



SHING ARE

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

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







SISSTA, CHENNAI 2016



SISSTA, TIRUPATI 2017



MAHATECH, PUNE 2015



STAI, NEW DELHI 2016

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INTRODUCTION

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.

BOILER TUBE CLEANER



FLEXIBLE SHAFT MACHINE ('BFM' SERIES):

It is a 3 phase electric motor (2088 rpm) mounted on 3 wheel trolley fitted with a carrying trolley. Horse power of motor is selected depending upon the length & size of shaft, and type of scaling. Push button starter is provided to control the motor. Each machine is fully wired, carefully tested & fitted with a 10 ft. Length (Or longer if required) PVC cable to main supply. Motors are available in enclosed system as well as in open system (i.e. without covering of above motor.)

Please contact us if your electrical specification is different from below mentioned. Machine for alternate supply are also available.





OPEN SYSTEM

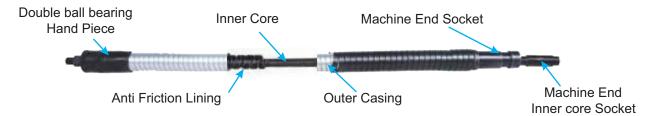
CLOSE SYSTEM

Model	Motor	Power	Electric Supply	Speed	Tube I.D	INCH
No.	HP	KW	Liectric Supply	RPM	MM	INCH
BFM-30	3	2.238		2800	28.0-50.80	1.1/8"-2.0"
BFM-50	5	3.73	440 V	2800	38.10-101.6	1.1/2"-4.0"
BFM-50M	5	3.73	3 Phase	2800, 1400, 910	38.10-101.6	1.1/2"-4.0"
BFM-50S	5	3.73	50 C/S A/C	1400	38.10-101.7	1.1/2"-4.0"
BFM-50V	5	3.73		300-2800	38.10-101.8	1.1/2"-4.0"

To view demo of above machine please visit our below youtube link https://youtu.be/q2okON5_f4l (If you cannot click below then either copy and paste the same in the browser or scan below QR code)



'BHARTIYA' FLEXIBLE SHAFTS ('BFS' SERIES):



It is used for cleaning of tube by transmitting power in terms of rotation from the motor unit to tool head cutter or brush within tube.

INNER CORE:

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

OUTER CASING:

it is flexible, double interlocked, circular rounded, made of galvanized steel strip, Special spring steel lining is provided within outer casing to avoid any friction between inner core & outer casting.

BHÂRTIYÂ TUBE TOOLS

FLEXIBLE SHAFT MACHINE ('BFM' SERIES):

Connection:

One end of shaft with machine and socket is attached to sutable motor and other end is attached to tool end.

For Domestic or Indian Flexible Shafts, Sizes are as follows:

1. Model: BFS-1025 Inner core: 12.5mm Outer Casing: 33mm

2. Model: BFS-107: Inner core: 15mm
Outer Casing: 33mm

2. Model: BFS-107: Inner core: 18.5mm
Outer Casing: 35.5mm

Note:

Tolerance for inner cores
Are ± 0.5mm
Tolerance for outer casing
Are ± 1mm

	INNER CORE DIA MM (INCH)		11.0 MM (7/16")	13 MM (½")	15 MM (5/8")	19.0 MM (3/4")
	TER CAS MM (INCH		22.0 MM (7/8")	24.0 MM (15/16")	29.0 MM (1.14")	33.0 MM (1.3")
	LENGTH	۱ 🖣				
Mtrs.	Feet	Sr. No.	MODEL NO.	MODEL NO.	MODEL NO.	MODEL NO.
6.0	20.0	1	BFS-104-20	BFS-105-20	BFS-106-20	BFS-107-20
7.5	25.0	2	BFS-104-25	BFS-105-25	BFS-106-25	BFS-107-25
8.0	27.0	3	BFS-104-27	BFS-105-27	BFS-106-27	BFS-107-27
9.0	30.0	4	BFS-104-30	BFS-105-30	BFS-106-30	BFS-107-30
10.0	33.0	5	BFS-104-33	BFS-105-33	BFS-106-33	BFS-107-33
12.0	40.0	6	BFS-104-40	BFS-105-40	BFS-106-40	BFS-107-40
15.0	50.0	7	BFS-104-50	BFS-105-50	BFS-106-50	BFS-107-50
18.0	60.0	8	BFS-104-60	BFS-105-60	BFS-106-60	BFS-107-60
20.0	65.0	9	BFS-104-65	BFS-105-65	BFS-106-65	BFS-107-65
25.0	82.5	10	BFS-104-82	BFS-105-82	BFS-106-82	BFS-107-82
30.0	100.0	11	BFS-104-100	BFS-105-100	BFS-106-100	BFS-107-100
Spare Inner Core Per Meter		BIC-104	BIC-105	BIC-106	BIC-107	
Spare Outer Casing Per Meter		BOC-104	BOC-105	BOC-106	BOC-107	
Spa	are Hand P	iece	BHP-104	BHP-105	BHP-106	BHP-107

TOOL HEAD CUTTER:

'CT' SERIES TOOL HEAD CUTTER:

Purpose: For rapid removel of hard scale.

Deascripation: It has 15 cutter wheels. (4 straight) wheels, 4 left wheel, 4 right wheel & 3 bevel wheels).

They are spring loaded & self expanding. Size: For tube I.D. From 31mm to 53mm





OPEN BODY

CLOSE BODY

Serial No.	Tube	e I. D.	Tool Head	Cutters Wheel	Spare Arms
	MM	INCH		Set of 15 rollers	·
1	31.7	1.1/4	CT-10	CTW-1	CTA-1
2	33.3	1.5/16	CT-10A	CTW-1	CTA-1
3	35.0	1.3/8	CT-11	CTW-1	CTA-1
4	36.5	1.7/16	CT-11A	CTW-1	CTA-1
5	38.1	1.1/2	CT-12	CTW-2	CTA-2
6	39.7	1.9/16	CT-12A	CTW-2	CTA-2
7	41.3	1.5/8	CT-13	CTW-2	CTA-2
8	42.9	1.11/16	CT-13A	CTW-2	CTA-2
9	44.5	1.3/4	CT-14	CTW-3	CTA-3
10	46.0	1.13/16	CT-14A	CTW-3	CTA-3
11	47.6	1.7/8	CT-15	CTW-3	CTA-3
12	49.2	1.15/16	CT-15A	CTW-3	CTA-3
13	51.0	2	CT-16	CTW-3	CTA-3

'T' SERIES TOOL HEAD CUTTER:

BHARTIYA **TUBE TOOLS**

'T' Series:

Purpose: For cleaning straight and curved tubes as found in boiler, air heaters.

Description: This head cutter is provided with three wheels, one each of straibht teeth, teeth cut right hand, teeth cut left hand for quicker cleaning and to prevent gtooving of scale.

Size: Tube I.D From 31mm to 102mm

NOTE: '2Layer & 3 Layer tool head cutters also available in 'T' series cutters.

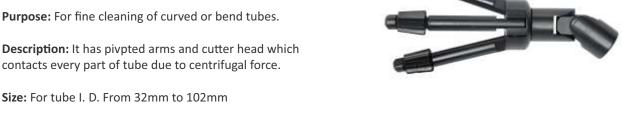
Carial Na	Tube I. D.		Tool Head	Cutters Wheel Set of 3 rollers	Spare Arms
Serial No.	MM	INCH	Model No.	Model No.	Model No.
1	31.7	1.1/4	T-10	TW-1	TA-1
2	35.0	1.3/8	T-11	TW-1	TA-1
3	38.1	1.1/2	T-12	TW-1	TA-1
4	41.3	1.5/8	T-13	TW-2	TA-2
5	44.5	1.3/4	T-14	TW-2	TA-2
6	47.6	1.7/8	T-15	TW-2	TA-2
7	51.4	2	T-16	TW-2	TA-2
8	54.0	2.1/8	T-17	TW-2	TA-2
9	57.1	2.1/4	T-18	TW-3	TA-3
10	63.5	2.1/2	T-20	TW-3	TA-3
11	70.0	2.3/4	T-22	TW-4	TA-4
12	76.2	3	T-24	TW-4	TA-4
13	82.5	3.1/4	T-26	TW-5	TA-5
14	88.9	3.1/2	T-28	TW-5	TA-5
15	95.2	3.3/4	T-30	TW-6	TA-6
16	101.6	4	T-32	TW-6	TA-6

'YT' SERIES TOOL HEAD CUTTER:



'YT' Series:

Description: It has pivpted arms and cutter head which contacts every part of tube due to centrifugal force.



Serial No.	Tube	e I. D.	Tool Head	Cone Cutter Set of 3 rollers	Spare Arms	Universal Joint
Ochai No.	MM	INCH	Model No.	Model No.	Model No.	Model No.
1	38.1	1.1/2	YT-12	YTC-12	YTA-12	YTUJ-12
2	44.5	1.3/4	YT-14	YTC-14	YTA-14	YTUJ-14
3	51.4	2	YT-16	YTC-16	YTA-16	YTUJ-16
4	57.1	2.1/4	YT-18	YTC-18	YTA-18	YTUJ-18
5	63.5	2.1/2	YT-20	YTC-20	YTA-20	YTUJ-20
6	69.8	2.3/4	YT-22	YTC-22	YTA-22	YTUJ-22
7	76.2	3	YT-24	YTC-24	YTA-24	YTUJ-24
8	88.9	3.1/2	YT-28	YTC-28	YTA-28	YTUJ-28
9	101.6	4	YT-30	YTC-30	YTA-30	YTUJ-30



TOOL HEAD CUTTER

'SA' TYPE CUTTER HEADS



Model No.	Tube I.D.		Cone & Flat Cutter Set (9)	Arms	Universal Joint
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	MM	INCH	Model No.	Model No.	Model No.
SA-16	51.0	2	SAFC-1	SAA-1	SAUJ-1
SA-18	57.1	2.1/4	SAFC-2	SAA-2	SAUJ-2
SA-20	63.5	2.1/2	SAFC-2	SAA-2	SAUJ-2
SA-22	70.0	2.3/4	SAFC-3	SAA-2	SAUJ-2
SA-24	76.2	3	SAFC-3	SAA-2	SAUJ-2
SA-28	88.9	3.1/2	SAFC-4	SAA-2	SAUJ-2
SA-32	101.6	4	SAFC-5	SAA-3	SAUJ-2

For Tubes / Pipes 2"-4" (51.0mm-101.6mm) I.D. These cutter Heads have 3 to 5 freely pivoted arms, activated centrifugally, which swing out to give access to any part of tube well.

CARBIDE DRILL

Carbode Drills used for cleaning tubes choked solidly with hard deposits. Size 1/4m(6.4m) - 21/(50.8mm)



CARBIDE DRILL

"P" & "TC" TYPE

The model "P" & "TC" cutter head is used for cleaning straight tubes from 1-1/2" I.D. through 7" I.D. It is usually direct coupled to drive motor but flexible couplings, universal joints or flexible holders, are used to negotiate curved or bend tubes.

The model "P" & "TC" is for heavy and hard tube deposits as found in refinery and still tubes. It is tough in its parts and assembly as necessary to stand up in this service and it makes economical provision, as described below, for inevitable wear due to large forces which must transmit through the assembly. The model "P" & "TC" is conformed to do its work quickly and thoroughly even when deposits are of varying thickness and hardness.



