

**BHARTIYA**

**TUBE TOOLS**

# PORTABLE LINE BORING WELDING MACHINE



**SHINOARE**<sup>TM</sup>  
INDUSTRIES PVT LTD

## **MANUFACTURER & EXPORTER OF**

Tube Cleaners, Tube Tools, Tube Expanders,  
Bolting Tools, Impact Sockets,  
Pipe Beveling Machines, Pipe Cold Cutting Machines,  
High Pressure Water  
Jet Cleaning Machines Tapping Machines



Education is necessary but not a pre-requisite for success in life. **Bhartiya** Industries is the best example of this theory. **Mr. Suryakant Shingare (HARIBHAI)**, the founder of the company is a non-matriculate technocrat with more than 10 years experience in flexible shaft manufacturing. He founded this company in 1989.

### **Basic Products:**

Engineering products is our forte. We manufacture engineering products such as tube expander, tube cleaner, tube tools, hydraulic tube expansion, tube pulling, and pipe beveling machines. We also deal in manufacture of flexible shaft grinders, construction equipment, hydraulic torque wrench, impact socket, pneumatic tapping machines, and many more...

### **Brief History of the Company:**

We were a small industry until 2003 engaged in production and supply of different types of flexible shafts for tube cleaning, brushes, flexible shaft grinder, and concrete vibrators. The year 2003 was a watershed year for the company.



**Mr. Pradip Shingare**, son of **Mr. Hari Shingare**, graduated from Mumbai University with a degree in Mechanical Engineering. He had great plans to take the company forward on the route to expansion. He ventured into export of the engineering products. By 2008, the company acquired the reputation as the largest exporter of tube cleaning machines and flexible shafts in India.

The year 2009 saw the expansion of the company into manufacture of products such as Tube expander, tube tools, and tube pulling machines. The company witnessed a record double-digit growth in this product range. In 2011, the company started developing a product range of pipe beveling machines. These machines are extremely popular in India as well as in the overseas market. The year 2013 witnessed the company foray into imports of different types of tools such as tapping tools, grinding tools, etc making us the leading player in India in these categories.

The year 2015 saw us entering into the sugar industry component with the manufacture of the Heavy Duty Sugar Dust Collector machine, Flex Repair 40 machine.

In 2016, we added **SHINGARE INDUSTRIES PVT. LTD.** a new company in our group. We were awarded ISO 9001:2015 certification for strictly followed quality norms and processes.

In 2021, amidst the global challenges posed by the pandemic, when many companies were forced to lay off employees, SIPL took a bold step by venturing into the new vertical of Pipe Cold Cutting & Beveling Machine, Bolt Torquing/Tensioning Services and the manufacturing of Hydraulic Torque Wrenches, Bolt Tensioners, and allied products. With a forward-thinking strategy and a dedicated team, SIPL quickly gained recognition as a trusted leader in the industry. Within just three years, the company became a prominent name in Bolt Torquing services across various sectors, including Rail/Metro, PEB structures, Power Plant and Oil & Gas shutdowns in India. SIPL's commitment to excellence and innovation has solidified its position as a top service provider in these critical industries.

### **Dedicated Staff:**

We have a dedicated team of more than 70 people, many of whom are with us since the early days of the company. We have an excellent blend of youth, knowledge, and experience in our ranks.

### **Export oriented:**

We export over 60% of our products to more than 65 countries all over the globe.

### **Expansion:**

We feel the need to expand our business to enable us to serve the people of this country better. With this aim in mind, we established a new company in the name of SHINGARE INDUSTRIES PVT. LTD.

**Our main motto of business is "Growth with Trust."**

Our mission is to innovate and create an import substitute products in India.

**UNICORN-50 INTELLIGENT BORING AND WELDING MACHINE :**

It is portable, the volume is ahead of the industry, and the processing & Welding diameter can be 300mm max. Besides, it has the ability of remote operation by remote controller.

