

R.S. ENTERPRISES

AN ISO 9001:2015 CERTIFIED COMPANY

BUILDING TRUST WITH QUALITY



MANUFACTURER AND SUPPLIER OF PACKAGING MACHINES, WEIGH FEEDERS, AND SILOS, OFFERING TURNKEY PROJECT SOLUTIONS.

COMPREHENSIVE SOLUTIONS FOR INDUSTRIAL PACKAGING MACHINES AND SPARE PARTS TO MEET DIVERSE OPERATIONAL NEEDS. >>>>

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ABOUT US

Founded in 2020, R.S. Enterprises has quickly become a leading name in advanced packaging machinery. Based in Jhunjhunu, Rajasthan, we cater to industries like cement, ready-mix, chemicals, minerals, and more. Our product line includes impeller-type packaging machines, screw-type packaging machines, weigh feeders, material feeding silos and turnkey projects – all engineered to enhance productivity and operational efficiency.



MISSION

Our mission is to be the most trusted partner in providing high-quality, cost-effective packaging machinery. We aim to help industries transition to automated packaging processes, reducing costs and improving efficiency. Our vision is to see every sector benefiting from seamless, automated packaging that drives operational excellence.

VISION

We envision a future where every industrial sector benefits from seamless, automated packaging processes, enhancing efficiency and reducing operational costs.

Why Choose Us

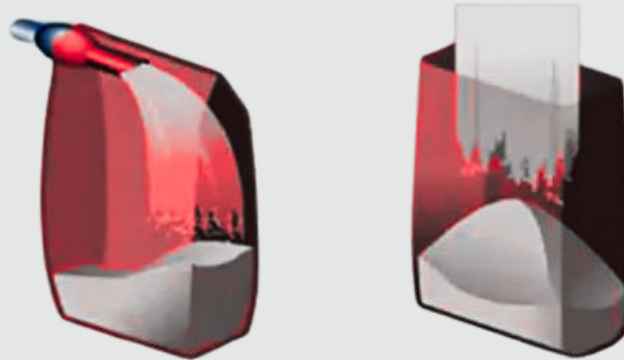
1. Over 5 years of experience in engineering and manufacturing packaging solutions tailored to the cement, construction, and building materials industries.
2. Offering 10+ advanced machines, including valve and open-mouth packaging machines, designed for precision and efficiency in handling materials.
3. Customization options to meet unique client needs, ensuring compatibility with various materials and packaging requirements.
4. Trusted by leading brands like Adani Wilmar, Sakarni, Walplast, KP Cement, Magicrete and Supertech for high-speed, accurate, and durable machinery.
5. Built with robust materials under the supervision of professional engineers, our machines ensure long-term performance even in demanding industrial environments.
6. Dedicated after-sales service, easy access to spare parts, and support from our Surat office for a seamless customer experience.
7. Machines designed and manufactured to cater to Indian market demands, aligning with global quality standards.

RS IMPELLER PACKER

Our flagship product, the Impeller Type Packaging Machine, comes in variants with one to three spouts and can handle packaging capacities from 20 to 50 kg. It is designed to meet the demands of industries handling large-scale material packaging such as cement, dry mix mortar, silica sand, and more. With a feed rate of approximately 300-350 bags per hour per spout, it's a workhorse for any packaging line.



RSIP-001



Suitable for both valve type bags as well as open mouth type bags



RSIPOM-001



RSIP-001.2

RSIPOM-001.2

RS IMPELLER PACKER



RSIP-001.3

RSIP-001.SP – Designed for Excellence in Low Bulk Density Packaging

RSIP-001.SP, a cutting-edge packaging machine specially engineered to handle low bulk density materials such as feldspar powder, mineral talc, and similar materials in upto 60kg bags. Suitable for industries packaging feldspar powder, mineral talc, kaolin clay, bentonite, and other low-density materials.

Key Features

☆ **Optimized for Low Bulk Density Materials:**

Handles materials that require larger bag capacities due to their low density, such as feldspar and mineral talc.

☆ **Enhanced Frame Design:**

Equipped with a higher frame to accommodate larger bag sizes (specifically higher height), ensuring seamless filling of up to 60kg valve-type bags.