'P' & 'TC' TYPE

Cone cutter, with rapered cutting edges at the front of the cutter head, expand against tube deposits by centrifugal force and break up uneven shoulders of scale. This is followed by long rows of expanding "no track" cutter wheels which finish up with thorough, repeated cuts. Centrifugal force assures good working contact between tube deposits and cutting edges and "no track" means that cutters cannot fall into a pattern which skips over and leaves strips of scale behind.

The expansion range (range of cutter head diameters) of these cutter heads is considerable (See chart below.) and is due to (1) slotted cutter pin bearing bores and (2) intentional "Play" in pin bearing inserts, features which include an economical bonus.

Model No.	Tube I.D. INCH	Minimum Dia. Over Cutter INCH	Minimum Dia. Over Cutter INCH	Cone Cutter Set Model No.	Cylinder Cutter Set Model No.	Cutter Pin Set Model No.
TC-14	1.1/2	1.3/8	1.23/32	1787-1	1788-2	1584-1
TC-11	1.3/4	1.5/8	2	1587-1	1588-2	1584-1
TC-17	1.7/8	1.11/16	2	2287-3	2288-6	1584-3
TC-16	2	1.13/16	2.3/16	1787-3	1788-6	1584-PY
TC-13	2.1/8	1.15/16	2.5/16	1787-3	1788-6	1584-PY
P-15	2.1/4	2.1/16	2.7/16	2487-3	3338-6	2484-PY
P-9-S	2.3/8	2.3/16	2.11/16	C52-3	C76-6	2484-3
P-9	2.1/2	2.1/4	2.13/16	1587-3	1588-6	1584-PY
P-8	2.5/8	2.9/16	2.7/8	1087-3	1088-6	184-3
P-7	2.3/4	2.9/16	2.15/166	1087-3	1088-6	184-3
P-6-A	3	2.11/16	3.1/8	1087-3	1088-6	184-3

Note: Maximum Size of P&TC Cutter is up to 7".

WIRE BRUSHES



Female Threading

TURK HEAD BRUSH

Max. Brush Size: 6" (152.4mm)

Purpose: For removal of light scale from

pan, evaporator, juice heaters tube.



DUTY BRUSH
It can be used along with 15 roller tool head cutter for quick cleaning size 1/4" to 4"

"WBA" HEAVEY



DOUBLE SPIRAL BRUSH
"BDS" for removing light
scale and burnishing all
types of tubes



SPRING COIL BRUSH

Max. Brush Size: 38.1mm upto 152.4 mm I/D

Purpose: For heavy duty tube cleaning.





CIRCULAR WHEEL BRUSH
Max. Brush Size: 6" (152.4mm)
Thickness: ½" to 2"
Purpose: For polishing,
deburing & cleaning of tube



"EXS" EXPANDING SCRAPERSFor thin scale, soot or soft deposits

SR.	Si	ze	'BT'	'BDS' Double Sprial Brush	'BCW'	'WBA' Shuttle Cock Brush	'BSC' Spring Coil Brush	'EXS' Expanding Scrapper Brush
No.	MM	INCH	Model No.	Model No.	Model No.	Model No.	Model No.	Model No.
1	31.7	1.1/4	BT-10	BDS-10	BCW-10	WBA-10		EXS-10
2	35.0	1.3/8	BT-11	BDS-11	BCW-11	WBA-11		EXS-11
3	38.1	1.1/2	BT-12	BDS-12	BCW-12	WBA-12	BSC-12	EXS-12
4	41.3	1.5/8	BT-13	BDS-13	BCW-13	WBA-13	BSC-13	EXS-13
5	44.5	1.3/4	BT-14	BDS-14	BCW-14	WBA-14	BSC-14	EXS-14
6	47.6	1.7/8	BT-15	BDS-15	BCW-15	WBA-15	BSC-15	EXS-15
7	50.8	2	BT-16	BDS-16	BCW-16	WBA-16	BSC-16	EXS-16
8	54.0	2.1/8	BT-17	BDS-17	BCW-17	WBA-17	BSC-17	EXS-17
9	57.1	2.1/4	BT-18	BDS-18	BCW-18	WBA-18	BSC-18	EXS-18
10	60.3	2.3/8	BT-19	BDS-19	BCW-19	WBA-19	BSC-19	EXS-19
11	63.5	2.5/8	BT-20	BDS-20	BCW-20	WBA-20	BSC-20	EXS-20
12	66.7	2.5/8	BT-21	BDS-21	BCW-21	WBA-21	BSC-21	EXS-21
13	69.8	2.3/4	BT-22	BDS-22	BCW-22	WBA-22	BSC-22	EXS-22
14	73.0	2.7/8	BT-23	BDS-23	BCW-23	WBA-23	BSC-23	EXS-23
15	76.2	3	BT-24	BDS-24	BCW-24	WBA-24	BSC-24	EXS-24
16	79.4	3.1/8	BT-25	BDS-25	BCW-25	WBA-25	BSC-25	EXS-25
17	82.5	3.1/4	BT-26	BDS-26	BCW-26	WBA-26	BSC-26	EXS-26
18	85.7	3.3/8	BT-27	BDS-27	BCW-27	WBA-27	BSC-27	EXS-27
19	88.9	3.1/2	BT-28	BDS-28	BCW-28	WBA-28	BSC-28	EXS-28
20	92.1	3.5/8	BT-29	BDS-29	BCW-29	WBA-29	BSC-29	EXS-29
21	95.2	3.3/4	BT-30	BDS-30	BCW-30	WBA-30	BSC-30	EXS-30
22	98.4	3.7/8	BT-31	BDS-31	BCW-31	WBA-31	BSC-31	EXS-31
23	101.6	4	BT-32	BDS-32	BCW-32	WBA-32	BSC-32	EXS-32



PNEUMATIC BOILER TUBE CLEANERS

PNEUMATIC BOILER TUBE CLEANERS FOR BOILERS & HEAT EXCHANGER TUBES



6000 SERIES AIR MOTOR

Powerful short design of Air Motor is ideal for negotuating short radius bends when cleaning curved tubes. Precision slip-fit motor construction means no special tool required for assembly and disassembly. Thrust plate motor packs plenty of power to operate all types of cleaning heads. Shown with forward swing arm type cleaner head and universal joint.

6300 SERIES AIR MOTOR

Thirst plate type motor specially designed for straight tubes motor parts slip-fit together for easy assembly without special tools. The motor operates at full power for high speed, heavy duty performance.

Sr. No.	Tub	e ID	Bend Tube	Straight Tubes
SI. 110.	MM	INCH	Model	Model
1	22.0-24.0	7/8-61/64	B6024	B6324
2	25.0-29.0	1-1.5/32	B6029	B6329
3	30.0-35.0	1.3/16-1.25/64	B6035	B6335
4	36.0-41.0	1.27/64-1.21/32	B6041	B6341
5	42.0-50.8	1.5/8-2	B6051	B6351
6	50.8-57.1	2-2.1/4	B6057	B6357
7	57.1-63.5	2.1/4-2.1/2	B6063	B6363
9	63.5- 69.9	2.1/2-2.3/4	B6069	B6369
10	69.9-76.2	2.3/4-3	B6076	B6376
11	76.2-88.9	33.1/2	B6088	B6388
12	88.9-101.6	3.1/2-4	B6101	B6401
12	101.6-127.0	4-5	B6127	B6427

To view demo of above machine please visit our below youtube link https://youtu.be/lF3KukjFGbQ (If you cannot click below then either copy and paste the same in the browser or scan below QR code)

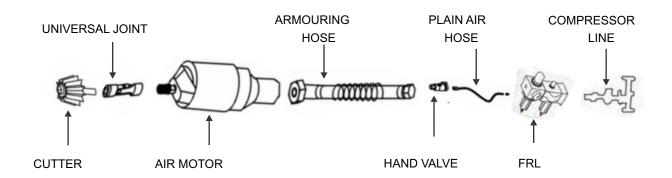


FEATURES

- The safe way to remove tough deposits form curved or straight tubes.
- Standard models available for 19 to 140 mm I.D. On request, BHARTIYA can supply heads for up to 500mm I.D. tubes.
- Recommended for all places where danger of explosion exits.
- Air-drive rotary motor 3000-6000 RPM under no load. No overheating Efficient. Very durable.
- Automatic cut-out with torque overload prevents tube wall damage.
- Self-cleaning heads. Air blast clears away loose scale; cools cutters heads.
- Versatile range of standard cutters.
- Air motor have a simle design with few moving parts, which provide trouble free operation with minimum of maintenance.

GENERAL ARRANGEMENT FOR PNEUMATIC TUBE CLEANER SYSTEM





ACCESSORIES FOR TURBINE STYLE TUBE CLEANERS



Armourd Hose

Armourd Hose is connected between spiral steel wire winding throughout the hose length.



Plain Hose:

It is located between Hand Valve, FRL / Compressor line. Standard ength of plain hose is 10 meter.



Hand Valve:

Hand Valve is device for controlling air pressure supply.



Circular Brush

Circular Brushes are more popular brushes with Air Motor. These brushes are connected to Air Motor by using either flexible extension or universal joint. The purpose of this brush for polishing, deburing and cleaning of tube



Flexible Extention:

It is compact device mainly used for bend/straight tube cleaning.



Universal Joint

It is small tool connected between air motor and circular brush for vertical straight tube cleaning.



FRL:

The main purpose of Filter Regulator Lubricator is filter compressed air, regulates its pressure and lubricate it with oil to protect inside parts of Air Motor from rusting.

ABOVE TUBE CLEANING SYSTEM IS ALSO KNOWN AS PIPE CUTTING EQUIPMENT OR ALUMINUM SIPHON TUBE CLEANERS.



CHILLER / CONDENSER TUBE CLEANERS

ELECTRIC TUBE CLEANERS ('BPC-5' SERIES)

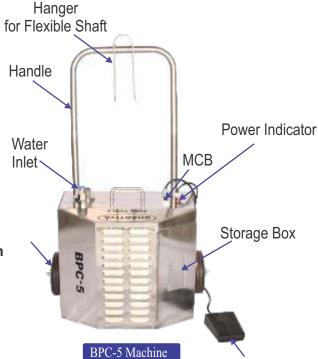
In **Electric Tube Cleaner**, the brushes or other cleaning tools are rotated through a tube at tip of flexible shaft. Simultaneously water gets injected, hence loosen deposits leaving tubes cleaned. Flexible shafts ensure use in bent tubes.

- 1. All models consist of tool storage box, single direction foot swithch, mobile dolly.
- 2 direction foot switch is optional.
- All units are available with following specifications

115v 60Hz, 115v 50Hz - 9 Amps 220v 60Hz, 220v 50Hz - 4.5 Amps

• While ordering, please mention electric specification

	Мо	tor	Tub	e ID	Speed
Model No.	HP	KW	INCH	MM	RPM
BPC-3	0.75	0.56	1/4 -1	6.4 - 25.40	910
BPC-4	1.00	0.75	1/4 -1.1/4	6.4 - 31.75	910
BPC-4S	1.00	0.75	1/4-1	6.4-25.40	1440
BPC-5	2.00	1.50	1/4-1.1/2	6.4-38.10	910
BPC-6	2.00	1.50	1/4-1.1/4	6.4-31.75	1440



To view demo of above machine please visit our below youtube link https://youtu.be/aVPd_Ifdjng (If you cannot click below then either copy and paste the same in the browser or scan below QR code)



Foot Switch

PORTABLE TUBE CLEANER: ('BPC-P' SERIES)

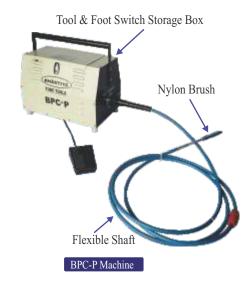
BPC-P is a portable machine which can be carried by technician on the move. Flexible shaftrotates at speed of 1740 rpm and water gets injected simultaneously through the nylon casing to the cleaning tool. As the tool removes the deposits, the water flow flushes them out. A solenoid valve ensures that water flows only when machine is running.

