

Bulk

Material Handling Solutions



Industrial Automation
Field instruments
Industrial Weighing Systems



Bulk Material Handling solutions

Matpro Solutions is specialized and leading supplier of Bulk material solutions , Industrial Automation, Field instruments & various industrial Weighing Systems.

Our business encapsulating the domains of System Design, application Engineering, Manufacturing, on- site expert services & spares and documentations.

Our fundamentals are development, Stability, Innovation, consistency, reliability and customer satisfaction.

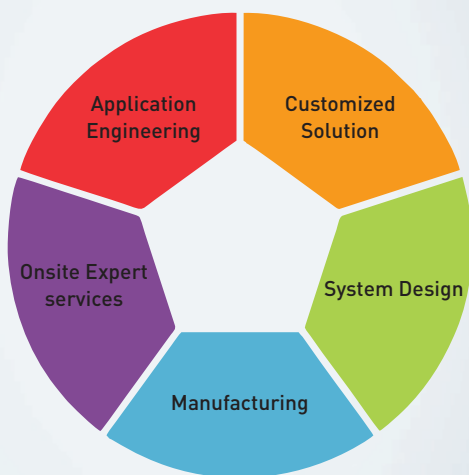
We focus to provide customized solutions to our customers in all their Bulk Material solutions, Industrial Automation & its paraphernalia and various industrial Weighing systems.

We listen to our customer's needs, as their process/ business developmental requirements. We design & deliver customized solution to overcome their existing challenges and further process improvements.

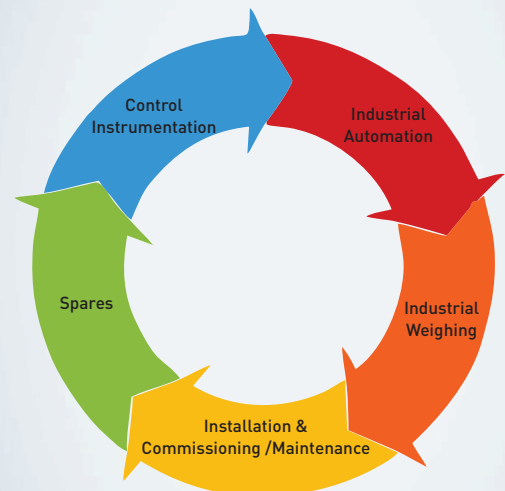
Our project design & detail engineering expertise include various domain of field instrumentation, Control system, panel engineering, Industrial weighing system etc.

We serve wide range of industrial sector like Food, Pharma, Chemicals, Steel, Power, Cement, Port, Mines, Fertilizers etc.

Our core competencies for Bulk Material Handling solutions are,



Our services for Bulk Material Handling solutions & Weighing Automation are,



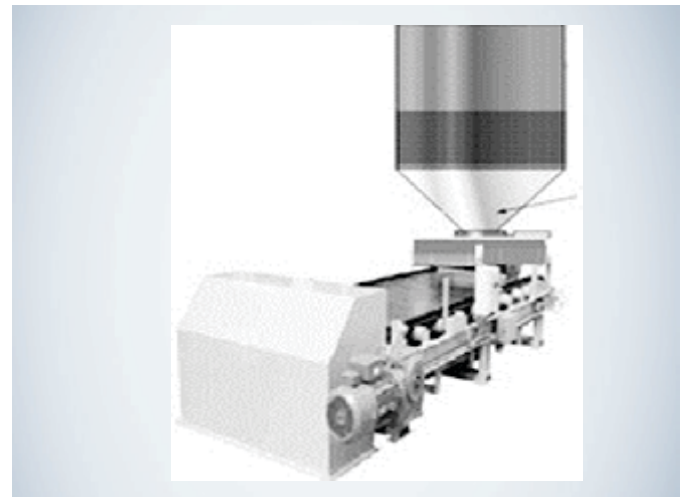
Industrial Weighing Systems



Conveyor Belt Scale System

Belt scales are most accurate and efficient method to measure bulk material flow on conveyor belt. Belt scales are used for various applications like dosing, Batching, inventory, bulk storage, etc. Matpro solutions offer state-of-art design, maintenance free, reliable and accurate belt scales consists of, Very rugged, floating, multi idler, low deflection, Single weighing frame suspended by Tension type loadcell at Four points for precise dynamic mass measurement. Coupled type, digital speed sensor to measure real precise conveyor belt speed. Digital, high performance, Microprocessor based programmable Controller.

