


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


 Weighing
 Flow rate calculation
 Totalization
 All materials conveyed on an apron conveyor

SAS



- ✓ Design is individually adapted for the existing apron conveyor
- ✓ For steel plate or deep drawn bucket conveyors
- ✓ Installation in horizontal (preferred) or inclined part
- ✓ Optional hot temperature design for up to 150°C

Function:

- 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 – no field calibration with calibration weight is ever required
- No weighbridge misalignment error thanks to virtually deflection free measurement by the SFT
- Smooth, vibration free weight acquisition thanks to uncut rails in the weighing area. This eliminates the 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.



Weighbridge Digital load cell

Rails

- Standard rail size S20 compatible S18
- Special rail size on request

Application

- The Smart Apron Scale (SAS) is an apron conveyor belt scale. It allows to check the real production of the kiln and to determinite the ratio between rawmeal, clinker and combustibles.

Controller:

- The Smart Apron Scale is connected to a BFC electronic controller – panel or wall version.

Standard

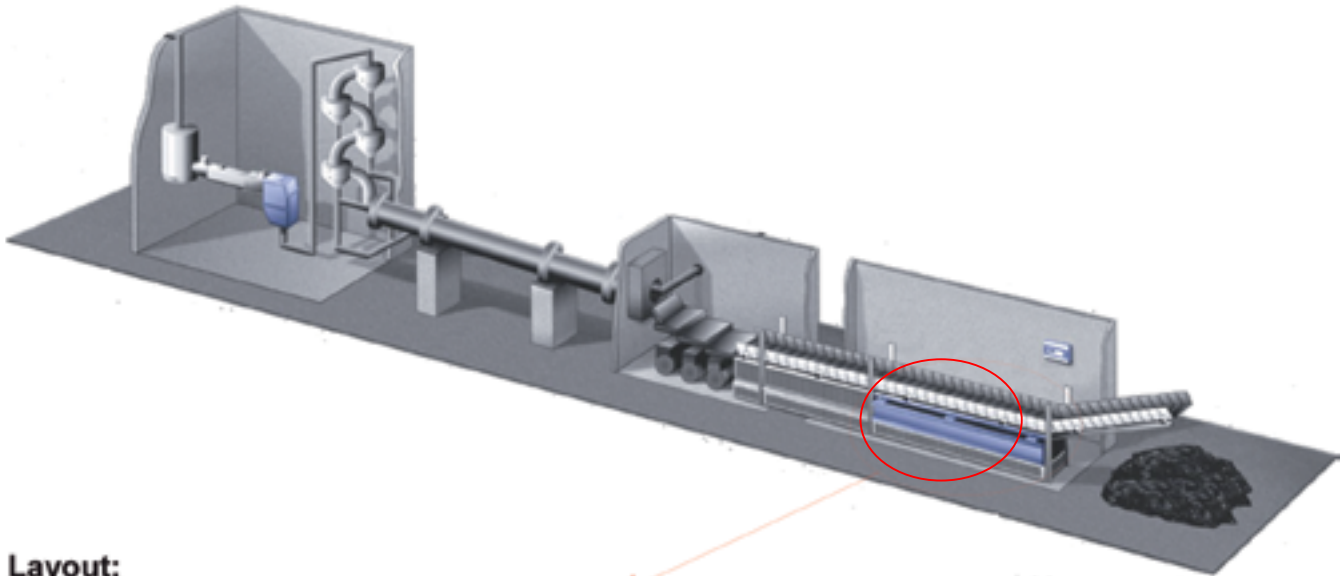
- 3 Configurable isolated digital outputs with programable thresholds: totalizer, alarm, horn
- 1 Configurable isolated 0/4-20 mA analog output for either: flowrate, current weight, speed, load per meter
- 2 Configurable isolated digital inputs: out of range acknowledgement, totalizer reset.

In option

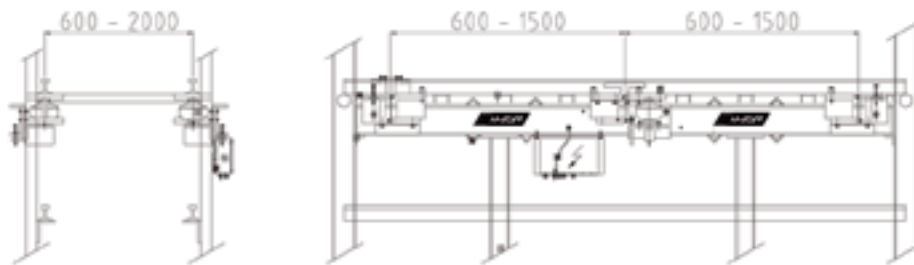
- Isolated serial communication:
 - Modbus, Ethernet ModbusTCP, Profibus DP - for connection with a PLC or host computer.



BFC Controller (panel version)



Layout:



Technical data

Accuracy	±1% up to 25° inclination, ≥1% up to 45°
Protection class	IP65
Load cells	Two 100 % digital SFT
Rails	
Type DIN 5901/02 S20	S20(S18 compatible, other size on request)
Distance	
between rails	600 – 2.000 mm
between rollers	600 – 1.500 mm
Space required	Horizontal length ≥ 5.000 mm
Total load per axle	max. 1000 kg
Conveyor Speed	All ranges
Speed sensor	Digital encoder
Corrosion protection	Primer, Finish coat
Color	RAL 5000 blue

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