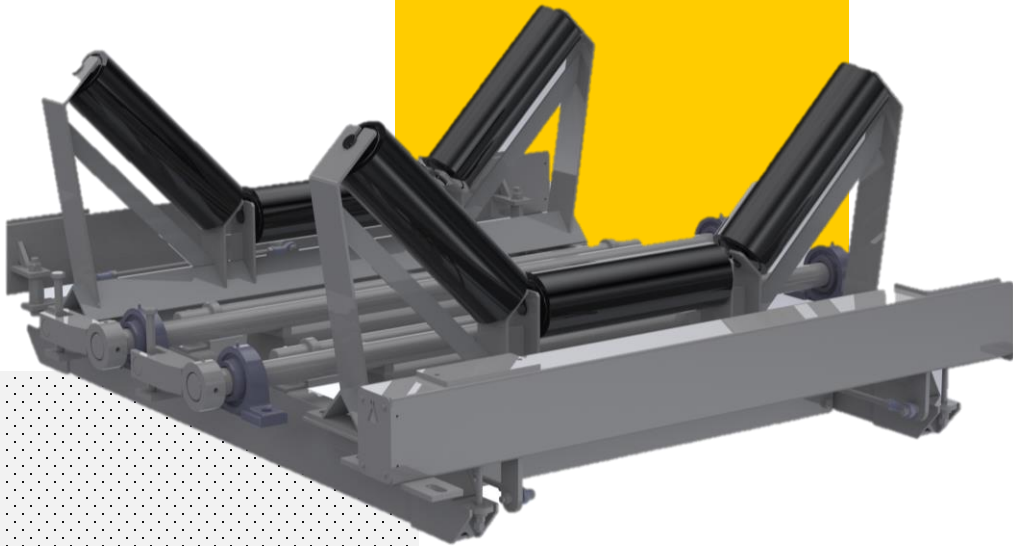




**ACCURATE**  
INDUSTRIES

*ACCURATE INDUSTRIES IS YOUR PARTNER, FOR THE  
IMPROVED PERFORMANCE, PURITY & EFFICIENCY  
OF MATERIAL FLOW SYSTEMS  
FOR MINING & QUARRYING*



# **BELT WEIGHER SYSTEMS BROCHURE**



ABN 99 657 158 524  
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# Improve system control & balance with reliable, high accuracy Belt Weighers from Accurate Industries

## PRECISE

The highest possible accuracy for the equipment & conditions

## ROBUST

Made for the environment, our Belt Weighers are built to last

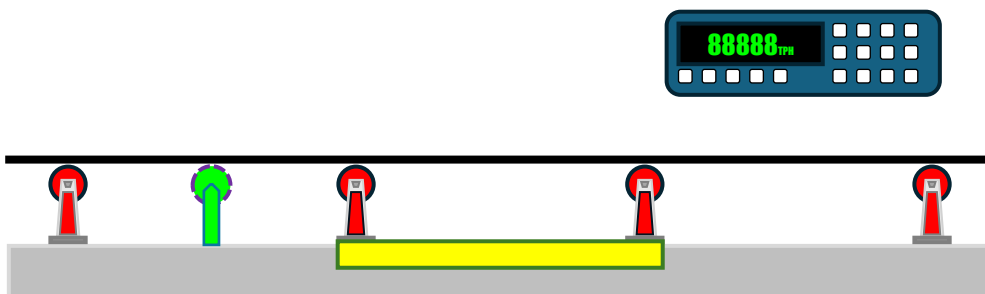
## FLEXIBLE

Flexible designs to meet all requirements & conveyor types

Belt Weigher Systems measure the weight and speed of product on a belt to calculate rates and totals. To achieve this outcome there are four key elements to all Belt Weigher Systems.

**WEIGH QUALITY IDLER FRAMES & ROLLERS:** Weigh quality Idler Frames & Rollers form the critical & sensitive physical connection between the weighing system & the conveyor belt.

**INTEGRATORS:** Integrators perform the final & essential role of combining the weight and speed signals & converting those signals into rates and totals on a display as well as supplying live output data to the site control system.



**SPEED SENSORS:** Typically, a rotary encoder type of device, Speed Sensors measure the speed of the conveyor belt & are available in a variety of types and styles to suit various applications.

