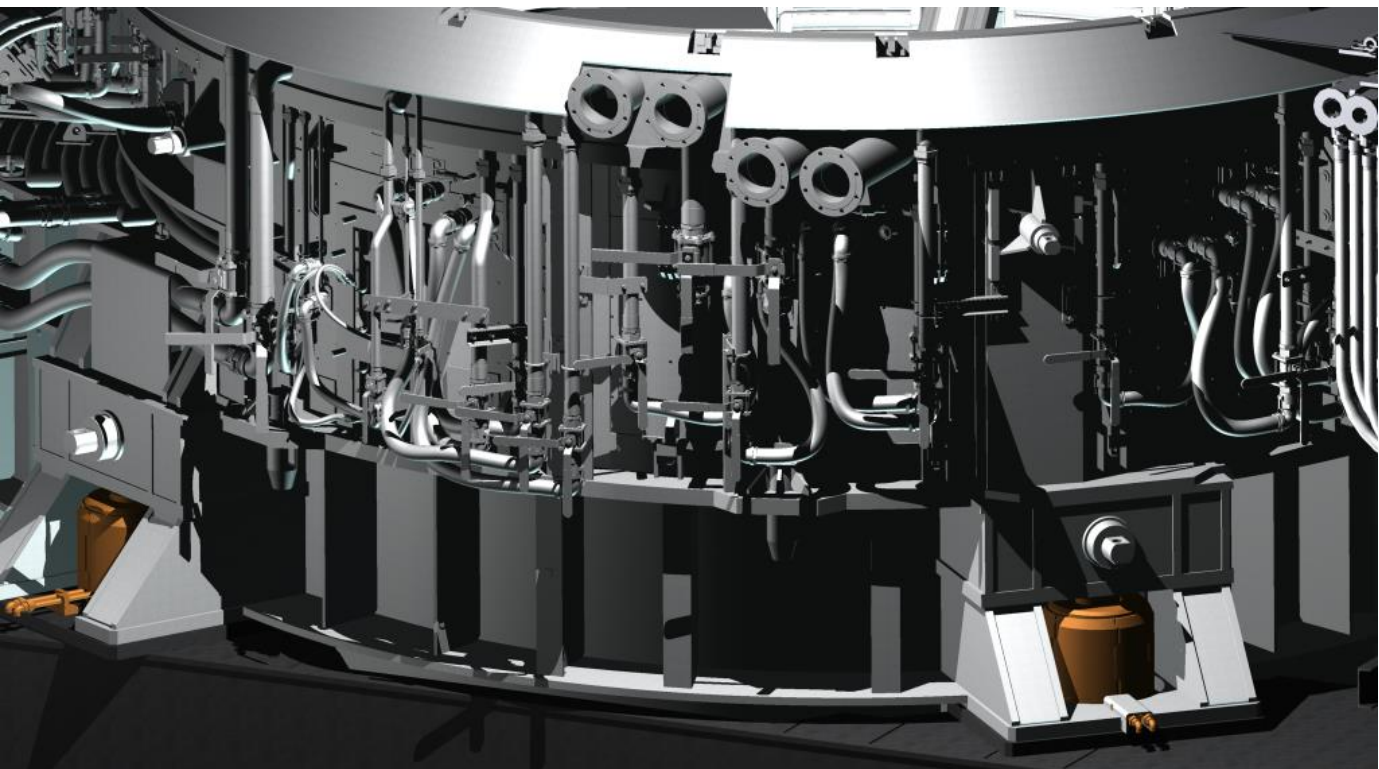


WALC WEIGHT ACTIVATED LOAD CELLS

The smarter, tougher, longer lasting EAF weighing system



Steelmaking Special Products

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WALC WEIGHT ACTIVATED LOAD CELLS

The smarter, tougher, longer lasting EAF weighing system

Precise weight data on the materials fed to an arc furnace is extremely valuable since it supports both the repeatability and quality of the melting process. A good EAF weighing system measures the liquid steel and slag inside the furnace, data needed to fine-tune cost-critical electrical and chemical energy inputs. It also indicates the size of the hot heel and helps assess refractory consumption. The new WALC weighing system by SMS Group does all this and more, delivering accuracy, speed and exceptional reliability. Its Weight-Activated Load Cells are housed in sturdy protective boxes and transmit data only when requested, thus avoiding damaging overloads and considerably extending the system's service life.

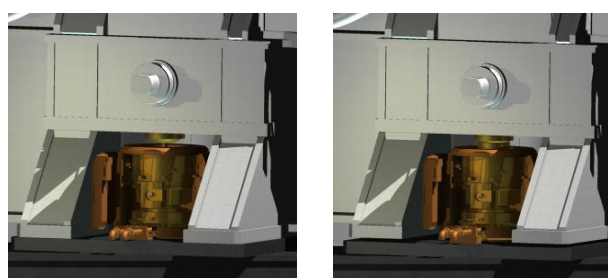
Application

Often the best ideas are the simplest. The load cells in the WALC weighing system from SMS only engage when requested. Thus, damage from vibration and the dilation of the EAF shell is minimal compared to permanently connected systems.

Bottom line?

A much, much longer service life and substantial long-term savings for EAF operators!

- Heavy-duty load cells are set beneath each foot of the EAF. An actuator on each cell lifts the furnace, discharging the weight onto the respective cell
- The cells are loaded only during measurements, reducing stress on components
- The new WALC weighing system can be installed on any EAF, existing or new, of any size or type
- Only the shell and its content is weighted



Load cell in its protection box. Left – cell released. Right – cylinder activated for measurement

Ease of Use and Maintenance

- Easy accessibility for maintenance: no need for specialized services
- High operational safety: no need for wheels or similar to compensate for vibrations or dilation of furnace shell

For best results

In combination with WALC, we recommend our automation control and hydraulic valve stands. Please contact us for more information.

YOUR ADVANTAGES

- **Greater process repeatability** thanks to highly accurate data acquisition
- **Longer service life** thanks to active load cell protection and on-demand-only activation
- **Reduced maintenance time** thanks to easy access to load cell boxes

TECHNICAL DATA

Applications	EAFs of all size and type
Accuracy	+/- 0.2 %



Load cell protection box on the platform