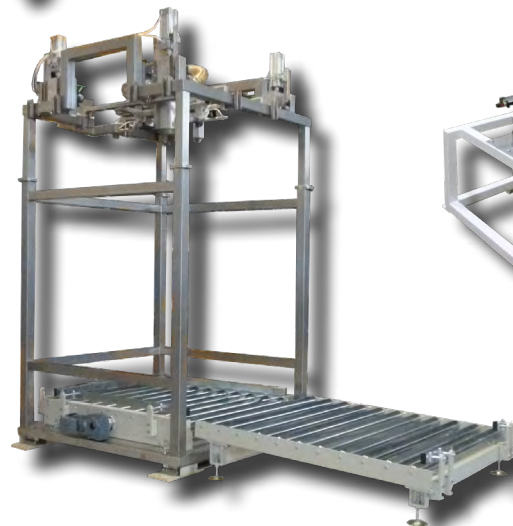
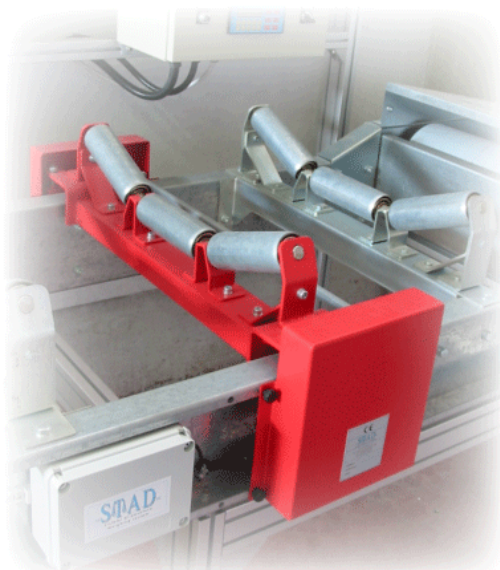
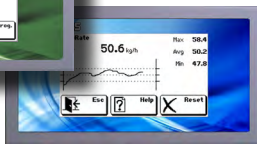
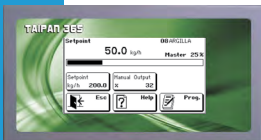
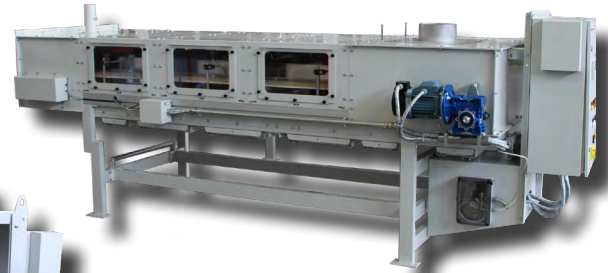


DYNAMIC WEIGHING TECHNICAL CATALOGUE



WEIGHING IN-MOTION ON CONVEYOR BELTS

WEIGHING BELTS / WEIGHING SCREW CONVEYORS

LOSS-IN-WEIGHT GRAVIMETRIC FEEDERS: BY AUGER / BY BELT / BY VIBRATING

FIBC LOADING/UNLOADING SYSTEMS

SYSTEMS & INSTALLATIONS

WEIGHING & DOSING SYSTEMS

STAD is a designer and manufacturer of weighing and dosing systems, machines and automatic plants. Our strength derives from the professionalism of our founders and their many years of experience in the plant engineering sector. Our engineers target the development and customisation of machines according to the specific requirements of the Customer and features of the product to be dosed. This experience has led us to expand the market for STAD systems - already widely used with machines dedicated to different production cycles in the ceramics industry - to any industry with a need to handle products in bulk: dye works, cement factories, manufacturers of adhesives for the building industry, concrete mixing equipment, foundries, glassworks, equipment for ecology, plastics, detergents, food, zootechnics, fodder industry, etc. Flagship STAD products are weighing and dosing systems suitable for continuous duty cycles with capacity controlled via weighing belts or gravimetric dosing systems. The extreme flexibility of the STAD structure allows us to offer customised solutions to meet any dosing requirement: batch weighing, master-slave systems, dosing according to recipes managed by PLC and/or PC.



ON-SITE LAB

Our on-site lab can test your products and develop the best solution to the specific need.



WEIGHING IN-MOTION ON CONVEYOR BELTS

BELT SCALE PPS

4**WEIGHING BELTS / WEIGHING SCREW CONVEYORS**

LIGHT-DUTY WEIGHING BELT NPS

6

STAINLESS STEEL WEIGHING BELT NPS-A

8

FOOD COMPLIANT STAINLESS STEEL WEIGHING BELT NPS-AT

10

ENCLOSED WEIGHING BELT NPS-C

12

HEAVY-DUTY WEIGHING BELT WBE

14

WEIGHING SCREW CONVEYOR CDS

16**DOSING ELECTRONICS**

PID IN-MOTION ELECTRONIC CONTROLLER COBRA 365

18**LOSS-IN-WEIGHT (LIW) GRAVIMETRIC FEEDERS**

LOSS-IN-WEIGH AUGER FEEDER / STANDARD LINE DPC-X

20

LOSS-IN-WEIGH AUGER FEEDER / FLEX LINE DPC

22

LOSS-IN-WEIGH BELT FEEDER DPN

24

ENCLOSED LOSS-IN-WEIGH BELT FEEDER DPN-C

26

LOSS-IN-WEIGH VIBRATING FEEDER DPV

28**LIW DOSING ELECTRONICS**

PID GRAVIMETRIC LIW ELECTRONIC CONTROLLER TAIPAN 365

30**FIBC LOADING/UNLOADING SYSTEMS**

SINGLE STATION FIBC LOADER RPS

32

DOUBLE STATION FIBC LOADER RPS-2X

34

FIBC UNLOADING STATION SBB

36

FIBC UNLOADING STATION WITH HOIST SBB-P

38**SYSTEMS & INSTALLATIONS**

LIQUID DOSING SYSTEMS

40

PNEUMATIC TRANSPORT SYSTEMS

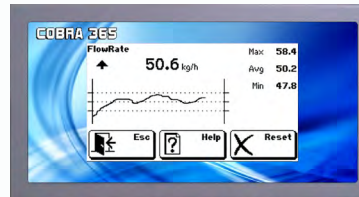
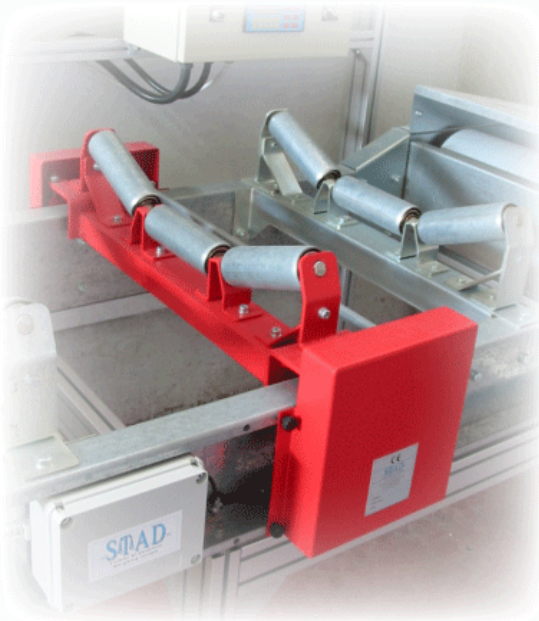
41

COMPLETE INSTALLATIONS

44

PPS

WEIGHING PLATFORM FOR CONVEYOR BELTS



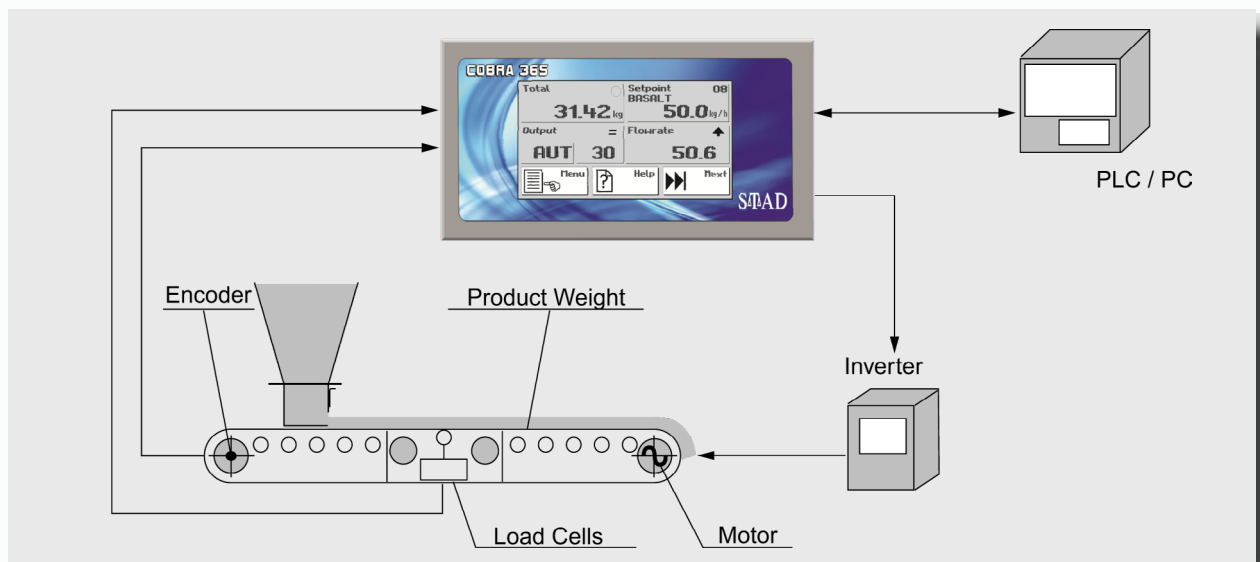
COBRA 365 ELECTRONIC CONTROL UNIT

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

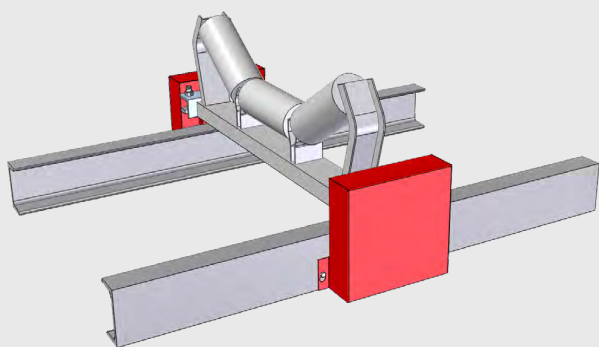
Belt scales are used to transform a conveyor belts into a weighing belts. Belt scales help maximize the use of raw materials, control inventories or regulate feed rates. Examples are feed rate for mills, crushers, screens or process output quantification.

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 guaranties 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).

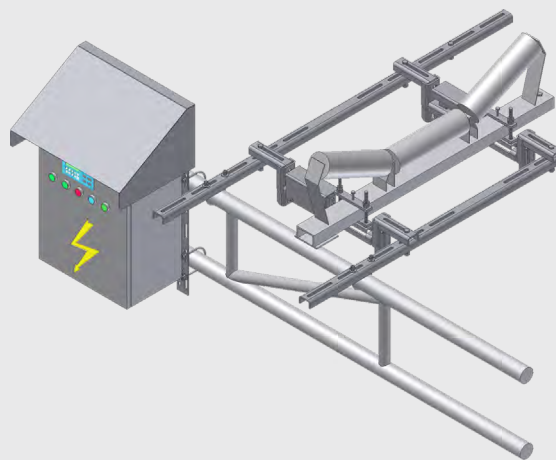
Coupled with the PPS belt scale, a COBRA 365 Controller provides both totalizer or flow regulator functions (extractor belts only). Weight and flow rate can be transmitted in several ways (impulses, analogue output or serial port according to different protocols).



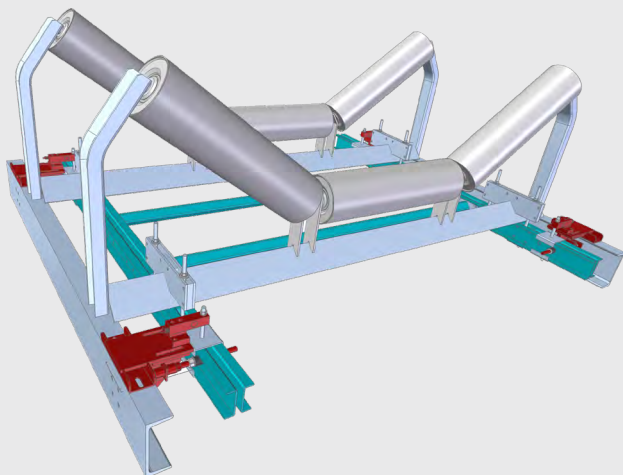
WEIGHING PLATFORM FOR CONVEYOR BELTS



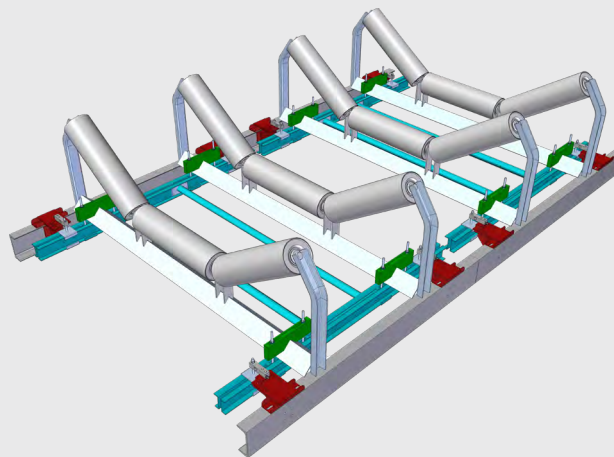
SINGLE WEIGHING STATION



WEIGHING STATION FOR TUBULAR FRAMEWORK



DOUBLE WEIGHING STATION



QUADRUPLE WEIGHING STATION

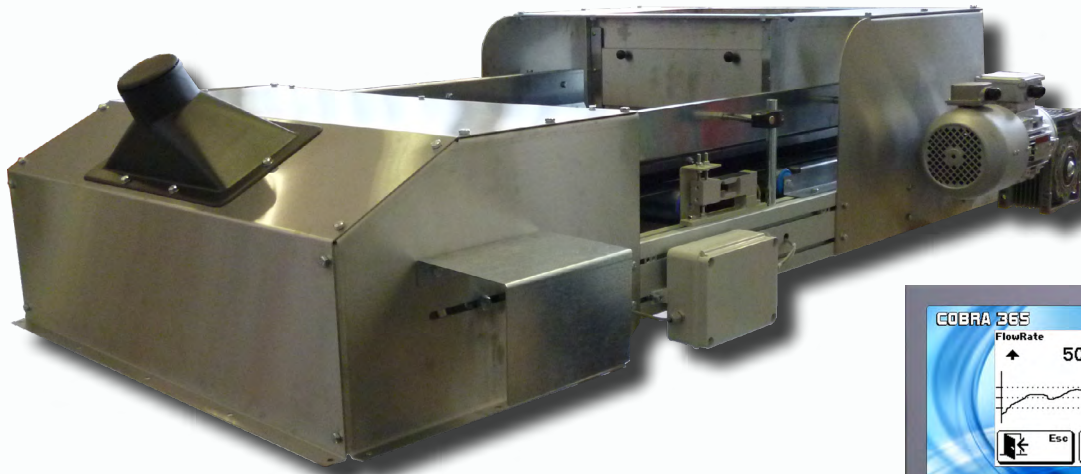
TECHNICAL FEATURES

| | |
|------------------------------------|--|
| 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 |



NPS

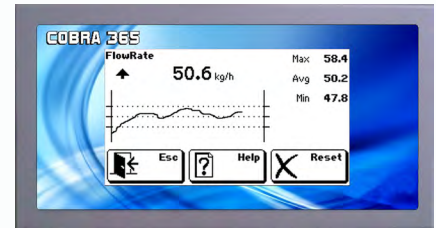
LIGHT-DUTY WEIGHING BELT



Made in Italy

✓ HIGH PRECISION

✓ UP TO 50 t/h



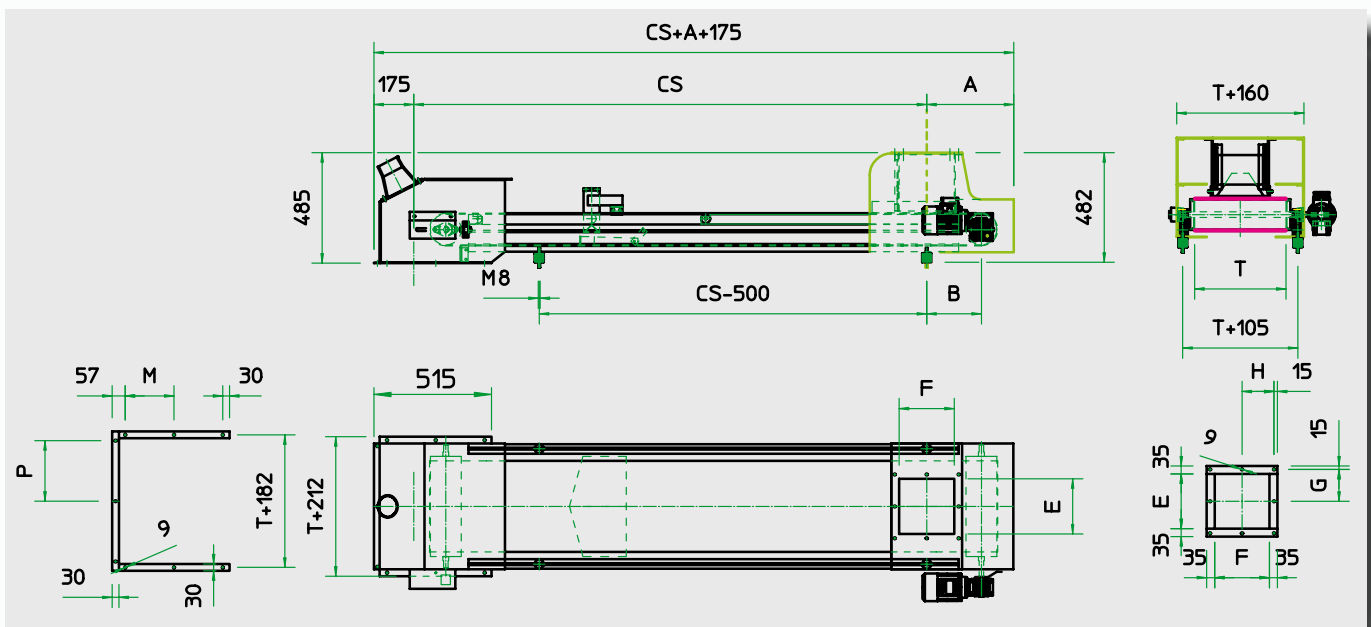
COBRA 365 ELECTRONIC CONTROL UNIT

The NPS series weighing belt is suitable for dispensing powders or granular materials. It has an operating capacity between 300 and 50.000 kg/h approximately.

Apart from the standard model, customized versions of the base model are available upon request.

The belt can extract the material from storage bins or hopper and can be used as fixed capacity dispenser for continuous duty.

COBRA 365 control unit also allows its use as weight totalizer, set weight dispenser, percentage master/slave dispenser.



STANDARD MODELS DIMENSIONS (mm)

| | T | CS | A | B | E | F | G | H |
|---------|-----|------|-----|-----|-----|-----|-----|-----|
| NPS 280 | 280 | 1550 | 336 | 195 | 150 | 150 | 95 | 95 |
| NPS 400 | 400 | 1550 | 382 | 240 | 242 | 242 | 140 | 140 |
| NPS 550 | 550 | 1700 | 461 | 320 | 400 | 400 | 220 | 220 |
| NPS 650 | 650 | 1700 | 461 | 320 | 400 | 400 | 220 | 220 |
| NPS 800 | 800 | 1900 | 461 | 320 | 500 | 400 | 270 | 220 |

REFERENCE MAXIMUM CAPACITY VALUES

Reference maximum capacity values specified below refer to the metering of material with small grain size and specific weight equal to 1 kg/dm³.