**WEIGH FRAMES:** Weigh Frames are typically made of steel & contains weight sensitive transducers to perform the weight measurement function of the system.

*Monitor Production Output, Monitor Inventory or Regulate product load out for quarries, mines, process plants, ports and more.*

# WEIGH QUALITY IDLER FRAMES & WEIGH QUALITY ROLLERS



The use of Weigh Quality Idler Frames fitted with Weigh Quality Rollers is essential for overall system accuracy. Accurate Industries manufacture Weigh Quality Idler Frames in house to our own stringent design to ensure durability and correct distribution of weight to the Weigh Frame. All Weigh Quality Idler Frames supplied by Accurate Industries are fitted with Weigh Quality Rollers that are machined & balanced to the required ISO standards.



|                              | Description                                     |
|------------------------------|---|
| <b>Belt Widths</b>           | 600mm to 2400mm <sup>^</sup>                    |
| <b># Rollers/Idler</b>       | 1, 3, or 5                                      |
| <b>Roller Lengths</b>        | Per application                                 |
| <b>Roller Case Material</b>  | Heavy Duty Mild Steel (option: Stainless Steel) |
| <b>Roller Case Thickness</b> | Per application                                 |
| <b>Bearings</b>              | Heavy Duty                                      |

<sup>^</sup>Custom widths available

## INTEGRATORS

Whatever the application, Accurate Industries has an integrator to meet the requirements. Accurate Industries represent some of the worlds leading and industry respected brands EMC ModWeigh & Schenck Process Intecon Tersus to process measurement signals and deliver critical material flow data to operators and plant control systems.



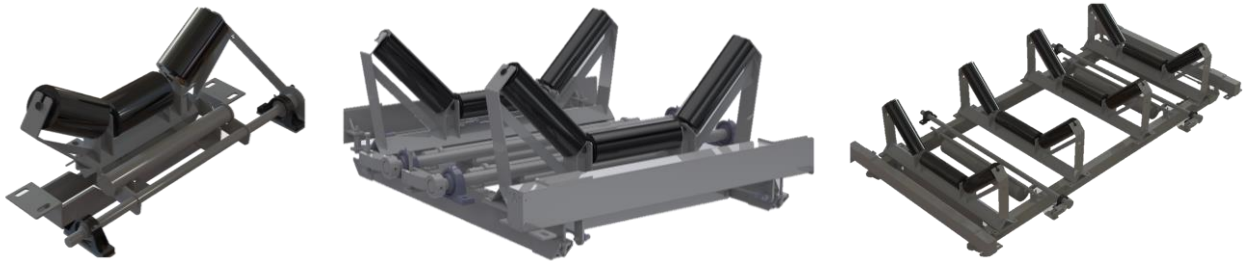
SCHENCK PROCESS INTECONT TERSUS



EMC MODWEIGH

# WEIGH FRAMES

Accurate Industries offer a comprehensive range of Weigh Frame sizes, types and accuracy classes to suit a wide variety of applications & requirements. Manufactured in house to our own industry leading design to overcome the most challenging environments, Accurate Industries Weigh Frames are available from +/- 0.25% accuracy, subject to belt speed, application and location. Each Weigh Frame is custom designed & built.



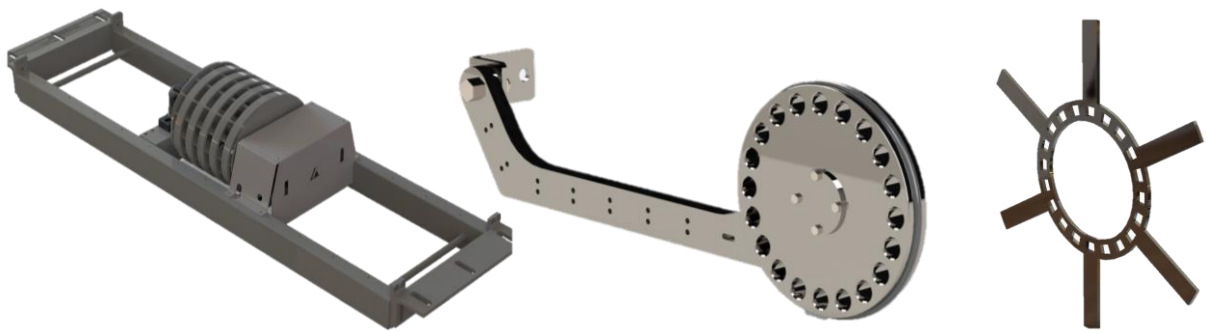
- ✓ Direct belt loading measurement, no pivots, lever arms or bearings
- ✓ Designed to minimise material build-up

