



PRIME ADVANCE POLISHING SYSTEMS PVT. LTD



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ISO 9001 : 2015 Certified

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We Make Quality

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Ta: Savli , Dist:Vadodara 391770



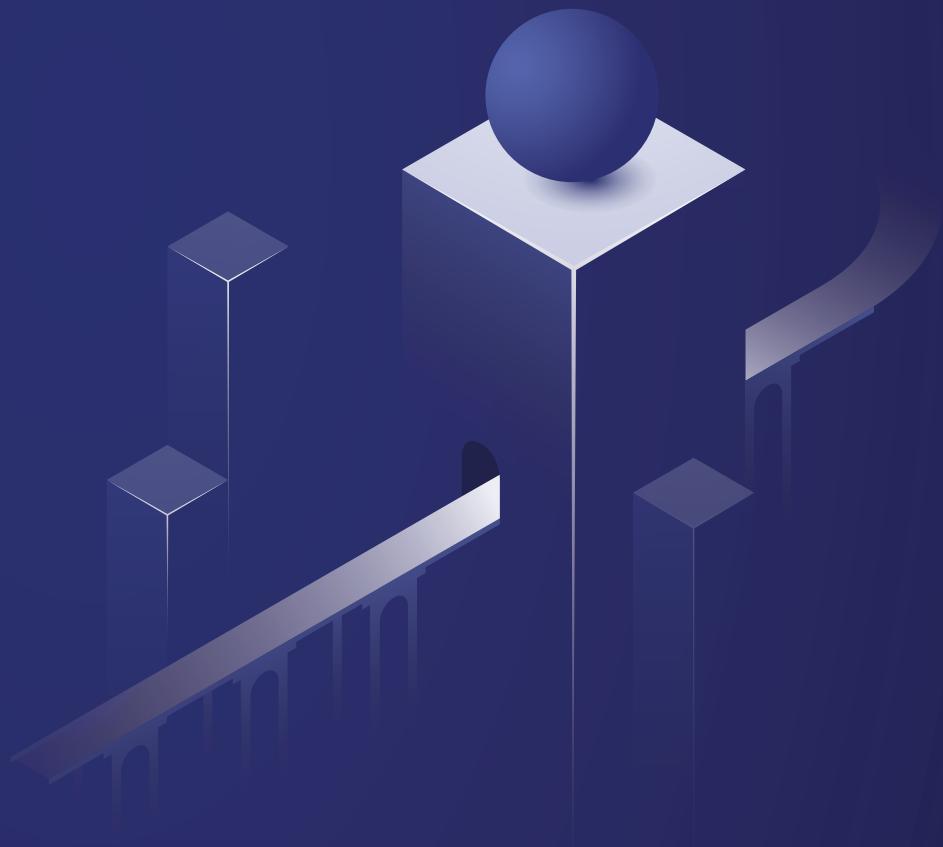
www.primeadvance.in

ABOUT US

Incorporated in the year 2005, We Prime Advance Polishing System Pvt. Ltd. are one of the leading ISO 9001:2015 Certified manufacturing Industry to serve fabricated products in Oil, Gas & Energy, Hydrocarbons, Chemicals, Dairy, Pharmaceuticals, Defense, Telecommunication, Fertilizer, and power industries.

We are the foremost service provider of various Industrial plating and polishing services as per the requirements of the clients.

Prime advance is one point solution for bulk material conveying, handling, storing, discharging and dosing (Batching), Packing applications. Thus, we also manufacture Powder processing area equipment, Material Handling equipment & Process solutions equipment.



SERVICES

We provide expert industrial surface finishing and maintenance services, including electro and mechanical polishing, blasting, painting, metalizing, and heat exchanger re-tubing. Our skilled team ensures high-quality results, durability, and reliable performance for every project.



1. Mechanical Polishing



2. Electro polishing



3. Blasting & Painting



4. Glass Bead Blasting



5. Pickling & Passivation

OUR PRODUCTS

Our products are designed to deliver top performance and durability for various industrial applications. Each product is crafted with precision and quality to meet industry standards, ensuring efficiency and long-lasting results in every use.

REACTION VESSEL

A reaction vessel, or chemical reactor, is a fundamental container designed for conducting controlled chemical reactions. These vessels, which range from small lab flasks to enormous industrial tanks, are typically made of corrosion-resistant materials like stainless steel or glass.

Their design focuses on precise control over conditions, including temperature (via jackets or coils), pressure (for high-pressure or vacuum operation), and mixing (using internal agitators or stirrers). They are broadly categorized as batch reactors (for flexible, cyclical processes) or continuous flow reactors (for high-volume production), and are essential across the pharmaceutical, petrochemical, and many other chemical industries.