☆ **Precision and Accuracy:**

Integrated with advanced load cell technology and fine-tuned controls, the machine ensures precise bag filling with minimal material wastage.

☆ **Robust and Durable Construction:**

Built with industrial-grade materials, the RSIP-001.SP guarantees long-term performance and reliability under demanding conditions.



RSIP-001.SP

RS IMPELLER PACKER

RSIP - Technical Specifications

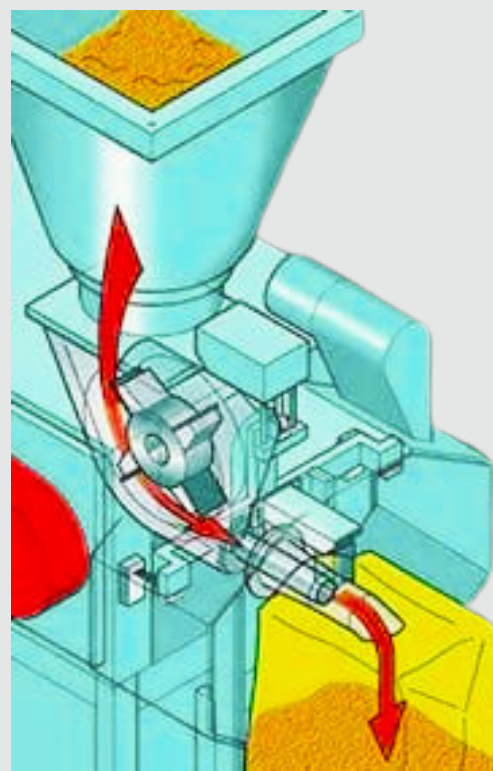
Model No.	RSIP-001	RSIP-001.2	RSIP-001.3	RSIPOM-001
No. of Spout(Nozzle)	1	2	3	1
Capacity	20 kg to 50 kg			
Feed Rate (bags/hour)	300 to 350	600 to 700	900 to 1000	300
Accuracy	± 0.5 % Standard Deviation			
Bag Type	Valve (Nozzle) type			Open Mouth
Bag Material	HDPE, Jute, Paper, etc			HDPE, Jute, etc
Bag Height	760mm (29.9 inch) Max.			
Bulk Density of Material (kg/m ³)	650 to 1500			
Material Packed	Cement, Fly Ash, Ready Mix, Wall Putty, Gypsum, Chemicals, Minerals, etc			
Particle Size	Upto 2 mm Max.			
Drive Motor (Electric)	7.5 HP / 10 HP			
Power Supply	380/440 VAC, 3 Phase @ 50 Hz			
Air Consumption (CFM @PSI)	10 @ 100			
Machine Dimensions (L x B x H)	765mm × 1250mm × 1920mm			
After Sales Support	Yes			

Working/Operation of the Machine

This compact machine is mounted below the storage silo. The process begins when the operator places an empty bag onto the filling spout/head. The machine automatically detects the bag and activates the pneumatic cylinder, engaging the bag clamping mechanism. Material flow is regulated by a slide gate, controlled by a three-position cylinder.

The filling head is mounted on a suspension frame connected to a load cell. Once 80% of the target weight is reached, the system switches from coarse to fine filling. Coarse filling ensures high throughput, while fine filling provides precision in weight accuracy.

When the desired weight is achieved, the filling stops, the slide gate closes, and the clamp releases the filled bag. The bag is then transferred to the conveyor via the injector cylinder, making the machine ready for the next cycle.



RS SCREW PACKER

Our Screw Type Packaging Machine is designed to cater to industries handling lightweight and fine powders such as mineral talc, calcium carbonate, bentonite, and more. Available in single to multiple spout configurations, it can handle packaging capacities ranging from 20 to 50 kg bags. The screw packer ensures reliable performance and accuracy, with a feed rate of 150-200 bags per hour per spout, making it a versatile option for your packaging needs.