• All units are available with following specifications :

115 v 60 Hz, 115 v 50 Hz - 9 Amps 220 v 60 Hz, 220 v 50 Hz - 4.5 Amps

While ordering, please mention electric specification

Model No.	Motor		Tu	be ID	Speed
Model No.	HP	KW	INCH	MM	RPM
BPC-P	0.50	0.40	1/4 -1	6.4 - 25.4	1440
BPC-P1	1.00	0.75	1/4 -1	6.4 - 25.4	1440

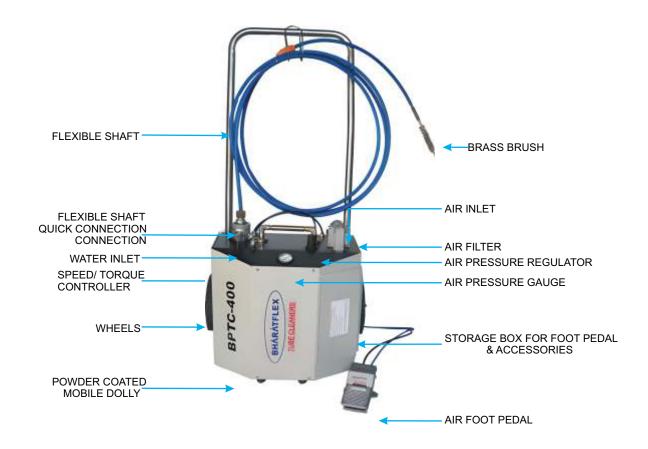




To view demo of above machine please visit our below youtube link https://youtu.be/Cvuk-ksSnuk (If you cannot click below then either copy and paste the same in the browser or scan below QR code)

PNEUMATIC TUBE CLEANERS: ('BPTC-400' SERIES)





Features

Shock Resistant - Excellent for applications where using electric equiment is hazardous.

Speed/Torque control - Shaft rotation can be set at optimum speed for each application.

Versatile - Interchangeability of different size flexible shaft and cleaning tools

No Tooling - Quick disconnect for flexible shafts.

Easy maneuverability - Large Wheels.

Cleanliness - Foot pendal for operator convenience to activate shaft rotation and water

flow to reduced water consumption and ckeaner working area.

Time Saving - Simultanneous water flush to remove deposits from tubes.

NOTE: As per the customer requirement, we can provide the machine with Stainless Steel Cover & Chasis

- BHARTIYA Model BPTC-400 Extra Heavy Duty Pneumatic Tube Cleaners Machine includes lubricator, regulator, air filter, adjustable speed/torqe control, mobile dolly, air foot pedal and tool storage box.
- The BPTC -400 uses a cleaning tool mounted to the tip of a flexible shaft, which is available in different lengths and diameters to fit the size of the tube to be cleaned. For wet applications as the shaft rotes inside at watertight nylon casing, the unit feeds water through the casing to the cleaning tool. A foot pedal controls shaft rotation and flow. while the operator feeds the rotating shaft assembly through the tube, the water flushes out deposits as they are loosened.

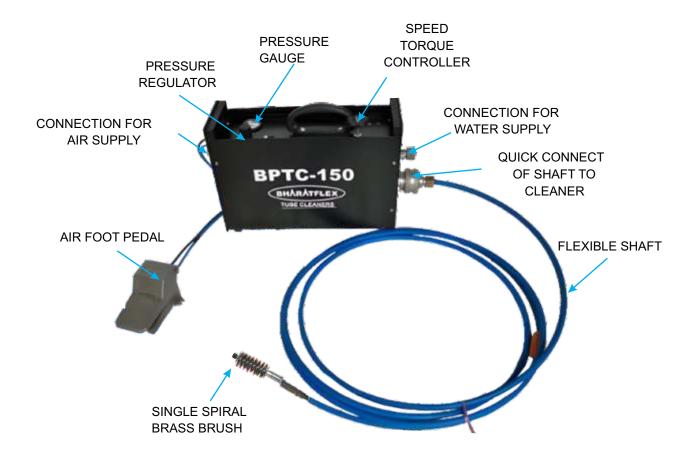
Tube I.D		Tube Cleaner Motor Power		Motor Speed	Air S	Air Supply Weight Dimension			Dimension			
MM	INCH	Model No.	HP	KW	RPM	Min	Max	LBS.	KG.	HIGH	WIDE	DEEP
6.4 - 38.1	1/4" - 1.1/2"	BPTC-400	4	3	0-3000	60psi @ 15cfm	90psi @ 70cfm	66	30	38"(975mm)	22"(560mm)	16"(406mm)

To view demo of above machine please visit our below youtube link https://youtu.be/TfL0u4z_yLA (If you cannot click below then either copy and paste the same in the browser or scan below QR code)



PORTABLE PNEUMATIC TUBE CLEANERS: ('BPTC-150' SERIES)





Features

- Shock Resistant Excellent for applicatrion where using electric equipment is hazardous.
- Versatile Interchangeability of different size flexible shafts and cleaning tools.
- Speed/Torque control Shaft rotation speed can be set at optimum for each application.
- No Tooling Quick disconnection for flexible shaft.
- Time saving Simultaneous water flush to remove deposits from tubes
- Cleanliness Foot pedal for operator's convenience to activate both shaft rotation and water flow to reduced water consumption and making working area clean.
- Compact Light weight easy to operate inside drum.

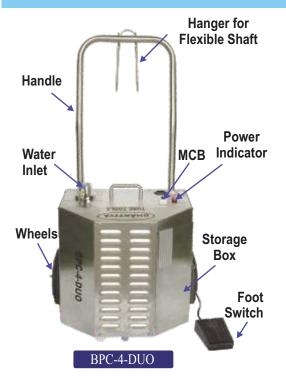
Model-**BPTC-150** Portable Pneumatic Tube Cleaning Machine includes **FRL** unit, adjustable speed control or torqe control, and air foot pedal. The **BPTC-150** uses a cleaning tool mounted on the tip of a flexible shaft, which is available in different lengths and diameter to fit the size of the tube to be cleaned. For wet applications as the shaft rotates inside its watertight nylon casings, the unit feeds water through the casing to the cleaning tool.

A foot switch controls shaft rotation and water flow. While the operator feeds the rotating shaft assembly through the tube, the water flow softens the deposits before cleaning and flushes them out during cleaning.

Tub	e I.D	Tube Cleaner	Moto	Power	Motor Speed	Air S	Supply	Wei	ght		Dimension	
MM	INCH	Model No.	HP	KW	RPM	Min	Max	LBS.	KG.	HIGH	WIDE	DEEP
6.4 & UP	1/4 & UP	BPTC-150	1.5	1	0-3000	60 psi @ 15cfm	90 psi @ 70cfm	33	15	10.3/8" (264mm)	6" (150mm)	19" (483mm)

ELECTRIC TUBE CLEANERS: ('BPC-4-DUO' SERIES)





In order to clean internally enhanced tube of chiller effciently, we introduced new series of electrically operated chiller tube cleaner machine with be directional foot switch & stainless steel mobile trolley. All our foot switches are air operated.

2 directiona foot switch is optional.

All units are available with following specifications:

- 115v60Hz, 115v50Hz-9Amps
- 220v60Hz, 220v50Hz-4.5Amps
- While ordering, please mention electric specifications.

Madal Na	М	otor	Tub	Speed	
Model No.	HP	KW	INCH	MM	RPM
BPC-4-DUO	1.0	0.75	1/4 -1	6.4-25.40	1440

FLEXIBLE SHAFTS:

For BPC-2 & BPC-3, Flexible Shaft with stainless steel inner core can be supplied if specified by client.

While ordering flexible shaft and accessories, each item should be ordered for specific tube/pipes size range.

Stainless steel inner core ensures our shafts have longest life, resistance to corrosion.

To order flexible shaft (s) determine tube I.D. & Length of longest tube (s). Order flexible shaft (s) to correspond with tube I.D.(s), & length. Please ask for special or longer length.



Tube IE) range	Flexible Shaft	Flexible sh	naft Length	Nylon Ca	asing O.D.	Inner C	ore O.D.	Tool End
MM	INCH	Model No.	FEET	MTRS.	INCH	MM	INCH	MM	Thread
6.4-9.5	1/4-3/8	NFSC-701-12	12	3.7	1/4	6.4	1/8	3.2	8-32 F
0.4-9.5	1/4-5/0	NFSC-701-25	25	7.6	1/4	0.4	1/0	0.2	0-32 1
		NFSC-702-12	12	3.7					
		NFSC-702-17	17	5.2					
11.1-12.7	7/16-1/2	NFSC-702-25	25	7.6	3/8	9.5	1/4	6.4	1/4-28 F
		NFSC-702-35	35	10.7					
		NFSC-702-45	45	13.7					
		NFSC-703-12		3.7					
		NFSC-703-17	17	5.2					1/4-28 F
		NFSC-703-25	25	7.6		12.7	5/16	7.9	
14.3-25.4	9/16-1	NFSC-703-35	35	10.7	1 /2				
		NFSC-703-45	45	13.7					
		NFSC-703-60	60	18.3					
		NFSC-703-75	75	22.9					
		NFSC-705-12	12	3.7					
22 4 20 4	7/0 / //0	NFSC-705-25	25	7.6	3/4	19.1	1/2	12.7	1/2-12 F
22.1-38.1	7/8-1.1/2	NFSC-705-35	35	10.7					
		NFSC-705-45	45	13.7					

FLEXIBLE SHAFTS

BHÂRTIYÂ
TUBE TOOLS

(Dry Application -Steel Casing) (25.4mm) I.D.and UP for tubes 1"

Tube I.D	. Range	Flexible Shaft	Flexible Shaft Length		Steel Casing O.D.		Shaft Core O.D.		Tool End	
MM	INCH	Model No.	FEET	MTRS	MM	INCH	MM	INCH	Thread	
		BFSC-706-12	12	3.7						
25.4	1	BFSC-706-25	25	7.6	22.2	7/8	12.7	1/2	1/2 - 12F	
and up	d up and up	BFSC-706-35	35	10.7	22.2	110	1/0 12.7 1/2	1/2 - 12F		
		BFSC-706-45	45	13.7						



FLEXIBLE SHAFT

FLEXIBLE SHAFTS REPAIR / MAINTENANCE

For NFSC-7 01, NFSC-702, NFSC-703 NFSC-704, NFSC-705 Flexible Shafts.

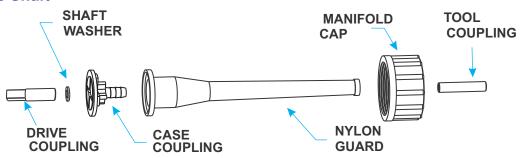
SHAFT REPAIR COUPLINGS

The life of flexible shafts can be extended by proper use and maintenance. If a flexible shaft should break at either end it can be easily repaired by cutting off the end portion and using a shaftrepair tool to attach a coupling onto the cut shaft.

