



TUBE TOOLS

FLEXIBLE SHAFT GRINDER



SHINGARETM
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, FlexRepair40 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.

Dedicated Staff:

We have a dedicated team of more than 40 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 55 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.

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Our Successful Participation in Trade Fairs and Conventions in INDIA and Overseas.



SISSTA BENGALURU 2015



SISSTA, CHENNAI 2016



SISSTA, TIRUPATI 2017



MAHATECH, PUNE 2015



STAI, NEW DELHI 2016

INTRODUCTION

We manufacture & export Bhartiya Makes Flexible Shaft Machines ranging from 0.75 to 2.5 H.P. phase and three-phase range.

Our motors are thoroughly tested for insulation and overloading; incorporated with a high quality windings and bearings. The motors are absolutely trouble free and mounted with an easily accessible rotary switch.

Our flexible shafts are manufactured with superior quality raw material to ensure longer product life. The shafts can be easily fitted or dismantled from the motor at one end and tool holder at the other end.

Our tool holders to suit different applications like mounting of grinding wheels, mounted points sanding discs and right angle attachments. The individual components in the assembly of the tool holder are made with proper heat treatment, dimensional and surface finish, forms, profiles etc.,

The separation of drive unit and the tool itself provides for complete freedom of operation, without fatigue, during long working periods. Additionally, areas difficult to reach with other tools can be worked effectively with flexible shaft machines.

Our programme embraces single-multi and infinitely variable speed machines. Operating speeds based on long, practical experience provides for optimal cutting and surface speed, which guarantees maximum stock removal and also economic tool factor.

ADVANTAGES OF MACHINES WITH FLEXIBLE SHAFTS

- ▶ Wider fields of application with universal combination possibilities.
- ▶ Light and handy tools related to specific performance.
- ▶ Operation in restricted areas
- ▶ Wide speed range
- ▶ Constant speed
- ▶ High cutting capacity
- ▶ Unaffected by constant rough working conditions
- ▶ Rugged construction - long working life
- ▶ Pollution free - low noise levels



TEN GOOD REASONS WHY YOU SHOULD SELECT 'BHARTIYA' FLEXIBLE SHAFT MACHINES

- ▶ Easy to operate.
- ▶ Continuous duty rating unlike tools with universal motors.
- ▶ Available for operation in single phase and 3 phase power supplies.
- ▶ Sturdy construction and dynamically balanced pressure die-cast rotor.
- ▶ Wide range of power - output and speeds to suit every application and grinding media.
- ▶ Optimum cutting speed under varying load conditions due to constant speed characteristics.
- ▶ Less than 5% RPM drop from no load unlike 40% or more in universal motor tools and pneumatic tools.
- ▶ High productivity due to continuous rating, constant speed operation, minimum operator fatigue and minimum downtime.
- ▶ Low maintenance cost due to absence of frequent armature burn out or carbon brush cleaning/replacement problems of universal motor tools and clogging of filters of pneumatic tools.
- ▶ Complete freedom of operation, minimum operator fatigue and easy accessibility to remote and restricted areas of job due to the separation of tool from drive machine unlike universal motor tools and pneumatic tools.

APPLICATION & SELECTION OF GRINDER MACHINE

Model	RPM	Shaft size	Tool Holder	Application	Max Wheel Size
BFG-20	12000	10 mm	BFH-10	Die Grinding, Deburring, Mould Grinding, Pencil Grinding	Mounted Point Tools
BFG-18	8000				
BFG-24	12000	12 mm	BFH-10	Grinding, Rust Removing, Buffing, Polishing, Sanding Tyre Rapsing	5" Dia & 5" Width
BFG-26	8000		BWH-10		
BFG-13-1	2800	12 mm	BFH-10	Grinding, Rust Removing, Buffing, Polishing, Sanding Tyre Rapsing	5" Dia & 5" Width
BFG-13-3			BWH-10		
BFG-14-3					
BFG-14-3A					
BFG-13-1	2800	15 mm	BWH-15	Tyre Retreading, Deck Chipping	Chipping Head
BFG-13-3			BFH-15		
BFG-14-3					
BFG-14-3A					
BFG-16	5800	15 mm	BWH-15 BFH-15	Fetting, Fabrication	7" Dia. 9" Dia." 1.1/8Width

