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STEAM PLANT

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Steam Plant - Technical data

Body material Stainless steel AISI 304 (BA)	**Max. Steam Rated Flow** 905 g/min - 54,6 Kg/h
Boiler material Stainless steel AISI 304 (with interchangeable heating element)	**Max temperature** 165° C
Rated Voltage 440 V	**Max. inlet water pressure** 600 KPa - 6 bar
Current type 60 Hz 3~	**Min. inlet water pressure** 50 KPa - 0,5 bar
Rated Power Boiler 33,6 kW	**Kickback forces** <20 N
Rated Power vacuum 3,6 kW	**Vibration hand-arm** <2,5 m/s²
Max Rated Power 37,8 kW	**Sound pressure level LPa** 98,7 dB
Rated Steam Pressure 600 KPa - 6 bar	**Sound power level Lwa** 111,4 dB
Permissible Steam Pressure 1200 KPa - 12 bar	**Mass** 266 Kg

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The causes which push factories to purchase steam belt cleaners are:

- It is an ecologic cleaning method which permits to reduce or even eliminate the usage of chemical products. This feature is very important especially in food industries.
- It is a cleaning method which substitutes the job that was previously performed using the manual labour which was resulting to be very slow and expensive in terms both of manpower itself and of production stop time.
- It is a cleaning method which resolves the problem of those industries where the high cost of manual cleaning was being compensated with the periodical replacement of the belt itself, purchasing a new one.
- It is a cleaning method which permits not to stop ever the belt and therefore not to lose in production capacity.
- It is a cleaning method which resolves technical problems of machineries, which, because of the dirt on the belt, were creating high quantitative of production discards.

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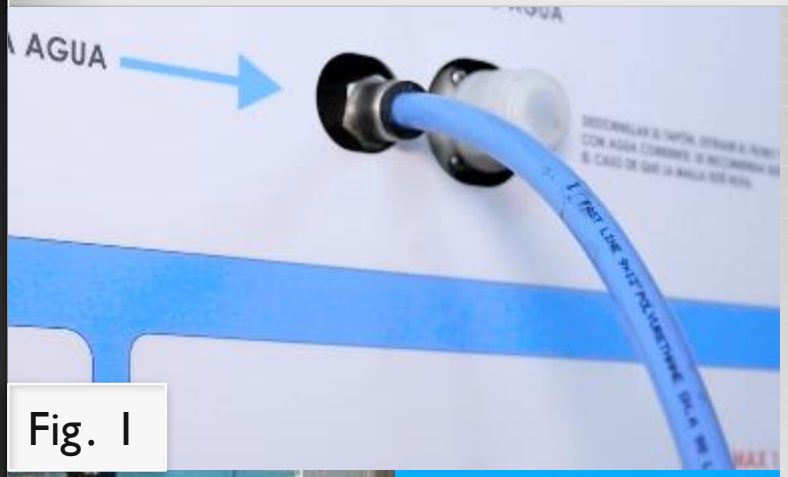

Fig. 1

Fig. 2

Fig. 3

Steam Plant Functions

- Automatic mains water feeding (fig.1)
- Integrated pressure reducer
- Integrated water treatment filter with cationic resins (water softener) (fig.2)
- Completely automated system for the vacuumed liquid discharge (fig.3) (the discharge is executed automatically by a special pump and by an electrically commaned valve)
- Automatic cleaning of the vacuumed liquid container
- Automatic boiler maintenance (once the maintenance interval expires, the system automatically discharges and refills the boiler in order to clean it)

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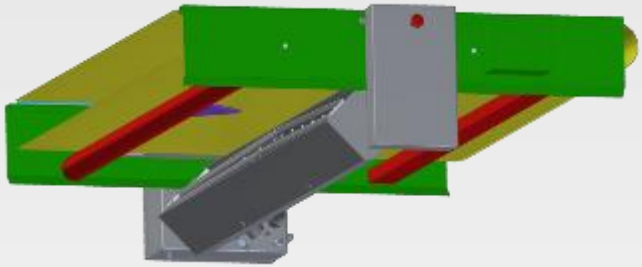