According to used motor drive, the allowed working range varies from 5 to 15 times.

| BELT MODEL | SPECIFIC WEIGHT (kg/dm ³) | MAX FLOW RATE (kg/h) |
|------------|---------------------------------------|----------------------|
| NPS 280 | 1.0 | 8.000 |
| NPS 400 | 1.0 | 15.000 |
| NPS 550 | 1.0 | 30.000 |
| NPS 650 | 1.0 | 40.000 |
| NPS 800 | 1.0 | 50.000 |



NPS: DETAIL OF THE LOAD CELL WITH HEIGHT ADJUSTMENT AND SAFE BLOCK

TECHNICAL FEATURES

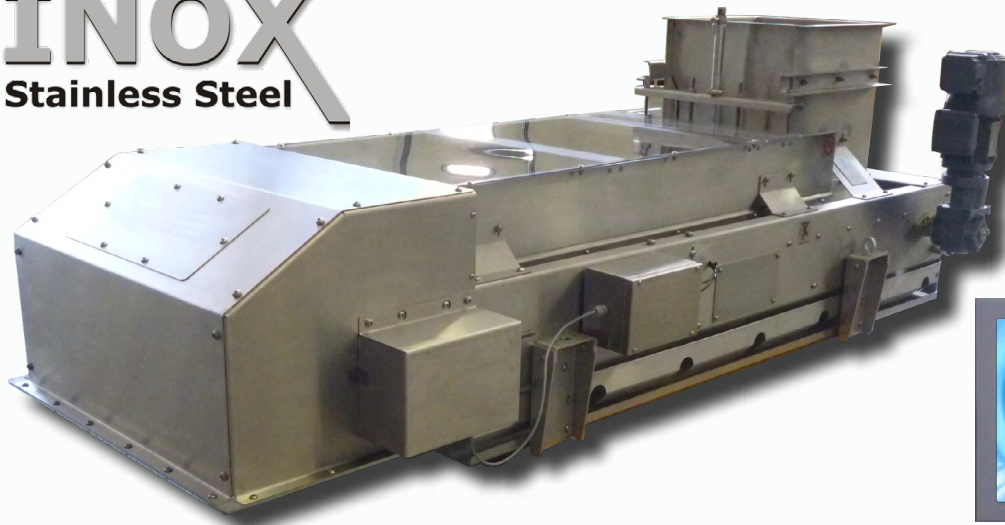
| | |
|-------------------------------|---|
| Main structure | Extruded aluminum profiles |
| Heads | Stainless steel |
| Loading and unloading hoppers | Stainless steel (optional) |
| Belt | Calibrated junction in various materials depending on the application |
| Side rails | Steel and soft bands depending on the application (optional) |
| Hood | Polycarbonate (optional) |
| Weighing system | Double off-center load cells C3 |
| Speed control | Incremental encoder 1000 pulses/round |
| Electrical junction boxes | Available for load cells and encoder |
| Motor | Asynchronous three-phase multi-voltage or brushless (optional) |
| Motor fan | Optional depending on the application |
| Anti-vibration mounts | Steel and rubber 60ShA |
| ATEX conformity | Available as an option for ATEX 22 zones |




NPS-A

STAINLESS STEEL WEIGHING BELT

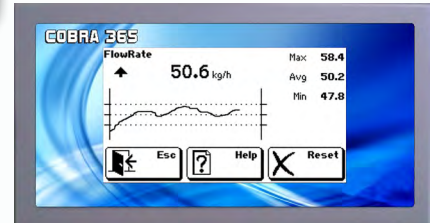
INOX
Stainless Steel



Made in Italy

 **HIGH PRECISION**

 **UP TO 30 t/h**



COBRA 365 ELECTRONIC CONTROL UNIT

The NPS-A series weighing belt is suitable for dosing powders or granular materials. It has an operating capacity between 300 and 30.000 kg/h approximately.

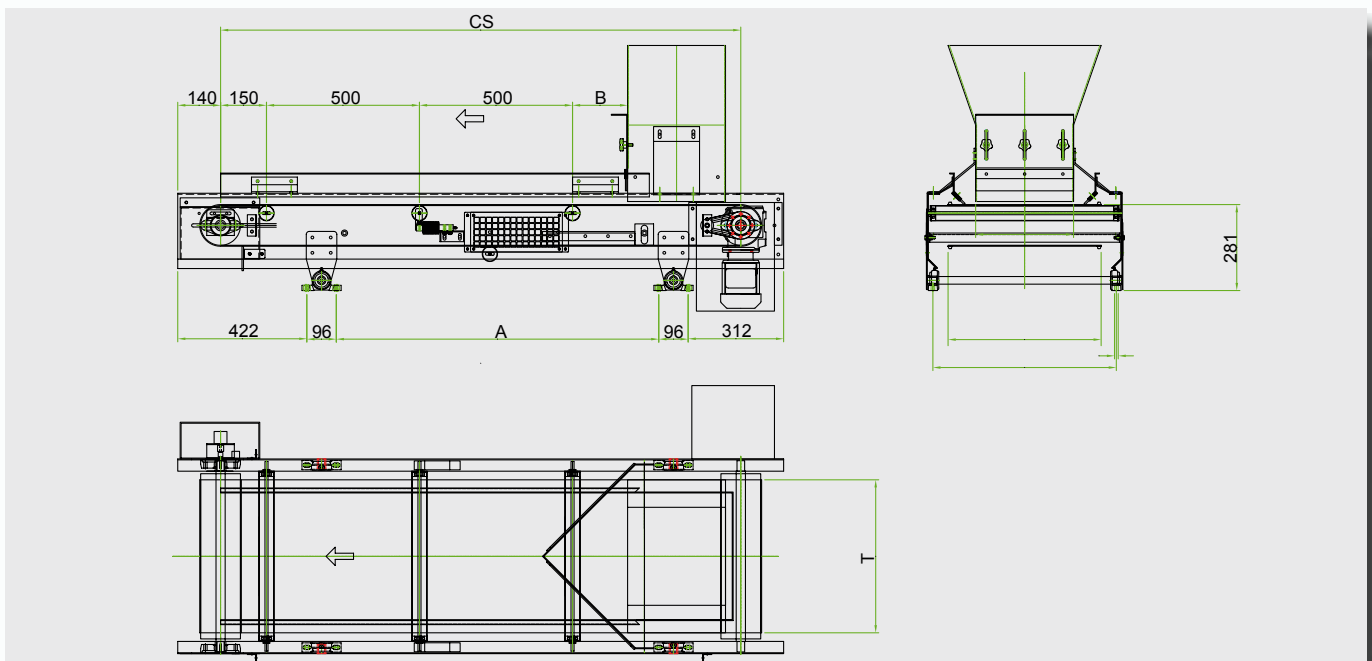
This `A` version is fully made of stainless steel and equipped with IP67/66 electronic parts.

Food grade belting allows use in the food industry.

Customized versions of the base model are available upon request.

The belt can extract the material from storage bins or hoppers and can be used as fixed capacity dispenser for continuous dosing cycles.

COBRA 365 control unit also allows its use as weight totalizer, set weight dispenser, percentage master/slave dispenser.



STANDARD MODELS DIMENSIONS (mm)

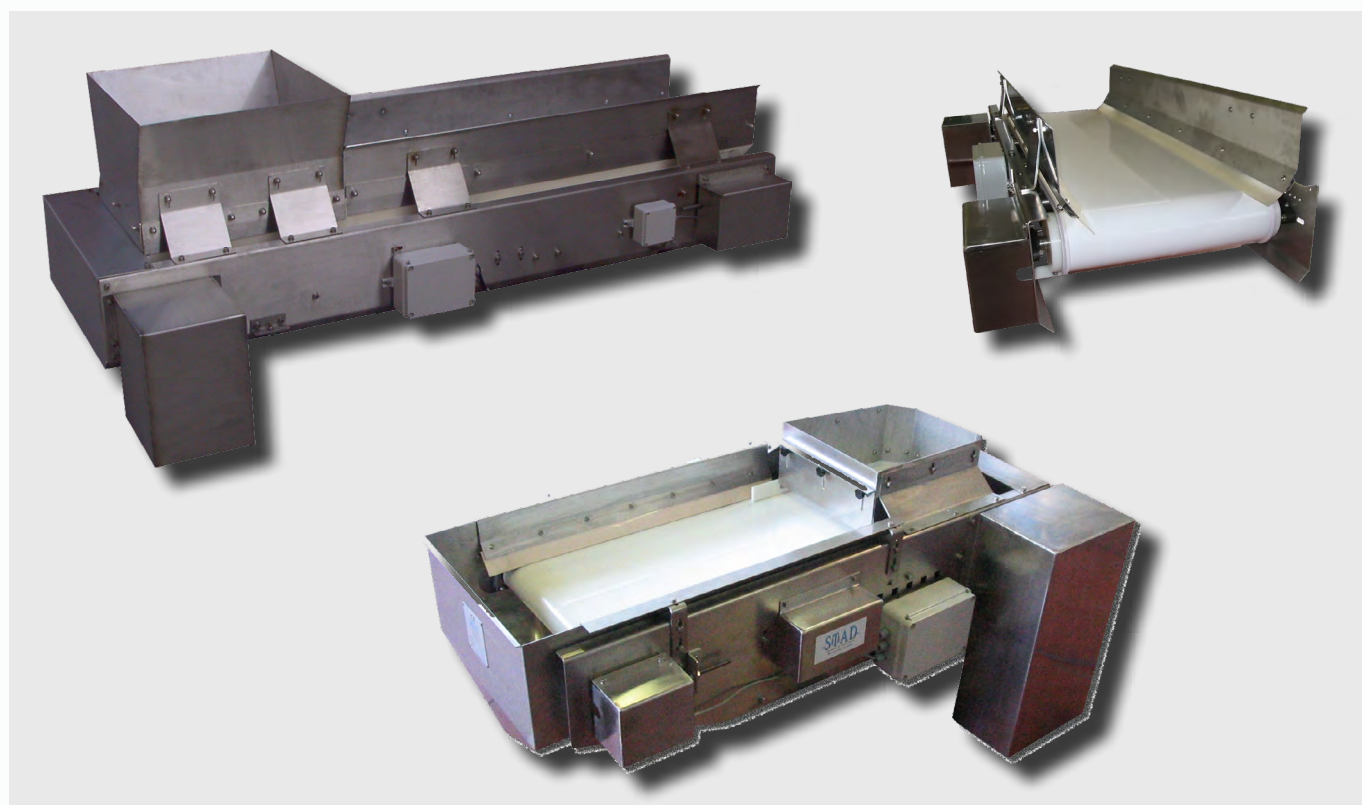
| | T | CS | A | B | E |
|------------|------|------|------|-----|------|
| NPS-A 400 | 400 | 1700 | 1054 | 180 | 500 |
| NPS-A 500 | 500 | 1700 | 1054 | 180 | 600 |
| NPS-A 700 | 700 | 2000 | 1354 | 480 | 800 |
| NPS-A 1000 | 1000 | 2400 | 1754 | 880 | 1100 |

REFERENCE MAXIMUM CAPACITY VALUES

Reference maximum capacity values specified below refer to the metering of material with small grain size and specific weight equal to 1 kg/dm³.

According to used motor drive, the allowed working range varies from 5 to 15 times.

| BELT MODEL | SPECIFIC WEIGHT (kg/dm ³) | MAX FLOW RATE (kg/h) |
|------------|---------------------------------------|----------------------|
| NPS 400 | 1.0 | 6.000 |
| NPS 500 | 1.0 | 10.000 |
| NPS 700 | 1.0 | 20.000 |
| NPS 1000 | 1.0 | 30.000 |

**TECHNICAL FEATURES**

| | |
|-------------------------------|--|
| Main structure | Stainless steel |
| Heads | Stainless steel |
| Loading and unloading hoppers | Stainless steel (optional) |
| Belt | Calibrated junction in various materials depending on the application |
| Side rails | Stainless steel and soft bands depending upon the application (optional) |
| Hood | Polycarbonate (optional) |
| Weighing system | Double stainless steel off-center load cells C3 |
| Speed control | Incremental encoder 1000 pulses/round IP66 |
| Electrical junction boxes | Available for load cells and encoder |
| Motor | Asynchronous three-phase multi-voltage or semi vectorial (optional) |
| Motor fan | Optional depending on the application |
| Bolts and supports | Stainless steel |
| ATEX conformity | Available as an option for ATEX 22 zones |



NPS-AT

FOOD COMPLIANT STAINLESS STEEL WEIGHING BELT

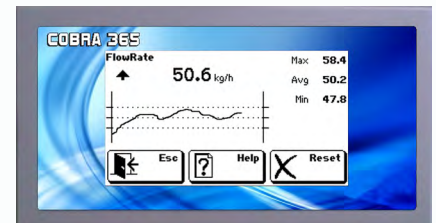


Made in Italy

✓ **HIGH PRECISION**

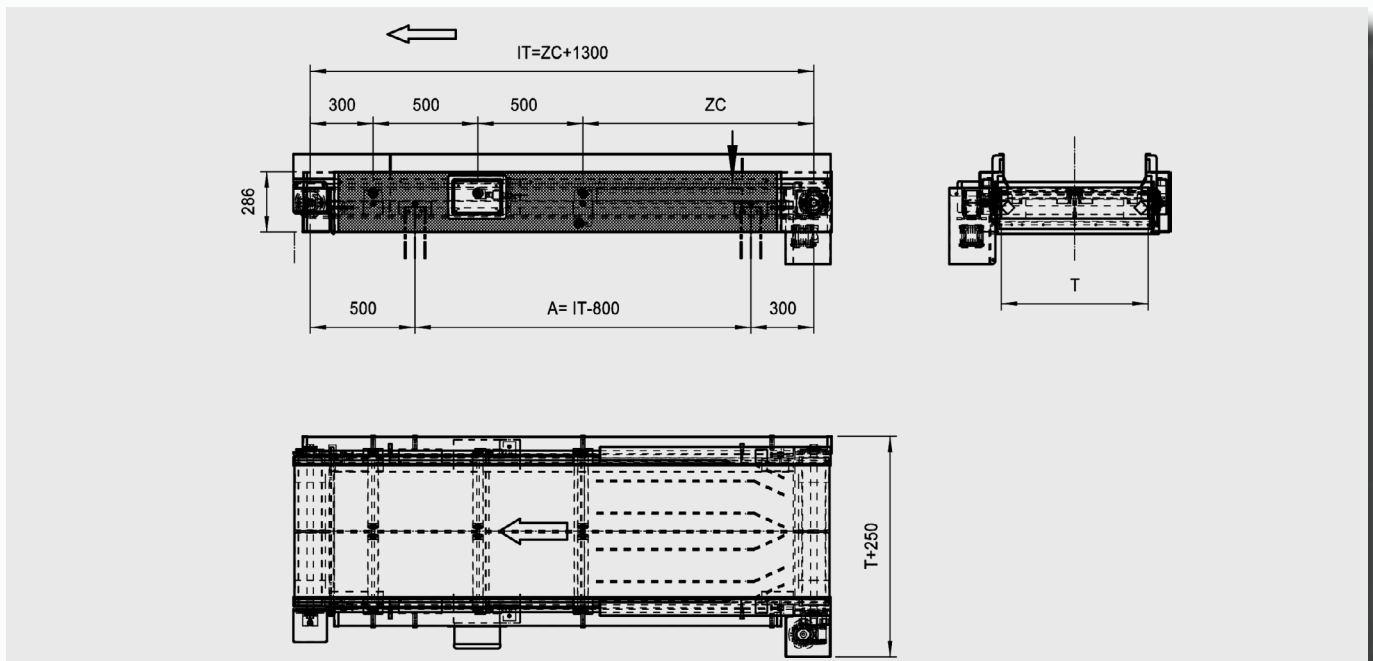
✓ **UP TO 30 t/h**

INOX
Stainless Steel



COBRA 365 ELECTRONIC CONTROL UNIT

The NPS-AT series weighing belt is suitable for dosing powders or granular materials. It has an operating capacity between 300 and 30.000 kg/h approximately. This `AT` version is fully made of stainless steel and equipped with IP67/66 electronic parts to allow water jet cleaning. Food grade belting allows use in the food industry. Customized versions of the base model are available upon request. The belt can extract the material from storage bins or hoppers and can be used as fixed capacity dispenser for continuous dosing cycles. COBRA 365 control unit also allows its use as weight totalizer, set weight dispenser, percentage master/slave dispenser.



STANDARD MODELS DIMENSIONS (mm)

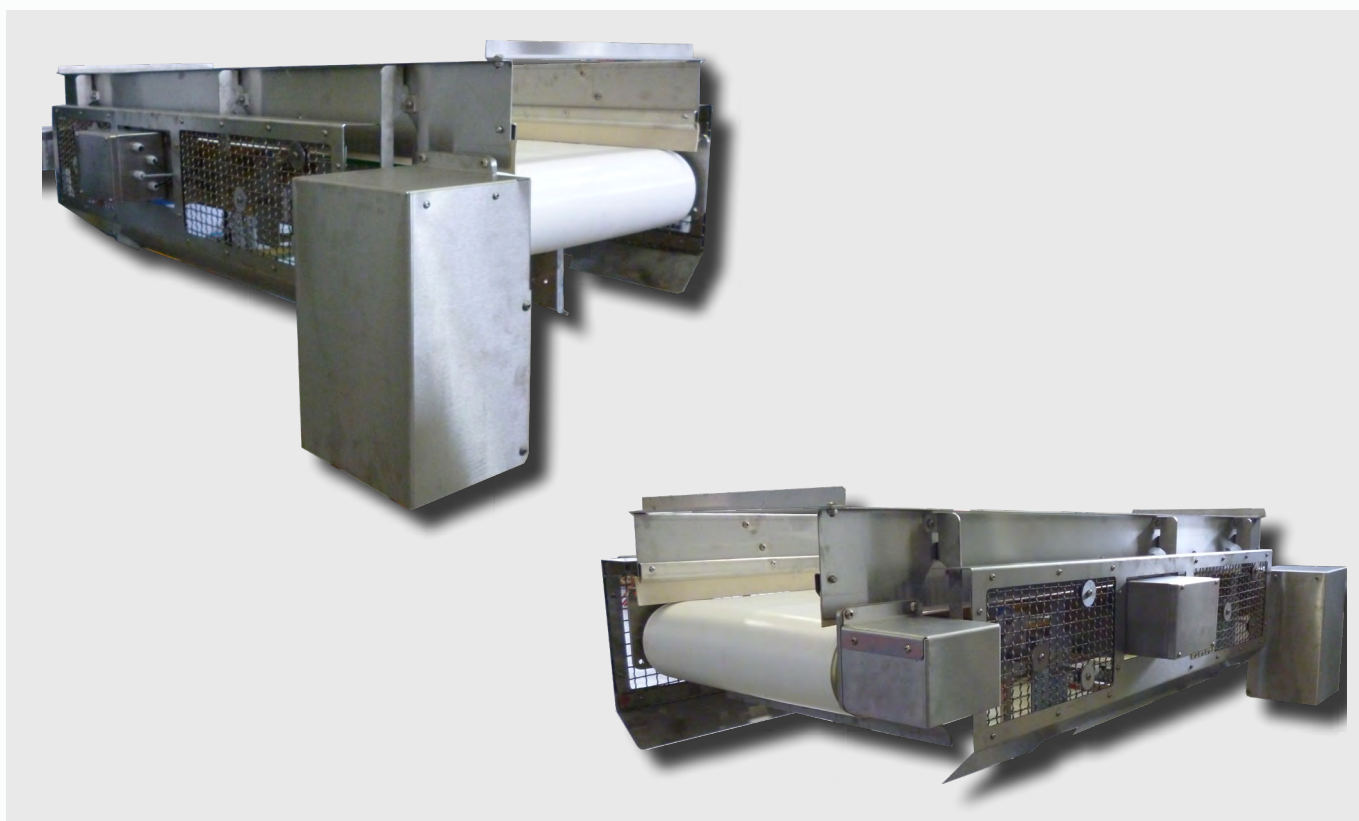
| | T | ZC | A | IT |
|-------------|------|------|------|------|
| NPS-AT 500 | 500 | 500 | 1000 | 1800 |
| NPS-AT 600 | 600 | 600 | 1100 | 1900 |
| NPS-AT 700 | 700 | 700 | 1200 | 2000 |
| NPS-AT 800 | 800 | 800 | 1300 | 2100 |
| NPS-AT 1000 | 1000 | 1000 | 1500 | 2300 |

FOOD COMPLIANT STAINLESS STEEL WEIGHING BELT**REFERENCE MAXIMUM CAPACITY VALUES**

Reference maximum capacity values specified below refer to the metering of material with small grain size and specific weight equal to 1 kg/dm³.

