



COBRA 365 ELECTRONIC CONTROL UNIT

- ✓ **CUSTOM MADE**
- ✓ **HIGH ACCURACY**
- ✓ **HEAVY STRUCTURE**
- ✓ **MAXIMUM PRECISION**

Belt scales are used to transform a conveyor belt into a weighing belt. Belt scales help maximize the use of raw materials, control inventories or regulate feed rates.

Examples are feed rate for mills, crushers or screens or process output quantification.

PPS belt scales are custom designed and produced to fit the specific belt structure.

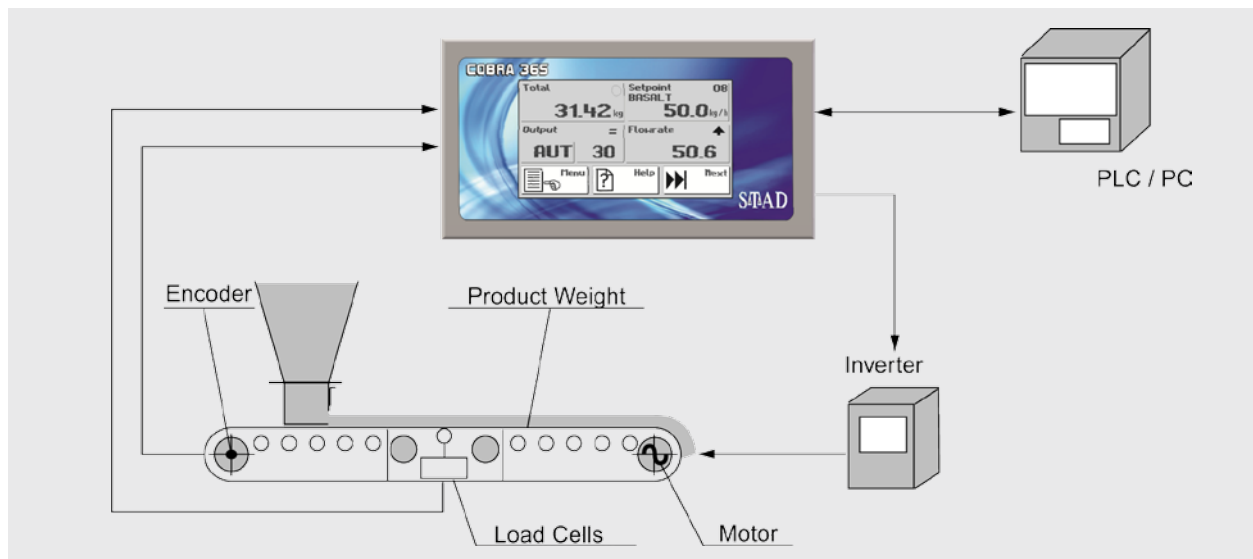
This characteristic helps reduce the installation time, reduces modifications on the belt on site and guarantees the most favorable outcome in terms of accuracy and reliability.

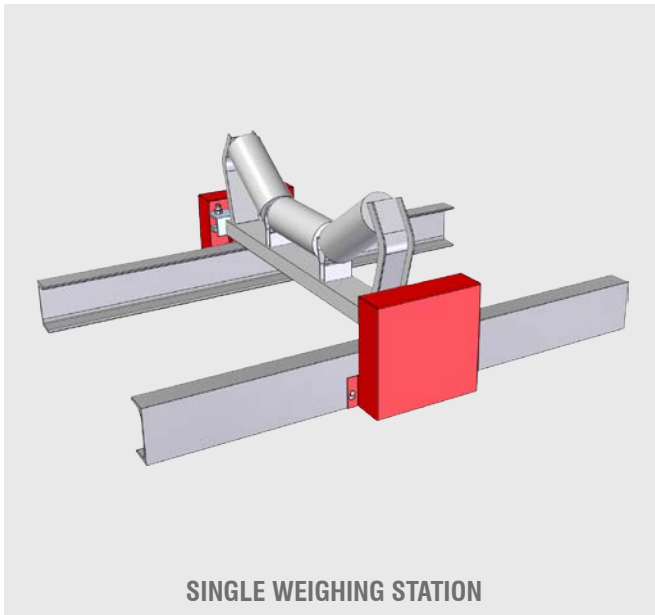
PPS belt scales feature a heavy duty structure on which install the existing troughing set of rollers (modified according to our drawings), a junction box and a speed-detecting encoder.