Fig. 4

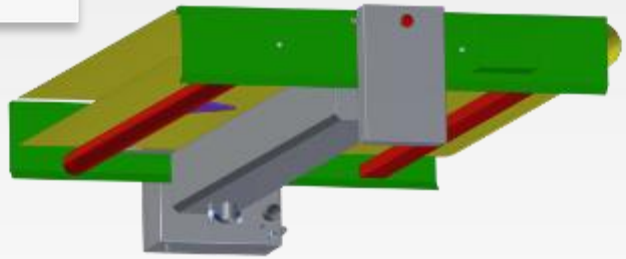

Fig. 5

Fig. 6

Steam Plant Functions

- Automatic positioning and opening of the belt cleaning system (the system goes into working position with «cleaning start» activated and returns into open position once the set cleaning time expires) – fig.4
- Automatic cooling system for the vacuumed steam/liquid (such system permits to avoid the steam re-circulation through the vacuum turbine) – fig.5
- Anodizing treatment of the vacuum turbine for its protection against corrosion – fig.6
- Automatic stop function for "arrested belt" (in case the cleaned conveyor belt is arrested, Steam Plant automatically interrupts the cleaning phase).

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Fig. 7

Steam Plant Functions

- Status signals on the light/acoustic indicator (fig.7):
  - ok
  - phase of automatic maintenance
  - breakdown

Fig. 8

Fig. 9

- 7´´touchscreen panel as machine/operator interface (fig.9)
- Semplified menu to start the cleaing, two buttons only
- "Start and Stop".
- Cleaning time setting (fig.8)
- Failure diagnosis
- Multilingual menu

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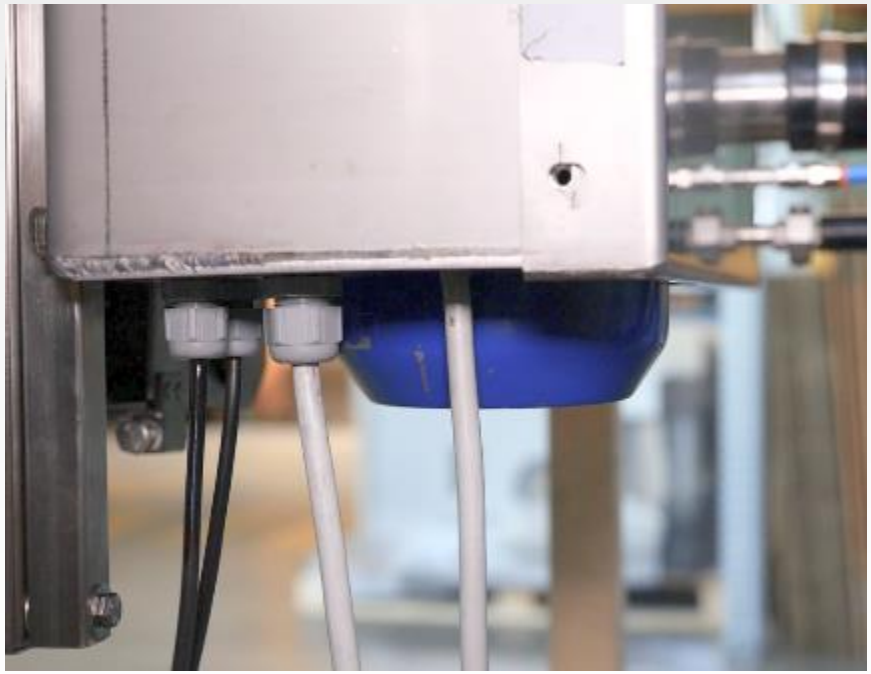
Electrical connection

- Keep the devices OFF, connect the motor power supply cables and the steam hose to the respective connectors on the steam generator (refer to the figures 1 and 2)



