HASLER



Checks the real kiln production and allows to calculate the raw meal / clinker ratio



Smart Apron Scale

Apron conveyor

Apron conveyor Belt Scale



- Accuracy ± 1 %
- Two SFT™ 100 % digital load cells with very high resolution (1:1'000'000)
- Essential information for the determination of the clinker production
- Universal design for all apron conveyor types
- High performances



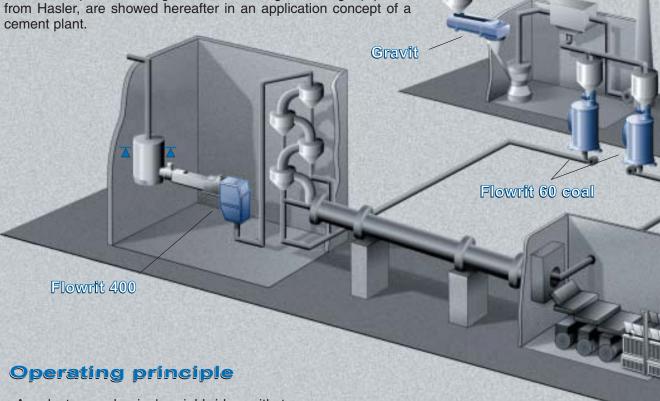
Smart Apron Scale

Apron conveyor Belt Scale

Application

he Smart Apron Scale is an apron conveyor belt scale. It allows to check the real production of the kiln and to determine the ratio between raw meal, clinker and combustibles.

The Smart Apron Scale, together with other digital feeding equipment



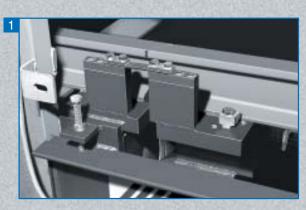
- An electro-mechanical weighbridge with two digital SFT (Smart Force Transducer) load cells is inserted into the apron conveyor for the accurate flowrate measurement.
- The SFT load cells are factory calibrated for life - no field calibration with reference weights are ever required.
- No weighbridge misalignment error thanks to the deflection free measurement by the SFT.
- Smooth vibration free weight acquisition thanks to uncut rails in the weighing area. This eliminates the known weighing errors with traditional scales caused by the rollers passage over the rail cut.
- The conveyor speed is measured by an incremental encoder mounted on the drive shaft.

SFTTM 100 % digital load cell with very high resolution (1:1'000'000)



SFT the intelligent weighing technology!

Complete downstream articulation block



VHRS

 Electronic controller (see page 4 for more details)

> Measuring unit with SFT™ 100 % digital load cell



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Smart Apron Scale

Complete upstream articulation block

For better accuracy, the Smart Apron Scale should be installed horizontally.







Connected to a VHRS electronic controller

- panel or wall versions - with following interfaces:



in standard

Through isolated digital input / output :

- totalizers 1 and 2
- out-of-range indicator
- out-of-range acknowledgement
- start printer

Isolated 0/4-20 mA analog output:

flow rate

in option

Serial communication, isolated:

- RS 232, RS 422 or RS 485 using a J-Bus / Modbus protocol for a connection with a PLC or host computer
- RS 232 connection with a printer

Technical Specifications

Accuracy: +/- 1 %

Distance:

between rails: 600 - 2'000 mm
 between rollers: 600 - 1'500 mm
 Total load per axle: 1'000 kg max.

Space required:

• horizontal length : ≥ 5'000 mm Conveyor speed : all ranges

Rails:

Type DIN 5901/02 : S12 - S49
 Type U PN : 8 - 14
 Type U AP : 80 - 150

Standard colour: Rosso Solido (purple), equivalent pigment RAL 4031

Protection class: IP 65, NEMA 4

Load cells: 100 % digital Smart Force Transducer (SFT)

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