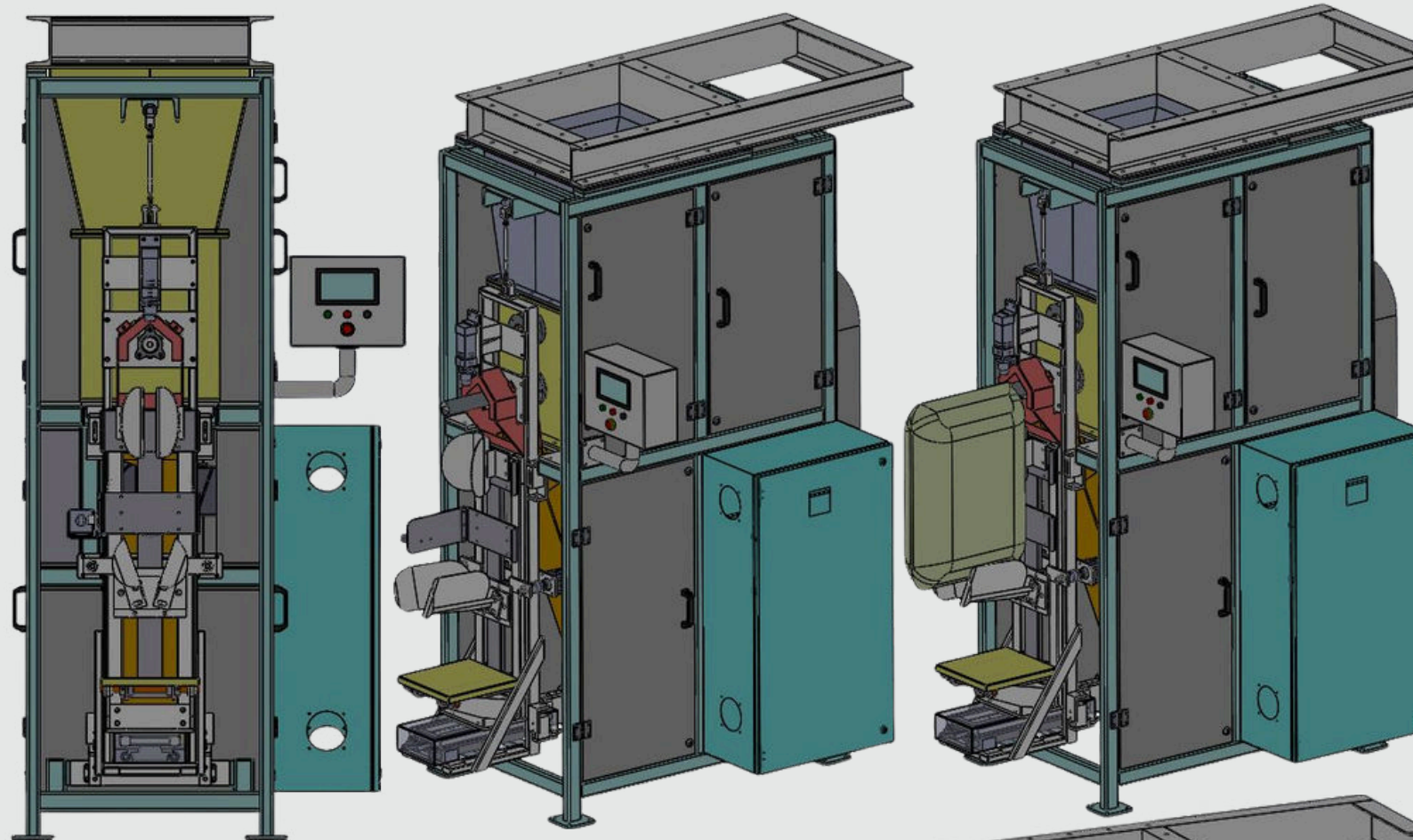
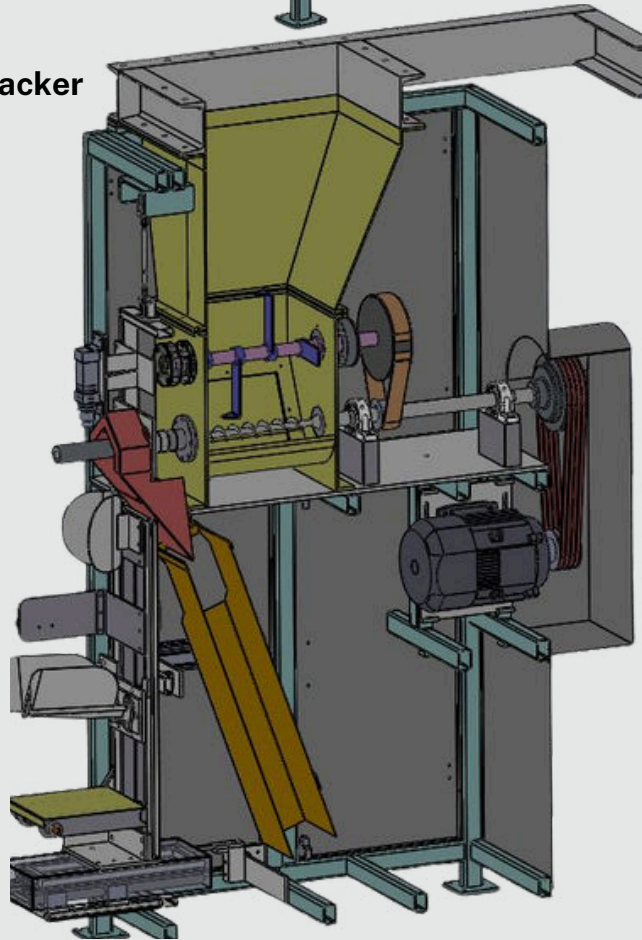


