

# Railcar Unloading Systems & Storage Silos

RCU Series: 15-75 Hp (11-56 kW) Silos: 1,600-15000 ft<sup>3</sup> (45,000-424,700 liters)

## Railcar unloading systems and storage silos are an integral part of any large materials conveying system.

The economies associated with buying resin in bulk are well documented and should be considered as a part of any high volume resin processing operation. Efficient movement of those bulk materials starts with a properly configured rail car unloading system.

### Powerful Push-Pull Systems

Typically located outside, common configurations provide powerful suction to pull the material, typically from a railcar, towards a centrally located transitional cyclone, and then push the material into a silo.

### Continuous Automatic Operation

Make the connection between the railcar and the destination vessel and the system operates continuously, in response to level sensors in the silo.

### Custom Design

Each system is custom designed to meet the needs of the application to provide adequate suction and pressure accomplish the unloading process in the time desired.

### Plus:

- 2.5" through 4.0" (65-100mm) schedule 10 line size
- Skid mounted pump(s), cyclone with rotary airlock and controls
- NEMA 12 controls with disconnect
- 2-Year warranty

### Common Considerations

Integration with railcar unloading headers, determining a centralized location for the pump/control module between the railcar siding and the silos and switching between multiple silos are common considerations for each railcar unloading system.

### Protective Enclosures

Frequently, an enclosure is added to protect the skidded pump, cyclone and controls of the system from harsh weather and/or tampering by unauthorized personnel.

Note: Transfer of materials from bulk delivery trucks to silos is typically accommodated by a blower system provided on the bulk truck itself. For this application, "truck fill" lines, from the top of the silo down to ground level are provided on each silo for connection to the truck's unloading system.



Railcar unloading system

 **DRI-AIR<sup>®</sup>**  
Industries, Inc.



PROUDLY MADE IN THE USA

# Material Storage Silos

Silos may be constructed as single-piece welded steel fabrications or they may be built on-site with bolt-together steel or aluminum circular sections. The cone angle is designed for the material being stored and multiple options are available to minimize maintenance and make the silo accessible to authorized personnel. Various styles of level sensors are available and material levels can be automatically monitored to trigger re-ordering of material.

Contact a NOVATEC systems specialist...to discuss your specific needs for a bulk unloading and storage system. Each system is custom designed to ensure that pumps, line sizes and options accomplish the unloading process in a timely manner meeting your requirements.



Secure access



Caged ladders, railings and catwalks



Monitor level sensor



Numbered loading connections



Vacuum take-off box