According to used motor drive, the allowed working range varies from 5 to 15 times.

| BELT MODEL | SPECIFIC WEIGHT (kg/dm ³) | MAX FLOW RATE (kg/h) |
|-----------------|---------------------------------------|----------------------|
| NPS 500 | 1.0 | 6.000 |
| NPS 600 | 1.0 | 10.000 |
| NPS 700 | 1.0 | 20.000 |
| NPS 800 | 1.0 | 25.000 |
| NPS 1000 | 1.0 | 30.000 |

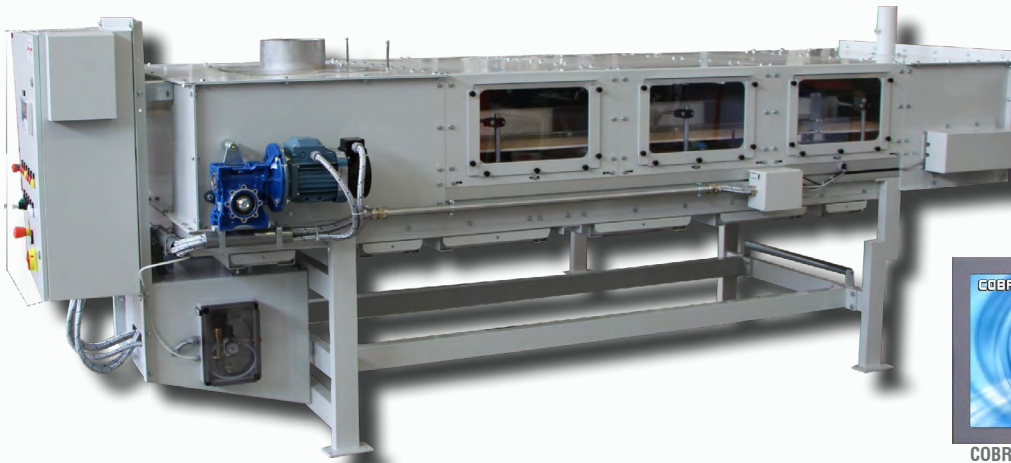
**TECHNICAL FEATURES**

| | |
|-------------------------------|--|
| Main structure | Stainless steel |
| Heads | Stainless steel |
| Loading and unloading hoppers | Stainless steel (optional) |
| Belt | Calibrated junction in various materials depending on the application |
| Side rails | Stainless steel and soft bands depending upon the application (optional) |
| Hood | Polycarbonate (optional) |
| Weighing system | Double stainless steel off-center load cells C3 |
| Speed control | Incremental encoder 1000 pulses/round IP66 |
| Electrical junction boxes | Available for load cells and encoder |
| Motor | Asynchronous three-phase multi-voltage or brushless (optional) |
| Motor fan | Optional depending on the application |
| Bolts and supports | Stainless steel |
| ATEX conformity | Available as an option for ATEX 22 zones |



NPS-C

ENCLOSED WEIGHING BELT



Made in Italy

✓ **HIGH PRECISION**

✓ **UP TO 50 t/h**



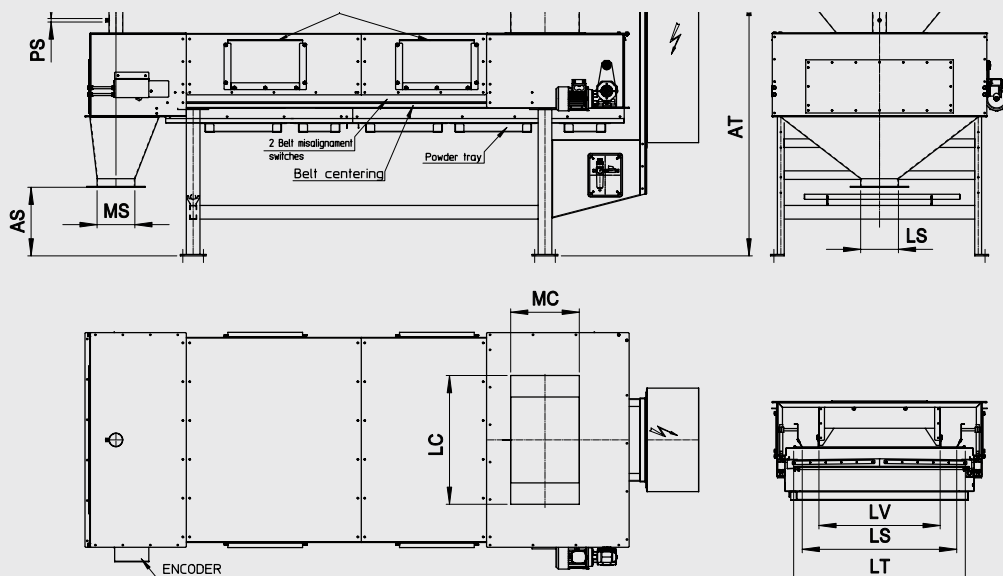
COBRA 365 ELECTRONIC CONTROL UNIT

The NPS-C series weighing belt is suitable for dispensing dust or grains. It has an operating capacity between 300 and 50.000 kg/h approximately.

The integral casing ensures the minimum dispersion of flying dust in ambient.

Apart from the standard model, some different versions, which can be customized, are also available. The belt can take the material from storage bins or hopper and can be used as fixed capacity dispenser for continuous duty.

COBRA 365 control unit also allows its use as weight totalizer, set weight dispenser, percentage master/slave dispenser.



STANDARD MODELS DIMENSIONS (mm)

| | LT | LS | CS | AT | LC | MC | AS | LS | MS |
|------------|------|-----|------|------|-----|-----|-----|-----|-----|
| NPS-C 280 | 280 | 180 | 1600 | 900 | 150 | 150 | 100 | 200 | 200 |
| NPS-C 400 | 400 | 300 | 1700 | 1000 | 250 | 250 | 100 | 300 | 300 |
| NPS-C 550 | 550 | 450 | 1700 | 1000 | 250 | 250 | 100 | 300 | 300 |
| NPS-C 800 | 800 | 700 | 1900 | 1200 | 450 | 450 | 100 | 400 | 300 |
| NPS-C 1000 | 1000 | 900 | 1900 | 1200 | 700 | 400 | 100 | 500 | 300 |

REFERENCE MAXIMUM CAPACITY VALUES

Reference maximum capacity values specified below refer to the metering of material with small grain size and specific weight equal to 1 kg/dm³.

According to used motor drive, the allowed working range varies from 5 to 15 times.

| BELT MODEL | SPECIFIC WEIGHT (kg/dm ³) | MAX FLOW RATE (kg/h) |
|------------|---------------------------------------|----------------------|
| NPS-C 280 | 1.0 | 8.000 |
| NPS-C 400 | 1.0 | 15.000 |
| NPS-C 550 | 1.0 | 30.000 |
| NPS-C 800 | 1.0 | 40.000 |
| NPS-C 1000 | 1.0 | 50.000 |



NPS-C: FULL COVERED WEIGHING BELT WITH INTEGRATED LOCAL PANEL

TECHNICAL FEATURES

| | |
|-------------------------------|---|
| Main structure | Extruded aluminum profiles |
| Raising frame | Carbon steel |
| Loading and unloading hoppers | Stainless steel |
| Belt | Junction calibrated in various materials depending on the application |
| Side rails | Steel and soft bands depending on the application |
| Hood | Polycarbonate (optional) |
| Weighing system | Double off-center load cells C3 IP67 |
| Speed control | Incremental encoder 1000 pulses/round IP66 |
| Electrical junction boxes | Available for load cells and encoder |
| Motor | Asynchronous three-phase multi-voltage or semi vectorial (optional) |
| Motor fan | Optional depending on the application |
| Inspection windows | Extractable polycarbonate |
| ATEX conformity | Available as an option for ATEX 22 zones |



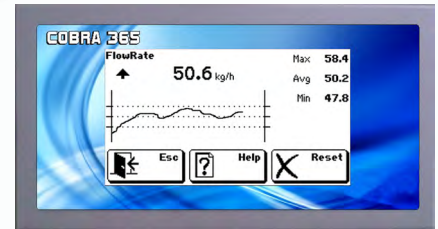
WBE

HEAVY-DUTY WEIGHING BELT



Made in Italy

✓ **HIGH PRECISION**
 ✓ **UP TO 80 t/h**



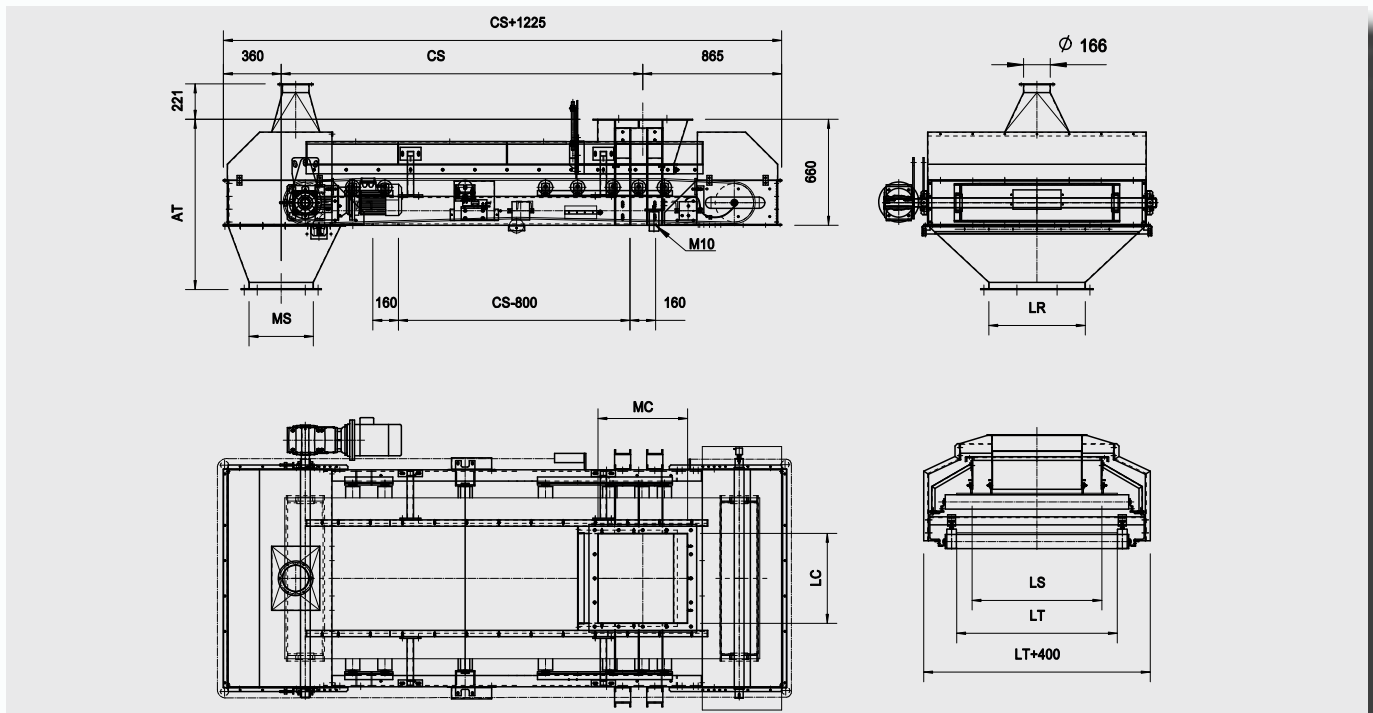
COBRA 365 ELECTRONIC CONTROL UNIT

The sturdy framework of the weighing belt of the heavy duty series, optimised for the installation under a hopper or silos, becomes a belt of the WBE series.

The weighing belt series WBP is suitable for dispensing heavy and big-sized material, as it is very sturdy. It has an operating capacity between 3 and 80 t/h approximately.

The belt can be made either with flat roller stations or triple roller stations. It can also be customized according to the weighed product.

COBRA 365 control unit allows its use as weight totalizer and, if combined to the extracting belt, as fixed capacity dispenser.



STANDARD MODELS DIMENSIONS (mm)

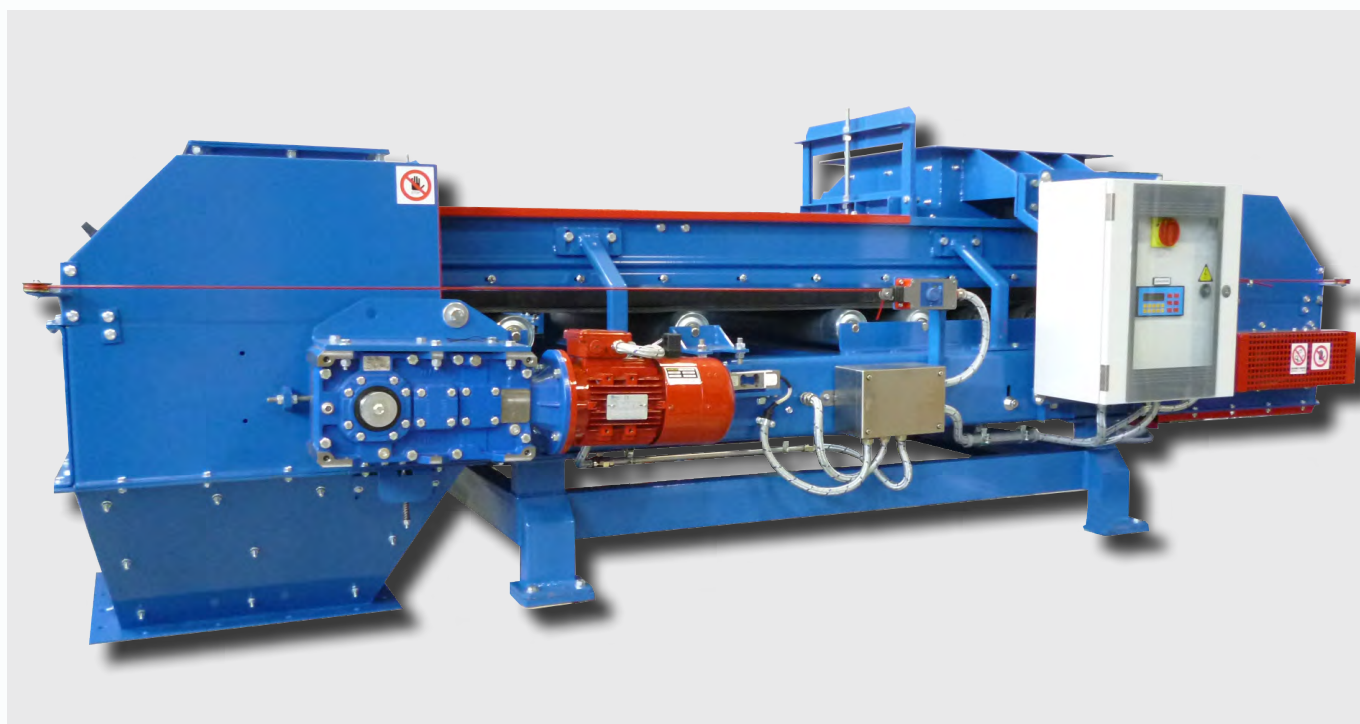
| | LT | LS | CS | AT | LC | MC | LR | MS |
|----------|------|-----|------|------|-----|-----|-----|-----|
| WBE 500 | 500 | 350 | 1700 | 1060 | 250 | 250 | 300 | 250 |
| WBE 650 | 650 | 500 | 1800 | 1060 | 350 | 350 | 350 | 350 |
| WBE 800 | 800 | 650 | 1900 | 1060 | 500 | 500 | 400 | 400 |
| WBE 1000 | 1000 | 800 | 2000 | 1060 | 560 | 560 | 600 | 600 |

REFERENCE MAXIMUM CAPACITY VALUES

Reference maximum capacity values specified below refer to the metering of material with small grain size and specific weight equal to 1 kg/dm³.

According to used motor drive, the allowed working range varies from 5 to 15 times.

| BELT MODEL | SPECIFIC WEIGHT (kg/dm ³) | MAX FLOW RATE (kg/h) |
|-----------------|---------------------------------------|----------------------|
| WBE 500 | 1.0 | 15.000 |
| WBE 650 | 1.0 | 22.000 |
| WBE 800 | 1.0 | 50.000 |
| WBE 1000 | 1.0 | 70.000 |
| WBE 1200 | 1.0 | 80.000 |

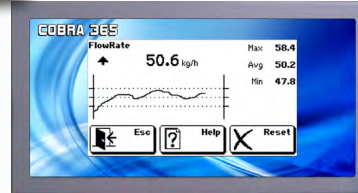
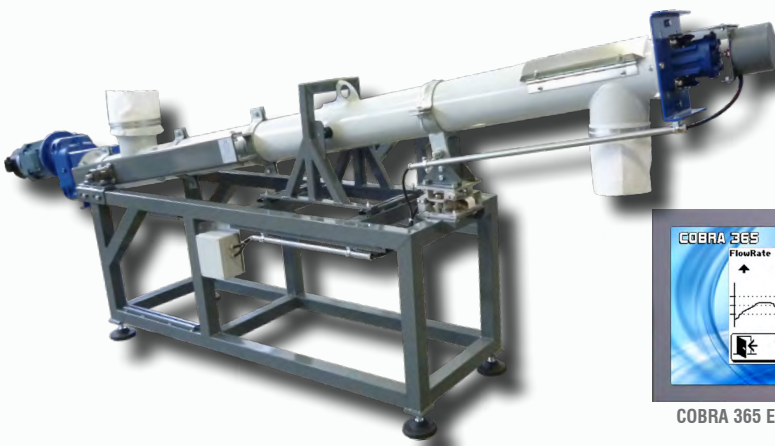
**TECHNICAL FEATURES**

| | |
|-------------------------------|---|
| Main structure | Carbon steel |
| Heads | Carbon steel |
| Loading and unloading hoppers | Carbon steel + HARDOX (optional) |
| Belt | Calibrated junction in various materials depending on the application |
| Side rails | Steel and soft bands depending on the application (optional) |
| Hood | Steel (optional) |
| Weighing system | Double off-center load cells C3 |
| Speed control | Incremental encoder 1000 pulses/round IP67 |
| Electrical junction boxes | Available for load cells and encoder IP66 |
| Motor | Asynchronous three-phase multi-voltage |
| Motor fan | Optional depending on the application |
| Anti-vibration mounts | Steel and rubber 60ShA |
| ATEX conformity | Available as an option for ATEX 22 zones |



CDS

WEIGHING SCREW CONVEYOR



COBRA 365 ELECTRONIC CONTROL UNIT

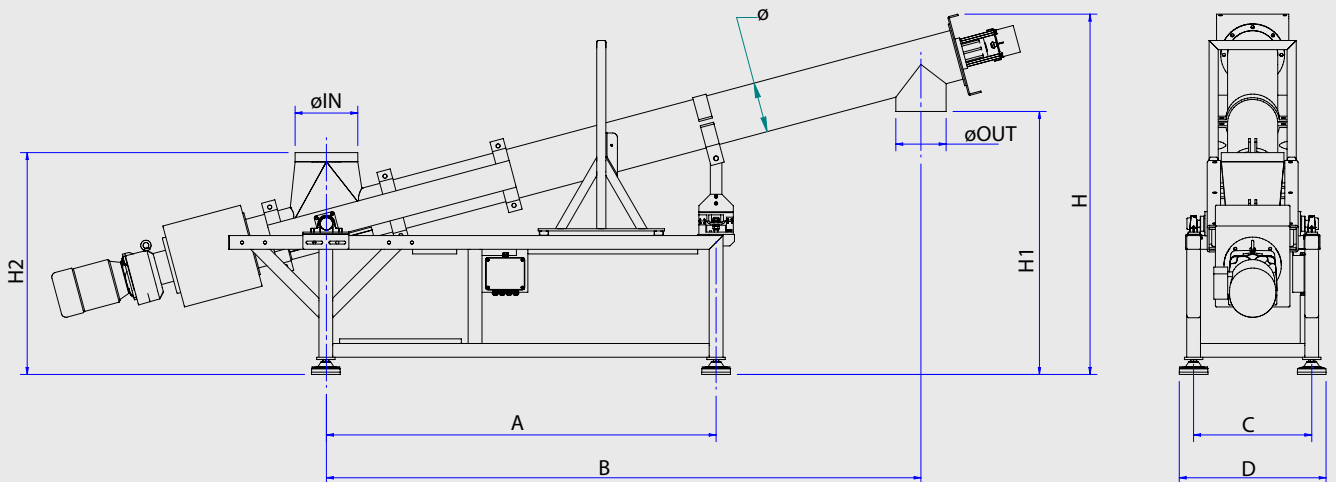
- ✓ **COMPACT DESIGN**
- ✓ **NO DUST RELEASE**
- ✓ **UP TO 80 m³/h**

The CDS weighing auger is especially suitable for the dosing of powdery products that can not be extracted by means of weighing belt (for example “ventilated powders”) and where it is necessary to completely avoid the emission of dust into the environment.

The machine is made up of 3 main components:

- supporting frame adapted to fit customer plant;
- weight screw custom-made to meet specific application needs, i.e. material specifications and desired flow rate;
- control panel providing total cycle control, can be customised to meet customer needs and interfaced with pre-existing plant systems.

On request, the machine can be fitted with level indicators upstream of the plant to monitor product in feeding buffer, diverter valves for material recovery and flow switches to control clogging.



STANDARD MODELS DIMENSIONS (mm)

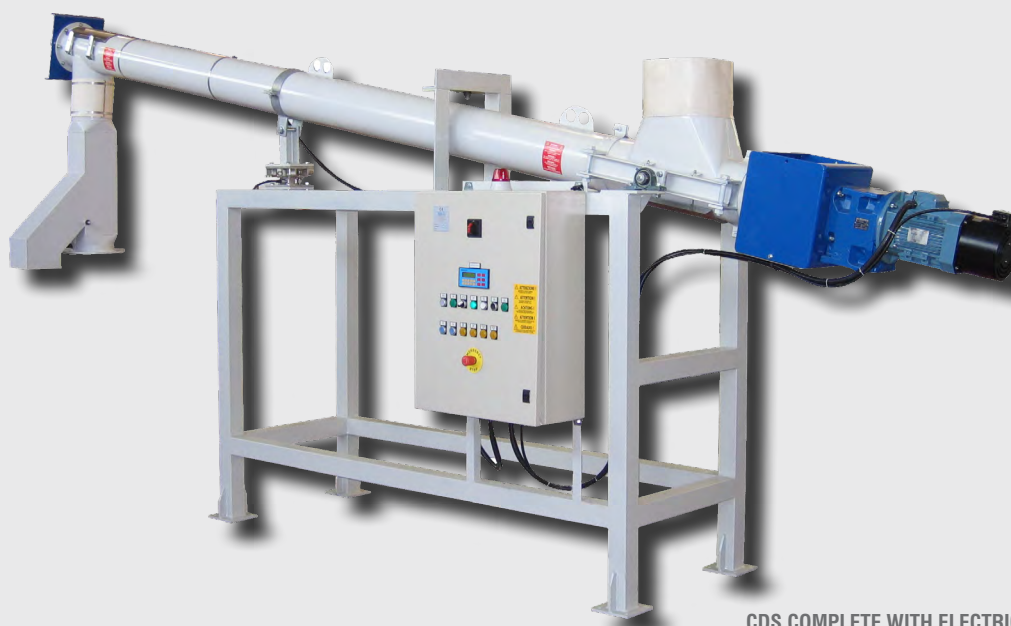
| | ø (IN-OUT) | A | B | C | D | H | H1 | H2 | Tilt |
|---------|------------|------|------|-----|-----|------|------|------|------|
| CDS 139 | 139 | 1700 | 2300 | 515 | 640 | 1450 | 1100 | 900 | 15° |
| CDS 168 | 168 | 1700 | 2300 | 515 | 640 | 1450 | 1100 | 930 | 15° |
| CDS 219 | 219 | 1700 | 2600 | 515 | 640 | 1570 | 1150 | 970 | 15° |
| CDS 273 | 273 | 2000 | 2800 | 565 | 690 | 1630 | 1150 | 970 | 15° |
| CDS 323 | 323 | 2000 | 3000 | 620 | 470 | 1750 | 1160 | 1050 | 15° |
| CDS 406 | 406 | 2500 | 3000 | 800 | 925 | 1850 | 1160 | 1015 | 15° |

REFERENCE MAXIMUM CAPACITY VALUES

Reference maximum capacity values specified below refer to the metering of material with small grain size and specific weight equal to 1 kg/dm³.