SINGLE SPEED FLEXIBLE SHAFT GRINDER (2800 RPM)



- Flexible Shaft Grinding machine is widely used in Fabrication Workshop, Foundries and heavy industries. It is very suitable for heavy and or lengthy jobs where it is not possible to lift the job or get the same close to the grinding machine. Each machine is supplied with a Flexible Shaft and Grinding Wheel. The machine can also be used for Buffing purpose by attaching an buffing attachment which can be supplied as an extra equipment . Machine is mounted on castor Wheels and can be easily moved around close to the job.
- Dynamically Balanced rotor minimise vibrations and ensure smooth running.
- Construction of the machine are made sturdy and robust offer vibration free performance. Collet attachment for mounted point grinding wheels can also be supplied at extra cost.
- Following are details of Single Speed 'BHARTIYA' Flexible Shaft Machine

Model	HP	KW	Volts	Phase	RPM	Shaft Length in Meters	Approximate Weight in kg
BFG-13-1	1.0	0.75	220	1	2800	2	23
BFG-13-3							
BFG-14-3	2.0	1.50	440	3		3	25
BFG-15-3	3.0	2.25					32

General Tolerance + 0.25%

FLEXIBLE SHAFT GRINDER



TUBE TOOLS

HIGH SPEED FLEXIBLE SHAFT GRINDER



Model	HP	KW	Volts	Phase	RPM	Shaft Length in Meters	Approximate Weight in kg
BFG-16	1.5	1.125	440	3	5800	2	26
BFG-17	2.5	1.86			8000		32
BFG-18	1.0	0.75			12000		20
BFG-20							

MULTIPLE SPEED FLEXIBLE SHAFT GRINDER

BFG-32 - SEVEN SPEED MACHINE



● Following are details of Multi-Speed 'BHARTIYA' Flexible Shaft Machine

Model	HP	KW	Volts	Phase	RPM	Shaft Length in Meters	Approximate Weight in kg
BFG-26	1.0	0.75	440	3	3200 & 5800	2	19
BFG-28					12000,8000		
BFG-30					12000,8000&5800		
BFG-32					1200,8000,5800,3200,2100,1600,850		

FLEXIBLE SHAFT GRINDER

FLEXIBLE SHAFT IBSFS SERIES



TUBE TOOLS

It consist of metallic flexible inner core with multiple wound opposite layer. It is made of high tensile spring steel (as per requirement) and passed through heat treatment processes to make it absolutely vibration free.

External sheath made of flexible double interlocked (metallic) or rubberized cover. External sheath is provided with antifriction liner to protect it from friction of high speed movement of inner core.

This flexible shaft has standard metallic outer casing with OD 33mm & inner core 15mm. This flexible shafts are popular for doing buffing or polishing work. Flexible shaft length varies from 2 meters to 8 meters.



Following are details of Multi-Speed 'BHARTIYA' Flexible Shaft Machine

Serial No.	Inner core Diameter		Outer Casing Diameter		Shaft Length		Model No. of flexible shaft
	Mm	Inch	Mm	Inch	Mtr	Feet	
1	15	5/8	33	1.15	2.0	6.5	BSFS-106-6
2					3.0	10.0	BSFS-106-10
3					5.0	17.0	BSFS-106-17
4					6.0	20.0	BSFS-106-20
5					8.0	27.0	BSFS-106-27

NOTE: FLEXIBLE shafts are provided with or without hand piece as per requirement of customer.

ACCESSORIES FOR BSFS SERIES FLEXIBLE SHAFTS: IBSFS SERIES

Handpiece (BSHG-15)

This Tool Handpiece are suitable for Grinding Wheels, Buffing Clothes and accessories. In addition to this, collet adaptors can be used to hold point mounted tools.