**POWERFUL PROCESSING CAPABILITY :**

It is a combination of more than ten years of experience in hole repairing, including: shaft pin hole, hinge hole or ship link hole, steam turbine pair wheel link hole ,Turning processing of pump valves, pipe inner holes and automatic welding repair of inner holes.

**AUTOMATIC WELDING SYSTEM :**

Automatic welding only needs to input the aperture to the controller to complete the automatic welding work. It also has the functions of skip welding and swing welding.

**ULTRA-HIGH-STRENGTH BORING BAR :**

It is made of 40Cr/42CrMo material. It has heat treatment processes such as overall high-frequency quenching, modulation, and surface chrome plating. It has high strength and brings a strong guarantee for cutting and finishing.

**DUAL SYSTEM FOR UNICRON - 50**



**FEATURES :**

- The powerful automatic protection function makes the **UNICORN-50** have a longer service life, and it is easier to be maintenance-free.
- Boring and repair welding-boring and automatic inner circle repair welding only needs one revolution to complete the system switching, making the operation more convenient.
- Automatic inner circle repair welding system, remote control feed position adjustment, large and small aperture input, truly achieve controllable accuracy. The fan surface can be adjusted at will, and smart jump welding can be completed by one button.
- Automatic inner circle repair welding can be used for **Jump Welding, Sector Welding, Full Circle Welding, Slot Welding, Step Welding** and other requirements.

# PORTABLE LINE BORING AND WELDING MACHINE : UNICORN-50

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## APPLICATION



## PRODUCT ADVANTAGE

### 1. INTELLIGENT REPAIR WELDING

Enter the aperture, one-key repair welding, no need to manually adjust the speed, automatic matching

### 2. SMART SWING AND SKIP WELDING

Oval hole, semicircle welding, etc. Input the width to be welded, complete with one key.

### 3. POWERFUL BORING

The maximum single-side tooling amount can reach 8mm, and it can also boring double holes at the same time.

### 4. HIGH BORING PRECISION

The accuracy tolerance of the through hole is 0.02mm, and the ovality is 0.01mm.

### 5. SUPER POWER

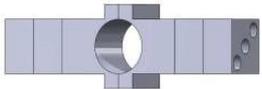
3.1 KW servo motor, 220V/380V optional.

## SPECIFICATION

Sr. No.	Model	Range	UNICORN-50 Line Boring and Welding Machine
1		Boring Range	55-300mm
2	Boring Capacity	Size of Boring Bar	50x1600mm&50x400mm&50x300mm
3		Boring Spindle Speed	50-300RPM
4		The Maximum Boring Depth	8mm on One Side
5		Surface Roughness	Ra3.2
6		Hole Roundness Error	≤0.02mm
7		Welding Range	40-300mm
8	Welding Capacity	Welding Rod Length	800mm&300mm&240mm&200mm
9		Welding Thickness One Side	4-5mm
10		Welding Wire Diameter	0.8/1.0/1.2mm
11		Max Axial Travel	300mm (Can be customized, Maximum 1000mm)
12		Axial Feeding Speed	0-0.8m/min
13		Motor Power	3.1kw
14		Voltage & Frequency	220V, 60hz/380V, 50Hz