Figure: 3D Drawing of RS Screw Packer

Key Features of RS Screw Packer

- ☆ **Precise Filling:** Ensures high accuracy for low-density materials.
- ☆ **Adjustable Feed Rate:** Allows flexibility for different material flow rates.
- ☆ **Low Power Consumption:** Efficient operation with lower energy requirements.
- ☆ **Compact Design:** Easily integrates into existing packaging lines.
- ☆ **Versatility:** Suitable for a wide range of lightweight powder materials.

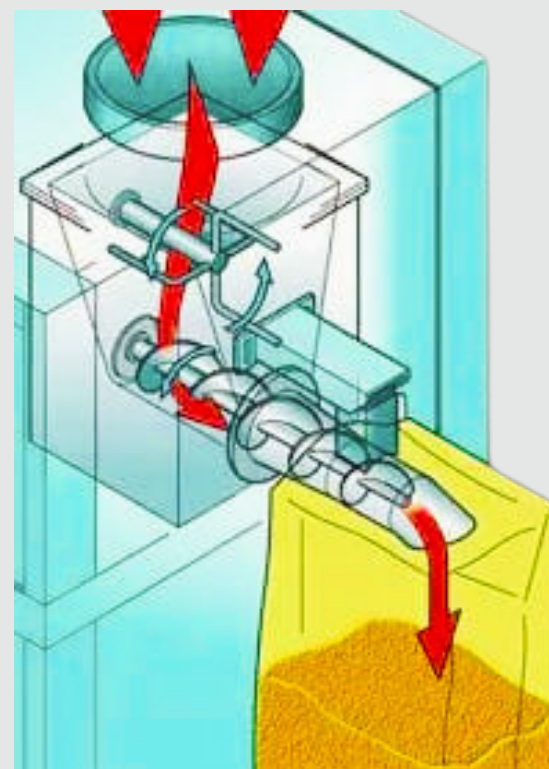


RS SCREW PACKER

RSSP - Technical Specifications		
Model No.	RSSP-001	RSSPOM-001
No. of Spout(Nozzle)	1	1
Capacity	20 kg to 50 kg	
Feed Rate(bags/hour)	150 to 200	120 to 180
Accuracy	± 50 to 100 grams	
Bag Type	Valve (Nozzle) type	Open Mouth
Bag Material	HDPE, Jute, Paper, etc	HDPE, Jute, etc
Bag Height	1000mm (39 inch) Max.	
Bulk Density of Material (kg/m ³)	200 to 650	
Material Packed	All hygroscopic and low bulk density materials such as minerals, calcium, talc, bentonite, china clay, and more.	
Particle Size	Upto 2 mm Max.	
Drive Motor (Electric)	7.5 HP (5.5 K.W)	
Power Supply	380/440 VAC, 3 Phase @ 50 Hz	
Air Consumption (CFM @PSI)	10 @ 100	
Machine Dimensions (L x B x H)	765mm × 1250mm × 1920mm	
After SalesSupport	Yes	