According to used motor drive, the allowed working range varies from 5 to 15 times.

| SCREW MODEL | SPECIFIC WEIGHT (kg/dm ³) | MAX FLOW RATE (kg/h) |
|-------------|---------------------------------------|----------------------|
| CDS 139 | 1.0 | 3.000 |
| CDS 168 | 1.0 | 6.000 |
| CDS 219 | 1.0 | 10.000 |
| CDS 273 | 1.0 | 25.000 |
| CDS 323 | 1.0 | 50.000 |
| CDS 406 | 1.0 | 80.000 |



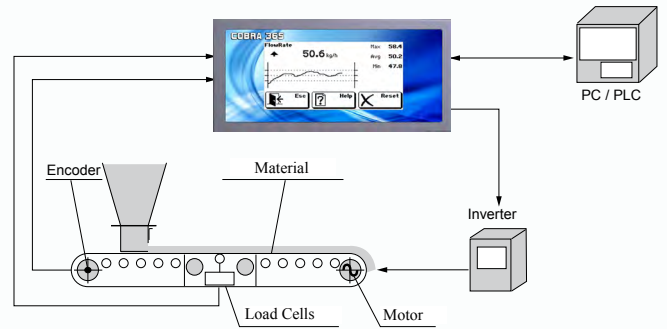
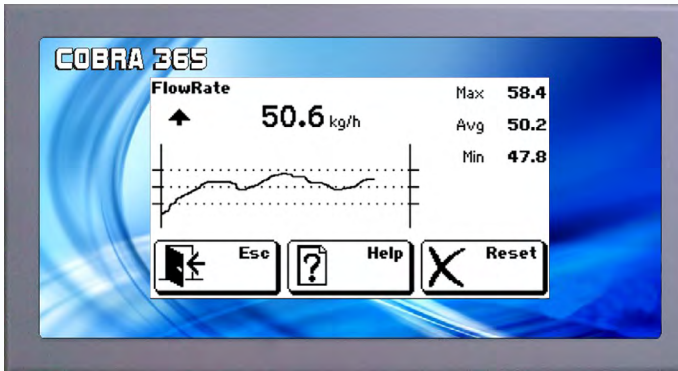
CDS COMPLETE WITH ELECTRICAL CONTROL PANEL ON FIELD AND DIVERTER VALVE

TECHNICAL FEATURES

| | |
|---------------------------|---|
| Main structure | Extruded aluminum profiles |
| Tubular housing | Carbon steel or stainless steel |
| Screw | Carbon steel or stainless steel |
| Diverter valve | Optional |
| Wear-resistant coating | Optional |
| Inspection door | Present at loading and unloading port |
| Weighing system | Single compression load cells C3 |
| Speed control | Incremental encoder 1000 pulses/round |
| Electrical junction boxes | Available for load cells and encoder |
| Motor | Asynchronous three-phase multi-voltage or semi vectorial (optional) |
| Motor fan | Optional depending on the application |

COBRA 365

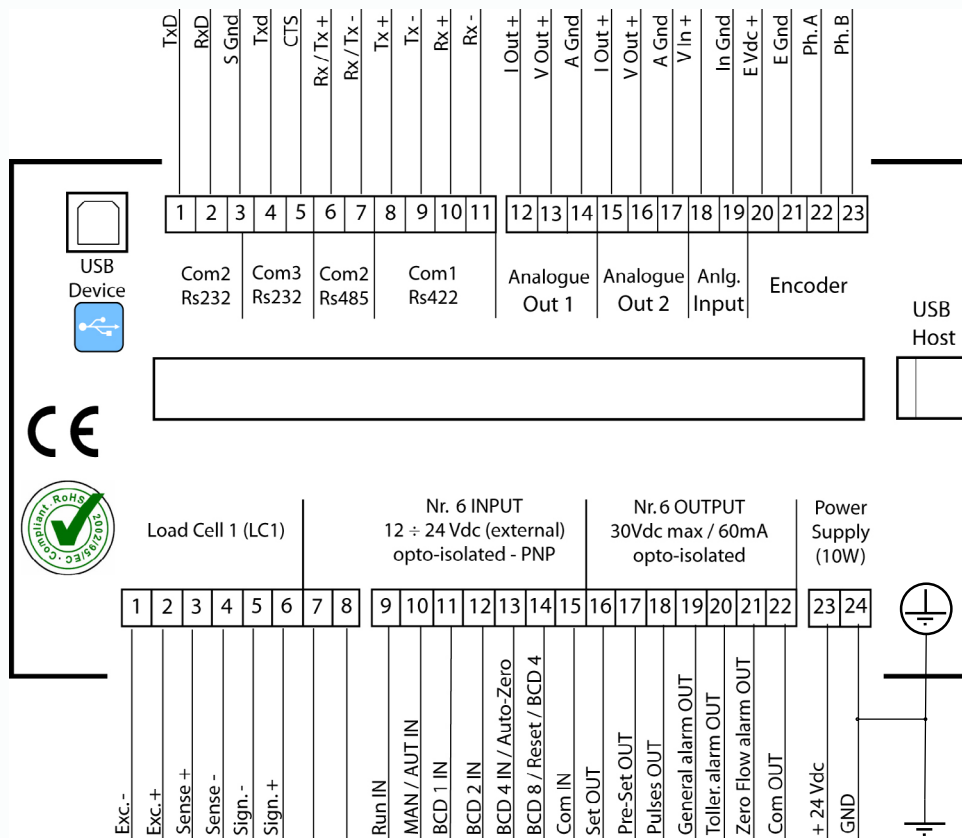
FLOW RATE CONTROLLER FOR CONTINUOUS WEIGHING



SELECTABLE LANGUAGES



Instrument box for panel mounting.
 Backlighted 5.2" TOUCH SCREEN LCD display.
 IP 65 front panel protection rating.
 The COBRA 365 not only integrates weight and speed variables but also generates the instantaneous flow rate per hour, total weight and the function of automatic flow rate regulator.



COBRA 365

FLOW RATE CONTROLLER FOR CONTINUOUS WEIGHING



OPTIONAL AVAILABLE:

- PROFIBUS-DP PROTOCOL;
- PROFINET-IO PORT;
- USB HOST FOR PEN DRIVE;
- ADDITIONAL ANALOGUE INPUT AND OUTPUT;
- ETHERNET INTERFACE;
- 4IN/8OUT ADDITIONAL MODULE;
- 24 COLUMN PRINTER;
- BIG DISPLAY REPEATER.

MAIN FEATURES OF COBRA 365

Maintaining the flow set point by adjusting IP analog output, with an alarm output of flow out of tolerance; Continuous transmission of the instantaneous flow rate, detected by analog output proportional to it. Ability to set, for batching, the values of presets, sets and fly with pulse outputs to the achievement of values.

Possibility of setting of the SET POINT via analog input; optional extra analog output in addition to the standard output

Save points for the working curve of the doser when used in combination with with non-linear extractors (eg electromagnetic extractor).

Calculation of the weight total and transmission by impulse output; output can be delivered in a 24 column printer via RS232 port.

Programming of up to 15 different set points of work, settable by BCD inputs.

Able to freeze the analog output value, by means of logic input, in order to avoid the initial pendulation of system (which runs all 15 set point).

Ability to display, during operation, I/O status, the current weight, current speed, the pulse encoder and the correction factor set.

Procedures for the zero setting on working loaded belt and automatic adjustment factor correction.

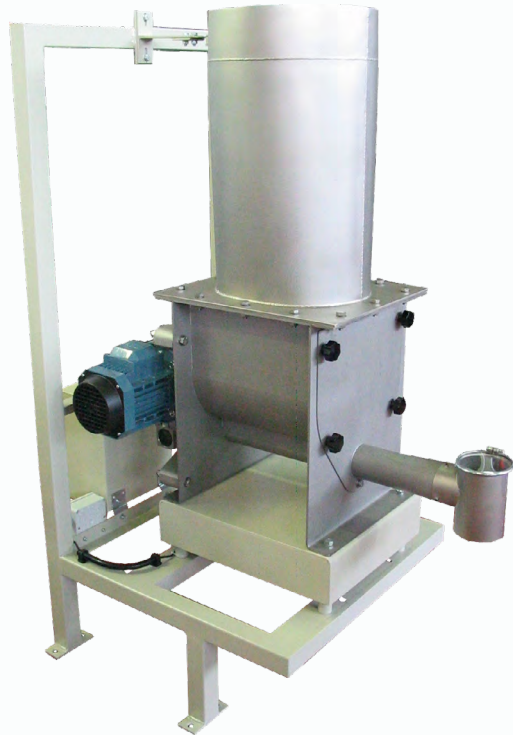
Can be connected with PC / PLC using communication protocols ASCII, Modbus-RTU, Profibus and Profinet IO (optional).

TECHNICAL FEATURES

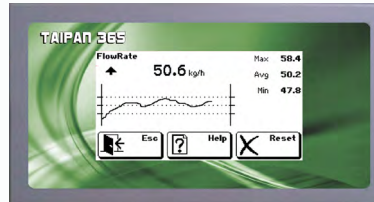
| | | | |
|---|-------------------|--------------------------------------|------------------------|
| Power supply and consumption | | 24Vdc 10W | |
| CPU - Micro controller | | RISC 32 bit - 44MHz | |
| Number of load cells in parallel and supply | | max 8 (350 Ω) - 5Vdc / 120mA | |
| Communication protocol | | RS232 / RS485 / USB Device, Ethernet | |
| A/D converter | | 24bit | |
| Protection rating | | IP65 | |
| Display resolution | 10.000 | Analog output | 16bit (V e mA) |
| Internal resolution | up to 600.000 | Analog input | 24bit (V e mA) |
| Reading resolution | 1x, 2x, 5x, 10x | Encoder power supply | 24Vdc |
| Logic output | nr.6 photorelè | Encoder input | bi-fase PP max 2KHz |
| Logic output features (cad.) | max 30Vdc - 60mA | Working temperature & humidity | -10 ÷ +50°C 85% (s.c.) |
| Logic input | nr.6 optoisolated | Case dimension | 196x105x10mm |
| Logic input features (cad.) | 12/24Vdc PNP | Panel hole for monting | 187x97mm |

DPC-X

LOSS-IN-WEIGH AUGER FEEDER / STANDARD LINE



Made in Italy



TAIPAN 365 ELECTRONIC CONTROL UNIT

- ✓ **MAXIMUM PRECISION**
- ✓ **UP TO 3600 dm³/h**
- ✓ **OFF CENTER LOAD CELL**
- ✓ **AUTOMATIC REFILL**

INOX

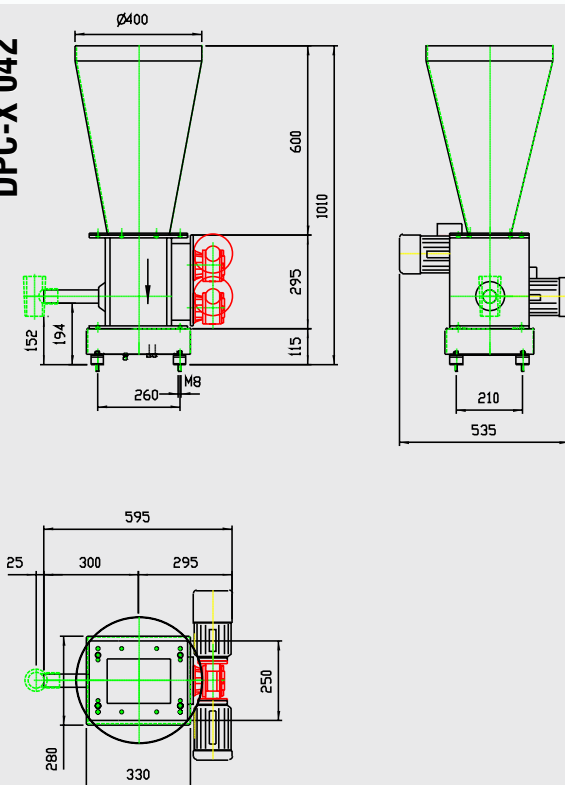
Stainless Steel

The type DPC-X feeders are suitable for dosing powders with medium to low flow rates. The batchers comprise a storage hopper, a feed device and a scale that controls decreasing weight during product discharge.

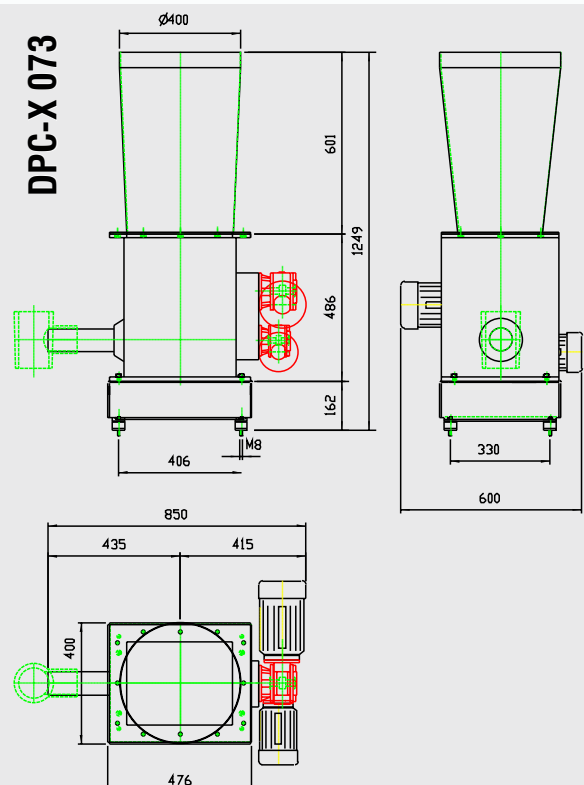
Each type of feeder is available with a broad range of motor drives and in customized versions to suit the process.

The scale is coupled with the TAI PAN 365 controller, so the batcher can operate in batching and/or continuous mode with controlled feed rate. In the latter mode, hopper refill is controlled by electronics with no need to interrupt the batching process.

DPC-X 042

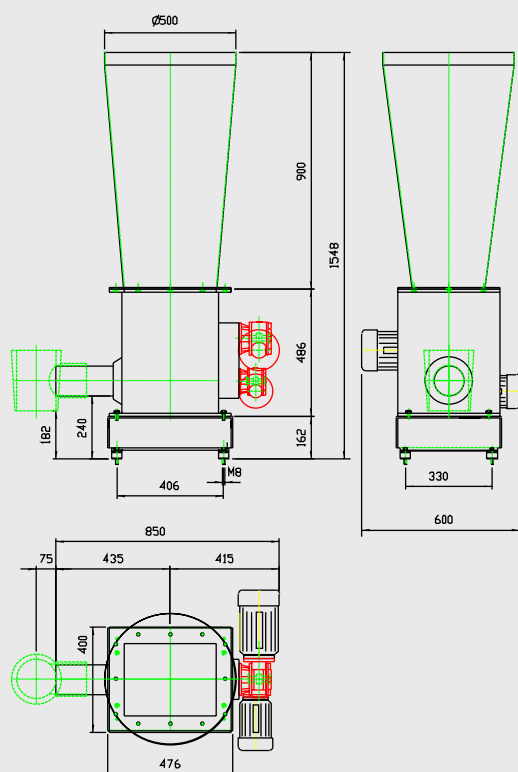


DPC-X 073



STANDARD MODELS DIMENSIONS (mm)

DPC-X 114



REFERENCE NOMINAL CAPACITY VALUES dm^3/h (in reference to the gear ratio)

| FEEDER MODEL | GEAR RATIO | | | | |
|--------------|------------|------|------|------|------|
| | 1:10 | 1:15 | 1:20 | 1:28 | 1:40 |
| DPC-X 042 | 98 | 65 | 54 | 35 | 24 |
| DPC-X 073 | 798 | 530 | 399 | 285 | 199 |
| DPC-X 114 | 3640 | 2427 | 1820 | 1300 | 910 |

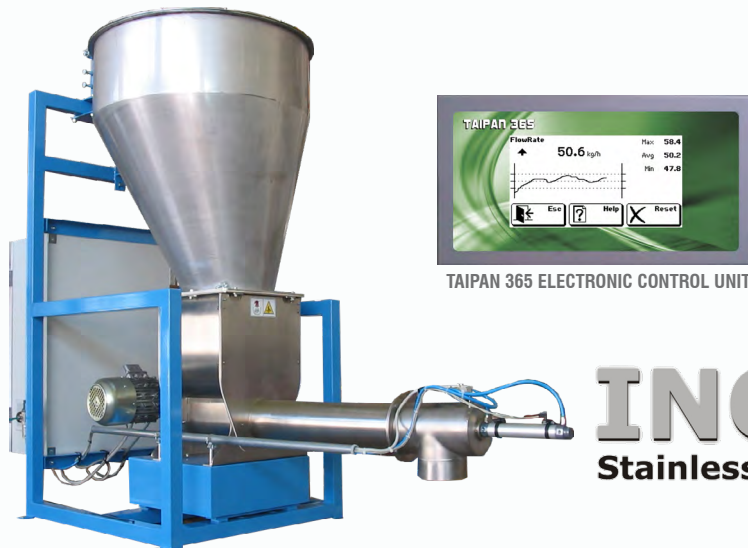
TECHNICAL FEATURES

| | |
|---------------------------|--|
| Main structure | Carbon steel |
| Body material | Stainless steel |
| Breaker motor | Asynchronous three-phase multi-voltage |
| Dosing motor | Asynchronous three-phase multi-voltage or brushless (optional) |
| Dosing screw | Many versions depending on the application |
| Charging hopper | Stainless steel |
| Weighing system | Single off-center load cells C3 |
| Electronic control unit | TAIPAN 365 |
| Electrical junction boxes | Available for load cells |
| Motor fan | Optional depending on the application |
| Vertical spout | With polycarbonate indicator |
| ATEX conformity | Available as an option for ATEX 22 zones |



DPC

LOSS-IN-WEIGH AUGER FEEDER / FLEX LINE

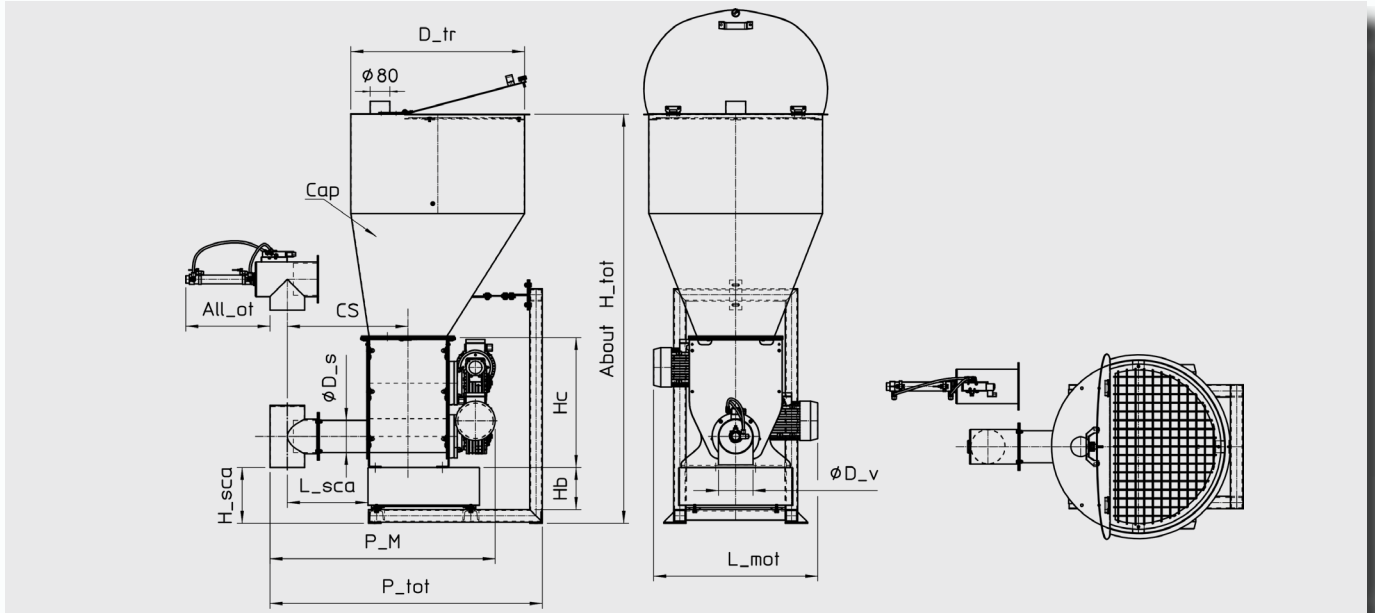


Made in Italy

- ✓ **MAXIMUM PRECISION**
- ✓ **UP TO 4000 dm³/h**
- ✓ **OFF CENTER LOAD CELL**
- ✓ **TWIN SCREW AVAILABILITY**

INOX
Stainless Steel

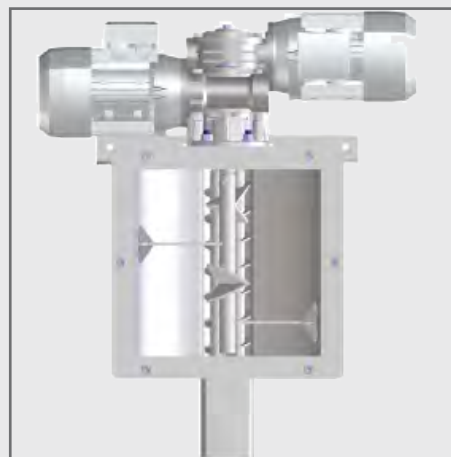
The type DPC feeders are indicated in the dosing of powders with medium flow rates. The batchers comprise a storage hopper, a feed device and a scale that controls decreasing weight during product discharge. Each type of feeders is available with a broad range of motor drives and in customized versions to suit the process. The scale is coupled with the TAIPAN 365 controller, so the batcher can operate in batching and/or continuous mode with controlled feed rate. In the latter mode, hopper refill is controlled by electronics with no need to interrupt the batching process.



