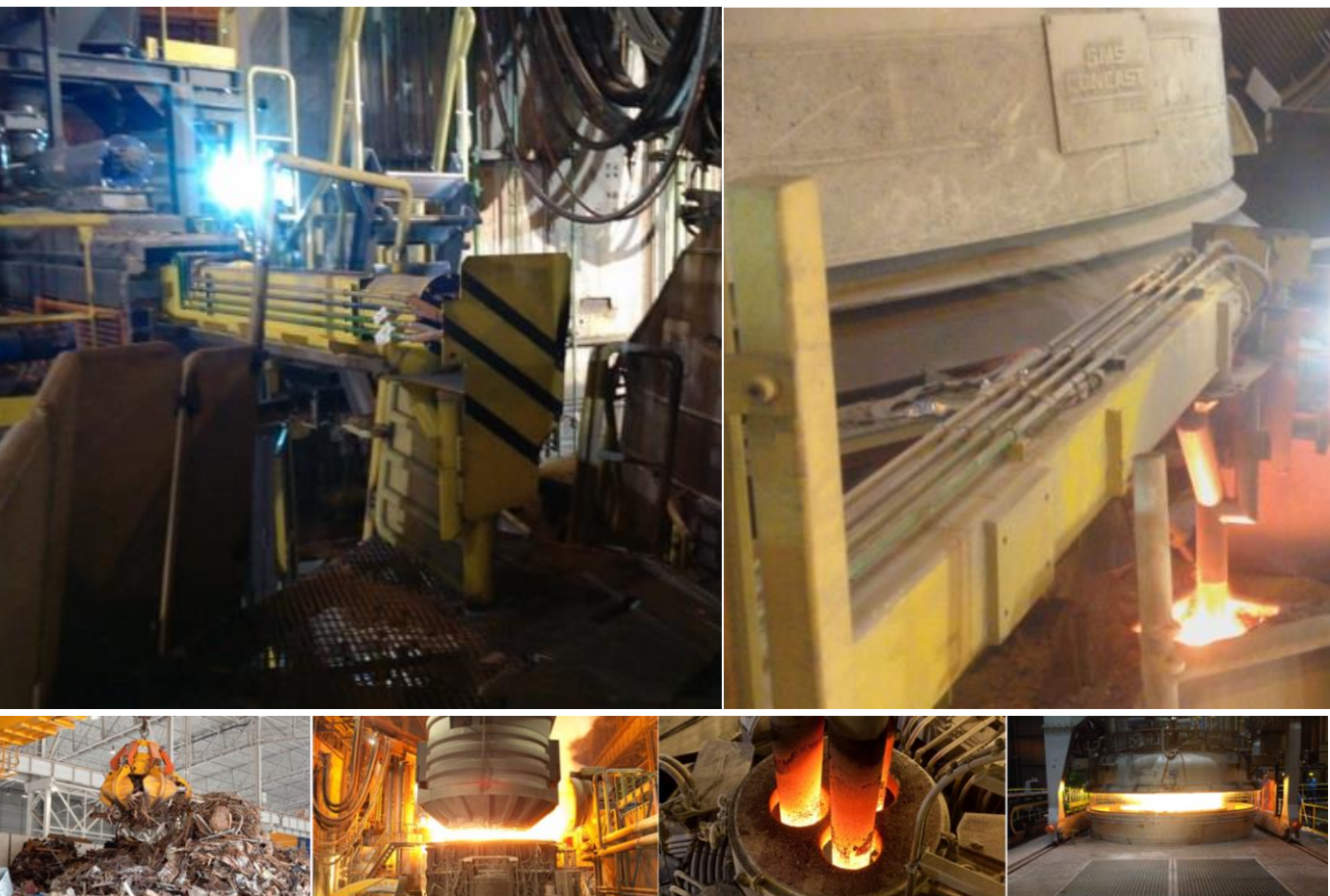


# **SafEBT- Fill** **AUTOMATIC EBT SAND FILLING**

Increased operational safety and efficiency



## **Steelmaking Special Products**

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## SafEBT-Fill

### AUTOMATIC EBT SAND FILLING

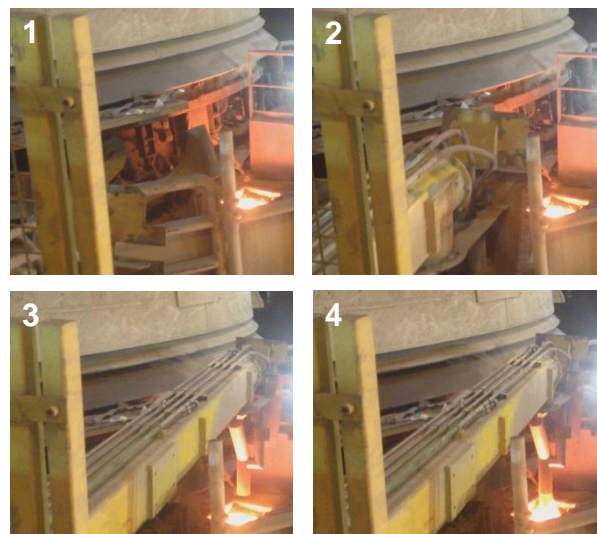
Increased operational safety and efficiency

The eccentric bottom taphole (EBT) of an electric arc furnace needs to be refilled after every tapping with the sand from the top in order to seal it before starting the next melt. Often this operation is done manually. The operator has to climb on the EBT balcony and exposing himself to a dangerous and time-consuming operation. NO MORE. SMS Group has developed SafEBT-Fill, the EBT filling tool for safe and efficient EBT sealing controlled from the EAF Control Room.

#### Application

The SafEBT-Fill is a remotely controlled EBT filler. An operator monitors the filling process from the control room via cameras and steers the head of the SafEBT-Fill in the proper position, controlling it by means of a water cooled camera installed on the arm itself.

- All movements – from the parked position to the working position and back, and dropping of the sand itself – are automatic
- After verifying the status of the sealing the operator can tune the quantity of sand to be used
- SafEBT-Fill can be installed either on board of the EAF or on a side fixed structure



SafEBT-Fill at work, filling the furnace's taphole

#### YOUR ADVANTAGES

- **Greater operational safety** – non-manned operation in dangerous locations
- **Shorter power-off times** thanks to the rapid, precise filling operations
- **Increased reliability** thanks to better and user friendly EBT filling practice

#### TECHNICAL DATA

Olivine Dimensions	2 – 10 mm
Max Flow	250 kg/min
Bin Capacity	Depending on needs
Camera Cooling	Water

#### Ease of Use and Maintenance

All filling movements are monitored by a video camera and displayed to the operator

- No manual operation required from the EBT balcony
- Completely electrical, to make it work is enough a plug where to connect the control board

#### For best results

In combination with the SafEBT-Fill, we recommend our SafEBT-Tap device, SafEBT-Clean device and SMS automation controls that integrate our video monitoring set-up. Please contact us for more information.