Working/Operation of the Machine

- **Bag Placement and Clamping:** The operator places an empty bag onto the spout, which activates the bag clamping mechanism via a pneumatic cylinder.
- **Material Feeding:** Material from the storage silo flows into the screw feeder, which conveys it steadily into the bag. The screw's rotation speed can be adjusted to control the material flow, enabling both coarse and fine filling modes.
- **Weight Control:** The filling head is integrated with a load cell to ensure precise weight measurement. As the bag reaches 80% of its target weight, the system switches from coarse to fine filling, ensuring accuracy in the final weight.
- **Bag Release and Conveyor Transfer:** Once the desired weight is achieved, the filling stops automatically, and the bag clamp releases the filled bag. The bag is then transferred onto the conveyor for further handling, making the machine ready for the next cycle.



WEIGH FEEDERS



Figure: RS Belt Weigh Feeder

RS Belt Weigh Feeders - Technical Specifications

Type	Loadcell based weighing mechanism
Belt Width	500mm to 1800mm
Motor	AC Three-Phase
Capacity	5 TPH to 80 TPH
Roller Type	Double Roller
Feed Hopper	Customized as per material properties
Power	230 KW
C to C distance	2000, 2500 and 3000 mm
Control Range	1 : 10
Accuracy	± 0.5% standard deviation
Application	Cement Plants (clinker, gypsum, flyash, slag) Sponge Iron (Iron ore, dolomite, coal, limestone) Mining (crushed ore, limestone, sand, aggregates) Food Processing (grains, flour, sugar) Glass Manufacturing (silica sand, sodaash, limestone) Pulp and Paper (wheat straw, wood chips, chemicals) Iron and Steel (iron ore, coke, limestone)

FEEDING SILO

Our Material Feeding Silos are essential components of our packaging solutions. With capacities ranging from 10 MT to 50 MT, they are perfect for materials such as cement, fly ash, and limestone. They can be customized as welded or bolted, ensuring they fit your unique operational requirements.



Figure: RS Feeding Silo with Y chute mounted above RSIP-001

Features

- Silo for Packaging Machines
- Capacity: 10 MT to 50 MT
- Height: 3 meters to 10 meters
- Type : Welded, Bolted
- Suitable for: Cement, Flyash, Limestone, Readymix, Drymix Mortar, Putty, Tile Adhesive, Feldspar, Silica Sand, Gypsum plaster, etc.

