

**RIECO INDUSTRIES LIMITED**

A wholly owned subsidiary of Sudarshan Chemicals Industries Ltd.



# POWTRAN<sup>®</sup>

## POWDER LOADING SYSTEM

Transfer Powder  
and Bulk Solids  
with Ease!



Manufacturing of food, pharmaceuticals, fertilisers, or chemical products must adhere to the highest standards of hygiene and operational safety.

## RIECO's powder loading system with the POWTRAN series loader is the answer.

RIECO's powder loading system is a phenomenally effective and reliable practice for transferring dry as well as wet powders and granules. The high-quality filter concept allows efficient, trouble-free material filtration at lower pressure drops. Due to the unique filter and high vacuum blowers the system allows dense phase material transfer based on applications.

The compact unit allows material pickup from FIBC station, small bag unloading station, and even from open containers using flexible hose and manual pickup lance or by solid steel pipes, which makes multi floor process a requirement of past. **At the heart of our expertise, powder loading system with POWTRAN series loaders incorporates proven concepts with cutting-edge technologies bringing new perspectives to your powder transfer processes.**



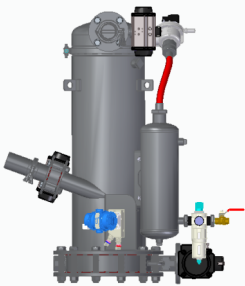
## POWTRAN VACUUM LOADER

The **POWTRAN** provides a larger loader body, filter and vacuum motor for higher-volume conveying, **up to 4TPH**

- ✓ The POWTRAN series uses high capacity, pleated filters coupled with a compressed air accumulated blowback system, for long, maintenance-free operation and is available in a range of sizes to meet client's needs.
- ✓ Tool-less dismantles, plug in connections & drop-in filter makes the POWTRAN series loaders user friendly. A strong, long-life, stand-alone vacuum blower provides the vacuum conveying power for smooth powder transfer over moderate distances.
- ✓ The POWTRAN series loader can provide a very high filter area but compact for installations in low head room areas.
- ✓ The fine fibre technology ensures longer filter life at a significantly lower pressure drop. Moreover, substrate media features increased rigidity, higher durability, and superior cleanability. MERV 15 filtration efficiency rating per ASHRAE 52.2-2007.
- ✓ Due to its compact design and the standardized connections, the Powtran loaders can be easily integrated into your existing system