STANDARD MODELS DIMENSIONS (mm)

| | Cap (dm ³) | P_tot | L_mot | H_tot | H_sca | D_tr | D_v | All_ot | D_s |
|------------------------|------------------------|-------|-------|-------|-------|------|-------|--------|-----|
| DPC 020 | 60 | 705 | 480 | 980 | 220 | 600 | 42.4 | 130 | 27 |
| DPC 030 | 110 | 740 | 600 | 1190 | 205 | 600 | 48.3 | 170 | 38 |
| DPC 040 | 110 | 740 | 600 | 1190 | 205 | 600 | 60.3 | 180 | 45 |
| DPC 060 | 200 | 1030 | 570 | 1500 | 180 | 700 | 88.9 | 200 | 70 |
| DPC 080 | 200 | 1030 | 570 | 1500 | 160 | 700 | 114.3 | 220 | 90 |
| DPC 100 | 200 | 1100 | 660 | 1650 | 225 | 700 | 139.7 | 340 | 129 |
| DPC 20+20 (twin screw) | 60 | 705 | 480 | 980 | 205 | 600 | 60.3 | 170 | 60 |
| DPC 30+30 (twin screw) | 200 | 970 | 570 | 1500 | 200 | 700 | 88.9 | 200 | 90 |
| DPC 40+40 (twin screw) | 110 | 950 | 570 | 1300 | 205 | 700 | 88.9 | 200 | 90 |
| DPC 60+60 (twin screw) | 200 | 1165 | 700 | 1600 | 145 | 700 | 168.3 | 280 | 150 |

LOSS-IN-WEIGH AUGER FEEDER / FLEX LINE



DPC-B: DOSATORE BI-VITE

REFERENCE NOMINAL CAPACITY VALUES dm³/h

| FEEDER MODEL | SINGLE SCREW (DPC) | | TWIN SCREW (DPC-B) | |
|--------------|--------------------|------|--------------------|------|
| | MIN | MAX | MIN | MAX |
| DPC 020 | 4 | 25 | • 7 | 45 |
| DPC 030 | 20 | 90 | • 35 | 150 |
| DPC 040 | 60 | 200 | • 100 | 350 |
| DPC 060 | 150 | 600 | • 260 | 1000 |
| DPC 080 | 500 | 2000 | | |
| DPC 100 | 1500 | 4000 | | |

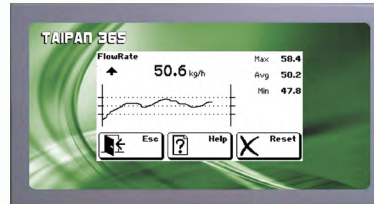
TECHNICAL FEATURES

| | |
|---------------------------|--|
| Main structure | Carbon steel |
| Body material | Stainless steel |
| Breaker motor | Asynchronous three-phase multi-voltage |
| Dosing motor | Asynchronous three-phase multi-voltage or brushless (optional) |
| Dosing screw | Many versions depending on the application |
| Charging hopper | Stainless steel |
| Weighing system | Single off-center load cells C3 |
| Electronic control unit | TAIPAN 365 |
| Electrical junction boxes | Available for load cells |
| Motor fan | Optional depending on the application |
| Vertical spout | With polycarbonate indicator |
| ATEX conformity | Available as an option for ATEX 22 zones |



DPN

LOSS-IN-WEIGH BELT FEEDER



TAIPAN 365 ELECTRONIC CONTROL UNIT

- ✓ **MAXIMUM PRECISION**
- ✓ **UP TO 900 kg/h**
- ✓ **OFF CENTER LOAD CELL**
- ✓ **AUTOMATIC REFILL**

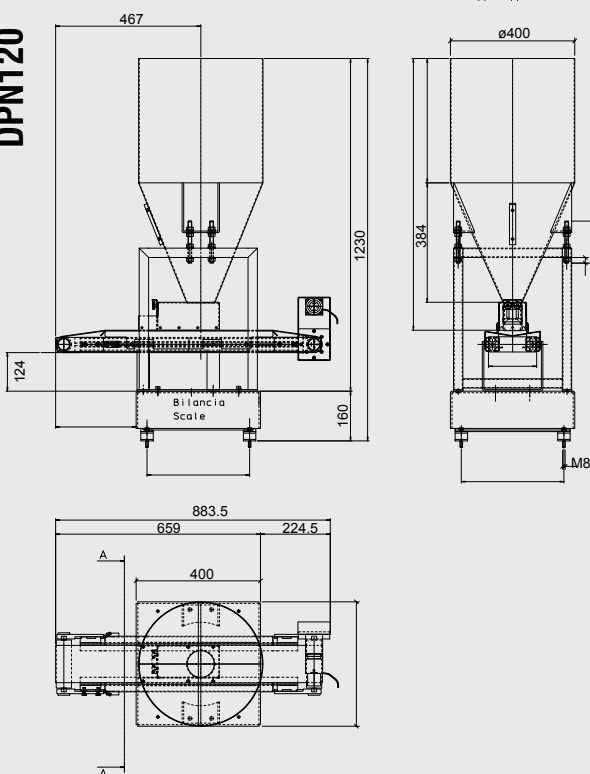
INOX

Stainless Steel

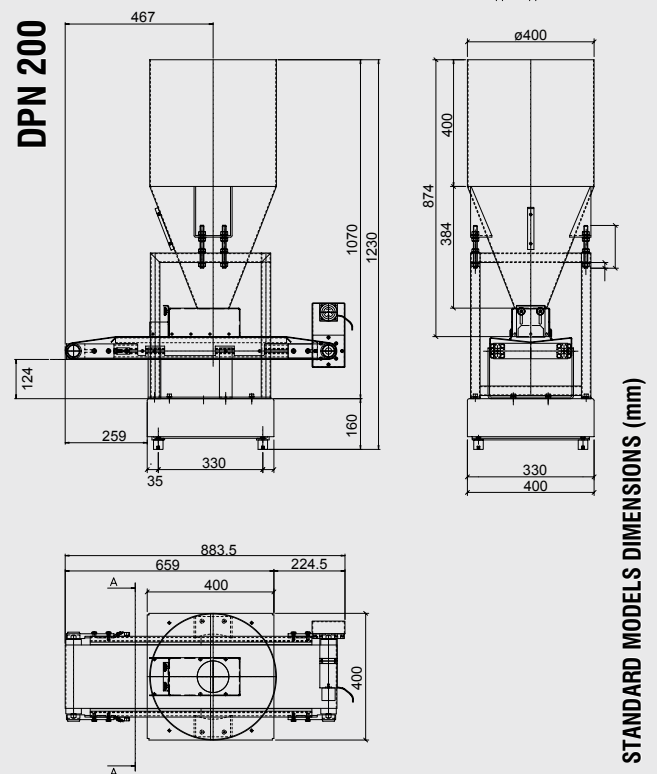
The feeders of series DPN are designed to batch dust-forming materials at mid-to-flow feed rates. The batchers comprise a storage hopper, a feed device and a scale that controls decreasing weight during product discharge. Each type of batcher is available with a broad range of motor drives and in customized versions to suit the process.

The scale is coupled with the TAIPAN 365 controller, so the batcher can operate in batching and/or continuous mode with controlled feed rate. In the latter mode, hopper refill is controlled by electronics with no need to interrupt the batching process.

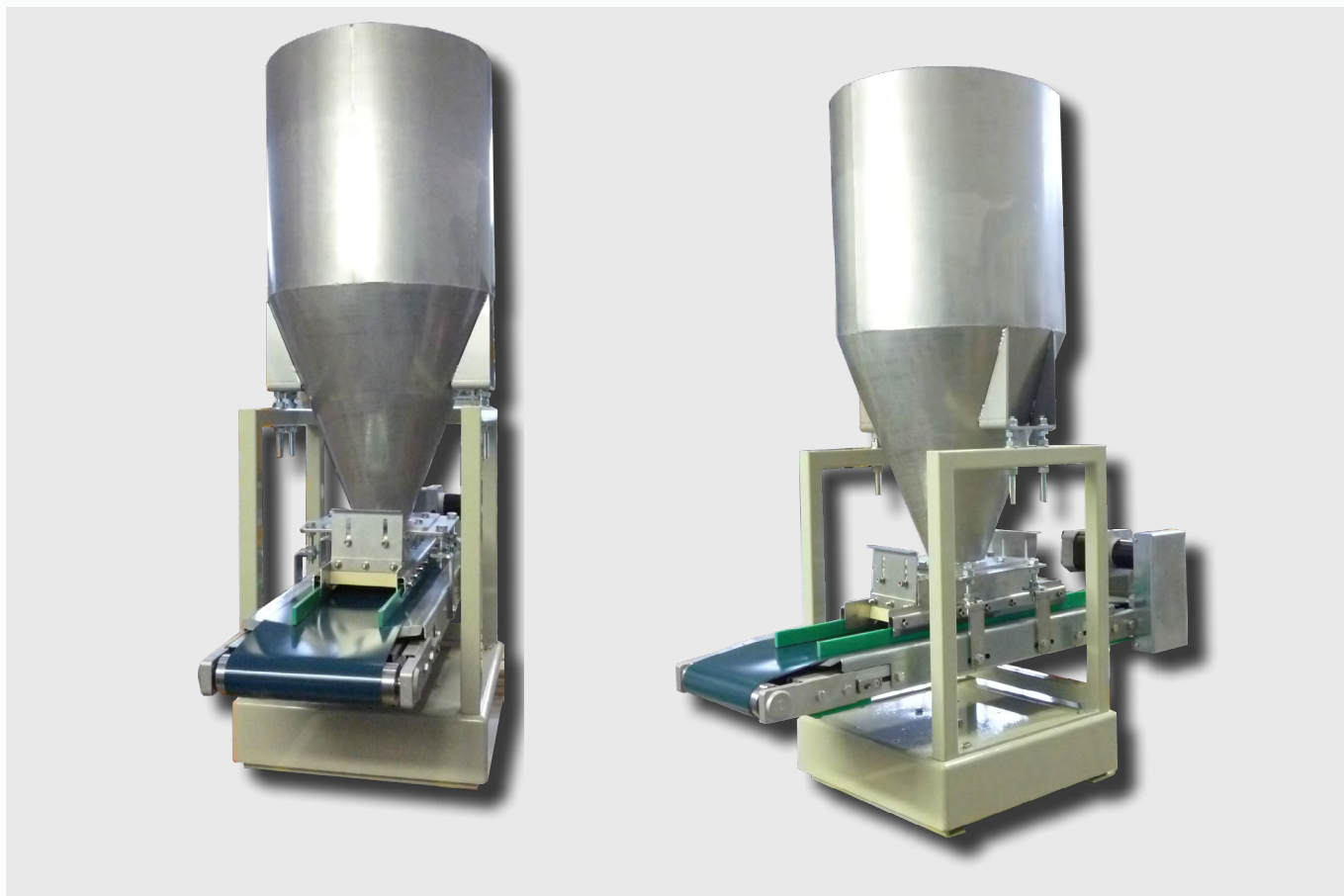
DPN120



DPN 200



STANDARD MODELS DIMENSIONS (mm)



MAXIMUM CAPACITY VALUES kg/h (in reference to the gate opening) - $PS=1\text{kg/dm}^3$

| FEEDER MODEL | GATE OPENING | | |
|--------------|--------------|-----------|-----------|
| | MAX (100%) | MID (50%) | MIN (10%) |
| DPN 120 | 600 | 450 | 300 |
| DPN 200 | 900 | 650 | 400 |

TECHNICAL FEATURES

| | |
|---|---|
| Main structure | Carbon steel |
| Body material | Stainless steel |
| Belt | Calibrated junction in various materials depending on the application |
| Dosing motor | Asynchronous three-phase multi-voltage or brushless (optional) |
| Belt cleaning system | Belt scrapes |
| Charging hopper | Stainless steel |
| Weighing system | Single off-center load cells C3 |
| Electronic control unit | TAIPAN 365 |
| Electrical junction boxes | Available for load cells |
| Motor fan | Optional depending on the application |
| ATEX conformity  | Available as an option for ATEX 22 zones |

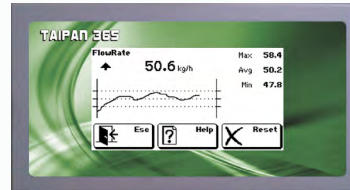
DPN-C

ENCLOSED LOSS-IN-WEIGH BELT FEEDER



Made in
Italy

- ✓ **MAXIMUM PRECISION**
- ✓ **UP TO 3000 kg/h**
- ✓ **3 LOAD CELLS WEIGHING**
- ✓ **AUTOMATIC REFILL**



TAIPAN 365 ELECTRONIC CONTROL UNIT

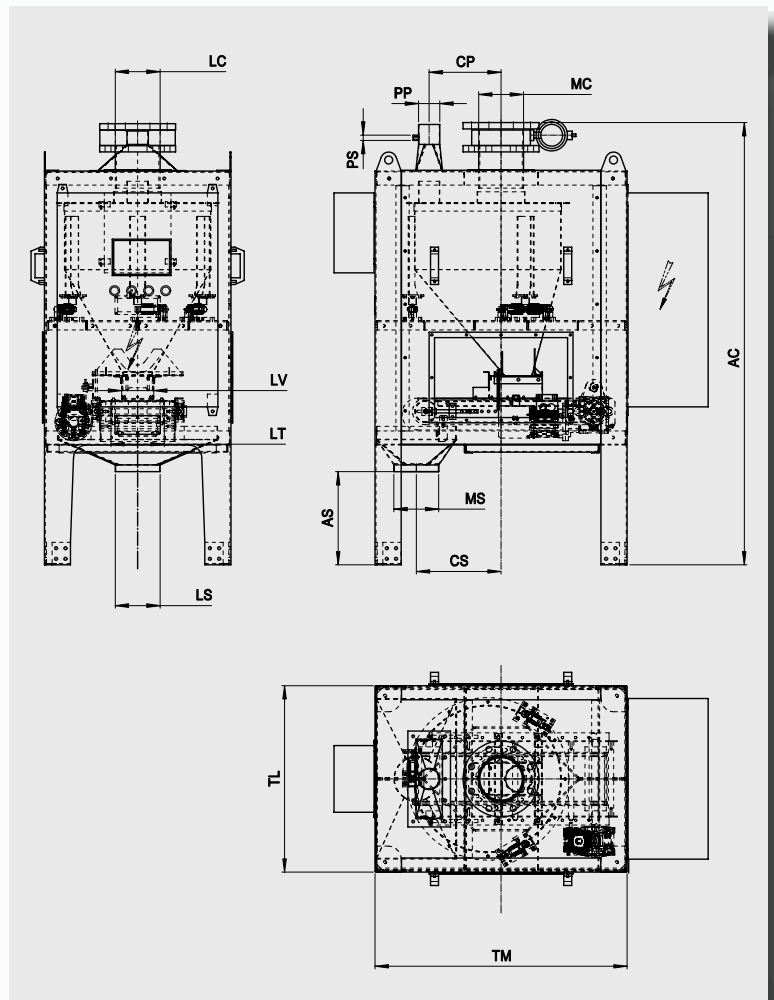
The batchers of series DPN-C are designed to batch powders at mid-to-low feed rates.

The batchers comprise a storage hopper, a feed device and a scale that controls decreasing weight during product discharge.

Each type of batcher is available with a broad range of motor drives and in customized versions to suit the process. The integral casing ensures the minimum dispersion of airborne dust in the environment.

The scale is coupled with the TAIPAN 365 controller, so the batcher can operate in batching and/or continuous mode with controlled feed rate.

In the latter mode, hopper refill is controlled by electronics with no need to interrupt the batching process.



STANDARD MODELS DIMENSIONS (mm)

| | LT | LS | CS | AC | LC | CP | AS | PP | PS |
|-----------|--------------------------|--------|-----|------|--------|-----|-----|----|------------|
| DPN-C 200 | 200 | ø114,3 | 318 | 1654 | ø114,3 | 270 | 236 | 50 | 1/4" NPT-F |
| | TOTAL LENGTH (TM) | | | | | 946 | | | |
| | TOTAL WIDTH (TL) | | | | | 700 | | | |

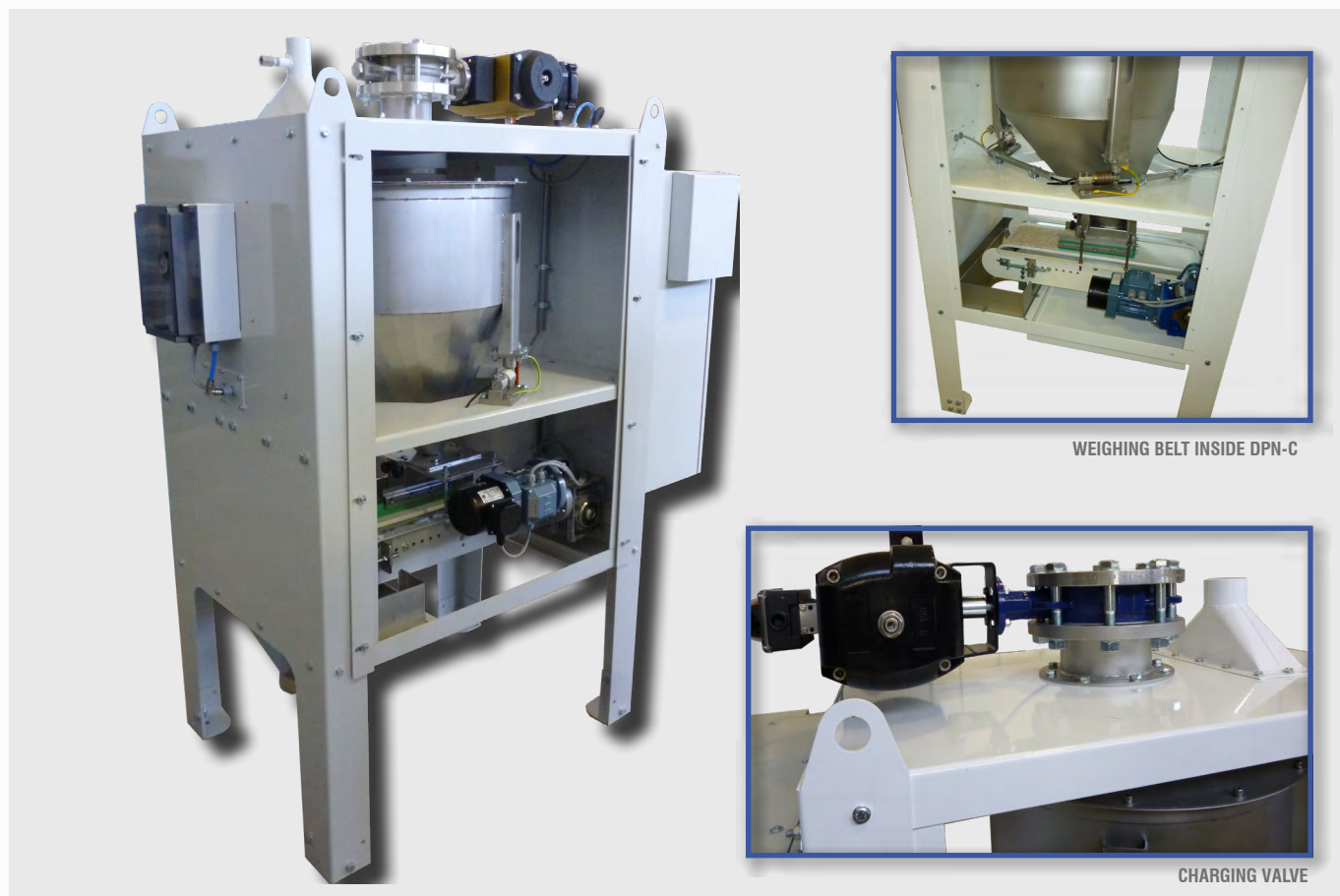
REFERENCE MAXIMUM CAPACITY VALUES

Reference maximum capacity values specified below refer to the metering of material with small grain size and specific weight equal to 1 kg/dm³.