Load cells with high overload factor for accidental load protection (available also, as an option, stainless steel load cells).

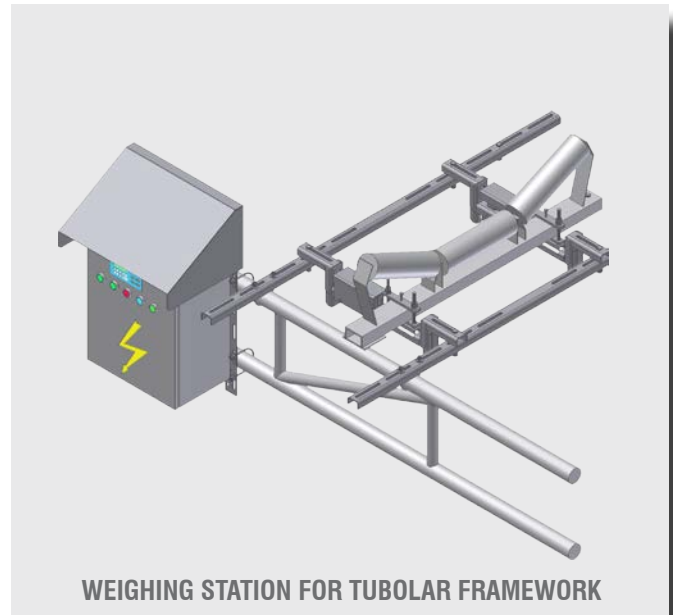
Coupled with the PPS belt scale, a COBRA 365 Controller provides both totalizer or flow regulator functions (extractor belts only).

Weight and flow rate can be transmitted in several ways (impulses, analogue output or serial port according to different protocols).

