



Automatic Debagging Machine

TSM's Automatic Debagging Machine is a high-capacity, fully automated system designed to efficiently empty bags of raw materials. Built for versatility, speed, and safety, it ensures smooth, continuous operation while reducing manual handling and operational costs.

- Compatible with plastic, paper & textile bags
- Processes up to 15000 kg/hr
- Reduces manual handling & improves safety
- Integrated quality control checkpoint
- Suitable for pellets & powder products
- Low power consumption
- Durable CE-compliant design
- Space-saving & productivity boosting

Material Pre-Treatment (Drying)

TSM offers high-performance drying systems designed to meet material-specific requirements across a wide range of applications. From compact units to large-scale systems, we provide tailored solutions that ensure consistent drying performance and process reliability.

- Hot air dryers for preheating & surface moisture removal
- Dry air (adsorption) dryers for hygroscopic materials
- Compressed air dryers for small volume applications
- Scalable systems – from small to high throughputs
- Individual units or fully integrated solutions
- Engineered for consistent, efficient performance



Process Temperature Control

TSM partners with world leaders in temperature control to deliver tailored heating and cooling systems that boost efficiency, reduce costs, and minimise environmental impact. Each solution is custom engineered to meet the unique needs of your site and process.

- Process cooling & heating
- Temperature control systems
- Reduces costs & energy use
- Improves production efficiency
- Custom solutions for each site



Solutions Through Partnership



Complete Turnkey Solutions



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Complete Turnkey Solutions

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1 Gravimetric Blending

OptiMix range of blenders provide superior accuracy, blend ratios and mixing homogeneity. OptiMix blenders utilize TSM's patented technologies in slide valve design and reverse flighted auger mixing. Opti-Mix range can accommodate throughputs up to 3,000kg/hr (6,600lbs/hr).

- High accuracy dispensing to 0.01% of batch
- Superior weighing and patented mixing
- Throughput and weight / length extrusion control options
- Material usage / inventory statistics
- Extrusion control accuracy up to +/- 0.5% of target setpoint



2 Vacuum Receivers

- 0.2 to 6 cuft capacities
- Stainless steel contact surfaces
- Dedicated and common material line
- High heat optional
- Modular construction for maximum flexibility



3 Extrusion Control

TSM has continually invested in best in class extrusion control technologies, which allow's TSM to bring to market the fastest and most accurate control technologies available on the market. Incorporated as standard in the OPTIX extrusion control blender, producers can choose from: Throughput Control – varying the extruder speed to control output rate. Weight per Length Control – maintains product yield by adjusting the Extruder or Extruder and/or Haul-off speeds simultaneously.

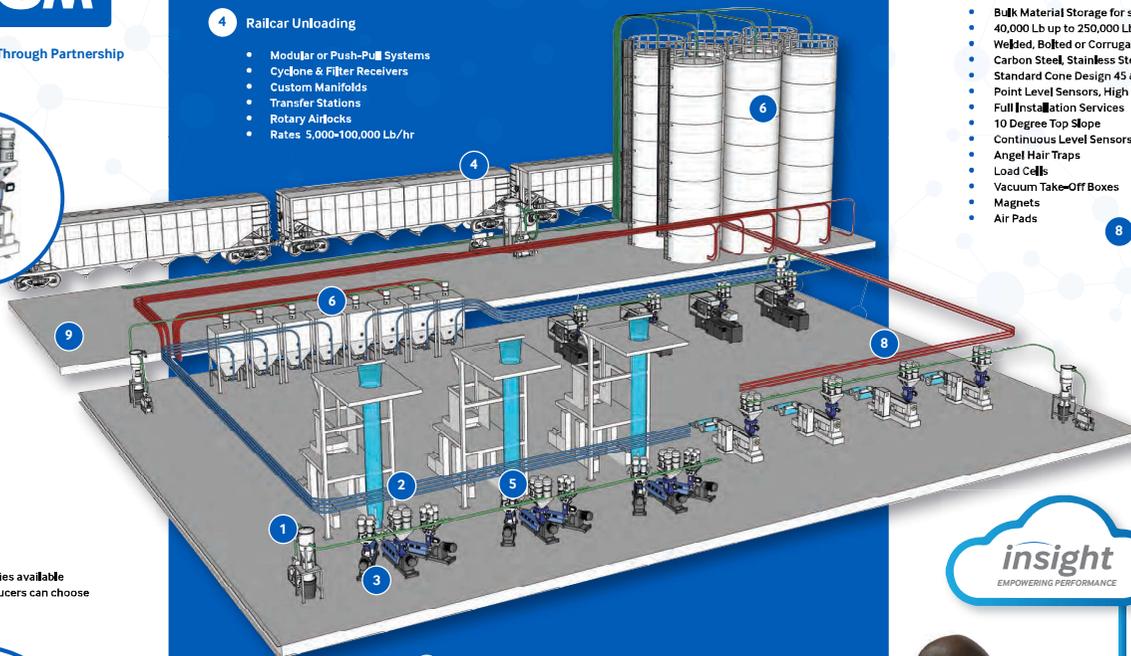
- Improved quality
- Fast start up
- Reduce material usage
- Less waste
- Simple intuitive operator interface
- Comprehensive reporting
- Compensates for bulk density variations
- Tighter tolerances achievable



Complete Turnkey Solutions

4 Railcar Unloading

- Modular or Push-Pull Systems
- Cyclone & Filter Receivers
- Custom Manifolds
- Transfer Stations
- Rotary Airlocks
- Rates 5,000-100,000 Lb/hr



5 Air Ring and Automatic Thickness Control

TSM Control Systems, presents the SmartLip One AirRing, a next generation solution for blown film control. With a single air inlet and integrated insulation. It boosts output, improves thickness tolerances, cuts condensation and low-pressure use. It's advanced chamber and flow design deliver superior bubble stability. Backed by fluidic research, rigorous testing, and customer input

6 Custom Silos

- Bulk Material Storage for storage of Shipped Resin
- 40,000 Lb up to 250,000 Lb
- Welded, Bolted or Corrugated Silos
- Carbon Steel, Stainless Steel or Aluminum
- Standard Cone Design 45 & 60 Degree
- Point Level Sensors, High & Low Level Alarms
- Full Installation Services
- 10 Degree Top Slope
- Continuous Level Sensors
- Angel Hair Traps
- Load Cells
- Vacuum Take-Off Boxes
- Magnets
- Air Pads



7 Surge Bins

- Custom capacities
- Aluminum, Stainless Steel & Carbon Steel
- Standard Cone Design 45 & 60 Degree
- Point Level Sensors, High & Low Level Alarms
- Angel Hair Traps
- Vacuum Take-Off Boxes
- Magnets
- Air Pads



8 Pneumatic Conveying

- Vacuum & Material Lines
- Aluminum, Stainless Steel & Carbon Steel
- Tubing 1" to 14" OD
- Elbows, Laterals, Wyes, Couplers, etc.
- Anti-Static Flexible Hose 1" to 10" ID
- Dedicated and Common Material Lines
- Sizing & Installation
- Custom Manifolds

9 Positive Displacement Pump Packages

- Vacuum & pressure pumps available
- 3 - 60 HP TEFC MOTORS
- 500 - 50,000 Lb/hr capacities
- Positive displacement lobe blower
- Inlet safety filter standard
- Exhaust filter and silencer standard
- Liquid filled vacuum gauge standard
- Optional sound enclosures
- Central dust collection
- Pump, filter & material lines sized for application



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