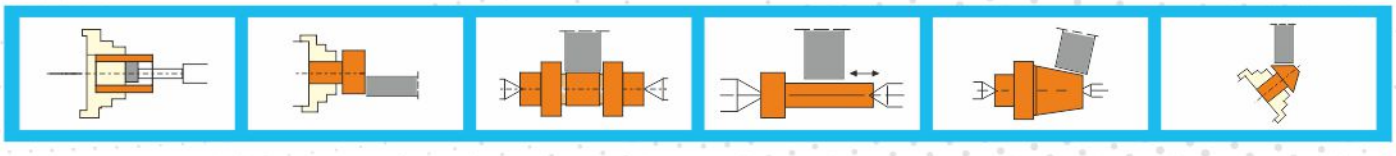
BPI-800



BPI-1000



BPI-1500



Bed: The One Piece Bed Is Made Of Special Cast Iron Provided With Strong Ribbing For Regidity And A Large Inverted Well-seasoned & Vide Track For The Table. All The Slide Ways Are Ground, On An Imported Highly Sophisticated Slide Way Grinder To Ensure The Highly Accuracy. The Casting Is Accomplished With High Grade Casting With An Appropriate Alloying Elements To Ensure The Hardness And Durability.

Table: Compounds Of Two Parts (Lower Slide Having Vee & Flat Ways And The Upper Swivelling Table) Can Be Adjusted For Taper Grinding Also. Taper Grinding Is Effected By Means Of A Fine Adjustment Screw 7° Scale. Two Adjustable Stops Are Provided For Limiting Longitudinal Table Travel.

Workhead: It Is Detachable And Built For Grinding Both With Revolving & Stationery Center. Power For Transmitted Through V-belts, From A Balanced Electric Motor, Fitted On It Thus Avoiding Vibration. Four Speeds Are Available To Suit Different Type Of Jobs. The Work Head Can Be Swivelled Up To 90° Towards Wheels & 30° Towards Operator To Grind Taper, Conical & Face Grinding.

Tail Stock: The Tail Stock, Designed To Travel Easily On The Table, Is Equipped With A Center Carrying Spindle Traveling In A Perfectly Honed Bore. The Tail Stock Spindle Is Spring Traveling In A Perfectly Honed Bore. The Tail Stock Spindle Is Spring Loaded Adjustable By Means Of A Knurled Knob And Is Operated Through Lever Plus Rack Gear. A Slight Rotation Of The Handle On Front Of The Tail Stock, Displace The Tail Spindle To The Rear, Thus Allowing Rapid Removal Of The Workpiece And The Insertion On A New Workpiece. MT3 or MT4 Tapers Center May Be Fitted In The Tail Spindle As Per The Specification & Size.

Wheel Head: The Wheel Head Is Designed To Raise The Efficiency Level For Operation, Decrease Overhang & Eliminate Vibration. The Complete Unit Can Be Swivelled Up To 60° On Either Side. Wheel Spindle Can Be Supplied With Taper Rollers or Bronze Bearing, If Specially Required. The Spindle Is Driven By A Balanced Electric Motor Through V-belt. Grinding Wheel Is Fitted On The Spindle Nose End Meant For The Purpose Mounted On A Wheel Flange. In Feed Movement Is Obtained Through Rotation Of Hand Wheel.

Int.Grinding Attachments: The Machine Is Attached With Internal Grinding Attachment Driven With Independent Motor Fitted On The Attachment Through A Plain Endless Belt Giving The Vibration Free Highest Efficiency. This Is Also Suitable For Grinding Cylindrical And Taper Holes.

