



* tools with perfection

TRISTAR INTERNATIONAL
Operation And Instructions Manual
TUBE CLEANING MACHINE FOR
BOILERS

TRISTAR INTERNATIONAL

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Thane (W) – 400606, Maharashtra, India.

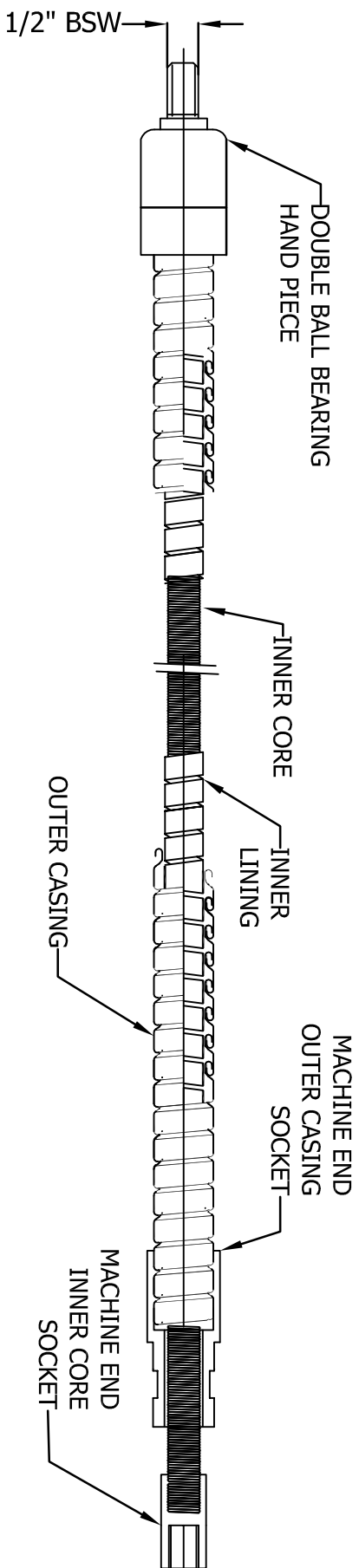
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OPERATING INSTRUCTION FOR FLEXIBLE SHAFT TO MACHINE:

- a. Open flexible shaft, unwind it & keep it straight.
- b. Connect flexible shaft to the machine. Connect machine end outer casing socket to the machine adaptor.
- c. Please connect machine end inner core socket to machine.
- d. Connect cable of machine to 3 phase, 50 Hz, 400/440 Volts supply.
- e. Press start button (Green color) on DOL Starter. To stop use red color button on starter.
- f. Check whether rotation of machine is anticlockwise or not? Machine should run in anticlockwise direction when you see from front end.
- g. Stop the machine. Fix brush or tool head cutter at the other end of flexible (1/2" male threading of double ball bearing hand piece).
- h. Start the machine. Then insert the flexible shaft in to tubes. Use water externally in the tube while doing cleaning.
- i. During operation, avoid excessive bending of flexible shaft. Less you bend flexible shaft, more will be its life.
- j. Carry out the greasing of inner core of flexible shaft after every 24 hrs of operation.
- k. To do greasing of inner core, disconnect flexible shaft from machine. Hold inner core in hand at machine end side. Rotate inner core manually in clockwise direction & then pull it out completely. Clean whole length of inner core by using cotton waste with kerosene or petrol & remove old grease which would be stucked to inner core. Again apply new grease though the length of inner core.

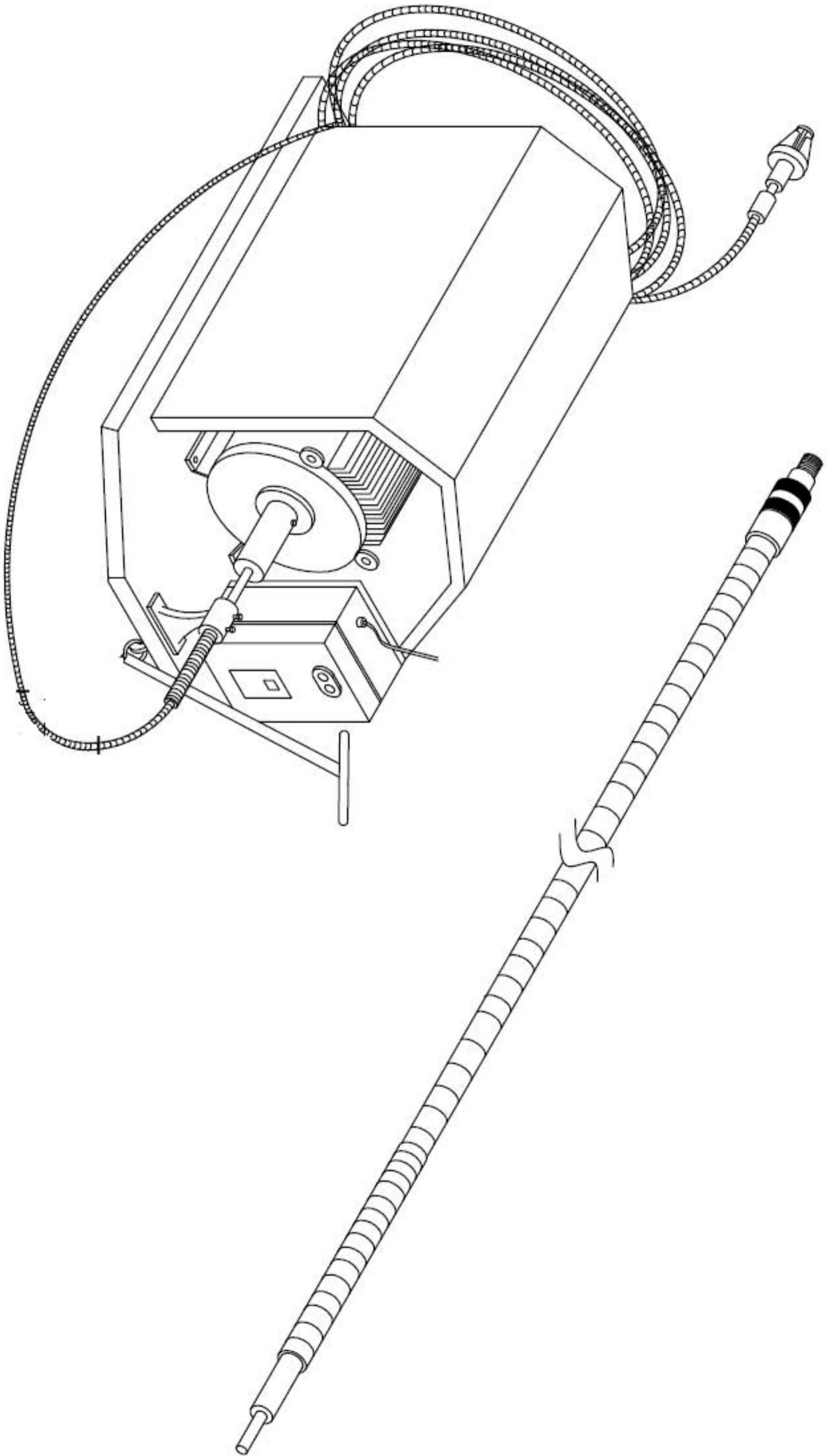
Please refer drawing & other details for your reference.



BHARTIYA INDUSTRIES - THANE

FLEXIBLE SHAFT

MATL.		DRAWN	
HEATREAT		CHECKED	
SURFACE TREAT		APPROVED	
PROJ.	DRWG NO.	SCALE	



BOILER TUBE CLEANER