# PORTABLE LINE BORING AND WELDING MACHINE : UNICORN-50

## MACHINE PACKLIST

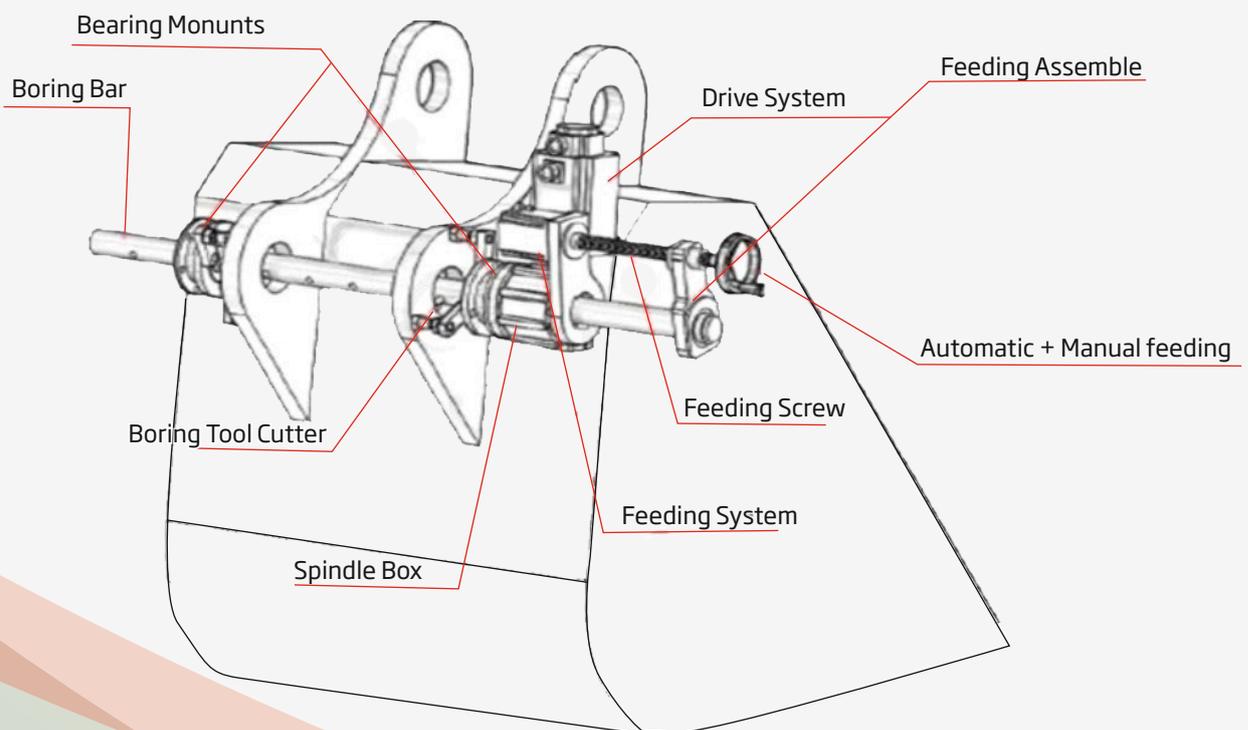
BORING ACCESSORIES					
1	Main Machine <b>(1 Set)</b>		9	Bearing Mounts <b>(2 Pcs)</b>	
2	Electrical Control Box <b>(1 Set)</b>		10	Hexagon Wrench <b>(2 Pcs)</b>	
3	Servo Motor 3.1kw <b>(1 Set)</b>		11	Feeding Assembly <b>(1 Pcs)</b>	
4	Feeding Motor <b>(1 Set)</b>		12	Tool Cutter <b>(12+4 Pcs)</b>	
				Tool Cutter <b>(80+20 Pcs)</b>	
5	Boring Bar 50x350mm <b>(1 Set)</b>		13	Anti-Vibration Frame <b>(1 Set)</b>	
6	50x350mm Boring Bar <b>(1 Set)</b>		14	Positioning Device <b>(1 Set)</b>	
7	50x400mm Boring Bar <b>(1 Set)</b>		15	Large Tool Cutter (160-300mm) <b>(1 Set)</b>	
8	50x1600mm Boring <b>(1 Set)</b>		16	Large Bearing Mount (160-300mm) <b>(1 Set)</b>	

## PORTABLE LINE BORING AND WELDING MACHINE : UNICORN-50

### Welding Accessories

1	Welding Cable <b>(1 Set)</b>		5	200/240/300/800 mm Torch	
2	Remote Controller <b>(2 Pcs)</b>		6	Welding Nozzles <b>(40+40 Pcs)</b>	
3	Adapter <b>(1 Set)</b>		7	Universal Torch Head <b>(1 Pcs)</b>	
4	Protection Nozzle <b>(10+10 Pcs)</b>				