TECHNICAL DATA

MODEL NO:.	BPI-300	BPI-450	BPI-600	BPI-1000	BPI-1500	BPI-2000
Max. Grinding Length	300MM	450MM	600MM	1000MM	1500MM	2000MM
Center Height	140MM	140MM	140/165MM	165MM	165MM	165MM
Max. Work Diameter Ground	270MM	270MM	270MM	325MM	325MM	325MM
Table Feed	Mech. / Hyd.	Mech. / Hyd.	Mech. / Hyd.	Mech. / Hyd.	Mech. / Hyd.	Mech. / Hyd.
Max. Swivel Of Table	7°	7°	7°	7°	7°	7°
WORK HEAD & TAIL STOCK:.						
No. Of Speed Of Work Head Spindle	Variable	Variable	Variable	Variable	Variable	Variable
Morse Taper In Workhead	MT-3	MT-3	MT-3 / MT-4	MT-4	MT-4	MT-4
Swivel Of Workhead	90°	90°	90°	90°	90°	90°
Morse Taper In Tailstock	MT-3	MT-3	MT-3 / MT-4	MT-4	MT-4	MT-4
Work Head Motor 1440 Rpm	1 H.P.	1 H.P.	1 H.P.	1 H.P.	1 H.P.	1 H.P.
GRINDING WHEEL HEAD & TABLE FEED:.						
Grinding Wheel	14"x1.½"x5"	14"x1.½"x5"	14"x1.½"x5"	16"x1.½"x5"	16"x1.½"x5"	16"x1.½"x5"
Grinding Head Motor 1440 Rpm	3 H.P.	3 H.P.	3 H.P.	5 H.P.	5 H.P.	5 H.P.
Wheel Head Swivel	60°	60°	60°	60°	60°	60°
Table Feed Motor 1440 Rpm	1 H.P.	1 H.P.	1 H.P.	1 H.P.	1 H.P.	1 H.P.
No. Of Speed Of Table Feed	3	3	3	3	3	3
INTERNAL GRINDING ATTACHMENT:.						
Grinding Spindle Outer Diameter	60MM	60MM	60MM	60MM	60MM	60MM
Max. Quill Length	80MM	80MM	80MM	100MM	100MM	100MM
Quill Dia	15MM	15MM	15MM	18MM	18MM	18MM
Min. & Max. Dia of Hole Grinding	16-100MM	16-100MM	16-100MM	19-125MM	19-125MM	19-125MM
Spindle Speed	16000RPM	16000RPM	16000RPM	16000RPM	16000RPM	16000RPM
Int. Grinding Attachment Motor 2800 Rpm	1.5 H.P.	1.5 H.P.	1.5 H.P.	1.5 H.P.	1.5 H.P.	1.5 H.P.
COOLANT & HYDRAULIC TANK:.						
Cap. Of Coolant Tank	165 ltrs.	165 ltrs.	165 ltrs.	165 ltrs.	165 ltrs.	165 ltrs.
Coolant Tank Motor	0.5 H.P.	0.5 H.P.	0.5 H.P.	0.5 H.P.	0.5 H.P.	0.5 H.P.
Cap. Of Hydraulic Tank	75 ltrs.	75 ltrs.	75 ltrs.	75 ltrs.	75 ltrs.	75 ltrs.
Hydraulic Tank Motor 1440 Rpm	1 H.P.	1 H.P.	1 H.P.	1 H.P.	1 H.P.	1 H.P.
WEIGHT:.						
Approx. Gross Weight	2000 Kgs.	2500 Kgs.	2950 Kgs.	3400 Kgs.	4000 Kgs.	4300 Kgs.

STANDARD EQUIPMENTS : With All Electrical I.e. Motors & Electrical Panels, Coolant Pump & Tank With Piping, Grinding Wheel With One Wheel Flange, One Dresser With Dresser Holder, One Lamp, 2 Dead Centers, Wheel Spanner & Puller.

EXTRA ACCESSORIES : » Two Point Steady Rest » Three Point Steady Rest » Wheel Balance Stand With Arbor » True Chuck » Independent Chuck » Magnetic Coolant Separator » Radius Dressing Attachment.

