

# MULTIBELT®

## Maintenance-free, flexible and precise



MULTIBELT® belt weigher  
The right solution for every application

# Best-in-class weighing on moving conveyors

## Schenck Process – The solution provider in belt weighing technology



Accuracy and flexibility are critical requirements for the measurement of materials in all conditions. The Schenck Process MULTIBELT® offers outstanding weighing accuracy for a multitude of conveyor belt weighing applications.

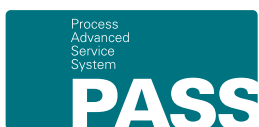
The applications include production and logistics, throughput and consumption rate measurement for production systems, internal balancing of supply and withdrawal, load limit signalling, batching at loading stations or pre-feeder control and legal-for-trade weighing.

Schenck Process belt scales are as precise as required – with an accuracy of  $\pm 0.25\%$ .

- ❖ Flow rates to 20,000 t/h
- ❖ National Measurement Institute of Australia approved legal for trade use
- ❖ Accuracy to 0.25%
- ❖ Pre-feeder control and batching

# Weighing on a moving conveyor belt

Schenck Process – the market leader in weighing for conveyor belts



## Comprehensive solutions for your requirements

Looking for service solutions? Our comprehensive Process Advanced Service System (PASS) offers customer-focussed after-sales service to meet your individual needs.





The structure of our PASS programme is tailored to our customers. Our experienced after-sales team will be happy to produce PASS packages to suit your needs. They may include genuine replacement parts, wearing parts, various services and other high-quality components.

PASS is based on a modular principle. You choose individual PASS products or a combination as required. The products are classified in four categories to make it easier for you to find the right modules.

We look forward to advising you – whether you are looking for a PASS contract or have a one-off enquiry.

Regardless of how you understand full service, we'll help you find what you are looking for!

## Our PASS service categories

-  Repair
-  Inspection
-  Management
-  Support





#### **Fully floating weighbridge**

- ❖ No mechanical joints or lever arms
- ❖ Weight can be fully registered to weighing system
- ❖ Simple installation
- ❖ Independent of conveyor flex and vibration

#### **Modular design**

- ❖ Easy to handle
- ❖ Reduces downtime for installation
- ❖ Reduced weight

#### **Speed transducers and access**

- ❖ Maintenance free bearings and seals
- ❖ Galvanised or stainless steel construction for long life
- ❖ Legal for trade approved
- ❖ Suitable for use in explosion prone zones

#### **Best load cell in class**

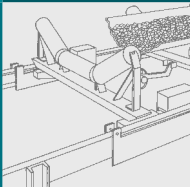
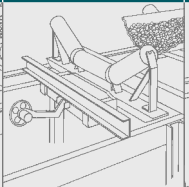
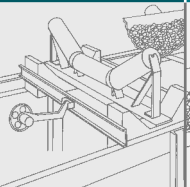
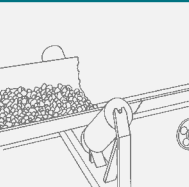
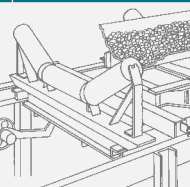
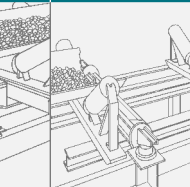
- ❖ Ring torsion type
- ❖ Easily picks up change in side forces
- ❖ Removes shunt force
- ❖ German precision engineering
- ❖ Full in house design and manufacture

#### **Advanced control system**

- ❖ Easy integration with PLC
- ❖ Commissioning software
- ❖ User friendly interface
- ❖ 24 bit resolution
- ❖ Removes belt influence
- ❖ Ethernet and modbus as well as optional fieldbus protocols for Profibus, devicenet, ethernet MODBUS/TCP and Ethernet/IP