Buffing Attachment

This Collect is used for Holding Buffing cloth during Buffing.



Collet Attachment

Dia of Collet Attachment: 3MM/6MM/6.4MM

Collet Attachment: Collets adaptors are used with 'BSHG' Series tools in order to hold point mounted tools.



FLEXIBLE SHAFT GRINDER



TUBE TOOLS

FLEXIBLE SHAFT (BHFS SERIES)

It consist of metallic flexible inner core with multiple wound opposite layer. It is made of high tensile spring steel (as per requirement) and passed through heat treatment processes to make it absolutely vibration free.

External sheath made of flexible double interlocked (metallic) or rubberized cover. External sheath is provided with antifriction liner to protect it from friction of high speed movement of inner core.

This flexible shaft has standard metallic outer casing of diameters 22mm, 25mm or 29mm & inner core diameters 10mm, 12mm & 15mm respectively.



Following are various size of 'BHARTIYA' Flexible Shaft :-

Size of Flexible Shafts							
Serial No.	Inner core Diameter in		Outer Casing Diameter in		Shaft Length in		Model No. of flexible shaft
	Mm	Inch	Mm	Inch	Mm	Inch	
1	10	3/8	22	7/8	1.5	5.0	BHFS-105-5
2					2.0	6.5	BHFS-105-6
3	12	1/2	25	1	2.0	6.5	BHFS-105-6
4					2.5	8.0	BHFS-105-8
5					3.0	9.0	BHFS-105-9
6	15	5/8	29	1.15	2.0	6.5	BHFS-105-6
7					2.5	8.0	BHFS-105-8
8					3.0	9.0	BHFS-105-9

NOTE: Flexible shafts are provided with or without hand piece as per requirement of customer.

FLEXIBLE SHAFT TOOL HOLDERS & ACCESSORIES

'BWH' Series Tools Holders



This Tool Holders are suitable for grinding Wheels, Buffing Clothes and accessories In addition to this, Collet Adaptors can be used to hold point Mounted Tools. Therefore there is no need to use 'BFH' Series Tool Separately.

FLEXIBLE SHAFT GRINDER



TUBE TOOLS

'BFH' Series Tools Holders



Spindle Mounted Tools for grinding

Serial No.	Inner core Diameter in		Tool Holders for Point Mounted Tools	Tool Holders for Buffing (With male threading)
	Mm	Inch		
1	10	0.39	BFH-10	BWH-10
2	12	1/2	BFH-12	BWH-12
3	15	5/8	—	BWH-15

Spare Collet For Point Mounted Tools:

Collets are used in Collet Adaptors & 'BFH' Series Tools Holders to Hold Spindle Mounted Tools.



Collets for Adaptors Size in MM	Model No.
3.0	BC 30
6.0	BC 32
6.4	BC 34

Tool Holder BWH -15

Collet Attachment



BRAT Series :

This right angle Tool Holders are suitable for Grinding Wheels.



FF2 FLEXIBLE SHAFT GRINDER MACHINE



Features:

- Universally accepted 360 rotated Flexible Shaft Grinder.
- Al-die cast body.

Model	FFG2	FF2
Capacity	6 mm(Collect)	6 mm(Collect)
Watts input (full Load)	370 W	370 W
No-Load Speed	11500 r.p.m	1200/11500 r.p.m
Approx-Weight	5 kg	5.5 kg

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, Pipe Beveling Machines, Torque Tools, Grinding Tools, Tapping Tools.
A-48 B Osiya Mataji Compound, Village Kalher, Retibunder Road, Tal. Bhiwandi, Dist. Thane - 421302, Maharashtra,
+91 22 25854509 | +91 90290 05461 | +91 22 25883527 | bharatflex@yahoo.com | spradip@tubecleaner.co.in
www.shingare.com | www.tubecleaner.co.in

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