Matpro Solutions belt scales are design for conveyor capacity upto 10000 TPH and conveyor speed upto 8 m/s. and confirm to deliver desired accuracy of $\pm 0.25\%$ of rated capacity . .

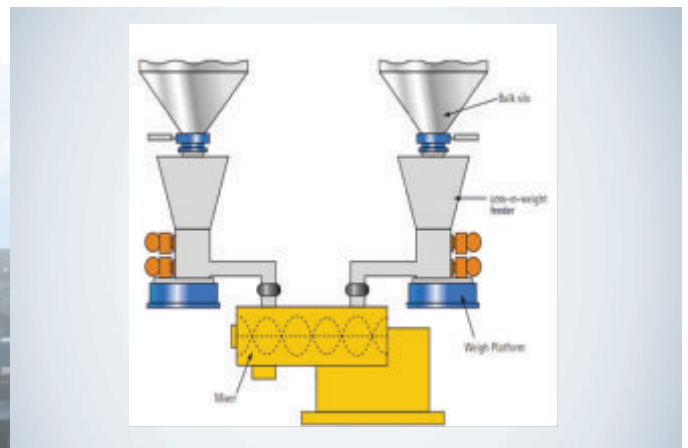


Gravimetric Weigh Belt Feeder

Gravimetric Weigh Belt Feeder are designed to deliver bulk material with controlled feed rate for dosing , batching etc. production process application. Weigh Feeders helps to provide more efficient process control and improve quality of production.

Matpro Solutions Weigh Belt Feeders are state -of-art design to deliver consistent desired accuracy of $\pm 0.5\%$.

Weigh Feeders are designed to accommodate flow rates upto 1000 TPH.



Loss-In Weight Feeder System

The accurate feeding of dry bulk material is often critical to maintain product quality. Loss-In-Weight Continuous or Batch Feeding Systems measure the mass flow rate and total mass of various bulk materials, such as powders, pellets, flakes granules etc.

Matpro Solutions designed loss-in-weight feeders can be used for hot, floodable and difficult bulk materials. They are unaffected by dust and material accumulation and are well suited for low feed rate applications. The entire feeding system is weighed to ensure desire precision accuracy.

Accuracy of the system ranges from $\pm 0.25\%$ to $\pm 1\%$



Batch Weighing system

Matpro Solutions offer , Tank /Vessel Weighing ,Bin/Silo Weighing Batch weighing system for Inventory, storage, production process etc. applications with system accuracy of $\pm 0.1\%$ for efficient process control and quality control.



Online Check Weighing System

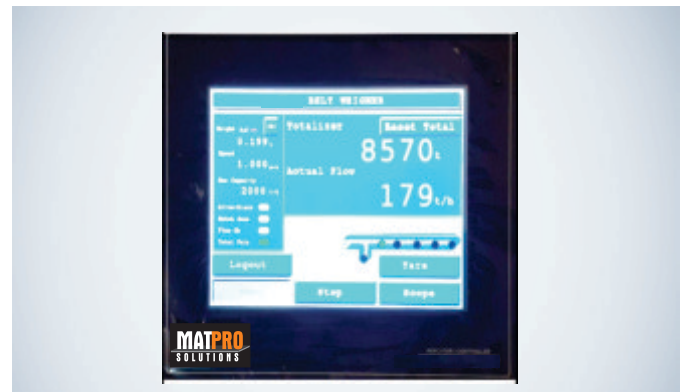
Check weighing systems are used in a wide variety of applications in the packing Process of food, Pharma and other industries for verifying product weight. Matpro solution offers a wide range of custom built check weighing systems. Each one configurable to suit individual requirements.