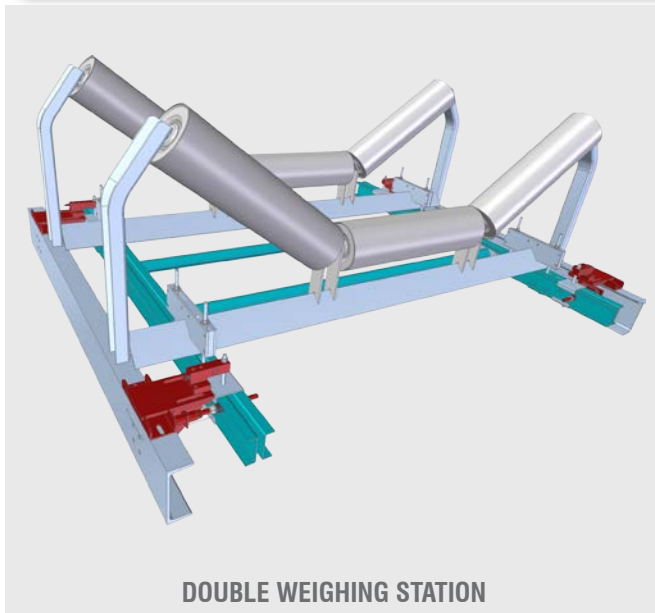




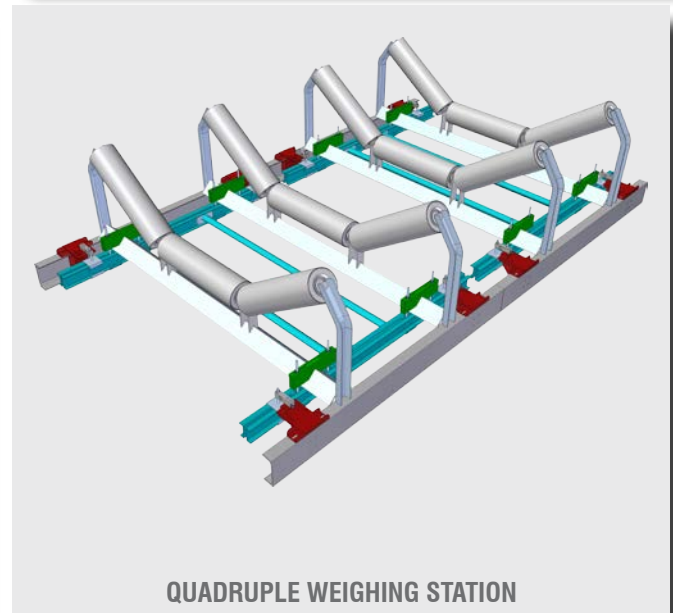
SINGLE WEIGHING STATION



WEIGHING STATION FOR TUBULAR FRAMEWORK



DOUBLE WEIGHING STATION



QUADRUPLE WEIGHING STATION

TECHNICAL FEATURES

| | |
|------------------------------------|--|
| Main structure | Carbon steel or stainless steel |
| Surface treatment | Powder coating or/and galvanization |
| Load cells | Off center C3 |
| Encoder | Incremental encoder 1000 pulses/round |
| Carters | Carbon steel or stainless steel |
| Weighing station height adjustment | Threaded bar |
| Load cell block system | Screw |
| Control electronic unit | COBRA 365 |
| Electrical junction boxes | Available for load cells and encoder |
| IP protection of load cells | IP65 or IP67 (depending on application) |
| IP protection of encoder | IP 56 or IP66 (depending on application) |
| Local control panel | Available as an option |
| ATEX conformity | Available as an option for ATEX 22 zones |