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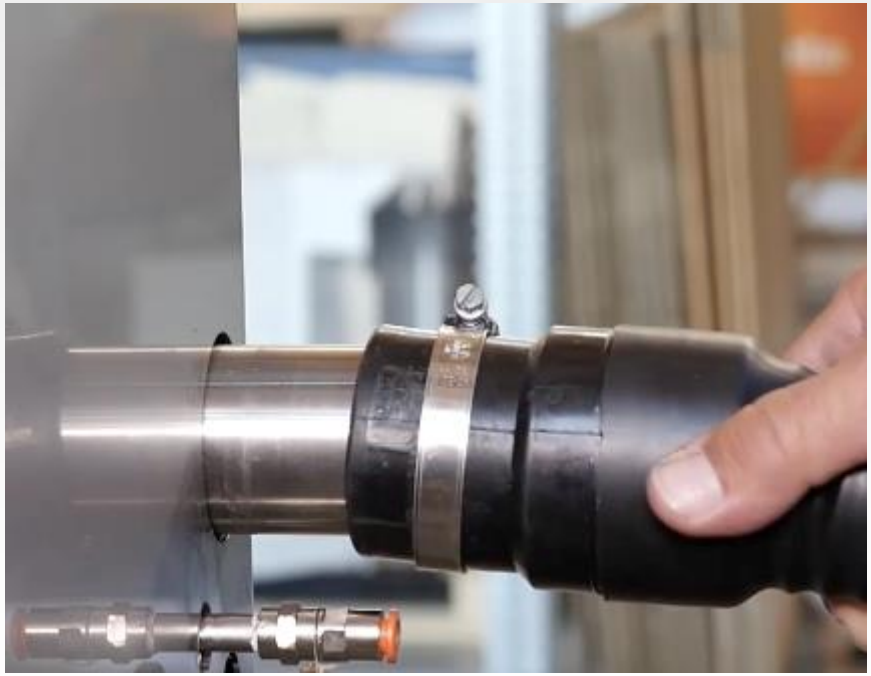
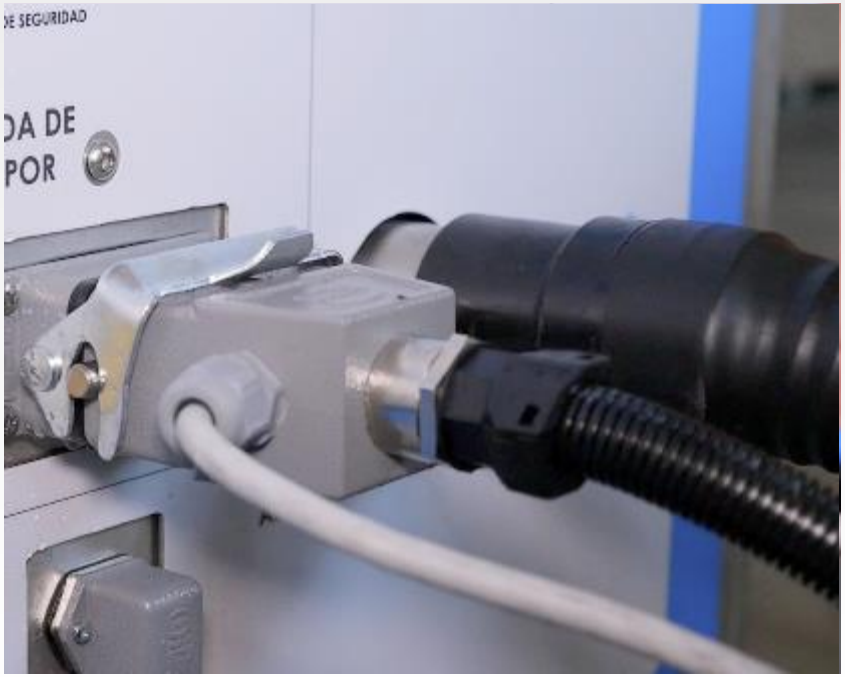
Connection of the vacuum

- Connect the two edges of the vacuum hose to the appropriate couplings on the belt cleaning head and on the steam generator





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Connection of the steam hose and of the cooling liquid (water)

Steam hose

Water hose (belt cleaning head)

Water hose (steam generator)

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Connection of the water mains and of the discharge hose

- Connect the two edges of the vacuum hose to the appropriate couplings on the belt cleaning head and on the stean steam generator

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Use the touchscreen display in order to set the opening and the closing of the belt cleaning head