Level Monitoring System - Strain Gauge Sensor

Strain gauge sensor system infers level by measuring the mass of bulk material inside large capacity Bin/vessel/Silo. Substantially different and more accurate than measuring the distance from the top of the Bin / Silo. Strain Sensors measures mass of Bulk Material by physically measuring the strain in the steel structural supports. Strain sensors are press fit into the steel supports structure. Strain Sensors are unaffected by density of material and dust.

Accuracy of the system ranges from $\pm 3\%$ to $\pm 5\%$

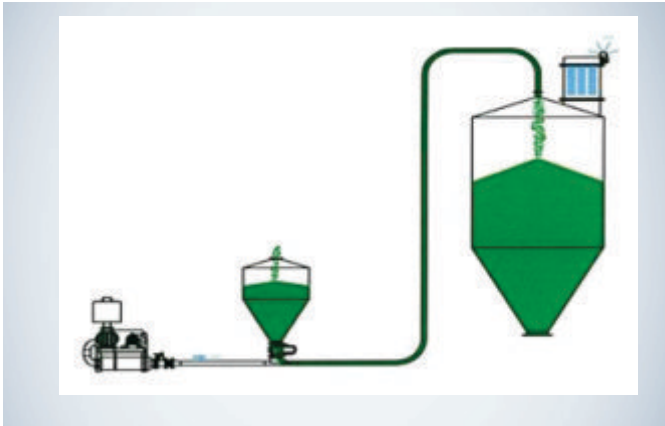


Universal Programmable Weighing Controller

MatPro 7001 high performance, microprocessor based, programmable controller is designed to perform complex computation, algorithms of various weighing application like,

- Conveyor Belt scale application
- Gravimetric Weigh Feeder application
- Tank / Vessel / Batch weighing system application
- Check weighing system application

Material Handling Equipments



Lean phase Conveying system



Dense Phase conveying system



Nauta Mixer



Screw Conveyor



Bulk Storage Silo



Jumbo Bag Filling



Dust Collector system



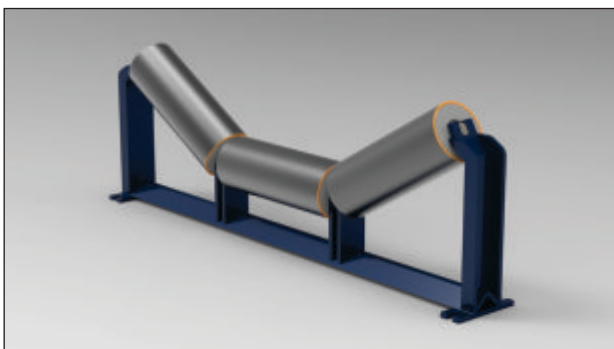
Liquid Filling system



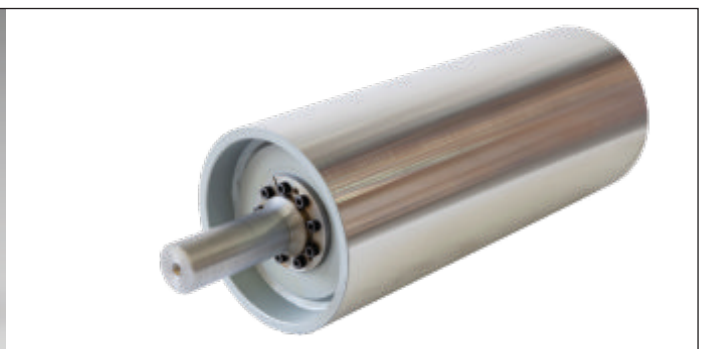
Roller Conveyor & Belt Conveyor



Rotary Valve



Roller



Pulley



Matpro Solutions Private Limited

Plot No. C-7/7, MIDC,
AMP Railway Gate, Ambarnath,
Dist. Thane, Maharashtra – 421501

☎ +91 8779467854 / 7738540431 / 8850416181

✉ sales@matprosolution.com

🌐 www.matprosolution.com

MATPRO SOLUTIONS PRIVATE LIMITED