Flexible Shaft Model	NFSC 701 / 702 / 703 / 705
Tool Coupling	TC-703
Casing Nipple	CN-703
Manifold Cap	MC-703
Shaft Washer	9/16x7/8
Drive Coupling	DC-703
Rubber Gasket	RG-703

For, NFSC-701, NFSC-702, NFSC-703, NFSC-704, NFSC-705 FLEXIBLE SHAFT

Flexible Shaft



MODEL BPC4-45 CHILLER TUBE CLEANING SYSTEM:

Model No. BPC4-45 chiller tube cleaning system uses a 3/4 HP motor for tougher deposits. Single direction foot switch is provided for cleaning internally enhanced tubes.

CONTENTS:

- BPC-4 Tube cleaners-1
- NFSC- 703-45 Flexible Shafts-2
- Nylon Brush (Specify size)-25
- Single Direction Air Foot Switch-1

Repairing kit for flexible shaft NFSC-703 consisting of 4 drive couplings, 4 tool end couplings, 1crimaping tool with punch, 1 flexible shafts lubricator and 2 bottles of lubricant Tubes.

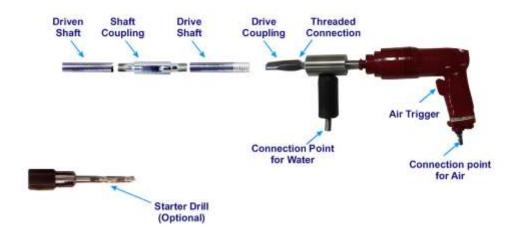


PNEUMATIC TUBE CLEANER (CHOKED TUBE



TUBE TOOLS

CHOKED TYPE PNEUMATIC TUBE CLEANERS



- Portable pneumatic tube cleaners used hollow air craft quality shaft of different diameters as per tube I.D. to be cleaned which can be coupled together to form length of the tube to be cleaned.
- Water flows through the hollow tube & flushes out deposits that are loosened by the cleaning tools attached
 to hollow shaft. Tools used for cleaning are carbide drills, for severly clogged tubes, brushes for light deposits
 & buffing tools for final polishing. The rotation of air motor & the water flow are controlled independently.

Model	Motor	Power	wer Tube ID		Speed	Air S	upply	Water Supply		Weight	
No.	HP	KW	INCH	MM	RPM	Min.	Max.	Min.	Max.	LBS.	KG.
BC - 20	0.6	0.45	3/16-1/2	4.8-12.7	700	60psi@16cfm	90psi@16cfm	30psi	100psi	5.72	2.6
BC - 750	1.2	0.90	1/4-2	6.40 - 51.0	1000	90psi@20cfm	90psi@40cfm	30psi	100psi	6.60	4.0

- Model BC-20 is generally used for oil coolers, small heat exchanger and condenser.
- Model BC-750 is generally used for large diameter tubes of process equipment condensers and heat exchanges.

PORTABLE PNEUMATIC TUBE-2 CLEANER ACCESSORIES

Hollow Drive Shaft - 4ft. (1.2m) long aircraft quality steel shafts to connect to drive.
 Model DS-300 to DS-500

Model DS-562 to DS-750

Hollow Drive Shaft - 4ft. (1.2m) long aircraft quality steel shafts to connect to drive.
 shafts. Order quantities based on length of tube to be cleaned.

Model DN-300 to DS-500

Model DN-562 to DS-750

• Drive Coupling - To Couple hollow drive shaft to drive.

Model DC-300 to DS-500

Model DC-562 to DS-750

Shaft Coupling - To couple 2 hollow shafts together.

Model SC-300 to SC-500

Model SC-562 to SC-750

• Starter Drill - To make pilot holes in deposits of completely clogged tubes.

Model SD-312 to SD-500

Model SD-562 to SD-750









CLEANING TOOLS SUCH AS NYLON/ BRASS/ SS SINGLE SPIRAL BRUSHES, BUFFING TOOLS, CARBIDE DRILLS ARE USED WITH CHOKED TYPE PNEUMATIC TUBE CLEANERS.





To view demo of above machine please visit our below youtube link https://youtu.be/d5o0KBIXWeQ (If you cannot click below then either copy and paste the same in the browser or scan below QR code)





CCESSORIES FOR TUBE C

BRUSHES



NYLON BRUSHES

Used for removing soft deposits in straight non-ferrous tubes (copper, plastic, etc.)



Used for removing soft and light scale deposits in straight, non-ferrous tubes.

STAINLESS STELL BRUSHES

Used for removing soft and light scale deposits in straight ferrous tubes. (carbon steel, stainless steel, etc).





Brass Brush



Stainless Steel Brush

- Brush should be equal to or 1/16" (1/16" (1.6mm) smaller than tube I.D.
- 9/16" 1" (14.3-25.4mm) brushes can be used for both clockwise and counterclockwise rotation.

Brus	h O.D.					
INCH	MM	Nylon Brush	Stainless Steel	Brass Brush	Threading	Coupling
1/4	6.4	SSB-N-204	SSB-SS-204	SSB-B-204	8 - 32F	P-1 (8 - 32M x 8 - 32M)
5/16	7.9	SSB-N-205	SSB-SS-205	SSB-B-205	8 - 32F	P-1 (8 - 32M x 8 - 32M)
3/8	9.5	SSB-N-206	SSB-SS-206	SSB-B-206	12 - 24F	P-2 (8 - 32M x 12 - 24M)
7/16	11.1	SSB-N-207	SSB-SS-207	SSB-B-207	1/4 - 28M	-
1/2	12.7	SSB-N-208	SSB-SS-208	SSB-B-208	1/4 - 28M	-
9/16	14.3	SSB-N-209	SSB-SS-209	SSB-B-209	1/4 - 28M	-
5/8	15.9	SSB-N-210	SSB-SS-210	SSB-B-210	1/4 - 28M	-
11/16	17.5	SSB-N-211	SSB-SS-211	SSB-B-211	1/4 - 28M	-
3/4	19.1	SSB-N-212	SSB-SS-212	SSB-B-212	1/4 - 28M	-
13/16	20.6	SSB-N-213	SSB-SS-213	SSB-B-213	1/4 - 28M	-
7/8	22.2	SSB-N-214	SSB-SS-214	SSB-B-214	1/4 - 28M	-
15/16	23.8	SSB-N-215	SSB-SS-215	SSB-B-215	1/4 - 28M	-
1	25.4	SSB-N-216	SSB-SS-216	SSB-B-216	1/4 - 28M	-

DRILL TIP DOUBLE DIAMETER BRUSHES

These brushes are used to clean internally enhanced tubes. The drill tip of brushes cleans through hard scalebefore the brush cleaning action takes over. The large diameter of this brush cleans into the grooves of the tubesand the small diameter into the lands of the tube's rifling.

SPIN-GRIT BRUSHES



Tube INCH	Spin-Grit Brushes			
1/4-3/8	6.4-9.5	BSGB-050		
7/16-9/16	11.1-14.3	BSGB-075		
5/8-11/16	15.9-17.5	BSGB-100		
3/4-1	19.1-25.4	BSGB-125		

Drill Tip Double Diameter Nylon Brush



Tube	e I.D.	Drill Tip	Drill Tip
INCH	MM	Nylon Brush	Brass Brush
5/8	15.9	DTBN-625	DTBB-625

These brushed used for removing soft and light scale deposits in straight, ferrous and non-ferrous tubes. The abrasive impregnated nylon bristles of this brush clean and polish tubes in one step. Unlike regular spiral brushes Spingrit is designed to be oversized in the tube so the brisrle lay over, putting the tube so the bristle lay over putting the abrasive in contact with the tube wall. Order brush to correspond with tube I. D.



POWER SPIN-GRIT BRUSHES

These brush are used for removing soft and light scale deposits in straight, ferrous and non-ferrous internally enhanced tubes. The small diameter end of each of each brush cleans into the grooves of the tube's rifling with the ends of the brush filaments. The large diameter end of the brush cleans the lands of the tube's rifling. as well as any prime surface, with the sides of the brush filaments. Order brush to correspond to tube I.D.



Lub	e I.D.	Power Spin-Grit			
INCH	MM	Brushes			
1/2	12.7	BPSGB-050			
5/8	15.9	BPSGB-062			
3/4	19.1	BPSGB-075			
1	25.4	BPSGB-100			

COLOR CODED SHOOT THRU SCRUBBERS

In most cases Hard Tube Scrubbers are recommended for removing light to medium deposits in condensers order.



Tube Scrubers by Model & Color

Tube I.	D	Scrubber				
INCH	MM	O.D. (INCH)	Model	Color	Type	
0.495-0.541	12.57-13.74	0.560	BTS-560-S	Yellow	Soft	
0.527-0.555	13.39-14.10	0.560	BTS-560	Yellow	Hard	
0.570-0.620	14.50-15.75	0.630	BTS-630-S	Brown	Soft	
0.590-0.630	15.00-16.00	0.630	BTS-630	Brown	Hard	
0.620-0.675	15.75-17.15	0.695	BTS-695-S	Red	Soft	
0.652-0.694	16.56-17.63	0.695	BTS-695	Red	Hard	
0.660-0.730	16.76-18.54	0.750	BTS-750-S	Purple	Soft	
0.710-0.750	18.03-19.05	0.750	BTS-750	Purple	Hard	
0.730-0.800	18.54-20.32	0.825	BTS-825-S	White	Soft	
0.777-0.819	19.74-20.80	0.825	BTS-825	White	Hard	
0.780-0.850	19.81-21.60	0.870	BTS-870-S	Green	Soft	
0.825-0.870	20.96-22.10	0.870	BTS-870	Green	Hard	
0.870-0.944	22.10-24.00	0.960	BTS-960-S	Blue	Soft	
0.886-0.950	22.50-24.13	0.960	BTS-960-M	Blue	Medium	
0.902-0.956	22.91-24.28	0.960	BTS-960	Blue	Hard	
1.000-1.085	25.40-27.56	1.100	BTS-1100-S	Black	Soft	
1.027-1.106	26.09-28.09	1.100	BTS-1100	Black	Hard	

CARBIDE DRILL for Plugged Tubes/Pipes

CARBIDE DRILL are used for cleaning straight tubes plugged solidly with deposits.



Carbide Drill

I.D.	Carbide
MM	Drill
6.4	BCB-025
9.5	BCB-037
11.1	BCB-043
12.7	BCB-050
14.3	BCB-056
15.9	BCB-062
17.5	BCB-068
	MM 6.4 9.5 11.1 12.7 14.3 15.9

Note: All drill run 10% oversize {e.g. CB-062 drill is .6875" (17.5mm) O.D.}

FLEX-HONE ABRASIVE TOOLS

Tube	e I.D.	Flex-Hone		
INCH	MM	Abrasive Tools		
1/4	6.4	BFHT-025		
5/16	7.9	BFHT-031		
3/8	9.5	BFHT-037		
7/16	11.1	BFHT-043		
1/2	12.7	BFHT-050		
9/16	14.3	BFHT-056		
5/8	15.9	BFHT-062		
11/16	17.5	BFHT-068		
3/4	19.1	BFHT-075		
7/8	22.2	BFHT-087		
1	25.4	BFHT-100		

FLEX-HOSE ABRASIVE TOOLS are light pressure, soft application honing devices for straight tubes. They consist of 180 grit silicon carbide abrasive globules (stones) bonded to high density nylon filaments. They are flexible, self-compensating for wear. Their unbreakable stones are formulated to provide for a long lasting, consistent finish. Order tool to correspond to tube I.D.