POWTRAN

Model Standard Specifications



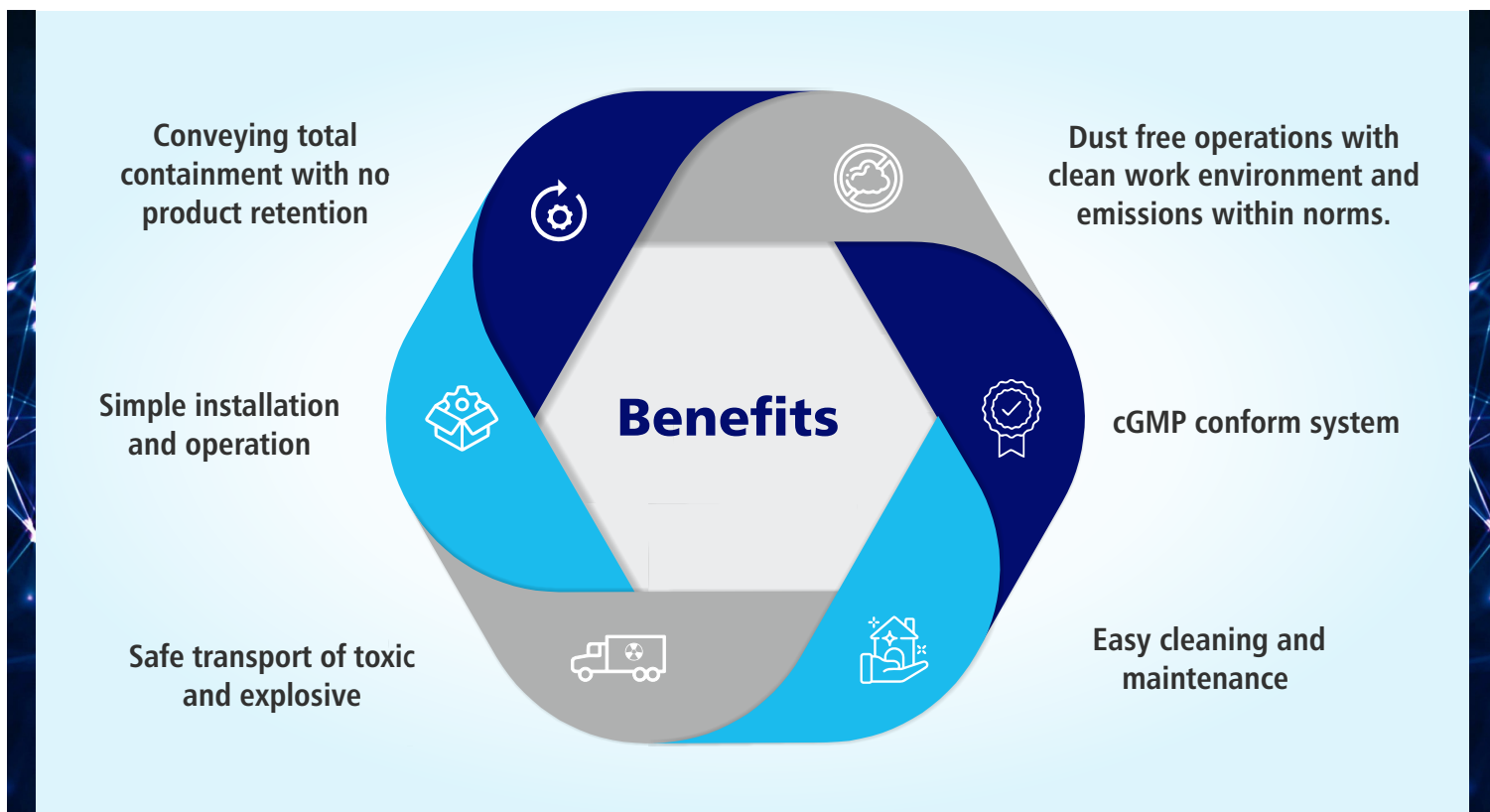
| POWTRAN Models                                                  | PowTran T-200 | PowTran T-250 | PowTran U-250 | PowTran T-300 | PowTran U-300 | PowTran T-350 | PowTran U-350 |
|-----------------------------------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| *Conveying Capacity (litres/hr)                                 | 140-600       | 300-1250      | 650-2500      | 420-2000      | 700-4500      | 760-4000      | 1100-7000     |
| *Air consumption for filter cleaning (Nm3/hr.) at 5-6 Kg/cm2(g) | 4-8           | 2.5-10        | 2.5-11        | 4-13          | 4-13          | 4-13          | 4-13          |
| Loader overall height (mm)                                      | ~800          | ~850          | ~850          | ~1100         | ~1100         | ~1250         | ~1250         |
| Conveying Pipe size (NB)                                        | 40NB          | 50NB          | 50NB          | 65NB          | 65NB          | 80NB          | 80NB          |
| Discharge size (NB)                                             | 200           | 250           | 250           | 300           | 300           | 350           | 350           |
| Bare Weight (kg)                                                | ~40           | ~55           | ~55           | ~70           | ~70           | ~85           | ~85           |

\*Actual values may vary based on application requirement. Conveying length is limited upto 30 meters. The lower sized loaders are preferably for short distances of 10- 15 meters. Contact us for the optimum solution for your material handling requirements.

Features



- Quick removable clamps for hoses & easy dismantling of components.
- Pick-up lance with flexible and transparent hoses of PVC/ PU material for visibility and conveying of material.
- ATM valve helps in avoiding frequent on/off of vacuum pumps, between the batch.
- Adjustable air amplifier allows fine-tuning of material flow rate.
- Loading or Unloading from all process equipment (including reactors, dryers, and centrifuges)



**RIECO Industries Ltd**, a wholly owned subsidiary of Sudarshan Chemical Industries, builds solutions for a cleaner, better, and safer world. Since 1975, RIECO has been a leading project engineering and manufacturing company in India. Over the last 4 decades, RIECO has grown into an internationally well-known project engineering and manufacturing company recognized for its reliability, flexibility, and impeccable innovation in over 40 countries. RIECO services are designed to meet the clients and are customized to take their business model as well as budget into account.

RIECO incorporates several leading standards of design and manufacturing practices into its products and solutions. They include ISO standards for welding, safety, and hygiene as well as compliance with GMP standards, ATEX, CE certifications, and others. RIECO has proven its expertise in handling challenging and varied applications with over 5,000 successful installations in India and abroad.



## Industries

The system finds applications in below sectors



**Food**



**Pet Feed**



**Speciality Chemicals**



**Chemical**



**Pharmaceutical**



**Nutraceutical**



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