Made By BPI



BPI-300 INT

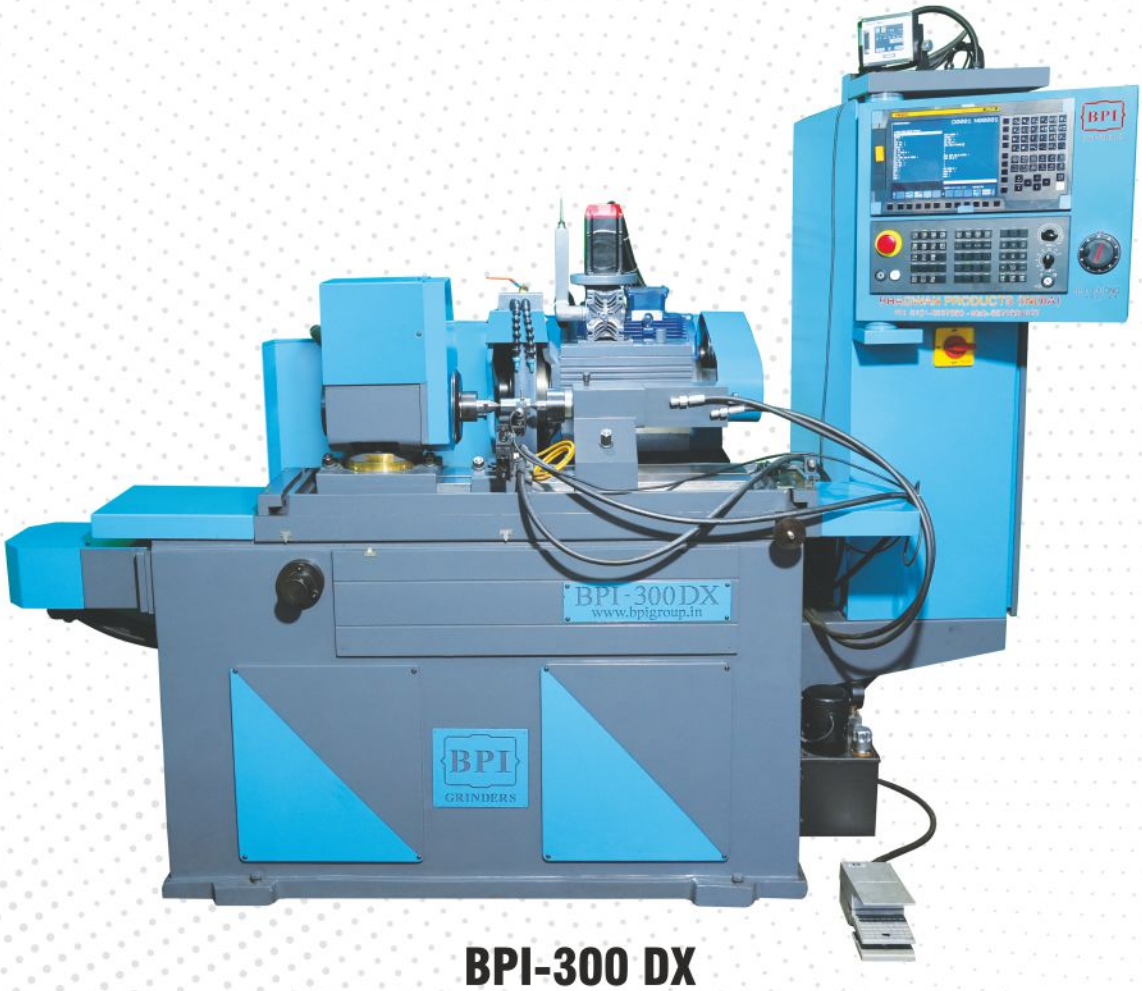
TECHNICAL DATA

MODEL NO:.	BPI-300 INT
Max. Grinding Length	150MM
Center Height	175MM
Max. Work Diameter Ground	200MM
Table Feed	Mech./Hyd.
Max. Swivel Of Table	7°
WORK HEAD & TAIL STOCK:.	
No. Of Speed Of Work Head Spindle	Variable/AC Drive
Morse Taper In Workhead	MT-4
Swivel Of Workhead	60°
Work Head Motor 1440 Rpm	1 H.P.
TABLE FEED:.	
Table Feed	Mech./Hyd.
Hydraulic Motor 1440 Rpm	1 H.P.
Table Feed Motor 1440 Rpm (Mech.)	1 H.P.
No. Of Speed Of Table Feed	3