According to used motor drive, the allowed working range varies from 5 to 15 times.

| BELT MODEL | SPECIFIC WEIGHT (kg/dm ³) | MIN FLOW RATE (kg/h) | MAX FLOW RATE (kg/h) |
|------------|---------------------------------------|----------------------|----------------------|
| DPN-C 200 | 1.0 | 1 | 3.000 |

NOTE: the range of working capacity depends by the type of motor used.



WEIGHING BELT INSIDE DPN-C

CHARGING VALVE

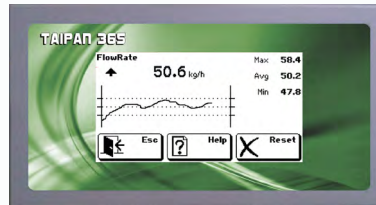
TECHNICAL FEATURES

| | |
|-------------------------------|---|
| Main structure | Carbon steel |
| Charging valve | Stainless steel |
| Loading and unloading hoppers | Stainless steel |
| Belt | Calibrated junction in various materials depending on the application |
| Side rails | Steel and soft bands depending on the application |
| Windows | Polycarbonate |
| Weighing system | Triple load cells C3 IP67 |
| Pneumatic junction boxes | Plastic with transparent top |
| Electrical junction boxes | Available for load cells |
| Motor | Asynchronous three-phase multi-voltage or brushless (optional) |
| Motor fan | Optional depending on the application |
| Local control panel | Optional with TAIPAN 365 control unit |
| ATEX conformity | Available as an option for ATEX 22 zones |



DPV

LOSS-IN-WEIGH VIBRATING FEEDER



TAIPAN 365 ELECTRONIC CONTROL UNIT

- ✓ **MAXIMUM PRECISION**
- ✓ **UP TO 1000 kg/h**
- ✓ **OFF CENTER LOAD CELL**
- ✓ **AUTOMATIC REFILL**

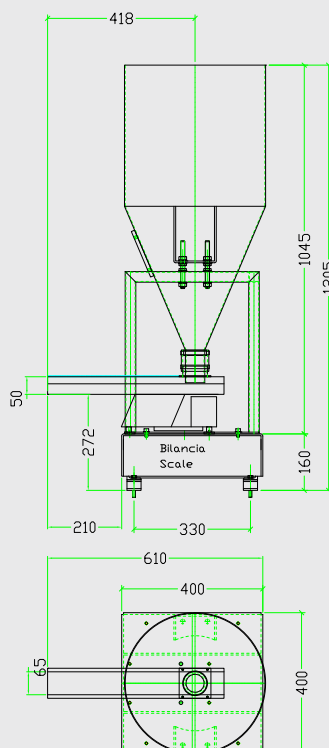
INOX

Stainless Steel

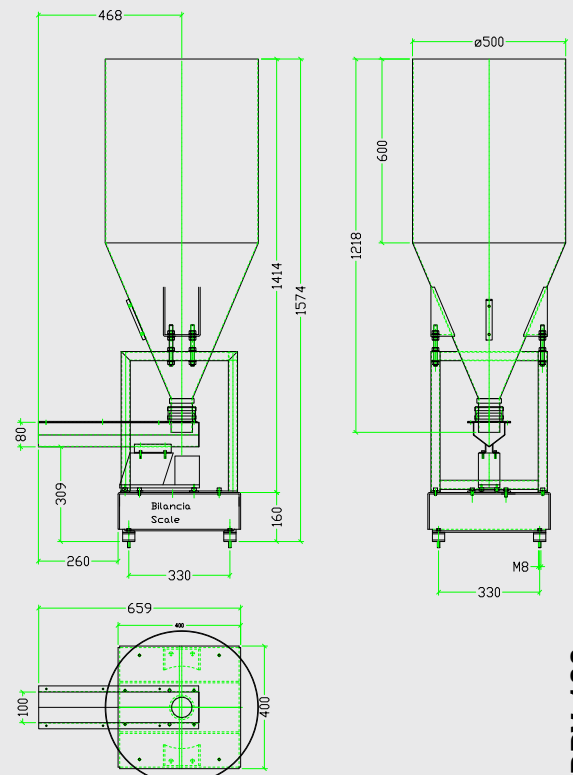
The batchers of series DPV are designed to batch dust-forming materials at mod-to-flow feed rates.

The batchers comprise a storage hopper, a feed device and a scale that controls decreasing weight during product discharge. Each type of batcher is available with a broad range of motor drives and in customized versions to suit the process.

The scale is coupled with the TAIPAN 365 controller, so the batcher can operate in batching and/or continuous mode with controlled feed rate. In the latter mode, hopper refill is controlled by electronics with no need to interrupt the batching process.



DPV 060



DPV 100

LOSS-IN-WEIGH VIBRATING FEEDER


MAXIMUM CAPACITY VALUES kg/h (in reference to maximum damper height) - $PS = 1 \text{ kg/dm}^3$

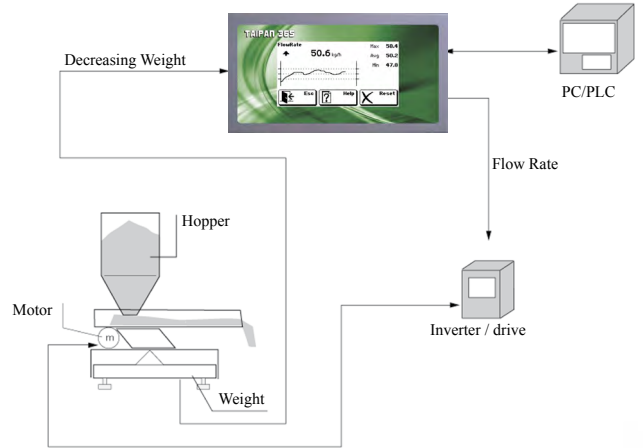
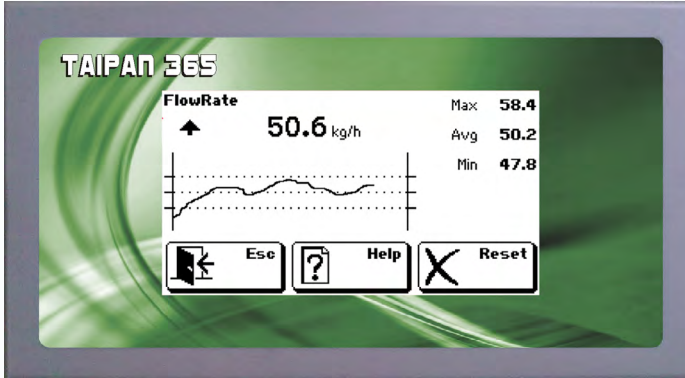
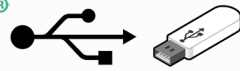
| FEEDER MODEL | PS | MAX (100%) |
|--------------|--------------------|------------|
| | kg/dm ³ | |
| DPV 060 | 1 | 400 |
| DPV 100 | 1 | 1000 |

TECHNICAL FEATURES

| | |
|---------------------------|--|
| Main structure | Carbon steel |
| Body material | Stainless steel |
| Dosing system | Electromagnetic vibratory |
| Dosing motor | Controlled by electronic card |
| Height adjustment system | Double threaded rod |
| Charging hopper | Stainless steel |
| Weighing system | Single off-center load cells C3 |
| Electronic control unit | TAIPAN 365 |
| Electrical junction boxes | Available for load cells |
| Vibrator | Available compressed air or electric systems |

TAIPAN 365

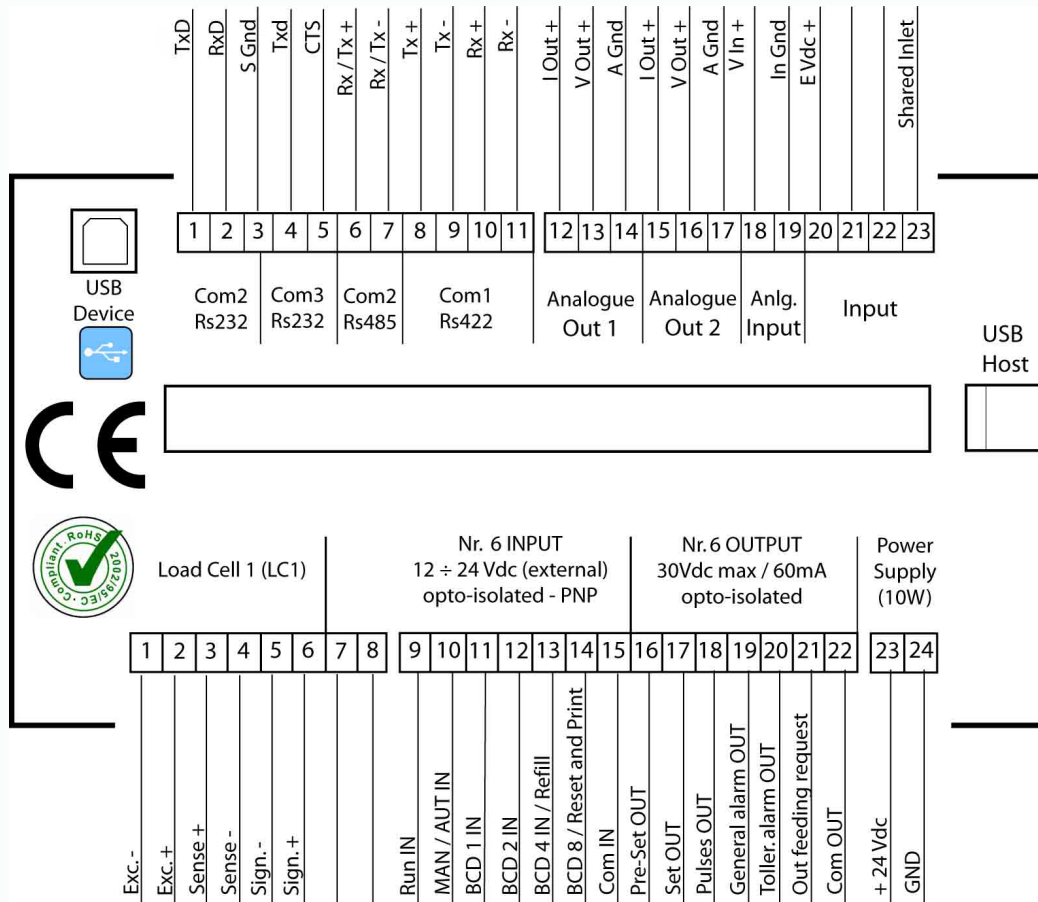
FLOW RATE CONTROLLER FOR LOSS IN WEIGHT SYSTEMS



SELECTABLE LANGUAGES



Instrument box for panel mounting.
 Backlighted 5.2" TOUCH SCREEN LCD display.
 IP 65 front panel protection rating.
 The TAIPAN 365 not only integrates weight and time variables but also generates the instantaneous flow rate per hour, total weight and the function of automatic flow rate regulator.



TAIPAN 365

FLOW RATE CONTROLLER FOR LOSS IN WEIGHT SYSTEMS



OPTIONAL AVAILABLE:

- PROFIBUS-DP PROTOCOL;
- PROFINET-IO PORT;
- USB HOST FOR PEN DRIVE;
- ADDITIONAL ANALOGUE INPUT AND OUTPUT;
- ETHERNET INTERFACE;
- 4IN/8OUT ADDITIONAL MODULE;
- 24 COLUMN PRINTER;
- BIG DISPLAY REPEATER.

MAIN FEATURES OF TAIPAN 365

Maintaining the flow SET POINT by adjusting IP analog output, with an alarm output of flow out of tolerance.

Continuous transmission of the instantaneous flow rate, detected by analog output proportional to it. Ability to set, for batching, the values of presets, sets and fly with pulse outputs to the achievement of values.

Possibility of setting of the SET POINT via analog input; optional extra analog output in addition to the standard output

Save points for the working curve of the doser when used in combination with with non-linear extractors (eg electromagnetic extractor).

Calculation of the weight total and transmission by impulse output; output can be delivered in a 24 column printer via RS232 port.

Programming of up to 15 different set points of work, settable by BCD inputs.

Able to freeze the analog output value, by means of logic input, in order to avoid the initial pendulation of system (which runs all 15 set point).

Ability to display, during operation, I/O status, the current weight, current speed, the pulse encoder and the correction factor set.

Procedures for the zero setting on working loaded belt and automatic adjustment factor correction.

Can be connected with PC / PLC using communication protocols ASCII, Modbus-RTU, Etherne, Profibus and Profinet-IO (optional).

TECHNICAL FEATURES

| | | | |
|---|--------------------------------------|------------------------|----------------|
| Power supply and consumption | 24Vdc 10W | | |
| CPU - Micro controller | RISC 32 bit - 44MHz | | |
| Number of load cells in parallel and supply | max 8 (350 Ω) - 5Vdc / 120mA | | |
| Communication protocol | RS232 / RS485 / USB Device, Ethernet | | |
| A/D converter | 24bit | | |
| Protection rating | IP65 | | |
| Display resolution | 10.000 | Analog output | 16bit (V e mA) |
| Internal resolution | up to 600.000 | Analog input | 24bit (V e mA) |
| Reading resolution | 1x, 2x, 5x, 10x | Working temperature | -10 ÷ +50°C |
| Logic output | nr.6 photorelè | Storage temperature | -20 ÷ +60°C |
| Logic output features (cad.) | max 30Vdc - 60mA | Humidity | 85% (s.c.) |
| Logic input | nr.6 optoisolated | Case dimension | 196x105x10mm |
| Logic input features (cad.) | 12/24Vdc PNP | Panel hole for monting | 187x97mm |

RPS

SINGLE STATION FIBC LOADER



RPS STATION COMPLETE WITH MOTORIZED ROLLER
AND PNEUMATIC AUTOMATION



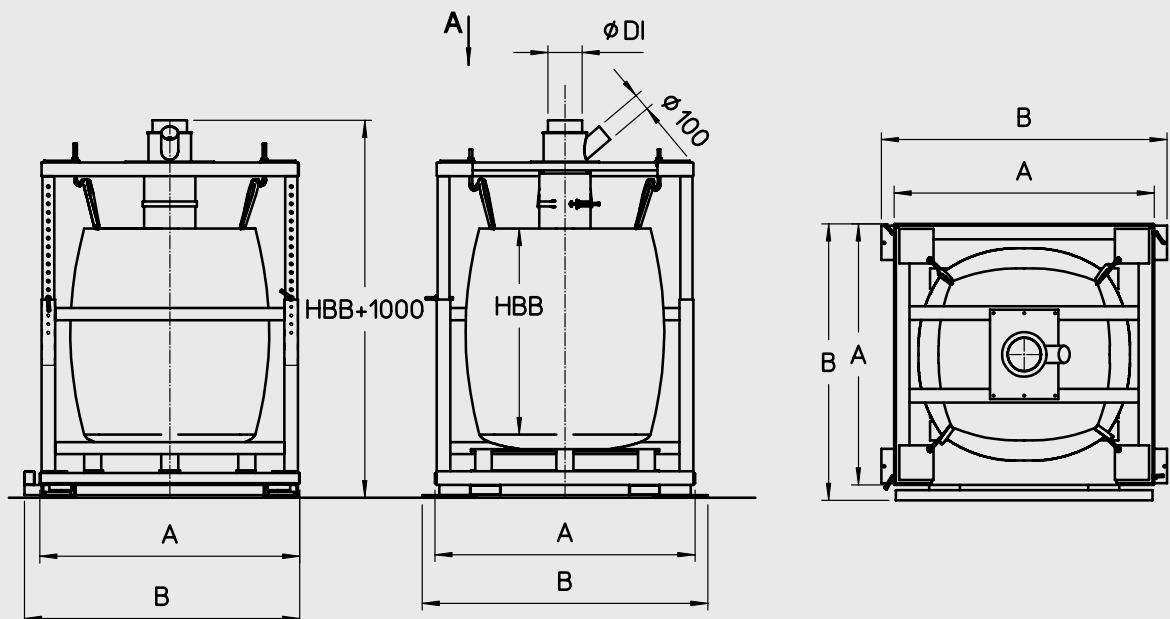
- ✓ **CUSTOM MADE MACHINE**
- ✓ **AVAILABLE IN STAINLESS STEEL AISI 304 / 316**
- ✓ **PRELOADING BIN FOR WORK WITHOUT INTERRUPTION**

The RPS filling machine fills big bags according to set weight.

Each machine can be manufactured according to big bag size and shape and equipped with different accessories, such as exhaust hood, inflatable seal, automatic bag loop release, pneumatic sealing.

Each machine is equipped with control electronic system according to single needs: weight display, fast / slow load control + fall value control, controlled load through stored formulas.

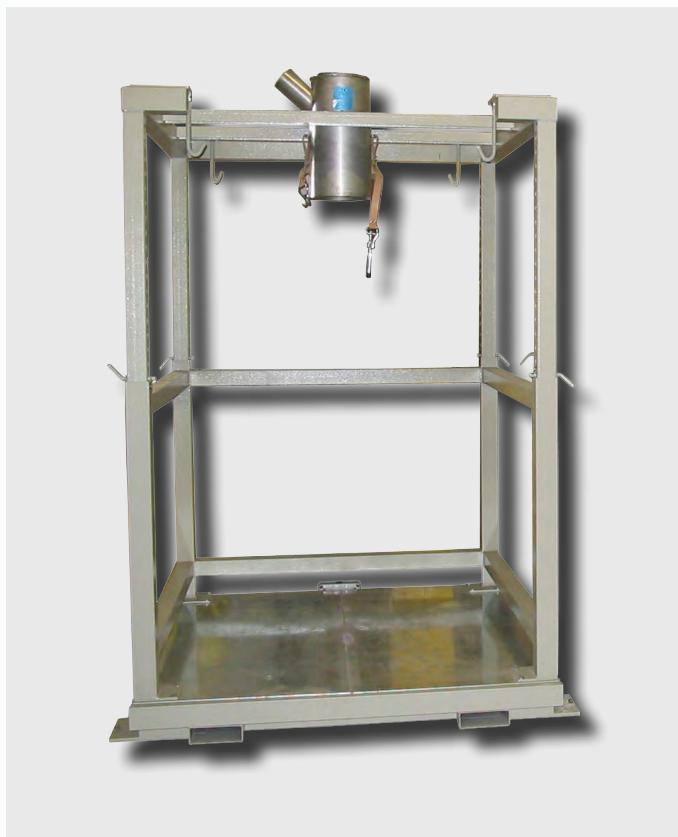
RPS can be supplied with electric control panel.



STANDARD MODELS DIMENSIONS (mm)

| | DI | A | B |
|--------|-----|------|------|
| RPS 10 | 200 | 1520 | 1520 |
| RPS 20 | 220 | 1680 | 1680 |

SINGLE STATION FIBC LOADER

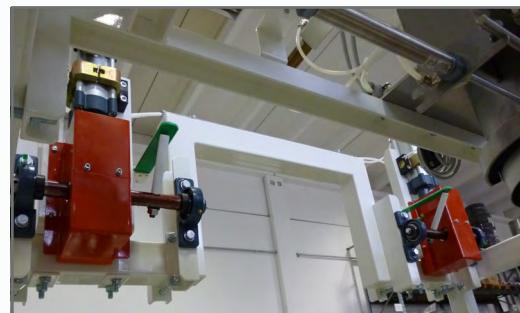


RPS STANDARD VERSION



STAINLESS STEEL RPS WITH ELEVATED AUTOMATION

RPS EXAMPLES OF AVAILABLE OPTIONS

INFLATING
SEALPNEUMATIC
SEALINGAUTOMATIC
RELEASE

TECHNICAL FEATURES

| | |
|-------------------------|--|
| Main structure | Carbon steel or stainless steel AISI 304 |
| Base plate | Galvanized steel or stainless steel AISI 304 / 316 |
| Frame structure | Adjustable telescopic height |
| Dust hose | Standard \varnothing 100mm |
| Opener | Stainless steel |
| Anti-vibration mounts | Steel and rubber 60Sha |
| Automatic opener | Optional |
| Weighing system | Optional with beam load cells |
| Anti-tilt system | Optional |
| Load cells junction box | J_BOX4 or CE41INOX |
| ATEX conformity | Available as an option for ATEX 22 zones |



RPS-2X

DOUBLE STATION FIBC LOADER



Made in
Italy



**CUSTOM MADE
MACHINE**



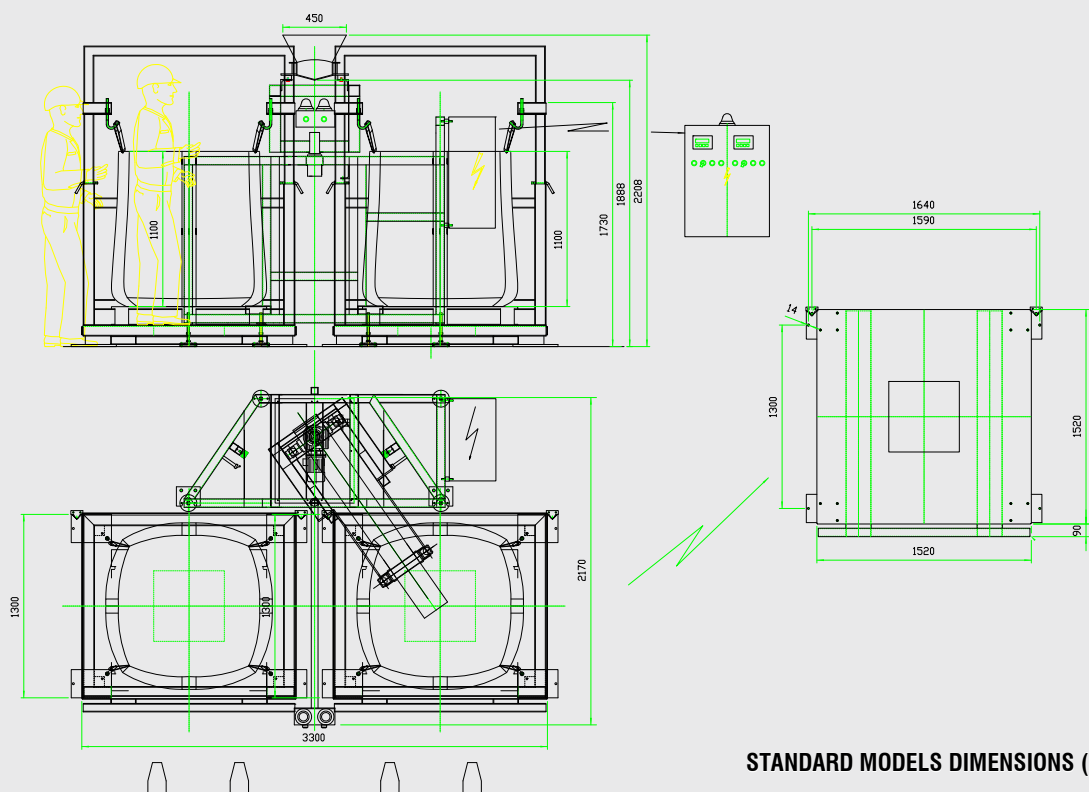
**AVAILABLE IN STAINLESS
STEEL AISI 304 | 316**



**THE PRODUCT CAN BE FED
CONTINUOUSLY EITHER BY
AUGER OR VIBRATING FEE-
DER, BOTH PIVOTING.**



For sacking powdered products with high production output standards, STAD has designed the bag filling machine RPS2x10 SA. This machine fills up big bags in continuous duty, alternating material feed to the 2 stations by means of a rotary electromagnetic feeder or a worm screw. The RPS is equipped with control panel and PLC for cycle settings.