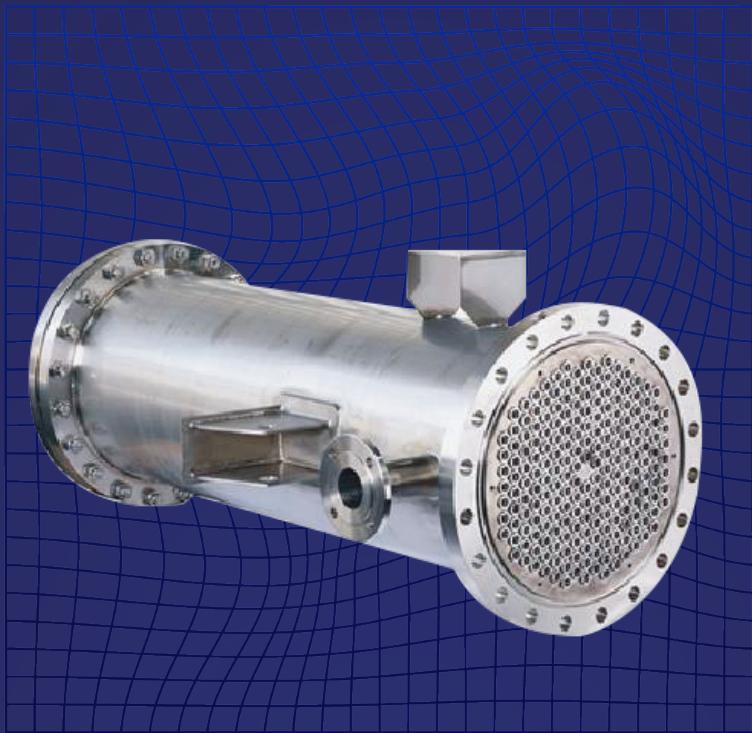
PRESSURE VESSEL

A pressure vessel is a closed container designed to safely store or process fluids (gases or liquids) at a pressure substantially different from the ambient pressure, making them essential across industries like chemical processing, power generation, and manufacturing; they are typically cylindrical or spherical to withstand stress most efficiently and are constructed from materials like steel alloys according to rigorous safety codes, most notably the ASME Boiler and Pressure Vessel Code (BPVC), which mandates strict standards for design, fabrication, inspection, and the inclusion of safety devices such as pressure relief valves (PRVs) to prevent catastrophic failure from over-pressurization.



HEAT EXCHANGER

Heat exchanger is a crucial device whose sole function is to efficiently transfer thermal energy between two fluids at different temperatures without allowing them to mix. Its performance is defined by the Heat Transfer Rate and the Overall Heat Transfer Coefficient, balanced against the operational cost reflected in Pressure Drop.



Widely used in Power Generation (condensers), Petrochemicals (Shell and Tube design), and HVAC (Plate and Air-Cooled designs), the safe construction of these units is governed by rigorous standards like the ASME Pressure Vessel Code.

COLUMN

A column, often referred to as a tower in process industries, is a tall, cylindrical vessel used to achieve intimate contact between a rising vapor or gas phase and a descending liquid phase to facilitate mass and/or heat transfer.



It is a critical component for separating components in a liquid mixture based on differences in volatility (as in distillation), selectively removing components from a gas stream using a liquid solvent (as in absorption and stripping), or enhancing contact for reaction processes. Columns are essential for producing purified products across the petrochemical, chemical, food, and pharmaceutical industries.

AGITATOR ASSEMBLY

An Agitator Assembly is a crucial piece of industrial equipment, primarily consisting of an impeller or propeller and a drive system, that functions to impart mechanical energy into a fluid to achieve uniform mixing, blending, and suspension of various materials, ensuring consistent product quality and facilitating necessary chemical or physical reactions.

Key applications span numerous industries, including chemical processing for synthesizing & dissolving, pharmaceuticals for preparing drug formulations and suspensions, food and beverage for blending ingredients like sauces & dairy products, water treatment for flocculation & chemical addition, and minerals and mining for slurry conditioning & leaching processes.



STORAGE TANK

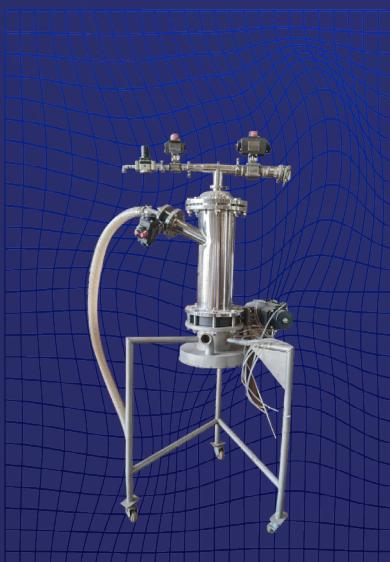
A Storage Tank is a large industrial container, often cylindrical and made of materials like steel or plastic, designed to provide a safe, static, and long-term holding solution for a wide array of substances, predominantly liquids, gases, and chemicals, protecting them from environmental factors and ensuring secure inventory management.