INTERNAL GRINDING SPINDLE :.	BPI-300 INT
Grinding Spindle Outer Diameter	60-80MM
Max. Quill Length	30 to 150MM
Quill Dia	10MM to 30MM
Min. & Max. Dia of Hole Grinding	5-120MM
Spindle Speed	9000-18000
Internal Grinding Attachment Motor 2800 Rpm	2 H.P.
COOLANT & HYDRAULIC TANK:.	
Cap. Of Coolant Tank	125 Ltr.
Coolant Tank Motor	0.5 H.P.
Cap. Of Hydraulic Tank	75 Ltr.
WEIGHT:.	
Approx. Gross Weight	2000 Kgs.



BPI-600 DX



BPI-300 DX

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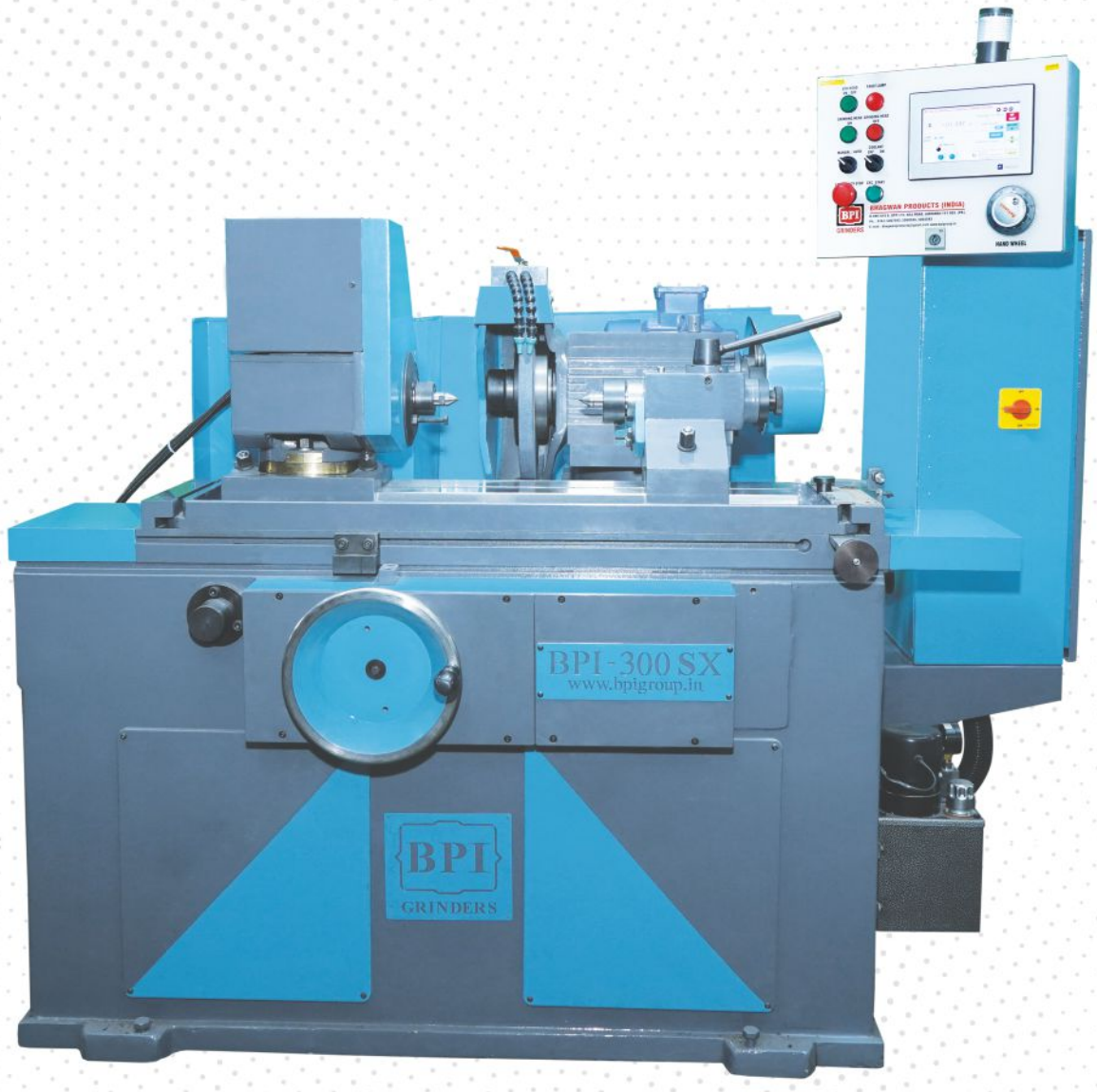
BPI-300 DX