ATEX

| Product information | | | Informazioni sul prodotto | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|--|--|--|-------------------|-----|------|------------------|--|--|-------------------------------|--------------------|------|----------------------------|--|--|----------------|--------------------|------|---------------|--|--|-----------------------------|--------------------|-----|--------------------|-----|--------------------------|---------------------|-----|-------|---------------------------|--|--|------------------------------|-----|----|------|----|------------------------|---------------------|---------------------------------------|---------------------------------------|---|---------------------|--|---------------------|-----|----|-------------------------|--|--|
| Product name Nome prodotto | (*) | Apparent specific weight Peso specifico apparente | tra | (*) | kg/m ³ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Common name Nome comune | | Chemical name or composition Nome chimico o composizione | | CAS Number No. CAS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Humidity Umidità | % | Angle of rest Angolo di riposo | ° | Particle size from Granulometria da | (*) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | up to fino a | (*) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Product form & characteristics | | | Forma e caratteristiche del prodotto | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Powder Polvere | <input type="checkbox"/> Pellets | <input type="checkbox"/> Sticky Appiccicoso | <input type="checkbox"/> Electrostatic Elettrostatico | <input type="checkbox"/> Irritant Irritante | <input type="checkbox"/> Flammable Infiammabile | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Gravel Ghiaia | <input type="checkbox"/> Fibres Fibre | <input type="checkbox"/> Bridging Fa ponte | <input type="checkbox"/> Hygroscopic Igroscopico | <input type="checkbox"/> Caustic Caustico | <input type="checkbox"/> Explosive Esplosivo | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Granulate Granulato | <input type="checkbox"/> Chips | <input type="checkbox"/> Abrasive Abrasivo | <input type="checkbox"/> Corrosive Corrosivo | <input type="checkbox"/> Toxic Tossico | <input type="checkbox"/> Oxidizing Ossidante | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | <input type="checkbox"/> Perishable Degradabile | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | <input type="checkbox"/> Fibrous Fibroso | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | <input type="checkbox"/> Greasy Oleoso | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <td>Portata di lavoro</td> <td>Q =</td> <td>kg/h</td> <td colspan="3">Nominal capacity</td> </tr> <tr> <td>Portata massima (fondo scala)</td> <td>Q_{max} =</td> <td>kg/h</td> <td colspan="3">Max. capacity (full scale)</td> </tr> <tr> <td>Portata minima</td> <td>Q_{min} =</td> <td>kg/h</td> <td colspan="3">Min. capacity</td> </tr> <tr> <td>Velocità min. / max. nastro</td> <td>V_{min} =</td> <td>m/s</td> <td>V_{max} =</td> <td>m/s</td> <td>Max. / Min. belt's speed</td> </tr> <tr> <td>Inclinazione nastro</td> <td>α =</td> <td>° deg</td> <td colspan="3">Conveyor belt inclination</td> </tr> <tr> <td>Larghezza e spessore tappeto</td> <td>W =</td> <td>mm</td> <td>Th =</td> <td>mm</td> <td>Belt width & thickness</td> </tr> <tr> <td>Tipo stazione rulli</td> <td><input type="checkbox"/> Flat / Piano</td> <td><input type="checkbox"/> V type / a V</td> <td><input type="checkbox"/> U type / a terna</td> <td colspan="2">Roller station type</td> </tr> <tr> <td>Peso stazione rulli</td> <td>P =</td> <td>kg</td> <td colspan="3">Weigh of roller station</td> </tr> </table> | | | | | | Portata di lavoro | Q = | kg/h | Nominal capacity | | | Portata massima (fondo scala) | Q _{max} = | kg/h | Max. capacity (full scale) | | | Portata minima | Q _{min} = | kg/h | Min. capacity | | | Velocità min. / max. nastro | V _{min} = | m/s | V _{max} = | m/s | Max. / Min. belt's speed | Inclinazione nastro | α = | ° deg | Conveyor belt inclination | | | Larghezza e spessore tappeto | W = | mm | Th = | mm | Belt width & thickness | Tipo stazione rulli | <input type="checkbox"/> Flat / Piano | <input type="checkbox"/> V type / a V | <input type="checkbox"/> U type / a terna | Roller station type | | Peso stazione rulli | P = | kg | Weigh of roller station | | |
| Portata di lavoro | Q = | kg/h | Nominal capacity | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Portata minima | Q _{min} = | kg/h | Min. capacity | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Velocità min. / max. nastro | V _{min} = | m/s | V _{max} = | m/s | Max. / Min. belt's speed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inclinazione nastro | α = | ° deg | Conveyor belt inclination | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Larghezza e spessore tappeto | W = | mm | Th = | mm | Belt width & thickness | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tipo stazione rulli | <input type="checkbox"/> Flat / Piano | <input type="checkbox"/> V type / a V | <input type="checkbox"/> U type / a terna | Roller station type | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peso stazione rulli | P = | kg | Weigh of roller station | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| System specification | | | Specifiche del sistema | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Construction material | <input type="checkbox"/> Fe <input type="checkbox"/> AISI 304 <input type="checkbox"/> AISI 316 | | Materiali a contatto | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Finishing: <input type="checkbox"/> powder coating | RAL | Finitura: <input type="checkbox"/> verniciatura a polveri | RAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Protection | IP | | Grado di protezione | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Analogue output | <input type="checkbox"/> 0...10 V <input type="checkbox"/> 0...20 mA <input type="checkbox"/> 4...20 mA | | Uscita analogica | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Use of the belt scale | <input type="checkbox"/> Flow regulation / reg. portata | <input type="checkbox"/> Totalizer / Totalizzatore | Utilizzo del ponte di pesatura | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Serial communication | <input type="checkbox"/> No <input type="checkbox"/> Ethernet <input type="checkbox"/> ModBus <input type="checkbox"/> ProfiBus | | Comunicazione seriale | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Controller's installation | <input type="checkbox"/> Field / in campo <input type="checkbox"/> Panel / su QE remoto | | Installazione strumento | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Field panel included in the offer | <input type="checkbox"/> Yes / Sì <input type="checkbox"/> No | | Quadro locale incluso nell'offerta | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Supervising PLC | <input type="checkbox"/> Yes / Sì <input type="checkbox"/> No | | PLC di supervisione | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| If yes, state the brand | | | Se sì, indicare marca | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Other info | | | Altre informazioni | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

ESEMPIO DI DISEGNO DA FORNIRE PER REALIZZAZIONE PPS
EXAMPLE OF DRAWING TO PROVIDE FOR CONSTRUCTION PPS