RPS-2X

DOUBLE STATION FIBC LOADER



RPS2X10 WITH ELECTROMAGNETIC CHANNEL



RPS2X10 WITH SCREW FEEDER

RPS

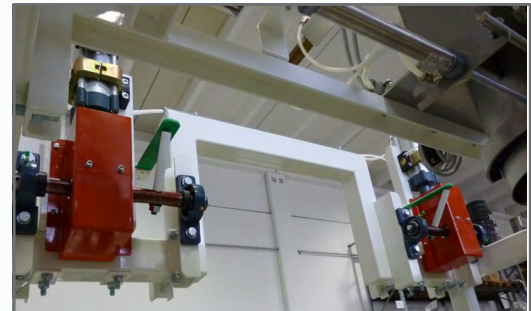
EXAMPLES OF AVAILABLE OPTIONS



INFLATING SEAL



PNEUMATIC SEALING



AUTOMATIC RELEASE

TECHNICAL FEATURES

| | |
|-------------------------|---|
| Main structure | Carbon steel or stainless steel AISI 304 |
| Base plate | Galvanized steel or stainless steel AISI 304 |
| Frame structure | Adjustable telescopic height |
| Dust hose | Standard \varnothing 100mm |
| Opener | Stainless steel |
| Charging System | Electromagnetic Channel / Screw Feeder / Belt |
| Automatic opener | Optional |
| Weighing system | Optional with beam load cells |
| Anti-tilt system | Standard when there is the weighing system |
| Load cells junction box | J_BOX4 or CE41INOX |
| ATEX conformity | Available as an option for ATEX 22 zones |



SBB

FIBC UNLOADING STATION



Made in Italy



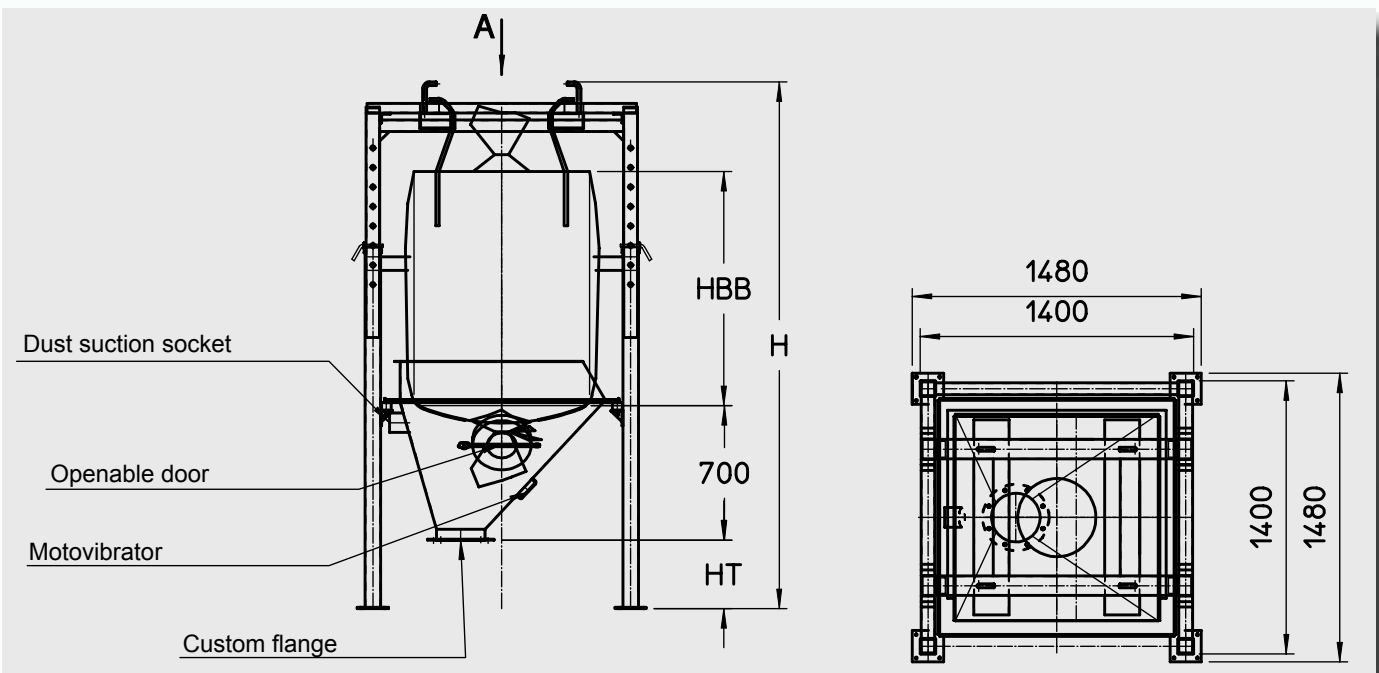
CUSTOM MADE MACHINE

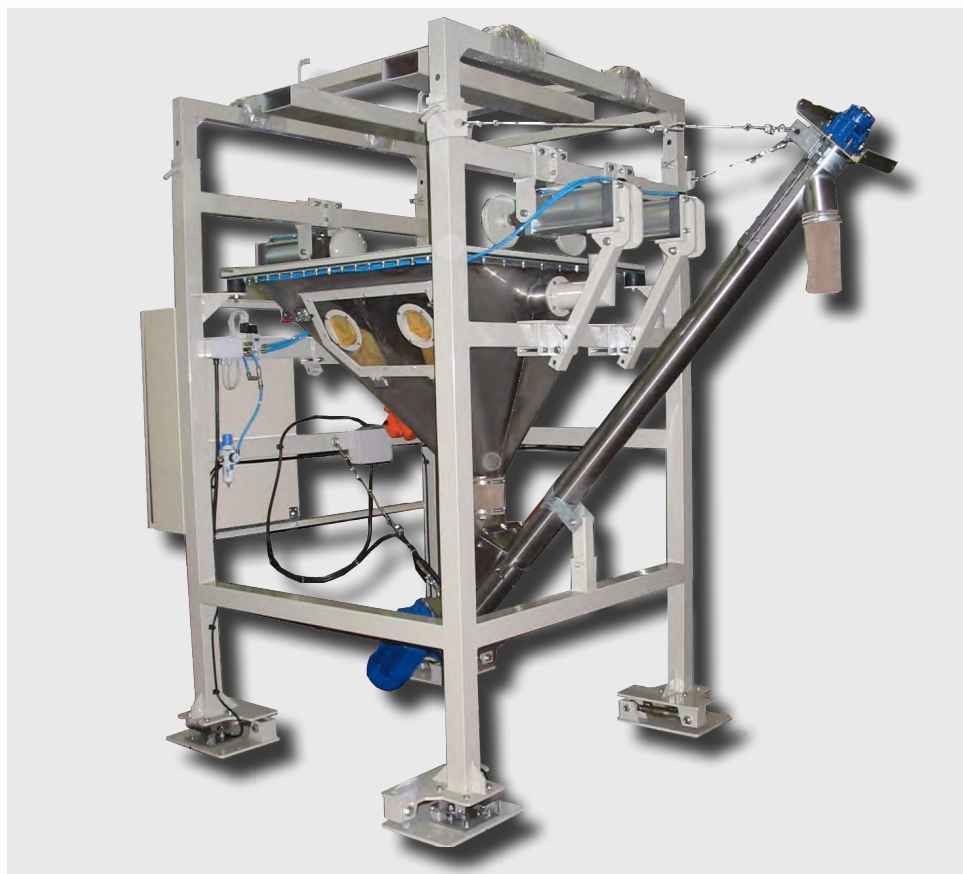


**AVAILABLE IN STAINLESS STEEL
AISI 304 | 316**

Like all the machines manufactured by Stad, SBB stations - suitable to batch powdery products stacked inside big bags - are designed and manufactured according to customer's specification. The basic model consist of a mobile telescopic big bag holder frame that can be moved with a forklift (to be adjusted along the big bag height), a stationary frame, a powder-charging hopper, and a mechanical extractor suitable to the products being extracted (weighing belt, metering screw, rotary valve, ecc...). This station can be customized by adding several devices, such us: electronic weighing and material batching control; big bag and fluidising flow aids electropneumatic shaking in case of non-smooth powders.

SBB STATION MOD. SBB-C COMPLETE WITH SCREW FEEDER AND LOCAL CONTROL PANEL





SBB EXAMPLES OF AVAILABLE OPTIONS



FLUIDISING
FLOW AIDS



BIG BAGS
MOVING DEVICE



WINDOW
WITH GLOVES



BIG BAGS HORIZONTAL
MOVING DEVICE

TECHNICAL FEATURES

| | |
|---|--|
| Main structure | Carbon steel or stainless steel AISI 304 / 316 |
| Loading hopper | Carbon steel or stainless steel AISI 304 / 316 |
| Frame structure | Adjustable telescopic height |
| Anti-dust plan | Black or food grade rubber |
| Access door | Stainless steel with mechanical stop |
| Anti-vibration mounts | Steel and rubber 60ShA |
| Fluidification systems | Optional |
| Weighing system | Optional with compression load cells |
| Anti-tilt system | Standard when there is the weighing system |
| Window with gloves | Optional |
| ATEX conformity  | Available as an option for ATEX 22 zones |

SBB-P

FIBC UNLOADING STATION WITH HOIST



The SBB-P discharging stations for dosing powdery products stored in big bags, like all STAD machines, are designed and produced to customer's specifications.

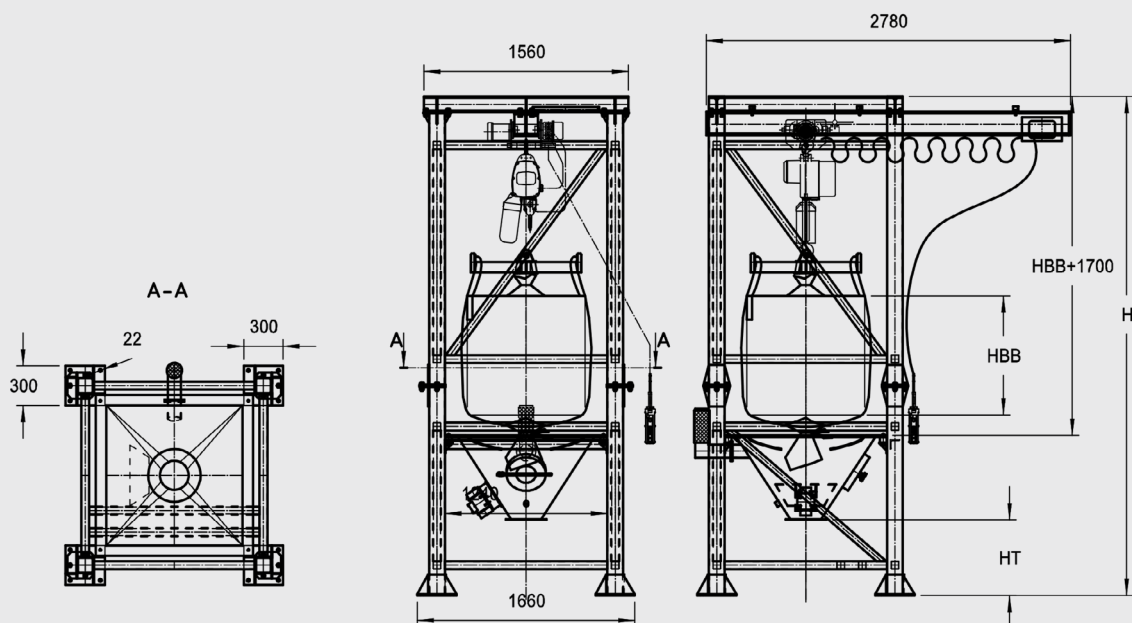
The basic model consists of a frame complete, in the upper side, with an electric chain hoist on a traveling beam, to lift and position the FIBC, a hopper, a telescopic stationary frame adjustable to the height of the big bag, a hopper containing the powder, and a mechanical extractor suited to the product to be extracted (weighing belt, metering screw, rotary valve, etc.).

The station can be customised with devices such as:

- electronic weighing and material batching control;
- electromagnetic bag shaking and vibro-aerators in case of non free-flowing powders; etc.

✓ **CUSTOM MADE MACHINE**

✓ **AVAILABLE IN STAINLESS STEEL AISI 304 / 316**



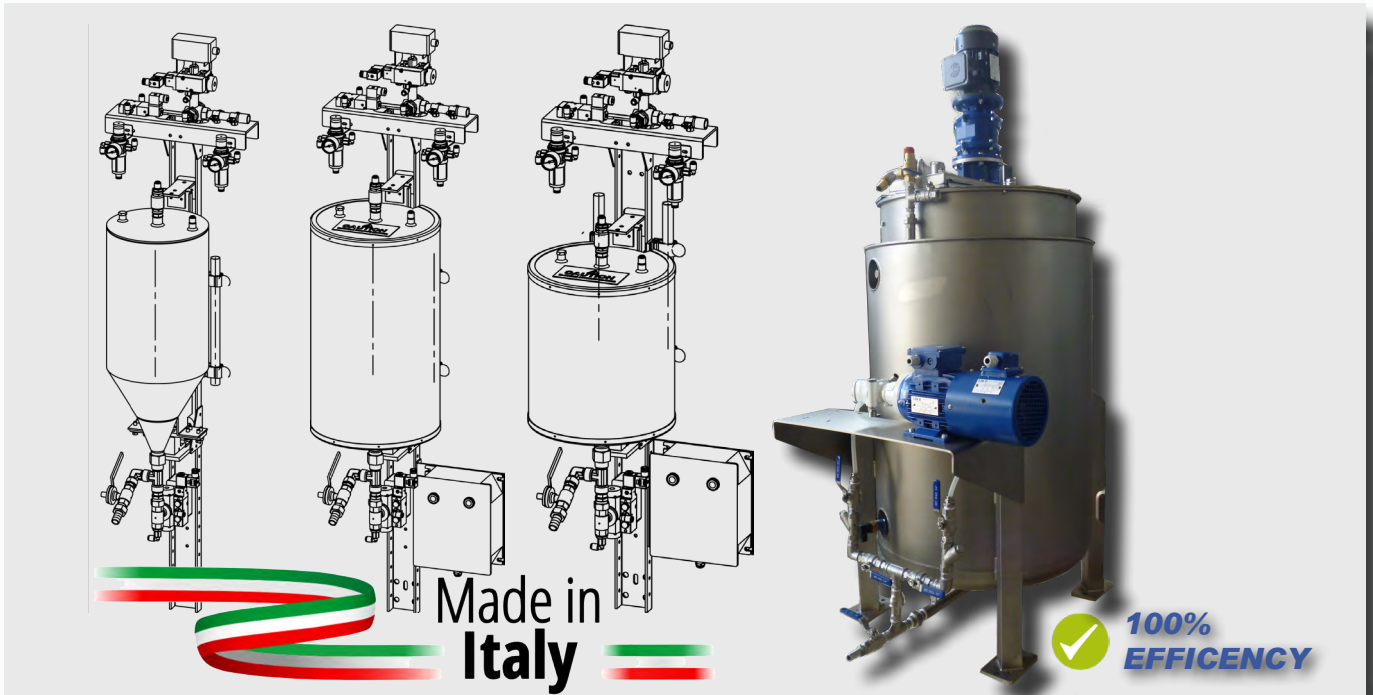
**SBB** EXAMPLES OF AVAILABLE OPTIONSFLUIDISING
FLOW AIDSBIG BAGS
MOVING DEVICEWINDOW
WITH GLOVESBIG BAGS HORIZONTAL
MOVING DEVICE**TECHNICAL FEATURES**

| | |
|------------------------|--|
| Main structure | Carbon steel or stainless steel AISI 304 / 316 |
| Loading hopper | Carbon steel or stainless steel AISI 304 / 316 |
| Frame structure | Adjustable telescopic height |
| Anti-dust plan | Black or food grade rubber |
| Access door | Stainless steel with mechanical stop |
| Anti-vibration mounts | Steel and rubber 60ShA |
| Fluidification systems | Optional |
| Weighing system | Optional with compression load cells |
| Anti-tilt system | Standard when there is the weighing system |
| Window with gloves | Optional |
| ATEX conformity | Available as an option for ATEX 22 zones |



DOSING SYSTEMS FOR LIQUID

LIQUID DOSING FOR CONTINUOUS AND BATCH APPLICATIONS



OVERVIEW

To meet our customer's need for weighing and dosing, we design and manufacture a variety of storage tanks for either fluid or viscous liquids, equipped with a wide range of accessories such as slow or fast agitators, level indicators, weighing load, dosing pumps, etc.

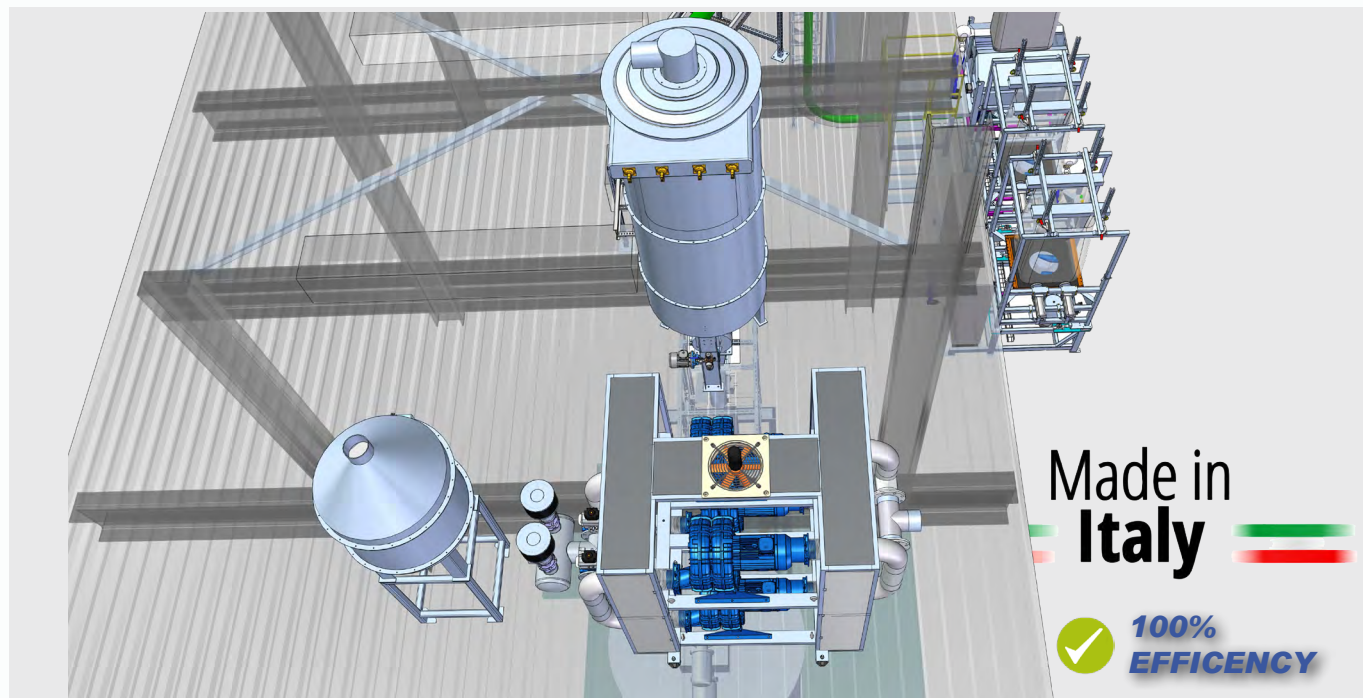
The tanks dedicated to viscous fluids can be electrically traced or equipped with an indirect circulation heating chamber (either for oil or water), in order to keep the product heated.