# MULTIBELT® single and multi-idler belt weighers

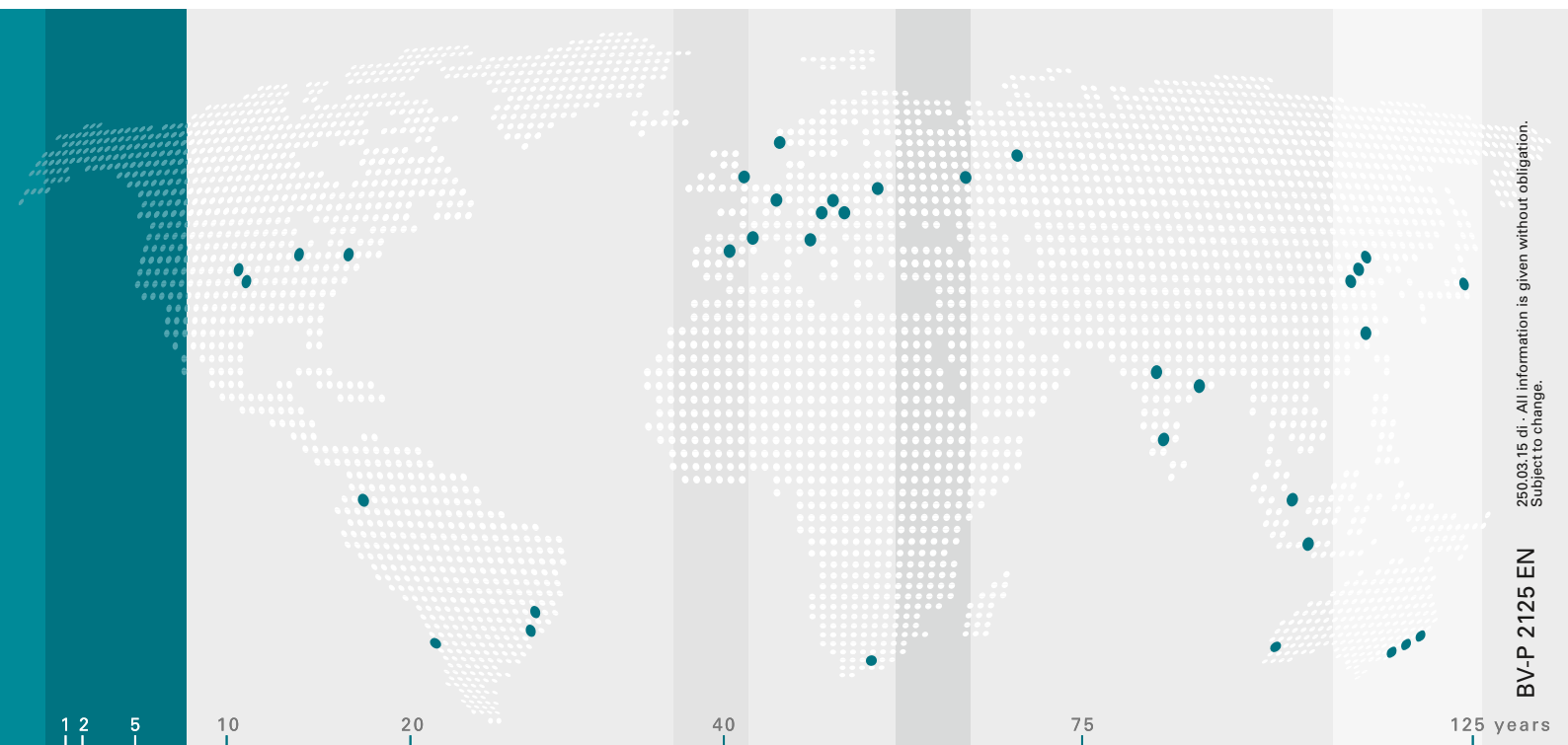
Any application can be custom designed to suit requirements.

	Single-idler belt scales			Multi-idler belt scales		
	MULTIBELT® BEM	MULTIBELT® BEP	MULTIBELT® BED	MULTIBELT® BMP	MULTIBELT® 2BMP	MULTIBELT® BMC
						
<b>Application industries</b>	<ul style="list-style-type: none"> <li>• Aggregates</li> <li>• Mining</li> <li>• Animal feed</li> <li>• Recycling</li> </ul>	<ul style="list-style-type: none"> <li>• Mining</li> <li>• Recycling</li> <li>• Cement</li> <li>• Aggregates</li> </ul>	<ul style="list-style-type: none"> <li>• Mining</li> <li>• Recycling</li> <li>• Cement</li> <li>• Aggregates</li> </ul>	<ul style="list-style-type: none"> <li>• Mining</li> <li>• Recycling</li> <li>• Mineral processing</li> </ul>	<ul style="list-style-type: none"> <li>• High accuracy mining</li> <li>• Ports</li> <li>• Loading stations</li> <li>• Cement</li> </ul>	<ul style="list-style-type: none"> <li>• High accuracy mining and ports with heavy loads</li> <li>• LFT applications</li> </ul>
<b>Feed rate</b>	4,000 t/h	6,000 t/h	15,000 t/h	15,000 t/h	15,000 t/h	20,000 t/h
<b>Belt speed</b>	up to 6 m/s			up to 6 m/s		
<b>Load cells</b>	2	1	1	1	2	4-6
<b>Idlers</b>	1			2	2	4-6
<b>Belt widths</b>	400 – 1,400 mm	400 – 1,400 mm	1,400 – 2,000 mm	400 – 2,000 mm	400 – 2,000 mm	500 – 2,000 mm
<b>Accuracy</b>	± 1%	± 1%	± 1%	± 0.5%	± 0.25%	± 0.25%

## Ordering Data

For us to be able to handle your order smoothly and quickly, please provide the following data

- ❖ Belt width (mm)
- ❖ Flow rate (t/h)
- ❖ Belt rise (°)
- ❖ Belt speed (m/s)
- ❖ Accuracy (%)
- ❖ Nominal flow rate
- ❖ Actual flow rate



250.03.15 dt. - All information is given without obligation.  
Subject to change.

BV-P 2125 EN

The Schenck Process Group is a global leader in  
weighing and feeding technology /// screening and separation systems for bulk materials /// dust collection and air  
filtration technology /// pneumatic and mechanical conveying solutions /// automation and diagnostic technology

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we make processes work

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