BPI-150 DX DOUBLE HEAD



BPI-300 SX

GENERAL		SPECIFICATIONS
Centre Height	MM	140 / 165
Max. Grinding Length	MM	300 / 450 / 600
CNC / PLC System		FANUC / FUJI / DELTA
Rapid Feed (X & Z axes)	MM/MIN	7000
Min. Incremental Feed (X & Z axes)	MM	0.001
GRINDING WHEEL HEAD		
Grinding Wheel Diameter	MM	355 / 405
Grinding Wheel Width	MM	25 / 38 / 50
Motor Power	HP	3 / 5
WORK HEAD		
Speed Range	RPM	VARIABLE
Spindle Nose Taper	MT	3 / 4
TAILSTOCK		
Tailstock Centre	MT	3 / 4

NOTES

HSS GROUND THREAD TAPS





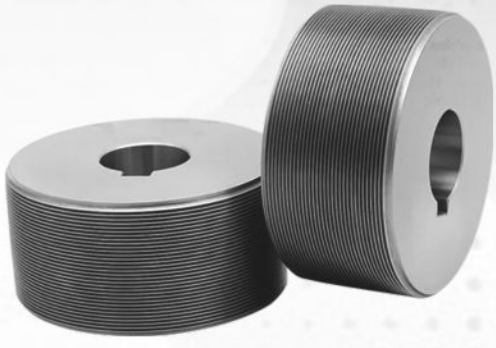
MACHINE TAPS



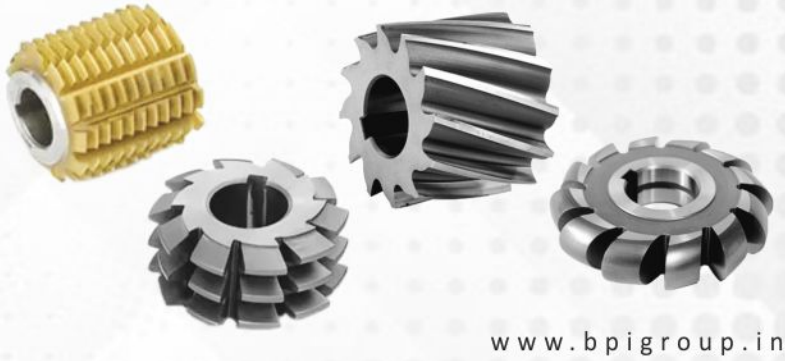
HAND TAPS

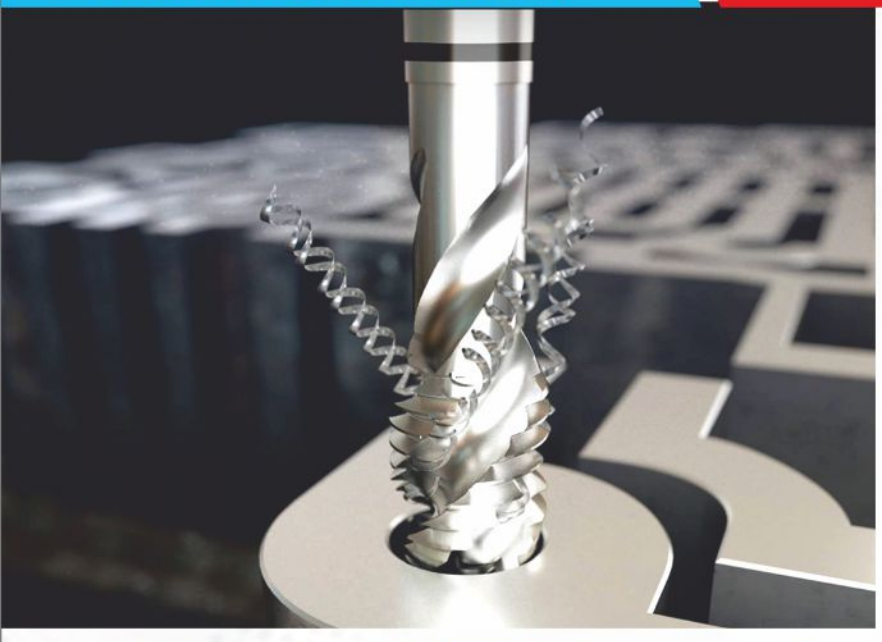


THREAD ROLL DIE



HOB & MILLING CUTTERS



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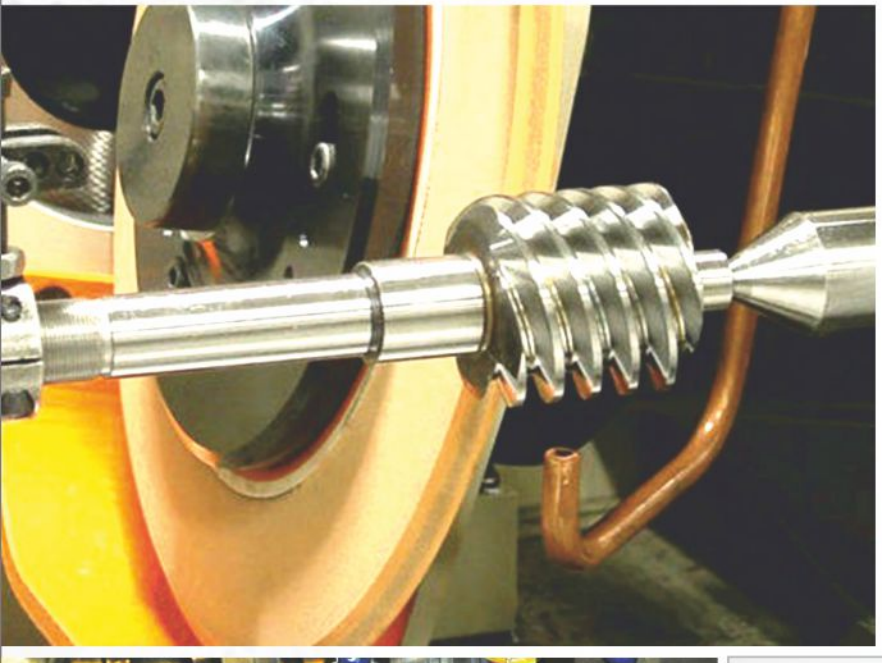