Note: Flex-Hone Abrasive Tools are normally used with a water flush for maximum life.



Flex-Hose Abrasive Tools



OL

These tools have either a cap brush, wheel brush or grinding tip attached to a 20"(508.0mm) piece of flexible shaft. They are designed to the bends of a U-tub from each side to clean the U-portion from both sides.

Tube	Cup Brush	
INCH	MM	Tools
1/2-3/4	12.7-19.1	BCS-075B
1/2-3/4	12.7-19.1	BCS-075S

Tube	Wheel Brush		
INCH	MM	Tools	
1/2-3/4	12.7-19.1	BCW-075B	
13/16-1	20.6-25.4	BCW-100B	
1/2-3/4	12.7-19.1	BCW-075S	
13/16-1	20.6-25.4	BCW-100S	





Note: U-Tube tool is also available with cobalt Grinding Tip.

BRUSHES

NYLON BRUSHES Recommended for removing soft deposits (Mud, algae. etc.) In straight, non-ferrous tubes. (Copper, Brass, Plastic, etc.) Order brush to correspond to tube I.D.

BRASS BRUSHES Recommended for removing soft and light scale deposites In straight, non-ferrous tubes. Order brush to correspond to tube I.D.

STAINLESS STEEL BRUSHES Recommended for removing soft and light scale deposits. In straight, non-ferrous tubes. (Carbon steel, stainless steel, etc.) Order brush to correspond to tube I.D.



Nylon Brush



Brass Brush



Stainless Steel Brush

Brush	n O.D.	Nylon	Brass	Stainless
INCH	MM	Brush	Brush	Steel
1.1/4	31.7	SSB-N-012	SSB-B-012	SSB-S-012
1.1/2	38.1	SSB-N-015	SSB-B-015	SSB-S-015
1.3/4	44.5	SSB-N-017	SSB-B-017	SSB-S-017
2	51.0	SSB-N-020	SSB-B-020	SSB-S-020
2.1/4	57.1	SSB-N-022	SSB-B-022	SSB-S-022
2.1/2	63.5	SSB-N-025	SSB-B-025	SSB-S-025
2.3/4	70.0	SSB-N-027	SSB-B-027	SSB-S-027
3	76.2	SSB-N-030	SSB-B-030	SSB-S-030
3.1/4	82.6	SSB-N-032	SSB-B-032	SSB-S-032
3.1/2	89.0	SSB-N-035	SSB-B-035	SSB-S-035
3.3/4	95.2	SSB-N-037	SSB-B-037	SSB-S-037
4	101.6	SSB-N-040	SSB-B-040	SSB-S-040

Brus	h O.D.	Carbon	Plastic	
INCH	MM	Brush	Brush	
5	127.0	CS - 050	P - 050	
6	152.4	CS - 060	P - 060	
7	178.0	CS - 070	P - 070	
8	203.2	CS - 080	P - 080	
9	228.6	CS - 090	P - 090	
10	254.0	CS - 100	P - 100	
11	279.4	CS - 110	P - 110	
12	305.0	CS - 120	P - 120	
13	330.2	CS - 130	P - 130	
14	355.6	CS - 140	P - 140	

CARBON STEEL BRUSHES

Recommended for removing soft and light scale deposits in straight, ferrous tubes. Order brush to correspond to tube I.D.

PLASTIC BRUSHES

Recommended for removing soft and light scale deposits in straight, ferrous tubes. Order brush to correspond to tube I.D.

BHÂRTIYÂ TUBE TOOLS



Carbon Steel Brush



Plastic Brush



Power Spin-Grit Brush

POWER SPIN-GRIT BRUSHES

Recommended for removing soft and light deposits in straight, ferrous and non-ferrous internally enhanced tubes. The small diameter end of each brush cleans into the grooves of the tube' rifling with the ends of the brush filaments. The large diameter and of the brush cleans the lands of the tube's rifling, as well as any prime surfaces, with the sides of the brush filaments. Order brush to correspond to the I.D.

PSGB-100 Power Spin-Grit Single Spiral Brush for tubes 1" (25.4mm) I.D.

PSGB-125 Power Soin-Gril Single Spiral Brush for tubes 1.1/4" (31.7mm) I.D.

Note: Brushes over 1" O.D. Require # TCB-C Coupling to connect to NFSC-705, & NFSC-706 Shafts (over couplings supplied with brush order.)

WHEEL BEUSH ASSEMBLIES: To order Wheel Brush Assemblies refer to the table below listing the types of tubes to be cleaned straight or curved.

STRAIGHT TUBE WHEEL BRUSH ASSEMBLIES

Recommended for removing soft and light scale deposits (rust, soot, algae, etc.)In straight tubes. Each assembly consists of four stainless steel wire wheel brushes attached to a universal joint. Brushes should be 1/8" - 1/4" (3.2-6.4mm) smaller than tube I.D. Replacement brush elements are available as shown in table below.



Curved T	ube I.D.	Wheel Brush	Actual Br	ush O.D.	Replacement	Replacement	Replacement
INCH	MM	Assembly	INCH	MM	Brushes (2 req.)	Universal Joint	Retainer Bolt
1.1/8-1.1/4	28.6-31.7	WBS-100	1	25.4	WBR-100	CUJ-001	SWB-001
1.3/8-1.1/2	36.0-38.1	WBS-125	1.1/4	31.7	WBR-125	CUJ-001	SWB-001
1.5/8-1.3/4	41.3-44.5	WBS-150	1.1/2	38.1	WBR-150	CUJ-001	SWB-001
1.7/8-2	47.6-51.0	WBS-175	1.3/4	44.5	WBR-175	CUJ-002	SWB-002
2.1/8-2.1/4	54.0-57.1	WBS-200	2	51.0	WBR-200	CUJ-002	SWB-002
2.3/8-2.1/2	60.3-63.5	WBS-225	2.1/4	57.1	WBR-225	CUJ-002	SWB-002
2.5/8-2.3/4	66.7-70.0	WBS-250	2.1/2	63.5	WBR-250	CUJ-002	SWB-002
2.7/8-3	73.0-76.2	WBS-275	2.3/4	70.0	WBR-275	CUJ-002	SWB-002
3.1/8-3.1/4	79.4-82.6	WBS-300	3	76.2	WBR-300	CUJ-002	SWB-002

Note : For larger sizes consult factory.

CURVED TUBE WHEEL BRUSH ASSEMBLIES

Recommended for removing soft and light scale deposits (rust, soot, algae, etc.) In straight tubes. Each assembly consists of four stainless steel wire wheel brushes attached to a universal joint. Brushes should be 1/8" - 1/4" (3.2-6.4mm) smaller than tube I.D. Replacment brush elements are available as shown in table below.



Curved Tube Wheel Brush Assembly



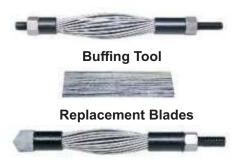
Curved ⁻	Tube I.D.	Wheel Brush	Actual Br	ush O.D.	Replacement			Replacement
INCH	MM	Assembly	INCH	MM	Brushes (two req.)	Universal Joint	Retainer Bolt	
1.1/4-1.3/8	31.7-35.0	WBC-100*	1	25.4	WBR-100	CUJ-003*	CWB-001	
1.1/2-1.5/8	38.1-41.3	WBC-125*	1.1/4	31.7	WBR-125	CUJ-003*	CWB-001	
1.3/4-1.7/8	44.5-47.6	WBC-150*	1.1/2	38.1	WBR-150	CUJ-003*	CWB-001	
2-2.1/8	51.0-54.0	WBC-175	1.3/4	44.5	WBR-175	CUJ-002	CWB-002	
2.1/4-2.3/8	57.1-60.3	WBC-200	2	51.0	WBR-200	CUJ-002	CWB-002	
2.1/2-2.5/8	63.5-66.7	WBC-225	2.1/4	57.1	WBR-225	CUJ-002	CWB-002	
2.3/4-2.7/8	70.0-73.0	WBC-250	2.1/2	63.5	WBR-250	CUJ-002	CWB-002	
3-3.1/8	76.2-79.4	WBC-275	2.3/4	70.0	WBR-275	CUJ-002	CWB-002	
3.1/4-3.1/2	82.6-89.0	WBC-300	3	76.2	WBR-300	CUJ-002	CWB-002	

Note: For larger sizes consult factory.

Note: BPTC-706 Coupling required to connect BPFS-720

ans BPFS-721 & BPF-821 fkexible shafts.

BUFFING TOOLS FOR Tubes/Pipes 1"-3" (25.4-76.2mm) I.D. Stainless Steel Wire Buffing Tool are used for light to medium scale deposits of for finishing tubes previously "roughed out" with other cleaning tools. They can be used in both ferrous and non-ferrous tubes. Buffing tool are normally used in straight tubes but will go through very large radius bends.



Buffing Tool with Drill Tip

BPTC-223 Adjustable Buffing Tools for tubes 1"-3" (25.4-76.2mm) I.D.

BPTC-223DT Adjustable Buffing Tools for tubes 1"-3" (25.4-76.2mm) with drill up.

BPTC-224 Replacement Blades for BPTC-223.

CARBIDE DRILLS For Plugged Tubes/Pipes Carbide Drills are used for cleaning straight tubes plugged solidity with scale or deposit.



Tube	e I.D.	Carbide		
INCH	MM	Drill		
3/4	19.1	BCB-075		
7/8	22.2	BCB-088		
1	25.4	BCB-100		

Carbide Drill

Note: All drills run 10% oversize [e.g. CB-015 Drills is 0.825" (21.0mm) O.D.]

FLEX-HONE ABRASIVE TOOLS For Tubes/Pipes 1.1/4" (31.7mm) I.D. and UP Flex-Hone Abrasive Tool are light pressure, soft application honing devices for straight tubes. They consist of 180 grit silicon carbide abrasive globules (stones) bonded to high density nylon filaments.

They are flexible, self-contering, self-aligning and self compensating for wear. Their unbreakable stones ard formulated to provided for a long lasting, consistent finish. Order tool to correspond to tube I.D.



Flex-Hone Abrasive Tool

Note: For larger sizes consult factory. Flex-Hone Abrasive Tools are used with water flush for maximum life

	Tubo	1.0.	Flex-Hone		
	INCH	MM	Abrasive Tools		
	1.1/4	31.7	FHT-125		
	1.1/2	38.1	FHT-150		
	1.3/4	44.5	FHT-175		
	2	51.0	FHT-200		
	2.1/4	57.1	FHT-225		
	2.1/2	63.5	FHT-250		
	2.3/4	70.0	FHT-275		
	3	76.2	FHT-300		

Tube I.D.

CONE CUTTER ASSEMBLIES Cone Cutter Assemblies are used for removing scale from curved and straight tubes. Assemblies are slightly smaller then tube I.D. Scale is cut at the smaller tapered end finished at the larger end. The rotation of the tool ensures a through cleaning. In water tube boiler, cone cutters are the most effective cleaning tools for all conditions. To order refer to the tables below.



SINGLE AND DOUBLE CONE ASSEMBLIES

Assemblies consisting of one or two cone elements are used for cleaning straight tubes 1.1/8"-2.5/16" (28.6-58.7mm) I.D. And curved tubes 11/4" - 2.3/8" (31.7-60.3mm) I.D.