## UNICORN - 50 MACHINE STRUCTURE



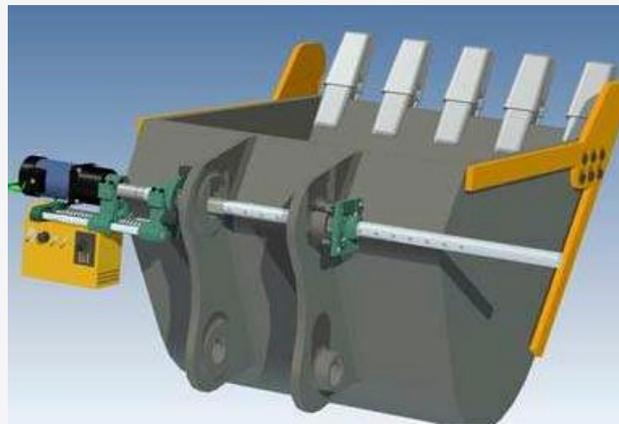
# PORTABLE AUTOMATIC LINE BORING MACHINE : PANTHER-40



TUBE TOOLS

## 1. TECHNICAL SPECIFICATIONS OF PANTHER-40

### 1.1 MACHINE PICTURES ONLY FOR YOUR REFERENCE



### STRUCTURE FOR PANTHER-40

1. Supporting seat A
2. Boring bar
3. Support
4. Rack ting seat B
5. DC motor
6. Emergency stop switch
7. Feeding turning button
8. Feeding speed governing button
9. Speed governing button for motor rotation
10. Alternate switch of motor steering

## SPECIFICATIONS

NO.	ITEMS	UNIT	PANTHER-40
1	Boring Bar Diameter	mm	40
2	Length of Boring Bar	mm	1500mm
3	Boring Spindle Speed	RPM	0-125 Suggested 50rpm when using HSS Tool
4	Max Axial Travel	mm	360
5	Axial Feeding Speed	mm/r	0-0.8
6	Motor Power	KW	1.5
7	Boring Diameter	mm	45- 180(Max 200)
8	The Maximum Boring Depth	mm	2mm on one side( 45-180)
			1mm on one side ( 180-200)
9	Surface Roughness		Ra3.2
10	Machining Tolerance	mm	Less than 0.1
11	Voltage and Frequency	--	220V, 50hz, Single Phase

# PORTABLE AUTOMATIC LINE BORING MACHINE : PANTHER-40



TUBE TOOLS

## STANDARD ACCESSARIES ONLY FOR YOUR REFERENCE

Sr. No.	PICTURE	DETAILS	FEATURE
1		NAME: Brushless DC Motor along with Panel. <b>Qty: 1set</b>	Machine adopts domestic DC motor, large torque, long life. Beautiful design enjoy tremendous popularity, English panel is easy for new users.
2		NAME: Boring Bar <b>Qty: 1 piece</b>	Difference sizes of boring bars are preference the boring operation in different bore diameter.
3		NAME: Bearing mounts <b>Qty: 2sets</b>	Different size bearing mounts, this is for supporting the boring bar and for welding the bolts with construction parts.
4		NAME: Bolts for Welding <b>Qty: 8 Pieces</b>	2 pairs, (1 pair= 4 pieces) necessary for welding between constructions parts and bearing mounts, this part can be used many times. any damage.
5		NAME: Nylon Positioning Block <b>Qty: 1set</b>	Nylon positioning block, standard size with doesn't any environment any damage.
6		NAME: Tool Holder <b>Qty: 3 pieces</b>	Tool holder were provided for free, customer can prepare cutting tools 12x12x200mm in advance according to cutting request.
7		NAME: Cutting Tools <b>Qty: 1 piece</b>	One pieces cutting tools were provided for free, HSS cutting tools is the perfect tools for boring the hole, more pieces needed need extra charge, but we will provide factory price on this.
8		NAME: Tools & Spanner <b>Qty: 1 Set</b>	Common tools for portable line boring machine, Allen key and spanner are easy to tight and loose the nuts.
9		NAME: Remote Control <b>Qty: 1Set</b>	Remote control for controlling spindle speed direction; feed direction which is easy to use when machine installed with the workpiece.