Process liquids can be dosed either by batch feeding, (in Gain-of-weight mode or in Loss-in-Weight mode) or continuously by controlled flow through our Taipan 365 flow controllers or combined with magnetic or mass flow meters.



PNEUMATIC CONVEYING

DENSE, SEMI-DENSE AND DILUTE PHASE SYSTEMS



OVERVIEW

Pneumatic conveying involves the transportation of dry powders and granular solids in pipelines using a gas stream, usually air. Based upon the material-to-air ratio, are classified as 'dense', 'semi-dense' or 'dilute' phase systems.

Suction or vacuum systems, utilize a vacuum created in the pipeline to transfer the material. Pressure systems use positive pressure to push the material along the pipeline.

The sum of the characteristics of pneumatic conveying give the ability, within numerous industries, to transport products without any loss to the environment, choosing the appropriate route that can move around obstacles, multiple floor levels or between buildings.

ADVANTAGES

Dust-free transportation

Flexibility in transport line routing

Distribution / pickup from multiple points

Low maintenance and low manpower costs

DISADVANTAGES

Higher power consumption

Higher wear and abrasion of equipment

Limitations in transport distance and capacity are

High levels of skill in design, maintain and operate

HOW TO CHOOSE THE PERFECT PNEUMATIC TRANSPORT

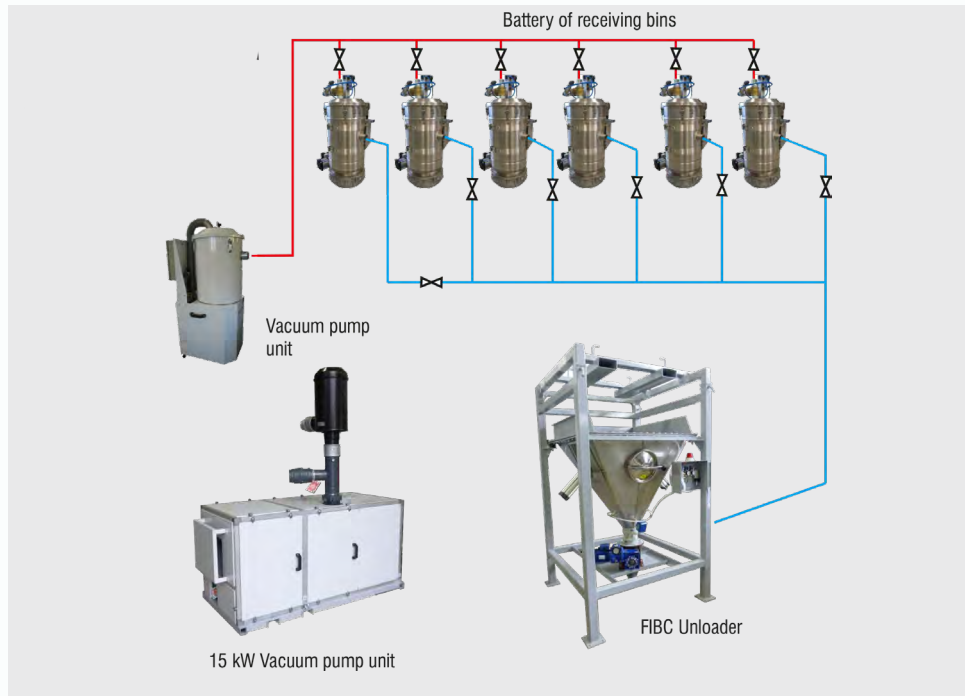
| | DENSE Phase | SEMI-DENSE | DILUTE Phase |
|-----------------------|---------------|----------------------|----------------------------|
| Transport speed | Low (<5 m/s) | Medium (5...10 m/s) | High (>16 m/s) |
| Transport pressure | High (>3 bar) | Medium (1.5...3 bar) | Low (<0.6 bar) |
| Wear / Breakage | Very low | Average | Medium to high |
| Material-to-air ratio | High (>60) | Medium (20...60) | Low (<20) |
| Function | Discontinuous | Discontinuous | Discontinuous / Continuous |
| Space requirements | High | High | Low to very low |
| Capital investment | High | High | Medium to Low |

PNEUMATIC CONVEYING

DENSE, SEMI-DENSE AND DILUTE PHASE SYSTEMS

DILUTE PHASE

Dilute phase conveying is characterized by high transfer speeds, above saltation, so material «floats» into the airstream. Pressure (or vacuum) is relatively low (compared to dense phase systems).



DENSE / SEMI-DENSE PHASE

DENSE PHASE

Dense phase conveying is commonly used when materials are either abrasive or fragile. Dense phase systems operate at lower transfer speeds, higher pressures and higher product-to-air ratios. The higher available pressure permits a longer transport distance.

SEMI-DENSE PHASE

Semi-dense phase conveying is an intermediate phase between dense and dilute. Semi-dense phase systems operate at below saltation transfer speeds, with intermediate pressures and product-to-air ratios.



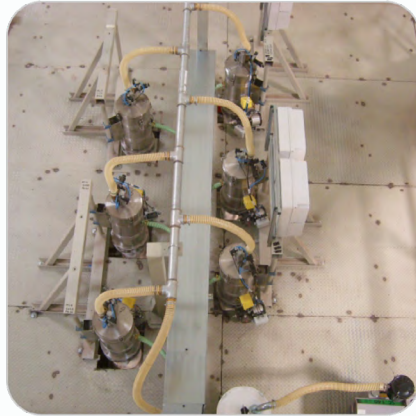
PNEUMATIC CONVEYING

DENSE, SEMI-DENSE AND DILUTE PHASE SYSTEMS

EXAMPLES OF INSTALLATIONS AND ACCESSORIES FOR PNEUMATIC CONVEYING



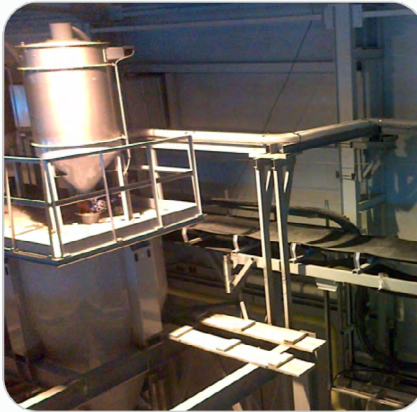
Battery of loading scale hoppers



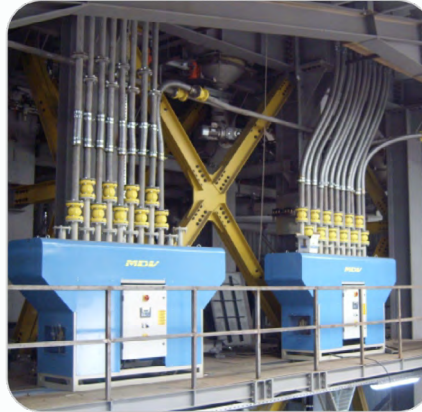
Battery of receiving bins



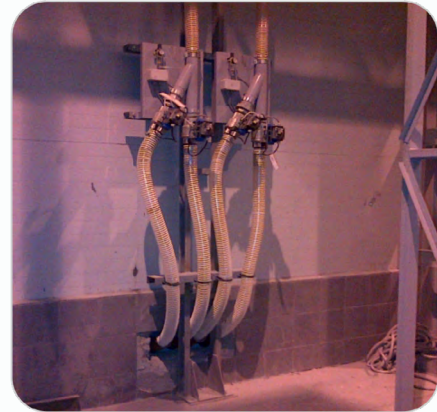
Vacuum pump unit & receiving cyclone / filter (continuous)



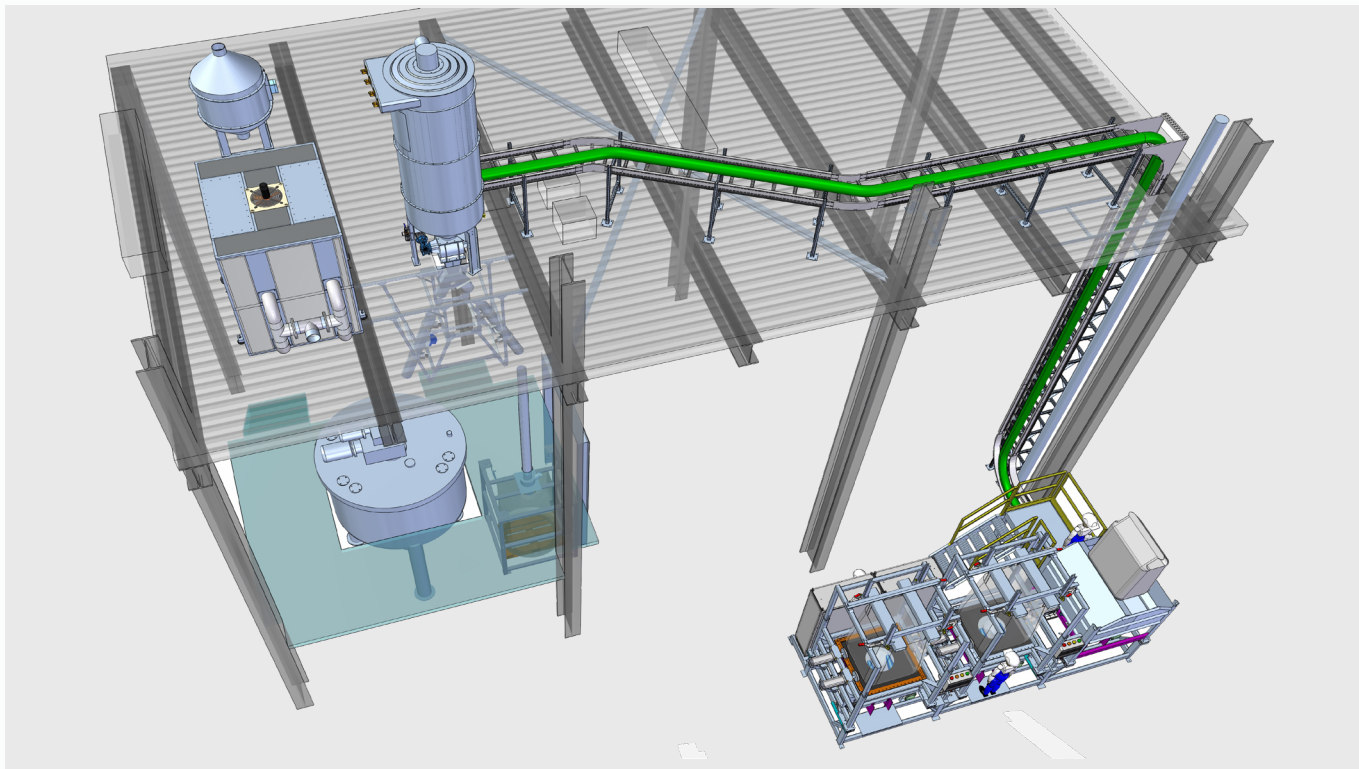
Arrival point with air filter



Multi-port automatic diverter valves

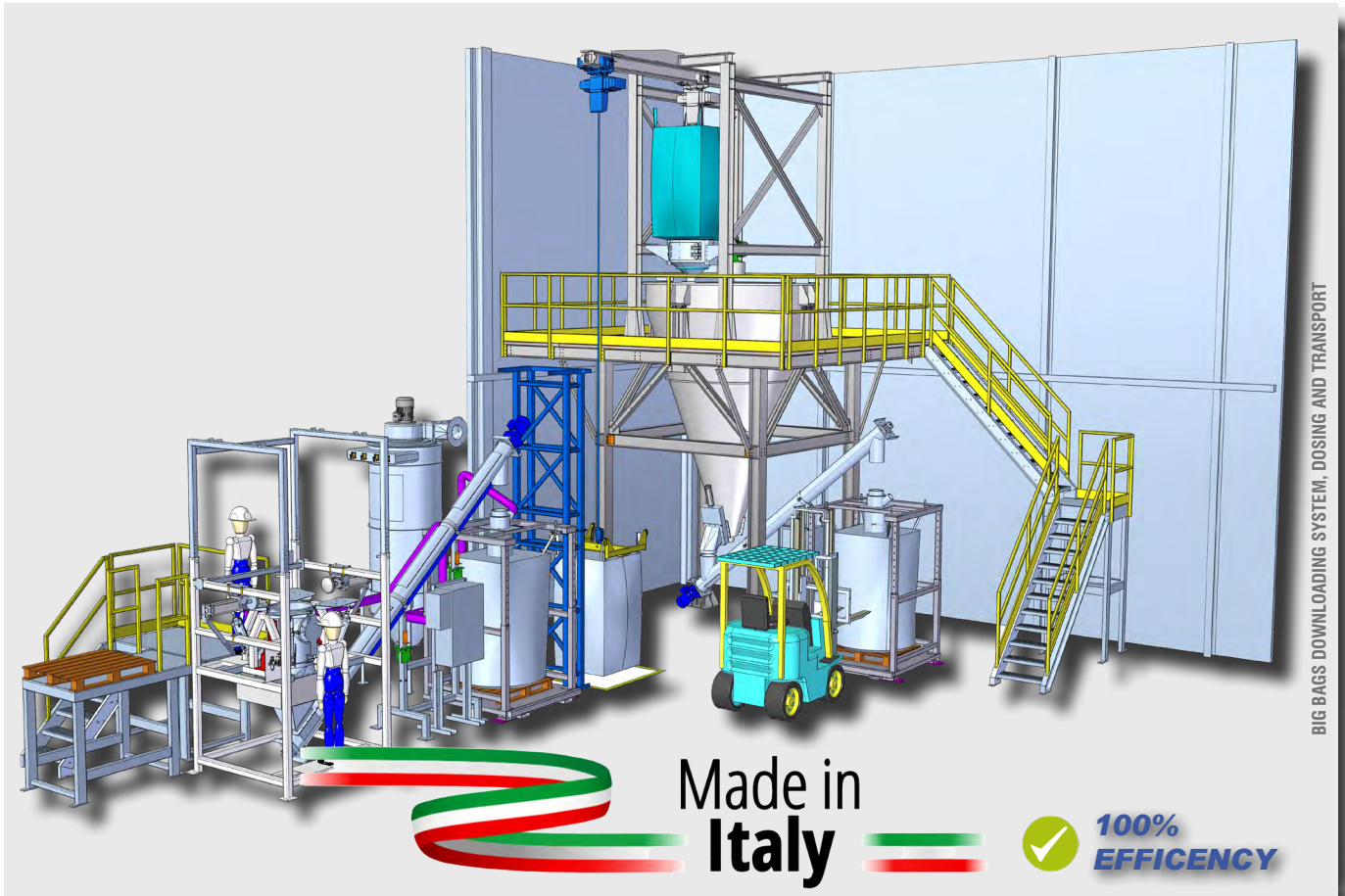


Diverter valves



SYSTEMS & INSTALLATIONS

A COMPREHENSIVE RANGE OF TAILORED-MADE SOLUTIONS



BIG BAGS UNLOADING SYSTEM, DOSING AND TRANSPORT

STAD's specialization is static and/or continuous weighing of all powdery solids in the bulk state (powders, granules, solid in size), used in any industrial sector.

Just from the preliminary project phase, we are able to test product samples in order to evaluate the feasibility of the process and the precision obtainable from our systems.

To complete the service offered to our customers, we are able to design and manufacture small-sized complete plants capable of extracting, measuring, weighing, transporting, mixing, receiving and storing these products, as well as products in a liquid state.

Each of our machines is customized to meet the needs related to the specific industrial sector and to the characteristics of the product to be handled; therefore our production foresees the use of components that vary from carbon steel painted to stainless steel with food finishing.

RANGE OF MACHINERY

Bulk bag unloaders

Manual bag unloading stations

Volumetric feeding conveyors

Pneumatic conveying systems

Gravimetric feeders

Mixers / blenders

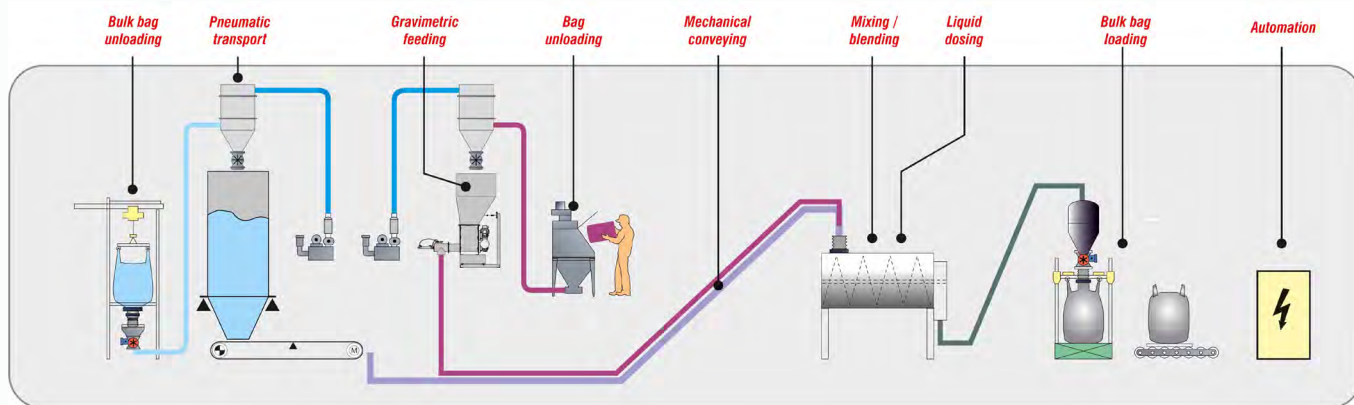
Silos / storage vessels



SYSTEMS & INSTALLATIONS

A COMPREHENSIVE RANGE OF TAILORED-MADE SOLUTIONS

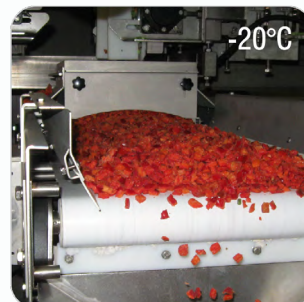
Stad is also able to complete the supply of its systems by managing (in collaboration with our partner company ElleK) the entire electrical part, from the electrical system on board the machine to the computerized electrical panel with management and supervision software.



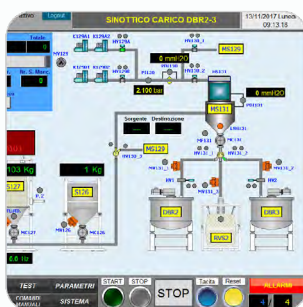
Bulk bags unloading battery



Conveyor belt with belt scale



Gravimetric dosing of food ingredients



Mixer with multiple dosing scales with integrated automation



Gravimetric liquid dosing

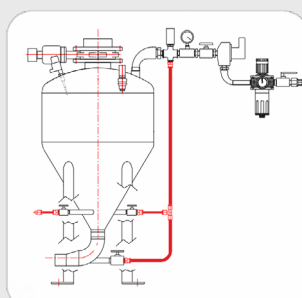


Big bags filling station

STAD SERVICES



Product characterization



Full engineering services

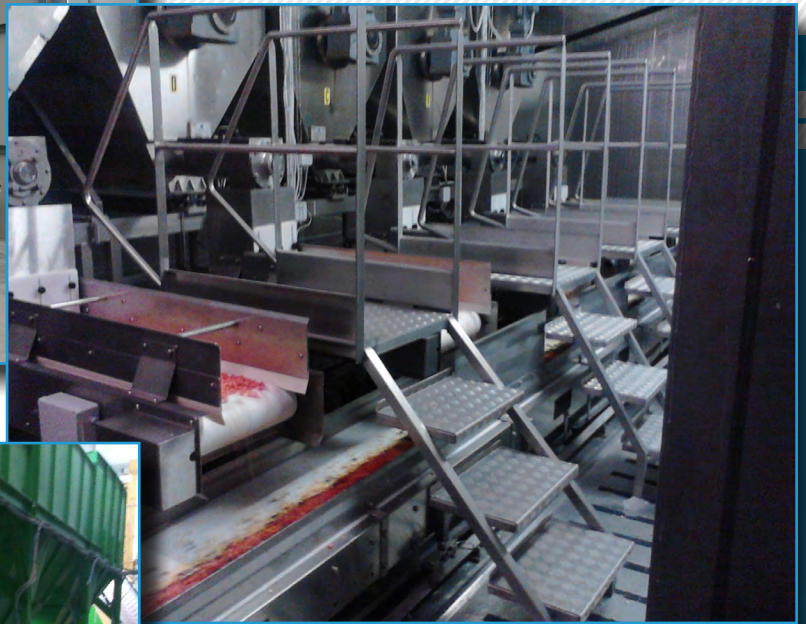


In-house testing facility

NOTE

Lined writing area with horizontal lines.





STAD S.r.l.

VIA PER REGGIO, 30/P
42019 SCANDIANO (RE) - ITALY
VAT nr. 01847550355

PHONE 1 (+39) 0522 989791
PHONE 2 (+39) 0522 851360
FAX (+39) 0522 765854
MAIL: stad@stadsrl.com



follow us   