SITSON INDIA PVT. LTD.

For Perfect Energy Solution SINGLE MOTOR LONG RETRACTABLE SOOT BLOWERS

- Single motor drive.
- Hight efficiency cleaning.
- Minimum steam consumption.
- Simple and Robust construction.
- Minimum maintenance

Application:

On load effective cleaning of heating surfaces in high temperature flue gas zone of various type of Boilers or heat exchangers.

Typical Location:

Boiler superheater or furnace zone.

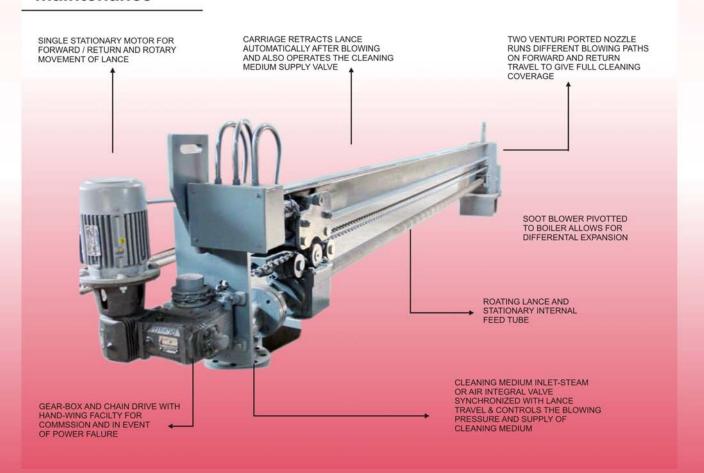
Operation:

Cleaning action is achieved by means steam at high velocity through venturi nozzles suitably located or diametrically opposite on rotating lance, which travels into the area to be cleaned automatically. At the end of predetermined limit of the blowing travel the lance reverses and retracts into wall box when the valve closes.

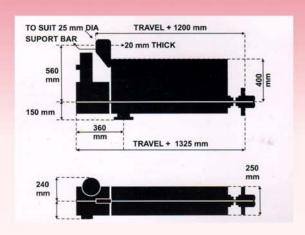
A crank handle is provided for emergency retraction of the lance.

An integral valve is operated automatically by limit shops on the lance travel mechanism to admit or shut off the supply of steam/air to the lance for blowing operation.

Single electric motors for traverse and rotation of lance is provided.



SITSON SINGLE MOTOR LONG RECTRATABLE SOOT BLOWERS



PROTECTION:

Depending upon the site conditions and soot blower is enclosed along the full length bu removable sheet covers.

INTEGRAL VALVE:

Positive opening and closing by robust mechanical linkages by lance carriage. operation of valve is closely synchronized with the position of the nozzle to ensure precise timing of finish of the blowing period . valve casting is carbon steel or molybdenum valve seats is Stellited .

RELIABLE DRIVE:

The lance is traveled and rotate by means of a chain drive using alloy steel calibrated chain.

SPECIFICATIONS:

| Travel | 2 to 6 mtrs | |
|--------------------------|--------------------------------|--|
| Weight | 230 kgs+45 kgs meter of travel | |
| Steam Supply | upto 45kg/cm2=4600c | |
| Electric Supply | 3phace 440v | |
| Motor | 0.5KW(0.75HP).0.75KW(1h.p) | |
| Electrical Enclosure | ip-55 | |
| Effective Blowing Radius | 800 mm to 2000mm | |
| Rate Of Lance Travel | 105 to 3.5/min | |
| Rate Of Lance Rotation | 8.4R.P.M. | |
| Lance Material | To suit the temprature zone. | |

Mounting of boiler: A slotted lug is provided at the motor and for suspended mounting. at boiler end a wall box tube with companion flange is normally provided .the soot blower and companion flange are connected by trunnions, the pivoting action allows for differential expansion between soot blower and boiler.

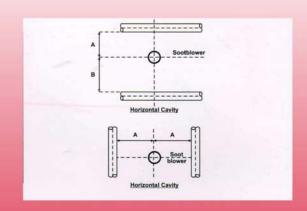
Wall Box:

Alternative designs of wall boxes are provided to match the conditions like positive gas pressure or negative gas pressure,

Controls: Operations is initiated by a local push button or automatically from a sequential control panel. Various schemes fo controlling either single or multiple soot blower installations either single or multiple soot blower installations are available.

