

HASLER

PRODUCT
information

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



Smart Apron Scale

Apron conveyor
Belt Scale



- Accuracy $\pm 1\%$
- 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

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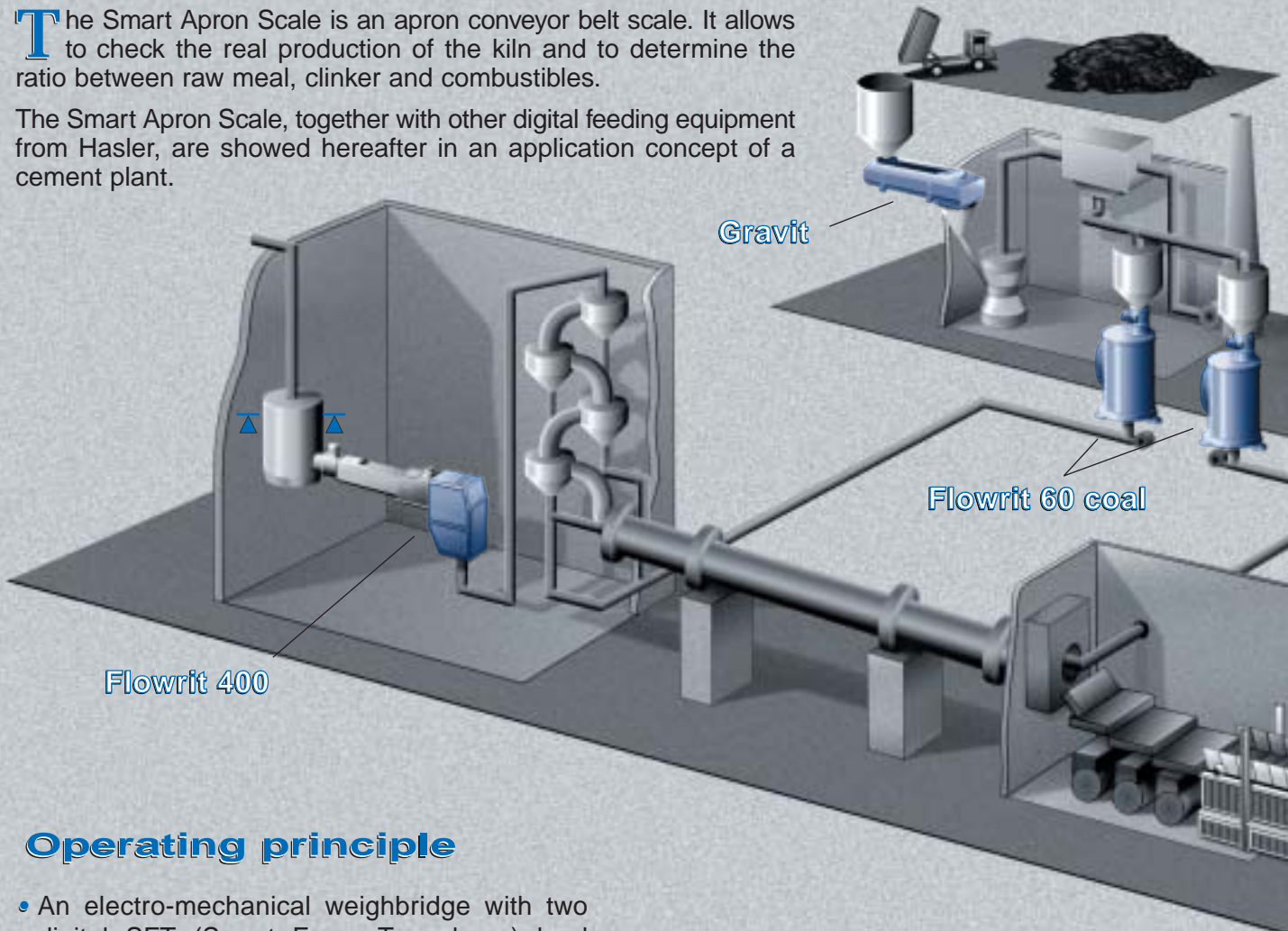
Smart Apron Scale

Apron conveyor Belt Scale

Application

The 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 from Hasler, are showed hereafter in an application concept of a cement plant.



Operating principle

- 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.

- ▶ SFT™ 100 % digital load cell with very high resolution (1:1'000'000)



SFT the intelligent weighing technology!

Smart Apron Scale

Apron conveyor Belt Scale

Complete downstream articulation block



VHRS

- *Electronic controller*
(see page 4 for more details)

Measuring unit with SFT™ 100 % digital load cell



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 or
 - 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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