Straight ⁻	Tube I.D.	Curved To	urved Tube I.D. Complete Single Cone		Complete Double Cone	Cone	Cone Max Replacement Cone Only	Universal Joint	Single Cone Bolt	Double Cone Bolt	
INCH	MM	INCH	ММ	Assembly	Assembly INCH M	MM	,	55		Como Bon	
1.1/8-1.1/4	28.6-31.7	1.1/4-1.3/8	31.7-35.0	BSCA-100	BDCA-100	1	25.4	RCO-100	CUJ-001	CRB-001	DCB-001
1.5/16-1.3/8	33.3-35.0	1.1/2-1.5/8	38.1-41.3	BSCA-112	BDCA-112	1.1/8	28.6	RCO-112	CUJ-002	CRB-002	DCB-002
1.7/16-1.1/2	36.5-38.1	1.3/4-1.7/8	44.5-47.6	BSCA-125	BDCA-125	1.1/4	31.7	RCO-125	CUJ-002	CRB-002	DCB-002
1.9/16-1.3/4	39.7-44.5	2-2.1/8	51.0-54.0	BSCA-150	BDCA-150	1.1/2	38.1	RCO-150	CUJ-002	CRB-002	DCB-002
1.13/16-2	46.0-51.0	2.1/4-2.3/8	57.1-60.3	BSCA-175	BDCA-175	1.3/4	44.5	RCO-175	CUJ-002	CRB-002	DCB-002
2.1/16-2.5/16	52.4-58.7			BSCA-200	BDCA-200	2	51.0	RCO-200	CUJ-002	CRB-002	DCB-002









Replacement Cone

Single Cone Assembly

Double Cone Assembly

Disc Cone Assembly

DISC CONE ASSEMBLIES Assemblies consisting of three cones are used for cleaning straight tubes 2.3/8-3.3/4"(60.3-95.2mm) I.D. and curved tubes 2.1/2-4" (63.5-101.6mm) I.D.

Straight T	ube I.D.	Curved To	ube I.D.	Complete Disc Cone	Replacement Cone Only	Disc Only	Universal	Cone Retainer Bolt
INCH	MM	INCH	MM	Assembly	(three req.)	(less cones)	Joint	(three req.)
2.3/8-2.13/16	60.3-71.4	2.1/2-3.1/16	63.5-77.8	BDC-101	PCO-100	PCD-101	CUJ-002	CRB-001
2.7/8-3.5/16	73.0-84.1	3.1/8-3.5/8	79.4-92.1	BDC-102	PCO-100	PCD-102	CUJ-002	CRB-001
3.3/8-3.3/4	85.7-95.2	3.11/16-4	93.7-101.6	BDC-103	PCO-112	PCD-102	CUJ-002	CRB-002

FLEX HUB TOOLS Flex Hub Tools use centrifugal force activated blades for removing hard and heavy deposits in straight or curved tubes. A drill can be attached to the front of the BPTC-227 or BPTC-231 Flex Hub to severely clogged tubes.

Straight Tube I.D.		Curved	Flex Hub	
INCH	MM	INCH	MM	Assembly
7/8-11/2	22.2-38.1	1-1.3/4	25.4-44.5	BPTC-226
1.1/2-2	38.1-51.0	1.3/4-2.1/2	44.5-63.5	BPTC-231
1.3/4-3	44.5-76.2	2.1/2-3	63.5-76.2	BPTC-227



=

Flex Hub Assembly

Replacement Blades

Universal Joint

Carbide Drill

BPTC-223 Replacement Blades for BPTC-226 (set of three).

BPTC-231A Replacement Blades for BPTC-231 (set of three).

BPTC-227A Replacement Blades for BPTC-227 (set of three).

CB-088 Drill to be attached to **BPTC-227** Flex Hub Assembly for use when tubes are severely clogged. **CB-075** Universal Joint for use with above Flex Hub Assembly for use when tubes are severely clogged. **CUJ-002** Universal Joint for use with ablve Flex Hub Assemblies when minimum tube bend radius is less than 5xtube I.S. (Consult factory)

DRILL CONE ASSEMBLIES For Plugged Tubes/Pipes 1"-1.7/8" (25.4-47.6mm)I.D.

Drill//Cone Assemblies are recommended for cleaning straight tubes plugged solidly with deposits. Order assembly to corresponded to tube I.D. All drill run 10% oversize.



Tub	Drill Cone	
INCH	INCH MM	
1	25.4	DC-100
1.1/8	28.6	DC-112
1.1/4-1.3/8	31.7-35.0	DC-125
1.1/2-1.5/8	38.1-41.3	DC-150
1.3/4-1.7/8	44.5-47.6	DC-175



Drill/Cone Assembly

ROTATING CUTTING WHEEL TOOLS For Tubes/Pipes 1.1/2"-3.15/16" (38.1-100.0mm) I.D. Rotating Cutting Wheel Tools incorporate self-centering, centrifugally activated serrated cutting wheels for removing light to heavy deposits in straights or curved tubes, typically in boilers.

Tube	Cutting Wheel	
INCH	INCH MM	
1.1/2-1.13/16	38.1-46.0	BRCW-150
1.7/8-2.3/16	47.6-55.6	BRCW-187
2.1/4-3.1/8	57.1-79.4	BRCW-225
3.3/16-3.15/16	81.0-100.0	BRCW-312



Rotating Cutting Wheel Tools

CW-062 Replacement Cutting Wheel for BRCW-150 OR BRTC-187.
CW-093 Replacement Cutting Wheel for BRCW-225 OR BRTC-312.

FLARE CONE TOOLS For Tubes/Pipes 1.3/4"-6.1/2" (44.5-165.1mm)I.D. (Rigid Arm)

Rigid Arm Flare Cone Tools incorporate centrifugal force activated, cones for removing light to heavy deposits in straight tubes.

Tub	Flare Cone		
INCH	INCH MM		
1.3/4-4	44.5-101.6	BFCT-300	
4-6.1/2	101.6-165.1	BFCT-301	

Rigid Arm Flare Cone Tool



Flexible Arm Flare Cone Tool

BRCO-100 Replacement Cone (three required). **BCRB-001** Replacement Cone Retainer Bolt (three required).

For Tubes/Pipes 4"-12 (101.6-305.0mm) I.D. (Flexible Arm)

The Flexible Arm Flare Cone Tool incorporates centrifugal force activated cones for removing light to heavy scale deposits in straight or curved tubes. Use typically in vertical tubes.

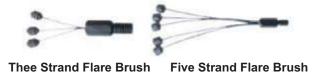
BFCT-600 Flexible flare Cone Tool 4"-12 (101.6-305.0mm)I.D.

BRCO-001 Replacemnet Cone (six required).

BCRB-001 Replacement Cone Retainer Bolt (six required).

FLARE BRUSHES For Tubes/Pipes 1"-8" (25.4-203.2mm) I.D. Flare Brushes incorporated centrifugal force activated wire cobalt tips for light descaling and polishing of straight or curved tubes.

Tube	Flare			
INCH	INCH MM			
1-2	25.4-51.0	BFBT-301		
2-4	51.0-101.6	BFBT-501		
4-8	101.6-203.2	BFBT-502		



NOTE: We also manufacture Universal Nylon Rod Tool.

HIGH PRESSURE WATER JET CLEANER



HIGH PRESSURE WATER JET CLEANING MACHINE AND PUMP

SHINGARE INDUSTRIES PVT. LTD. is specialized in Designing, Manufacturing, Marketing and Servicing of High Pressure Pump for various applications in all industrial segments.

The Pumps are designed and manufactured indigenously under strict quality control and also supported by a prompt after sales services. The Pump units are complete with Prime Mover (Electric Motor / Diesel or Gas Engine), Speed Reduces (Pulley drive / Gear Box), Control Panel, Standard accessories like relief valve, pressure gauge and regulating valves. Mountings either on Base plate Oil field Skid, or Trailers depending on customer requirements.

WATER JETTING MACHINE



COMPACT

High Pressure water jet machine, are used for hundreds of various cleaning applications in almost all types of industries around the world. Our High Pressure cleaners are designed & manufactured with latest European technologies with superior quality materials.

Compact Model No.	Maximum Pressure (BAR/PSI)	Water Flow Rate (LPM)	Motor Power HP	Power
C-12010	120/1740	10	3	Single Phase
C-13010	130/1885	10	5	Single Phase
C-10015	100/1450	15	5	Three Phase
C-15030	100/1450	30	5	Three Phase
C-15015	150/2175	15	5	Three Phase
C-20021	200/2900	21	21	Three Phase
C-25021	250/3625	21	21	Three Phase
C-35021	350/5075	21	21	Three Phase
C-400/15	400/5800	15	15	Three Phase

HIGH PRESSURE WATER JETTING MACHINE



450 T0 1400 BAR

high-pressure water jetting machines are used for Heat Exchanger, Condenser, Evaporator, Calendria, Boiler etc. in various industries like textile, pharmaceutical, steel, chemical, refineries and many more.





MODEL NO.	MAXIMUM PRESSURE (BAR/PSI)	WATER FLOW RATE (LPM)	MOTOR POWER (HP)	POWER
BHP-40015E	400/5800	15	15	3 Phase
BHP/50030E	500/7250	30	40	3 Phase
BHP/60045E	600/8700	45	60	3 Phase
BHP/75035E	750/10875	35	60	3 Phase
BHP/100040E	1000/14503	40	100	3 Phase
BHP/110052E	1100/15955	52	150	3 Phase
BHP/120053E	1200/17405	52	200	3 Phase

ACCESSORIES:

High Pressure Hose:

Specially designed to withstand high pressures, Swivel connector for easy connection. To connect pump delivery line to Foot Operated Valve.



Pressure Regulating Valve:

Regulate output pressure as required bypass excess water.



Safty Valve:

Intentionally designed weak part to avoid major loss provide over pressure protection



Nozzle(Straight,Forward,Backward Firing Nozzels)

Highly effective and time saving than conventional. For surface cleaning, cutting and general applications. Backward firing nozzle mainly used For effective cleaning of tubes.



Flexible Lance:

To connect Foot Operated Valve to Nozzle specially designed to withstand high pressures.small diameter pipes to easily enter inside ID of tubes.



Floot Valve:

To start-stop and control water flow through foot of operator, while keeping his hands free for the in-out movement of flexible lance inside tubes. Its necessary for Operator safety to avoid any accident.



Rigid Lance:

Made up of SS material, For easy & firm grip to counter the back pressure at the time of in & out of nozzle.



To view demo of above machine please visit our below youtube link https://youtu.be/g7TbkXPQZ5k (If you cannot click below then either copy and paste the same in the browser or scan below QR code)

HOT & COLD WATER JETTING MACHINE



High pressure water jet machine uses to remove oil, mold, grime, dust, mud and dirt from surfaces and objects such as buildings, vehicles and concrete road surfaces.

ESTILO MODEL NO.	ES - 12010	ES - 15015	ES - 20015
Pressure	120 bar	150 bar	200 ba
Flow Rate	10 LPM	15 LPM	15 LPM900 I/h
Max Water Temp.	0-130°C	0-130°C	0-130°C
Motor Revolution	1450 RPM	1450 RPM	1450 RPM
Power Supply	230V - 50 Hz	400V - 50 Hz	400V - 50 Hz
Motor Power	3 HP	5,5 HP	7,5 HP
Dimensions mm	880 x 590 x 730	880 x 590 x 730	880 x 590 x 730
Diesel Tank Capacity	14 IT	14 IT	14 IT
Weight	114 Kg	118 Kg	125 Kg



FEATURES:

- Stainless Steel Boiler
- Triplex pump with ceramic plungers, connecting rod system
- Brass pump head
- Automatic by-pass valve
- Pressure gauge
- Built-in detergent suction
- Boiler shut-down delayed circuit
- With safety pressure switch to shutdown the boiler in case of lack of water
- Induction Three Phase motor with thermal protector
- Thermostat

- Detergent tank 4/5L
- Vertical stainless steel boiler cooling function driven by independent electric motor, double heating coil with refractory cement base.
- 5m Electric cable
- Diesel tank 15L, with discharge plug
- Water and diesel filters
- TSS, remote control for shutdown of high pressure cleaner
- Adjust high/low pressure and fan/pencil iet spray head
- Accessories Holder

ACCESSORIES:

Suction Hose:

Are available for all discharge capacities in standard lengths. They are either nylon type or wire braided type.