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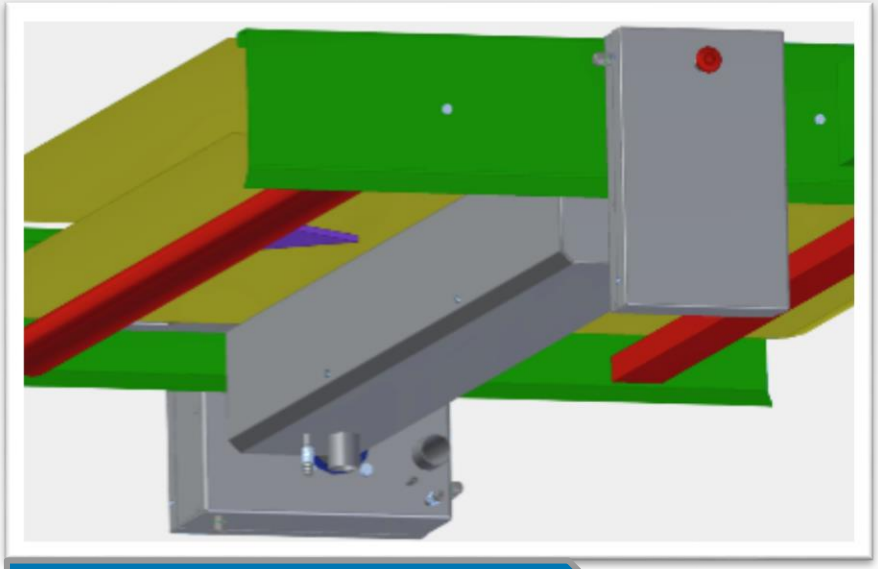
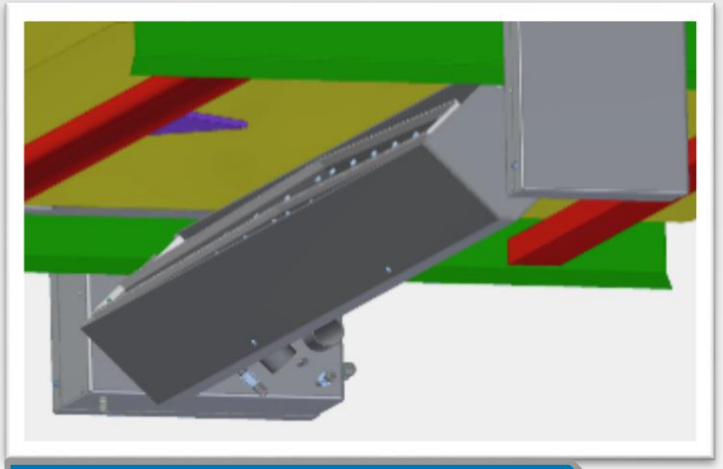
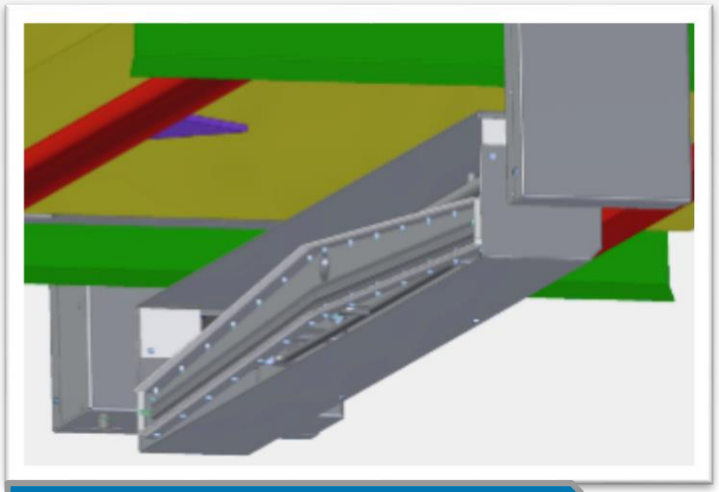


CLOSED position



SEMI-OPEN position



OPEN position

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Use the touchscreen display in order to set the working cycle duration