CAVITY DIMENTION:

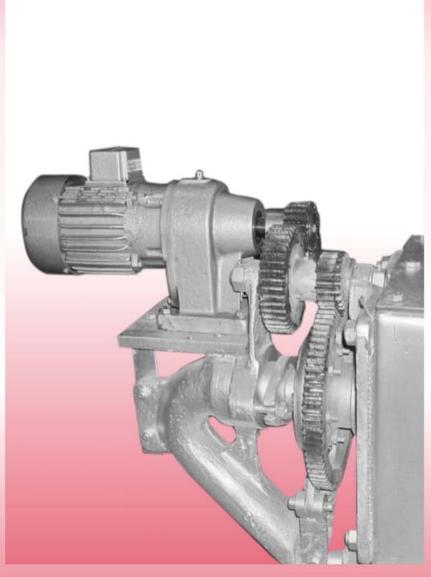
| STROKE MEETERS | A MILLIMETERS | B MILLIMETERS |
|-------------------|------------------|------------------|
| 4.0 | 120 | 220 |
| 4.3 | 140 | 240 |
| 4.6 | 160 | 240 |
| 4.9 | 170 | 250 |
| 5.2 | 175 | 260 |
| 5.5 | 180 | 270 |
| 5.8 | 190 | 280 |
| 6.1 | 200 | 290 |



SITSON INDIA PVT. LTD.

ROTARY SOOT BLOWERS

FOR BOILERS, SUPERHEATERS, ECONOMISERS.



FG - SG - 007
ROTARY BUILT - IN VALVE TYPE

ROTARY & RETRACTABLE TYPES

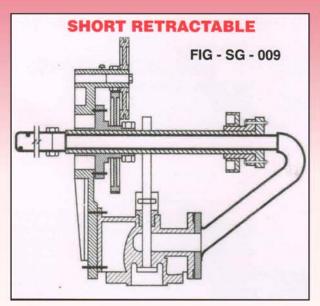
Soot blowers are used to keep the boiler surfaces free from deposits of dust & grit which would otherwise reduce the rate of heat transmission in the boiler, reducing the boiler efficiency, reducing availability. This loosely adhering layer is a definite impediment to the transfer of heat & should be removed after it has built up sufficiently to result in significant increase in flue gas temperature, Regular soot blowing is essential for Boilers, Superheaters & Economisers heating surfaces if the high thermal efficiency is to be maintained.

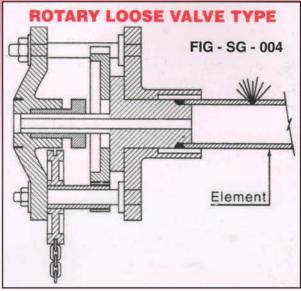
The Soot Blowers consists of:

- Element Rotating mechanism (Head) manual or motorised with loose valve or built in valve.
- Element (Blowing Tube): Stainless steel or carbon steel depending upon the flue gas temperature.

The usual form of element is dead end tube projecting through the boiler setting & extending into the tube bank. Number of small lateral venturi nozzles of special alloy are provided on the tube & the external head is arranged so that high pressure steam can be admitted to the tube (element) & at the same time the element rotated around its axis, to ensure maximum coverage of heating surface. The element can be rotated through any desired blowing angle.

SITSON INDIA PVT. LTD.





- A-Lane blowing

 A-Lane blowing

 B- Mass blowing
- MOTORISES OR MANUAL
- FULLY AUTOMATIC WITH SEQUENCIAL OPERATION
- ROTARY
- RECIPROCATING
- SHORT RETRACTABLE
- LONG RETRACTABLE

SITSON INDIA PVT. LTD.

Registered Office: W-76, MIDC Phase II, Dombivli (East) 421204, Dist. Thane, M.S. (India)

Phones: +91 251 2871282, 2871833 Fax: +91 251 2870878, 2871953

Email:sitson@sitsonindia.com, sitsonindia@yahoo.com Website: www,sitsonindia.com