



Flexible Shaft Machine is a self-contained portable unit, mounted on a 3-wheel trolley, fitted with a carrying handle. It incorporates a directly coupled, totally enclosed squirrel cage, 2800/1440 rpm. Continuously rated electric motor. Selecting the H.P. of the motor depends upon length and size of Flexible Shaft and nature of scaling. It is controlled by a push button starter which is provided with three thermal adjustable overload relays. Each machine is fully wired, carefully tested and is fitted with a 10-foot length of PVC Cable to main supply. Longer cable can be supplied upon request. Please consult us if your electric supply is different from listed below. Motors for alternate supplies are also available.

Model No.	Motor H.P.	Speed (RPM)	Electric Supply
PTC-30	3.0	2800/1440	440V 3 PHASE
PTC-50	5.0		
PTC-75	7.5		

## FLEXIBLE SHAFT



- The Flexible Shaft transmits constant torque / power from the motor unit to the Tool head or Brush within the tube.
- Inner Core - is double wound in opposing layers made out of high tensile-spring steel wires and passed through stress relieving process, made to absolute-vibration free performance and continuous duty.
- Outer Casing - is flexible, made out of galvanized steel strip and provided with special steel anti-friction lining for the entire length.
- Connections - Suitable motor connection at one end and detachable ball bearing hand piece (tool holder) with threaded spindle for Tool Head or Brush at other end. The size of the Flexible Shaft is based on internal diameter (I.D.) of the tube. The length of Flexible shaft required is the addition of the length of the longest tube plus the distance between the mouth of the tube and the position of the power unit. This should be located that the Flexible Shaft be kept as straight as possible.

Inner Core mm (inch)		12 -13 (1/2")	15 - 16 (5/8)	19 - 20 (3/4")
Outer Casing mm (inch)		25 -26 (1")	31 - 32 (1.1/4")	34 - 35 (1.3/8")
Length mtr.	Length feet	Model	Model	Model
7.5	25.0	IFS-105-25	IFS-106-25	IFS-107-25
9.0	30.0	IFS-105-30	IFS-106-30	IFS-107-30
10.0	33.0	IFS-105-33	IFS-106-33	IFS-107-33
12.0	40.0	IFS-105-40	IFS-106-40	IFS-107-40
15.0	50.0	IFS-105-50	IFS-106-50	IFS-107-50
18.0	60.0	IFS-105-60	IFS-106-60	IFS-107-60
20.0	65.0	IFS-105-65	IFS-106-65	IFS-107-65

## SUGAR MILL CUTTER



**SINGLE LAYER  
'H' TOOL**



**TWO LAYER  
'H' TOOL**



**THREE LAYER  
'H' TOOL**



**CLOSE 'HZ' TOOL  
(HZ-10 TO HZ-11)**



**OPEN 'HZ' TOOL  
(HZ-11A TO HZ-16)**



"TH" for soot removal from smoke tubes, general cleaning.



"DS" for removing light scale and burnishing all types of tubes.



"WBA" heavy duty brushes.

Size		'TH' Turk Head Brush Model	'DS' Double Spiral Brush Model	'WBA' Brush Model
inch	mm			
1.1/4	31.7	PTH-10	PDS-10	PWBA-10
1.3/8	35.0	PTH-11	PDS-11	PWBA-11
1.1/2	38.1	PTH-12	PDS-12	PWBA-12
1.5/8	41.3	PTH-13	PDS-13	PWBA-13
1.3/4	44.5	PTH-14	PDS-14	PWBA-14
1.7/8	47.6	PTH-15	PDS-15	PWBA-15
2	50.8	PTH-16	PDS-16	PWBA-16
2.1/8	54.0	PTH-17	PDS-17	PWBA-17
2.1/4	57.1	PTH-18	PDS-18	PWBA-18
2.3/8	60.3	PTH-19	PDS-19	PWBA-19
2.1/2	63.5	PTH-20	PDS-20	PWBA-20
2.5/8	66.7	PTH-21	PDS-21	PWBA-21
2.3/4	70.0	PTH-22	PDS-22	PWBA-22
2.7/8	73.0	PTH-23	PDS-23	PWBA-23
3	76.2	PTH-24	PDS-24	PWBA-24



"MB" for general purpose polishing and deburring.



"CB" spare brush Wheels for "MB" brushes.



"RS" heavy duty brushes for heavy scale removal.



"EXS" Expanding Scrapers for thin scale, soot or soft deposits.

Size		'MB' Multi Purpose Brush Model	'CB' Circular Wheel Brush Model	'RS' Cup Shape Brush Model	'EXS' Expanding Scrapers Model
inch	mm				
1.1/4	31.7	PMB-10	PCB-10		PEXS-10
1.3/8	35.0	PMB-11	PCB-11	-	PEXS-11
1.1/2	38.1	PMB-12	PCB-12		PEXS-12
1.5/8	41.3	PMB-13	PCB-13		PEXS-13
1.3/4	44.5	PMB-14	PCB-14	-	PEXS-14
1.7/8	47.6	PMB-15	PCB-15		PEXS-15
2	51.0	PMB-16	PCB-16	PRS-16	PEXS-16
2.1/8	54.0	PMB-17	PCB-17	PRS-17	PEXS-17
2.1/4	57.1	PMB-18	PCB-18	PRS-18	PEXS-18
2.3/8	60.3	PMB-19	PCB-19	PRS-19	PEXS-19
2.1/2	63.5	PMB-20	PCB-20	PRS-20	PEXS-20
2.5/8	66.7	PMB-21	PCB-21	PRS-21	PEXS-21
2.3/4	70.0	PMB-22	PCB-22	PRS-22	PEXS-22
2.7/8	73.0	PMB-23	PCB-23	PRS-23	PEXS-23
3	76.2	PMB-24	PCB-24	PRS-24	PEXS-24