# PORTABLE MANUAL LINE BORING MACHINE INDO BORE-40

## OUR MACHINE ADVANTAGE COMPARED WITH SAME INDUSTRY

- By adopting 220V DC motor with characteristics of Low speed of revolution an high torque the machine can realize stable machining in superior performance.
- No vibration in axial travel and cutting process.
- Feeding and processing can realize unlimited speed control. Feeding process can be set according to requests, ad processing can automatically stop after reaching the limit switches.
- Boring bar adopted hig-strength alloy which with high hardness, high accuracy, high tenacity, good abrasion resistance, etc.
- Within the effective travel, the tool rest can be fixed at any position of boring bar.
- The boring bar can be disassembled separately to make installation convenient.
- Electric motor controller is equipped with dynamic delay brake program to avoid vibration in shutdown.
- The control cabinet is installed below the main engine to be beneficial to safety operation.
- The equipment also has extended functions on boring end face. Customers can select the function according to processing demands.

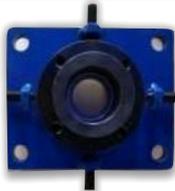
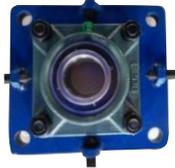
## MANUAL LINE BORING MACHINE : INDO BORE-40

MODEL	SIZE
Boring Bar Diameter	40 mm
Length Of Boring Bar	1000 mm
Suggested 50 RPM When Using	50 RPM when using HSS Tool
Max Axial Travel	250mm
Motor Power	1 HP
Boring Diameter	μ45-μ200mm
Voltage And Frequency	220V, 50hz, Single phase Or Three Phase 440V

### MACHINE ACCESSORY:

- 1) Main Machine
- 2) 1x Boring Bar 1000 mm(Boring bar length can be customized according to customers requests).
- 3) 2xsupporting seats
- 4) 1XBoring Tool 12x12x75 mm M 35 GRADE
- 5) TOOL SET(ALLEN KEY ,SPANNER)
- 6) OIL CAN



NO	MODEL	Qty	Pieces
1	Main Machine	1set	
2	Boring Bar Dia. 40x1500mm Length	1 Pcs	
3	Supporting Bolts	8 Pcs	
4	Boring Cutter	8 Pcs	
5	Locating Sleeve	4 Pcs	
6	Support Connecting Main Machine	4 Pcs	
7	End Support	1 Pcs	
8	Fastening Screw for Cutter	1 Pcs	
9	Tools	4 Pcs	

## OUR MAJOR CLIENTS

Please see below our robust and valued client list that uses BHARTIYA products repeatedly. We take pride in our partnerships and the ability to grow with such amazing group of companies.



SHINGARE™  
INDUSTRIES PVT LTD

SHINGARE INDUSTRIES PVT. LTD.  
Formerly known as Bharatiya Industries

Manufacturer & Exporter of Tube Cleaners, Flexible Shafts, Tube Tools, Impact Sockets, Bolting Tools, Pipe Cold Cutting and Beveling Machines, Torque Tools, Grinding Tools, Tapping Tools, Hydraulic Torque Wrench, Electric Torque Wrench, Manual Torque Wrench & Torque Multiplier

Factory Add: A-48 B Osiya Mataji Compound, Village Kalher, Retibunder Road, Tal. Bhiwandi, Dist. Thane - 421302, Maharashtra.

Head Off: B-227, 2nd Floor, Eastern Business District (Magnet/Neptune Mall), L.B.S. Marg, Bhandup (west), Mumbai - 40078.

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