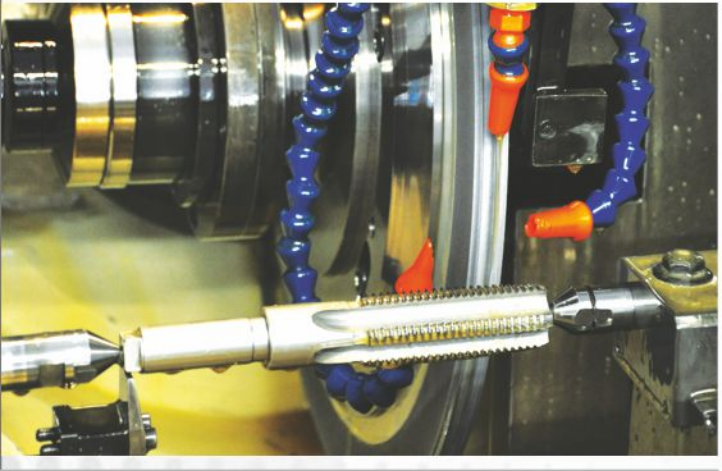

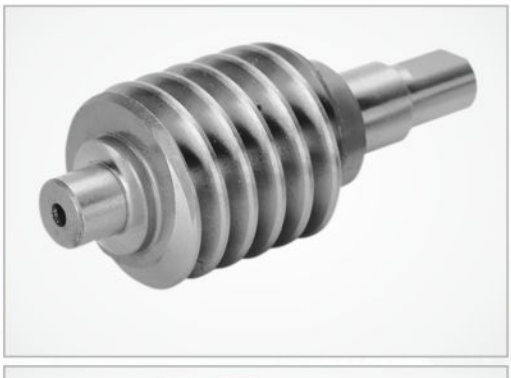



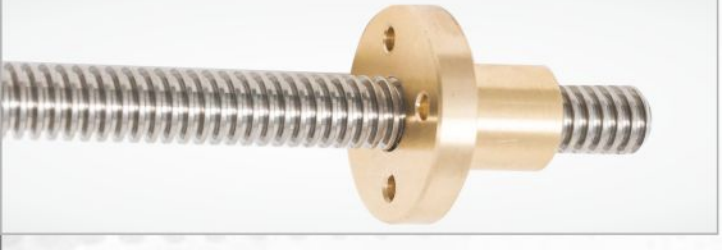




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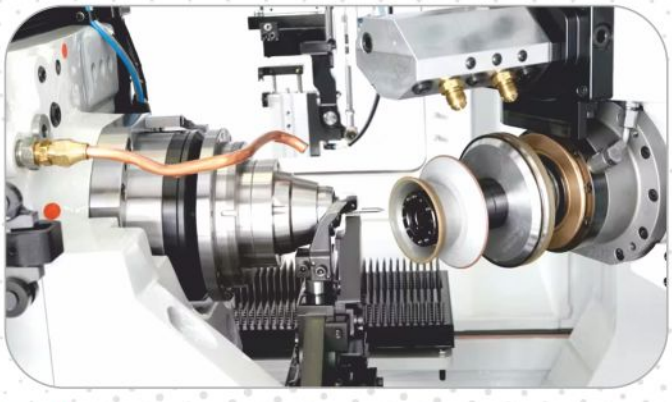




HAWK METAL













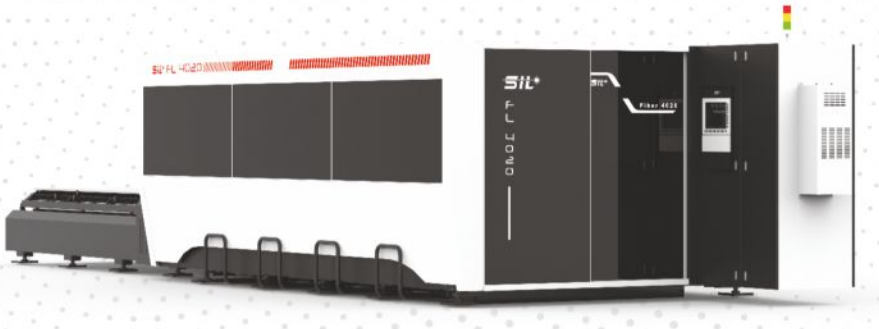








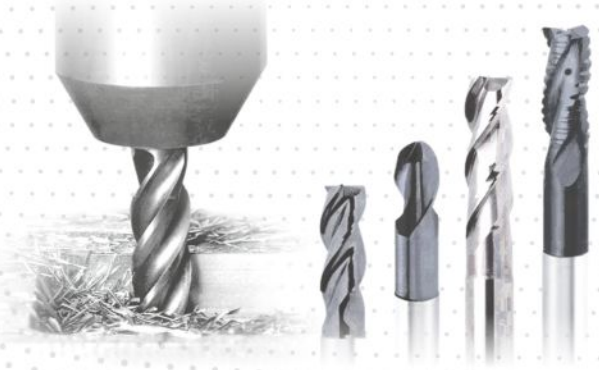




TAPS & CUTTING TOOLS

HAWK STONE







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