Available in standard lengths with hydraulic high pressure BSP connections for working pressures from 2,000 PSI to 20,000PSI.

ON/OFF Gun Rigid Lance and Nozzles:

These are the portable guns used for light duty small high pressure portable cleaners, manually controlled by use of trigger.







BOILER TUBE EXPANDER



'BA' SERIES (3 PLAIN ROLLERS)



(PARALLEL TYPE TUBE EXPANDER)

Sizes Available : 7/8" O.D. to 4½" O.D. Models Available : BA-31 to BA-102

FEATURES:

Time tested, durable design. Sturdy construction with rolls self contained in cage. Best 'Value for Money' tool in the world when parallel rolling tubes.



(4 Plain Rollers & 2 Flare Rollers) Sizes Available : 2" O.D. to 4½" O.D.

FEATURES:

Overlapping rolls prevent ridging of tube. Can be converted for parallel expansion use enquire with us. Self retained rolls in cage.

Use: General purpose expander for expanding and flaring boiler tubes, water wall, downcomer, economizer, riser, & air heater tubes.

LONG REACH 'BCSB' SERIES

(Parallel Type- 5 Plain rollers)



FEATURES:

'5-Roll' Design is used primarily for rolling thin walled tubes used in sugar mill pan, juice heaters etc. '5-Roll' gives a more concentric, uniform expansion vs a 3 roll expander in thin tubes & reduces spring back action. Time tested, durable design.

Use - For **BOTTOM** plate tube expansion in pan, juice heaters in sugar mills.

('BCSB' TUBE EXPANDER WITH 5-Plain rollers)

Sizes Available : 1.1/2" O.D. to 4½" O.D. Models Available : BCSB-5 TO BCSB-24.

'BAF3' SERIES (3 PLAIN ROLLERS, 3 FLARE ROLLERS)



(FLARE TYPE TUBE EXPANDER)

Sizes Available : 7/8" O.D. to 4½" O.D. Models Available : BA-31 to BA-102

FEATURES:

Time tested, durable design.

Sturdy construction with rolls self contained in cage. Best 'Value for Money' tool in the world when parallel rolling tubes.

Use - Economical tool used for applications where tubes are to be expanded with flaring.

'BSB' SERIES



(TUBE EXPANDER WITH 5-Plain rollers)

Sizes Available : 1.1/2" O.D. to $4\frac{1}{2}$ " O.D. Models Available : BSB-00A TO BSB-27C

FEATURES:

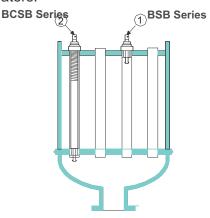
'BSB' SERIES (Parallel Type- 5 Plain rollers)

'5-Roll' Design is used primarily for rolling thin walled tubes used in sugar mill pan, juice heaters etc.

'5-Roll' gives a more concentric, uniform expansion vs a 3 roll expander in thin tubes & reduces spring back action.

Time tested, durable design.

Use: For **TOP** Plate Tube Expansion in Pan, Juice heaters.



NOTE: We also manufacture other series of tube expander such as BAB, BABF3, B-1000, B-3000, combination beading Type tube expander. We can also design & manufacture tube expander for tube OD up to 250mm (10") or more.

CONDENSER TUBE EXPANDER



'B900' SERIES



Sizes Available: 1/4" O.D. To 3/8" O.D.

Tube Internal diameter:

3.8mm (0.152") to 8.4mm (0.331") Roller Length of Tube Expander: 3/4" (19.05mm) & 1.1/4" (31.75mm)

FEATURES:

This tool has been the work horse for several years for use on small diameter tubes.

Use - Oil coolers, Radiators, & other apparatus with small.

'B800' SERIES



Sizes Available: 1/2" O.D. to 1.1/2" O.D.

Tube Internal diameter:

8.4mm (0.334") to 36.3mm (1.43") Roller Length of Tube Expander: 1.1/2" (38.1mm) & 2.1/4" (57.1mm)

FEATURES:

Use -This is the most popular expander for use on heat exchangers and condensers with tubes of $\frac{1}{2}$ " - 1.1/2" O.D.

TUBE SHEET ADJUSTABLE RANGE:

FOR 1.1/2" ROLLER LENGTH: 1 /2" to 1.1/2" FOR 2.1/4" ROLLER LENGTH: 1.1/4" to 2.1/4"

'B8012' SERIES



Sizes Available : 1.3/4" O.D. to 8" O.D.

Tube Internal diameter:

36.1mm (1.420") to 190mm (7.48")

Roller Length of Tube Expander: 2.1/4" 57.1mm)

FEATURES:

Use -This is recommended to expand tubes in air heaters boilers, & refinery still tubes. Can be used to expand thick tube sheets (Upto 8") TUBE SHEET ADJUSTABLE RANGE:

FOR 2.1/4" ROLLER LENGTH: 1 /2" to 8"

'B1300' SERIES



Sizes Available : 3/8"

Tube Internal diameter:

5.8mm (0.231") to 8.4mm (0.331") Roller Length of Tube Expander: 3/4" (19.05mm) & 1.1/4" (31.75mm)

FEATURES:

Use - Oil coolers, Radiators, & other apparatus with small diameters tubes & thick tube sheets.

NOTE: All 'B1300' series expanders come with 1/4" square mandrel drives. Round mandrel drives are optional.

'B1200' SERIES LONG REACH



Sizes Available: 1/2" O.D. to 1.1/2" O.D.

Tube InternI diameter:

8.4mm (0.334") to 36.3mm (1.43") Roller Length of Tube Expander: 1.1/2" (38.1mm) & 2.1/4" (57.1mm)

FEATURES:

Use -This is recommended for heat exchanger & condenser with tubes of 5/8"- 1.1/2" O.D. & thick tube sheets.

TUBE SHEET ADJUSTABLE RANGE:

FOR 1.1/2" ROLLER LENGTH: 1.1 /2" to 12" FOR 2.1/4" ROLLER LENGTH: 2.1/4" to 12.3/4"

VERNAN TUBE EXPANDER



Sizes Available : a.½"- 2" O.D.

Tube Internal diameter:

8.22mm (0.324") to 50.8mm (2")

FEATURES:

Use -This is recommended to expand Stainless Steel thick tubes in heat exchanger having tube sheet up to 2.1/2"(63.5mm)

TUBE SHEET ADJUSTABLE RANGE:

FOR 2.1/4" ROLLER LENGTH: 1 /2" to 8".

TUBE EXPANSION MACHINE



TUBE ROLLING CONTROL

TORQUE CONTROLLED TUBE EXPANSION SYSTEM: (Wattage Based)

- 01. Fully Solid State Design no moving parts no wear and tear no noise consequently long life.
- 02. Uses the latest micro-controller chip for control functions.
- 03. Uses one main circuit board for easy maintenance.
- 04. Accurately calibrated digital torque setting with a resolution of 1 watt makes torque settings accurate and can be easily reproduced for identical results.
- 05. Connected drive is automatically recognized & indicated by means of LED on the torque controller.
- 06. Soft start has been provided for all drives, which reduces starting currents in the drive. As a result, life of Carbon brushes & drive increases.

Model No.	Voltage Single Phase 50/60 Hz	Weight (KG)
TCW-09-110	110 V	11.0
TCW-09-230	230 V	11.0



Note:

Use Voltage Stabilizers with TCW torque controllers. All TCW torque controllers are supplied with operation manuals.

ELECTRIC TUBE EXPANSION SYSTEM:

Electrically Operated Drive Units For Wattage Based Tube Expansion Machine

FEATURES:







- 1. It consists of heavy duty German Made motors.
- 2. Continuous cycle operation vs. Intermittent cycle operation of drives from other manufactures.
- 3. High torque to weight ratio.

DRIVE MODEL		NO LOAD	EXPANS	SION RANGE	FULL CURREN		DRIVE
230V	110V	SPEED R.P.M.	S. STEEL TUBE O.D.	COPPER TUBE O.D.	230V	110V	WEIGHT KGS.
MPG-0N	MPG-0L	2800	6 to 10	6 to 12	2.6	2.6	2.0
MPG-1N-I MPG-1N-II	MPG-1L-I MPG-1L-II	1000 1900	10 to 16 8 to 13	13 to 20 11 t o16	6.0	6.0	2.5
MPG-2N-I MPG-2N-II	MPG-2L-I MPG-2L-II	480 1080	16 to 45 16 to 32	16 to 50 16 to 38	12.0	12.0	7.5
MPG-3N-I MPG-3N-II	MPG-3L-I MPG-3L-II	130 430	25 to 76 25 to 50	25 to 102 25 to 76	12.0	12.0	8.5

VOLTAGE STABILIZER / TRANSFORMERS:

FEATURES:

- * Digital display of output voltage.
- * Used in on site application and areas which has high voltage fluctuations.

Note: We also supply current based Electric Tube Expansion system. Any query, please contact us.



TUBE ROLLING CONTROL

HYDRAULIC TUBE EXPANSION SYSTEM

FEATURES:

- 1. Drive communicates with the pump via 9v DC remote control. This ensures safety & Eliminates the need of electrical
- 2. Compatibility- Same power pack for all 4 drives to expand 5/8" OD to 4" OD tube.
- 3. Very high Torque developed- can expand large diameter, thick wall tubes in thick tube sheets easily.
- 4. Boiler erections get completed in record time.
- 5. Can be use for long working hours because drive is unaffected by heat.
- 6. Dual drive power pack is available to connect 2 drives to single power pack to cut down tube expansion time by further 50%.



BHARTIY

TUBE TOOLS

HYDRAULIC PUMP BHEP-500

7. Microprocessor controls on the pump automate the expansion cycle. Trip, pause & reverse times For the drive are adjustable. No need for repeated manual STOP/ START of the drive during Expansion cycle- Complete automatic. The hydraulic pump supplied with hydraulic drive incorporates the latest state of the technology resulting in a subcompact pump developing 100 bar pressure. The system is mounted on four wheels for on site manoeuverability. Expansion of tubes is regulated by adjusting pressure setting pump. Once required amount of wall thinning is achieved the drive trips automatically.

	Hydraulic Pump Model				
	BHEP-300	BHEP-500	BHEP-1000		
Oil tank capacity (Litres)	30	80	138		
Hydraulic Oil	SAE VG 68	SAE VG 68	SAE VG 68		
Net Weight (Kgs)	80	100	220		
Maximum Working Pressure (bar)	100	100	100		
Electrical Motors	3 hp., Single phase	5 hp., Three phase	10hp., Three phase		
Voltage	230v / 110v	415V	415V		
Overall Dimensions (mm)	610 x 270 x 985	820 x 470 x985	1775 x 550 x 1200		
Standard Hose Size (Length)	½"(10 mtrs.)	½"(10 mtrs.)	½"(10 mtrs.)		