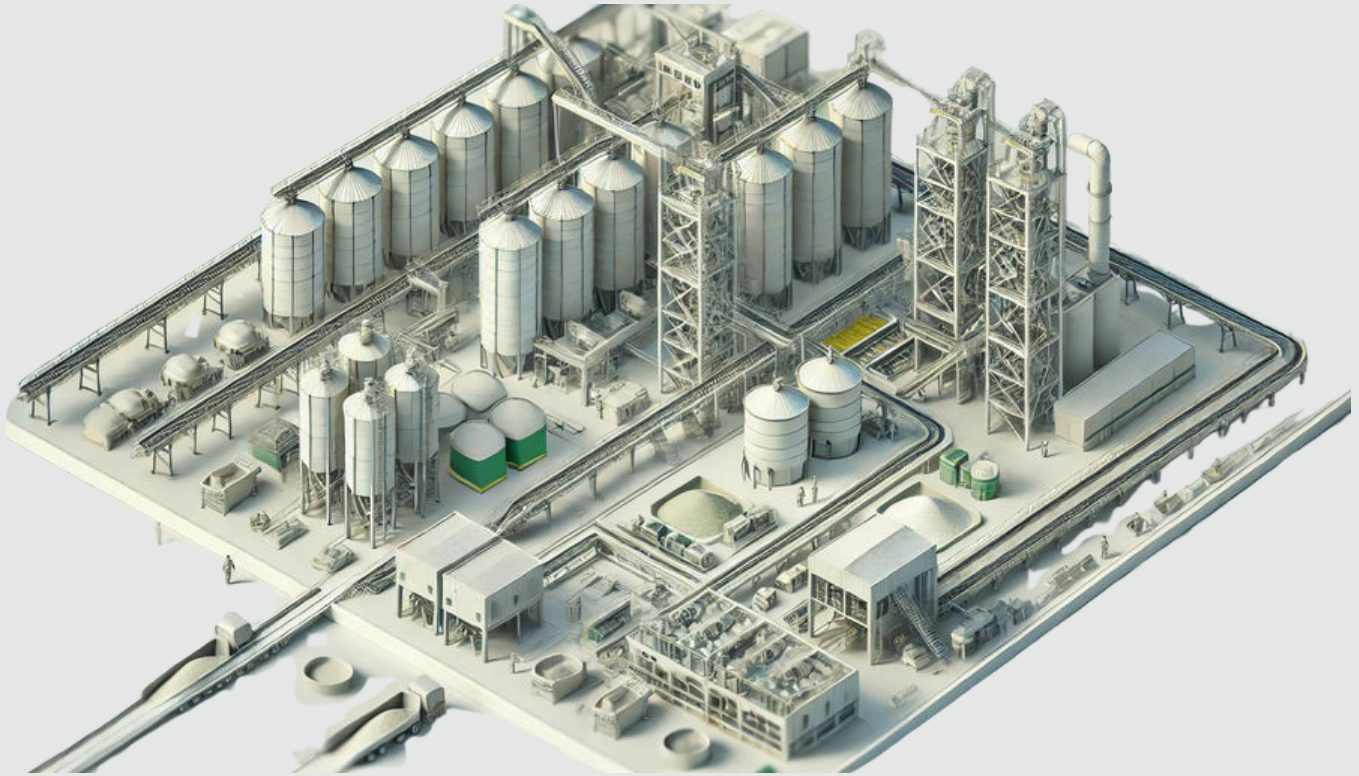


TURNKEY PROJECTS

At **R.S. Enterprises**, we pride ourselves on delivering end-to-end solutions for Cement Packing Plants and Drymix/Readymix Mortar Plants. From concept to commissioning, we provide all components and parts required to set up state-of-the-art plants tailored to meet your specific requirements.

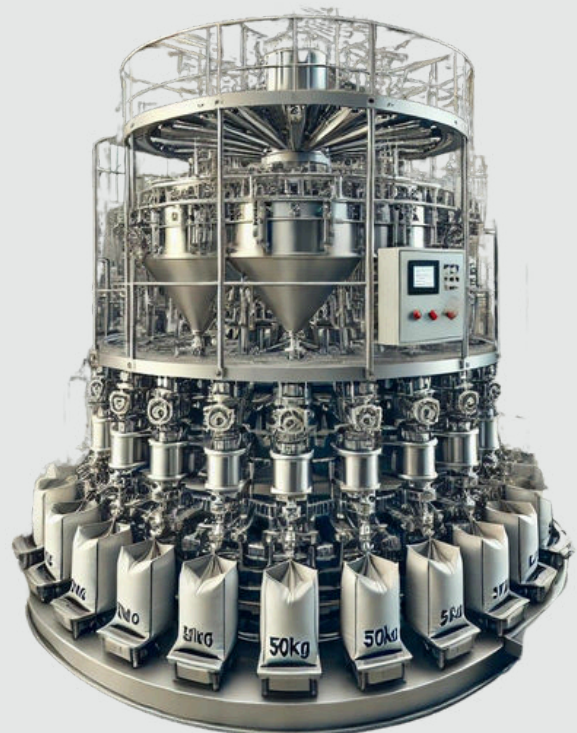
✦ Cement Packing Plant – Comprehensive Turnkey Solution

Our Cement Packing Plant solutions are designed to streamline your packaging process for high-density materials such as cement, dry mix mortar, fly ash, and silica sand.



What We Provide:

1. **Silos:** Storage silos with advanced material flow systems for consistent supply to the packaging line.
2. **Feeding Systems:** Pneumatic and mechanical conveying systems for seamless material transfer.
3. **Packing Machines:**
 - High-performance Packing Machines (Rotary Packer) with 6 to 8 spout configurations for efficient and precise packaging.
 - Automated bag-filling mechanisms to ensure quick and accurate operations.
4. **Weighing and Load Cells:** Integrated load cell technology for accurate weight control.
5. **Bag Handling Systems:** Conveyors, bag transfer systems, and stitching machines for streamlined handling.
6. **Dust Extraction Units:** Environmentally-friendly dust collection systems to maintain a clean and safe working environment.
7. **Control Panels:** Fully automated control systems for managing and monitoring operations efficiently.
8. **Other Accessories:** Slide gates, rotary feeders, injector cylinders, and spares for complete plant functionality.