|  | COMPACT (Single Idler)      | MULTI  |
|--|-----------------------------|--|
| <b>Belt Widths</b>                         | 400mm to 750mm <sup>^</sup> | 450mm to 2200mm <sup>^</sup>                                     |
| <b>Idler Spacing</b>                       | N/A                         | 900mm to 1500mm  |
| <b># Idlers with rollers</b>               | 1 x Standard                | 2, 3 or 4 Weigh Quality Idler Frames with Weigh Quality Rollers  |
| <b>Accuracy</b>                            | From +/- 1%*                | From +/- 0.25%*  |
| <b>Construction</b>                        | Stainless Steel             | Heavy Duty Mild Steel (Option: Stainless Steel)                  |
| <b>Finish</b>                              | Bead Blast                  | Hot Dipped Galvanised (Option: Bead Blasted for Stainless Steel) |
| <b># Load Cells</b>                        | 1                           | 4 connected in parallel  |
| <b>Load Cell Rating</b>                    | OIML R-60, 150% overload    | OIML R-60, 150% overload   |
| <b>Stored In Place Calibration Weights</b> | Option (as shown)           | 2, 3, or 4   |

\*System accuracy is dependent on speed, environmental conditions, & installation location  
<sup>^</sup>Custom widths available

# SPEED SENSORS

Precise & consistent speed measurement is essential for Belt Weigher System accuracy. Conveyor characteristics vary greatly from one to another, and to meet that variability Accurate Industries provides a range of robust & industry proven speed sensor options to deliver the best possible speed measurement. Accurate industries Speed Sensors are also suitable for use with Tramp Metal Detectors, Continuous Belt Speed Monitoring & Belt under Speed measurement.



|                     | SPIRAL CAGE  | TRAILING ARM                                    | DRUM FLAG MARKER                            |
|---------------------|--|---|---|
| <b>Belt Widths</b>  | 600mm to 2400mm <sup>^</sup>   | N/A   | N/A   |
| <b>Belt Speeds</b>  | 0.1 m/s up to 5 m/s  | 0.1 m/s up to 3 m/s                             | N/A   |
| <b>Output</b>       | Up to 25 pulses/m (Option: Additional Outputs)   | Up to 33 pulses/m                               | Dependant on size of drum                   |
| <b>Construction</b> | Heavy Duty Mild Steel (Option: Stainless Steel)  | Heavy Duty Mild Steel (Option: Stainless Steel) | Heavy Duty Mild Steel                       |
| <b>Finish</b>       | Hot Dipped Galvanised (Option: bead blast for Stainless Steel)                                   | Anodized (Bead Blast for Stainless Steel)       | Zinc  |
| <b>Bearings</b>     | Standard (Option: Heavy Duty)  | Standard  | Standard                                    |
| <b>Sensor</b>       | 3 wire NPN (Option: 2 Wire, Namur, or more)  | 3 wire NPN (Option: 2 Wire, Namur, or more)     | 3 wire NPN (Option: 2 Wire, Namur, or more) |
| <b>Features</b>     | Self-cleaning  | Simple installation                             | Simple installation                         |
|                     | Robust, low wear, low maintenance and high reliability   | Can be mounted close to the Belt Weigher        | Easy replacement                            |
|                     | Can be mounted close to the Belt Weigher reducing installation costs & improving system accuracy |   |   |

<sup>^</sup>Custom widths available



**ACCURATE**  
INDUSTRIES

**BELT WEIGHER** ● **TRAMP METAL DETECTOR**  
**MAGNETIC SEPARATOR** ● **WEIGH FEEDER**

**SALES**

**SERVICE**

**SPARES**



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