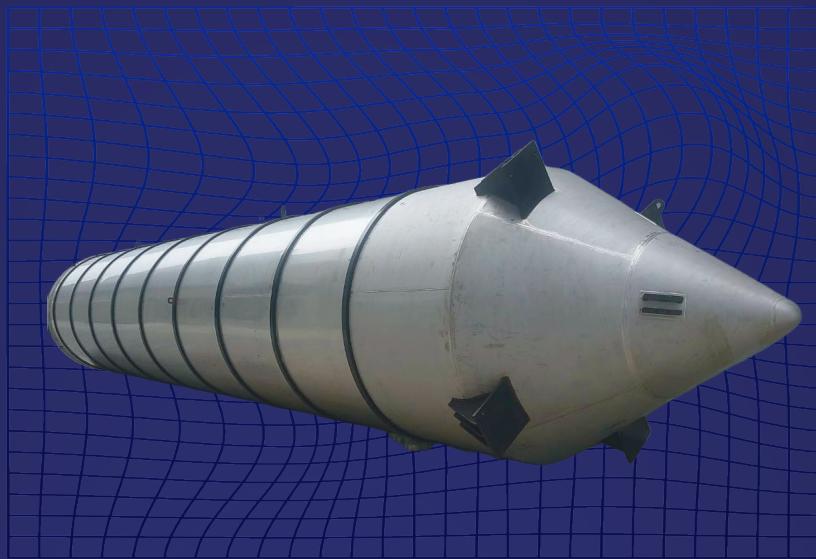
Their key applications are ubiquitous across sectors such as the petroleum industry for crude oil and refined fuels storage, the chemical sector for raw material and finished product inventory, municipal water systems for holding potable water reserves and wastewater, the agricultural industry for storing fertilizers and animal feeds, and the food and beverage industry for bulk storage of ingredients like oils, syrups, and beverages.



POWDER TRANSFER SYSTEM

A Powder Transfer System is a contained apparatus, mechanical or pneumatic, designed to safely and hygienically move dry powders between locations. It ensures dust-free transfer with minimal loss and precise flow control. Key applications are essential in the pharmaceutical (active ingredients), food and beverage (flour, sugar), and chemical industries, where controlled, contamination-free handling of fine materials is mandatory.

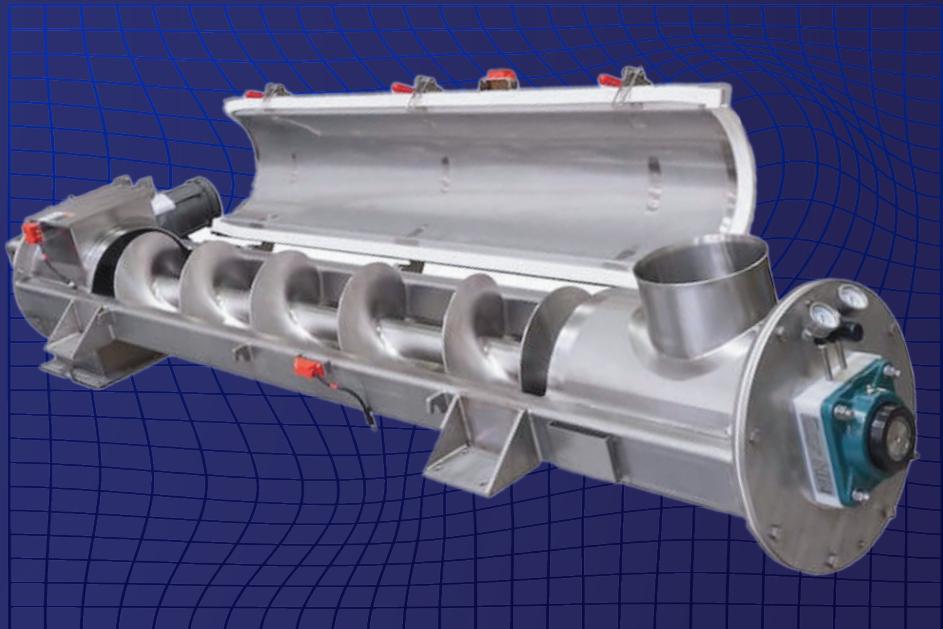




SILO

A Silo is a large, vertical, cylindrical structure primarily designed for the efficient, high-capacity, and long-term storage of dry bulk materials like powders, granules, and grains, offering excellent protection from pests, moisture, and environmental factors while maximizing storage volume in a minimal footprint. Key applications are widespread in the agricultural sector for storing grains (wheat, corn) and animal feed (silage), the construction industry for holding raw materials such as cement, fly ash, and aggregates, and the food processing/manufacturing industries for bulk ingredients like flour, sugar, and plastic pellets.

SCREW CONVEYOR



A Screw Conveyor is a mechanical device that utilizes a rotating helical screw blade (the auger), typically enclosed within a trough or tube, to effectively transfer bulk materials—such as powders, granules, flakes, and semi-solids—horizontally, vertically, or on an incline, providing controlled, smooth, and consistent flow from one point to another. Its key applications are integral to industries like agriculture for moving grain and feed, food processing for transporting flour, sugar, and coffee beans, wastewater treatment for handling sludge and grit, chemical manufacturing for conveying dry ingredients and compounds, and the mining and construction sectors for moving cement, sand, and other raw materials.

OUR VALUABLE CLIENT