TURNKEY PROJECTS



Drymix/Readymix Mortar Plant – End-to-End Setup

Our **Drymix/Readymix Mortar Plants** are engineered for efficiency, ensuring consistent mixing and packaging of lightweight materials like wall putty, gypsum-based products, ready-mix mortar, and adhesives.



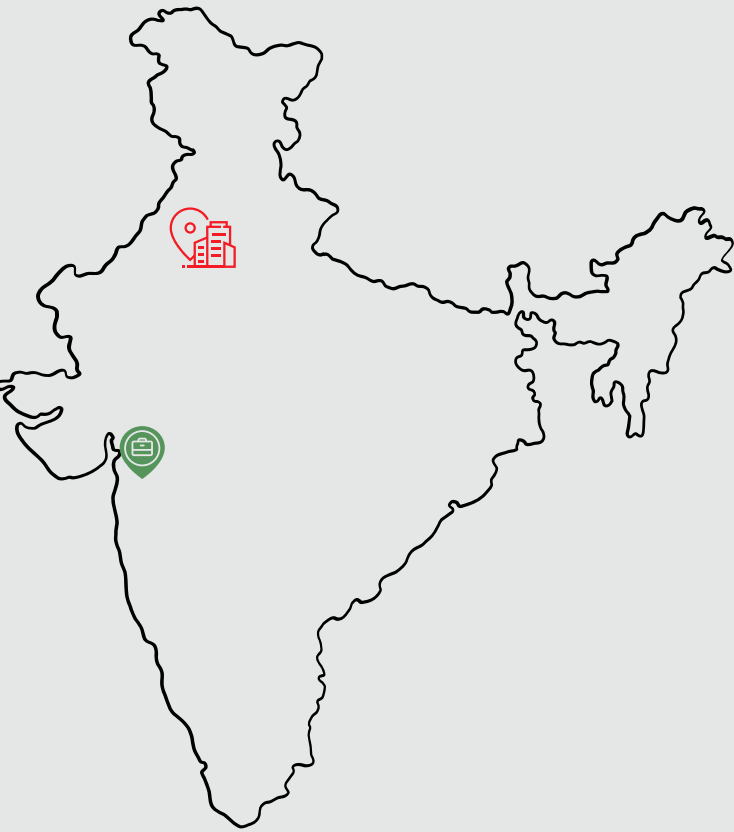
What We Provide:

1. **Raw Material Silos:** Designed to store multiple raw materials with proper extraction systems.
2. **Weighing Systems:** Precise batching and weighing systems for consistent mix ratios.
3. **Mixing Units:**
 - Twin Shaft or Ribbon Mixers for uniform mixing of materials.
 - High-speed blenders for lightweight and fine powders.
4. **Conveying Systems:** Screw conveyors and elevators to transfer materials between processing stages.
5. **Packing Machines:**
 - Impeller Type Packing Machines tailored for high-density materials.
 - Valve type bag fillers for easy and efficient packaging.
6. **Dust Collection Systems:** Advanced filtration units for safe and eco-friendly operations.
7. **Control Panels:** Automated systems with programmable logic controllers (PLC) for smooth operations and minimal manual intervention.
8. **Storage and Handling Systems:**
 - Pre-mix storage bins for processed materials.
 - Palletizing systems for efficient bag stacking and dispatch.
9. **Auxiliary Equipment:** Drying units, rotary sieves, and spares for enhanced productivity.

R.S. ENTERPRISES

DELIVERING EXCELLENCE ACROSS INDIA


At **R.S. Enterprises**, we understand the importance of precision, efficiency, and reliability in industrial projects. With over **400+** successfully commissioned packaging machines, we have built a strong presence across the length and breadth of India. Our turnkey solutions are designed to enhance your production capabilities while minimizing costs and downtime. Let us help you build a state-of-the-art plant for your business needs. **Partner with us to make your vision a reality!**



Our Locations

Head Office & Factory

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