HYDRAULIC DRIVES



Tube Expansion Range						Drive No Load Speed (RPM)	Drive	
Steel Tu	ube O.D.	Copper	Tube I.D.	Model No.	Square Socket	With BHEP	Weight KGS.	
MM	INCH	MM	INCH		INCH	300 / 500 / 1000		
15-25	5/8-1	25-38	1-1.1/2	BHED-3	3/8	620 / 954 / 800	9.6	
19-38	3/4-1.1/2	32-64	1.1/4-2.5	BHED-4	3/8 & 1/2	350 / 480 / 400	9.7	
38-76	1.1/2-3	50-102	2-4	BHED-5	1/2 & 3/4	62 / 84 / 70	11.0	
50-102	2-4	-	-	BHED-6	3/4 & 1	40 / 62 / 54	11.5	

NOTE: Above expansion system comes along with pair of hydraulic hoses, supply cables, remote control, & drive sockets of ½", 3/4" or 1" square.

Dual drive power pack is available to connect 2 drives to single power pack to cut down tube expansion time. By further 50%.

To view demo of above machine please visit our below youtube link https://youtu.be/RqJPN2T4sPl (If you cannot click below then either copy and paste the same in the browser or scan below QR code)



TUBE INSTALLATION TOOLS



SERRATING / GROOVING TOOL 'ST' SERIES



FOR GROOVING IN TUBE SHEETS

Sizes Available : 3/8" O.D. to 2.1/2" O.D.

FEATURES:

- High production tool.
- Ideal for use where 1 tool is needed per bore.
- One piece cryogenically treated tool bit ensures maximum life.
- Its suited for CNC application on account of 1 piece mandrel construction & short design.
- Note: Grooving tools are available for MM bore sizes also, Please enquire.

TUBE END FACER- 'BTEF' SERIES



Sizes Available: 3/8" O.D. To 4" O.D.

FEATURES:

- Tool bits are coated with Titanium Nitride to give 3 times the life of conventional tool bits.
- Ideal for quick facing of projecting tube ends in heat exchanger, condensers & boilers.
- One size of tool is suitable for use on multiple tube thickness by interchanging pilot. (TEF-375 is the exception with the tool suitable for one tube ID only.)
- Each tool is supplied with a set of multiple pilots to cover tube thickness.
- Tube end facers for MM sizes of tubes also available. Please Enquire.

TUBE SHEET HOLE REAMER



Sizes Available: 3/8" O.D. To 4" O.D.

FEATURES:

- Ideal for heat exchanger and condenser tube sheet reaming.
- High speed steel, cryogenically treated & coated with Titanium, Nitride for long life.
- · Reamers are available in MM sizes also.
- For larger diameters, please enquire.

SERRATING / GROOVING TOOL 'NW' SERIES



Sizes Available: 3/8" O.D. To 2.1/2" O.D.

FEATURES:

- Simple to change cutter for different groove shapes.
- Changing of pilot nose & cutter allows one tool to cover a range of hole diameters.
- · Location & depth of cut easy to adjust.
- Only light pressure required to cut precision grooves.
- Ready to fit CNC drill machines, lathe and boring machines.
- The life of the cutter extendable by reshapening.

TUBE END FACER-'BFC' SERIES / WELD REMOVAL TOOL



Sizes Available: 3/8" O.D. To 4" O.D.

FEATURES:

- Tool uses 3 cutting blades which can be configured for tube end facing or weld removal as step in the removal of welded tubes from the tube sheet.
- Tool fitted with MT shank for use with standard air or electric drills.
- Cutting blades are titanium Nitride coated to give 3 times the life Of conventional cutting blades.
- Ideally suited for work on larger diameter boiler tubes.
- Tools available for MM sizes of tubes also. Please enquire

OUR OTHER TUBE INSTALLATION TOOLS ARE

- SERRATING / GROOVING TOOL 'SGT' SERIES
- TUBE END FACER- 'BFB' SERIES
- FLARING TOOL
- BEADING TOOL
- BELLING TOOL
- TUBE SHEET HOLE RADIUS CUTTER
- TUBE GUIDE

TUBE REMOVAL TOOLS & MACHINES



PUSH TYPE INTERNAL TUBE CUTTER- BATP SERIES



Sizes Available: 5/8" O.D. To 1.1/2" O.D.

FEATURES:

- BHARTIYA "Push Type" internal tube cutter quickly cuts through the walls of ferrous tubes in condensers and Heat exchanger as step in their Removal from the tube sheet.
- This sturdy "Push Type" internal tube cutters can be used with a portable Electric or Air Drill Motor.
- "Push Type" cutter is simple to operate. Merely insert it into the tube. Apply power press inward and the tube can be cut in few seconds. Releasing of inward pressure automatically retracts the Cutter Bit. This cutter is equipped with an adjustable collar suitable for reaching into tubes at various depths.
- The replaceable cutting bit can be interchanged in a few seconds. Standard adjustable reach is 4" (101.6mm) and they are available In optional

MANUAL TUBE PULLER

Sizes Available: 1/4" O.D. To 1" O.D.

FEATURES:

- Simple Design: Only two major parts reduce inventory.
- No power needed: Manual insertion and removal of tube with a hand wrench. Ideal for field service application.
- Ease of use: Hex at back of spear allows tightening without disassembly of thrust mechanism.
- Range of Sizes: A wide range of sizes allows use on popular tube size. Clarity of marking: Both spear & thrust collar are clarify Marked for last relating tool to job.
- Larger sizes can be mad e available on request.

TUBE DRIFT/KNOCK OUT TOOL

Sizes Available: 3/8" O.D. To 4" O.D.

FEATURES:

- The drifts are available for mm tube sizes also. Please enquire.
- It is used with pneumatic chipping hammer to knock out. Tubes/ tube stubs form tube sheet
- Available in 01 & 06 shanks as standard. 15 (Jumbo) shank available on request.
- Standard reach is 6" Longer reaches are available.

COLLAPSING TOOL

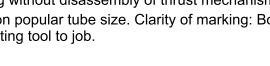
Sizes Available: 3/8" O.D. To 2.1/2" O.D.

FEATURES:

- It is used to collapse tube and drive out collapsed tube from tube sheet with a chipping hammer.
- It is used with pneumatic chipping hammer to knock out Tubes/ tube stubs form tube sheet.
- Available in 01 & 06 shanks as standard.
- Collapsing tools are available for mm tube size and large tube Sizes. Please enquire.

OUR OTHER TUBE REMOVAL TOOLS ARE

INTERNAL TUBE CUTTER-BPR-68 | ONE REVOLUTION INTERNAL CUTTER- BOTC SEROSE | TUBE PLUGS | 'PINE JENNY' STYEL TUBE PULLING ACCESSORIES | TUBE WALL REDUCER.





MASTER TUGGER HYDRAULIC TUBE PULLERE



FEATURES

- Compact and lightweight gun and powerpack.
- Simple and robust operation.
- High pressure pump for stub pulling toughest jobs.
- Breaks tube joint without damage.
- Low set up time / ease of operation
- Automatic switch over from low pressure to high pressure.
- Interchangeable pulling gun accessories compatible with
- existing systems on the market.
- Single man operation.



STPP-300

TUBE PULLING POWERPACK - SPECIFICATIONS

Model	Volts / Phase	Power	Oil Tank Capacity	Net Wt.	Dimension	Hyd. Hoses Size x Length
	1 11400	HP/KW	LTRS.	KGS.	MM	INCH x MTRS.
STPP - 300	230/1	2.25/1.5	10	68	510 x 370 x 680	1/4"x 5 Twin Jack Hose
STPP - 300 (Pneumatic)	_	_	10	65	510 x 370 x 680	1/4"x 5 Twin Jack Hose

Note:Max.Working Pressure 700 bar. All power pack supplied with 5 mtr. Long hydraulic hose

HYDRAULIC TUBE PULLING GUN - SPECIFICATIONS

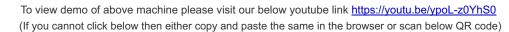
	Our Madal	Pulling Capacity Tons	acity O.D. Thru	Stub Pulling Capacity INCH	Weight		Free Pulling Speed
	Gun Model				KGS.	LBS.	(Meter / Min) with STPP-300
	SHPG-15	15	1	1.1/2	18	40	3.3
	SHPG-30	30	1.1/2	3	25	55	2.0
	SHPG-45	45	3	4	51	112	1.3



SPRING BALANCER

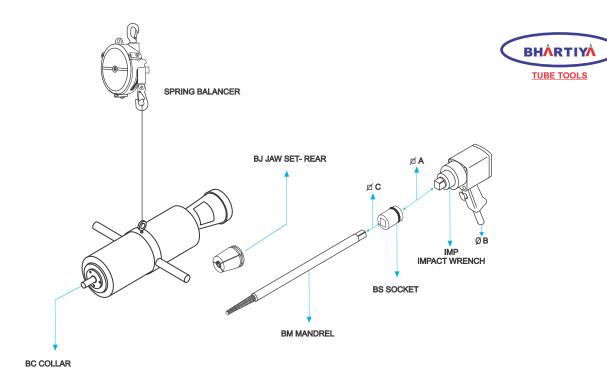
- Used to suspend pulling guns for 'feather touch', operation.
- Frees the operator from handling weight of the gun, allowing him to concentrate on the tube pulling operation.

Model	Balanc	er Range	For Pulling	Weight	
Model	KGS.	LBS.	Gun Model	KGS.	LBS.
BSEW-22	15-22	33-48	SHPG-15	8.0	17.6
BSEW-30	22-30	48-66	SHPG-30	9.0	19.8
BSEW-60	50-60	110-132	SHPG-45	12.0	26.4









IMP - IMPACT WRENCH

• Used to thread BM mandrels into tube with help of sockets.

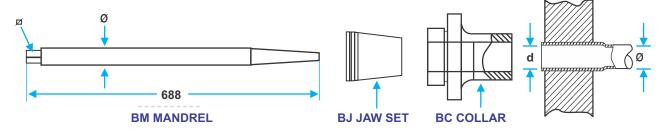
Madal	Suited For Mandrel	We	ight	А	В
Model	Model Numbers	KGS.	LBS.		
IMP-1	BM-7 to BM-37	5.0	11.0	3/4"	3/8"
IMP-1	BM-19 to BM-95/102	10.5	23.0	1"	1/2"

BS - SOCKET

• Used to connect impact wrench to pulling mandrel.

Model	Α	В	Model	А	В
BS-1	3/4"	3/8"	BS-5	3/4"	1"
BS-2	3/4"	1 /2"	BS-6	1"	3/4"
BS-3	3/4"	5/8"	BS-7	1"	1
BS-4	3/4"	3/4"	BS-8	1"	1.1/2"

WORKING CONSUMABLES - MASTER TUGGER HYDRAULIC TUBE PULLER



Note: Working Consumables - Master Tugger Hydraulic Tube Puller (HTP) has consumable such as Pulling Mandrel, Rear Jaw set and Collar. Different sizes of pulling mandrels and other consumables are required for different pulling gun of model SHPG-15, SHPG-16, SHPG-30, SHPG-45.

For different size of consumable and their model numbers, please contact us....

Importnct Note

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

- SHINGARE INDUSTRIES PVT. LTD.
 - Formerly known as Bharatiya Industries
- Manufactuer & 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.
- Hade Off: A-104,1st Floor, Eastern Business District (Magnet/Neptune Mall), L.B.S. Marg, Bhandup (west), Mumbai 40078.
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