

# Intelligent Bulk Material Supply Systems



Soft Side Container Handling System

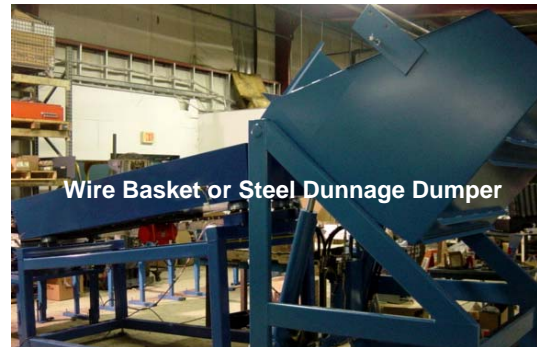
Container Dump System is designed to accommodate your container. System is fully integrated to any style of part feeder.



Corrugated Box Dump System



Multiple Products-Automated Dunnage Dumper  
Supplying parts to intermediate pan w/ flow gates.  
Parts supplied to Robotic Assembly Cell on demand



Wire Basket or Steel Dunnage Dumper

4,000 lbs Metal Castings in  
Steel Dunnage Smart-Dumper  
Loading Inspection Pan Feeder



Programmable  
High Level Tote Dump



Drop Bottom Stand & Pan Feeder

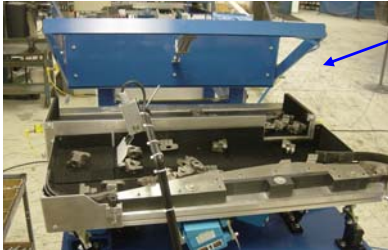
**Dyna-Slide®**

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# Intelligent Bulk Material Supply Systems

**Automated Product Flow Gate**



**Intermediate Pan**

## INTELLIGENT BULK SUPPLY SYSTEM'S FEATURE :

- Smart Dumper consists of container dump system integrated w/ part flow control device such as a flow control gate or an intermediate pan feeders to create "on demand" part flow to upstream automation.
- Programmable infeed and dump operations
- Provides a buffer for parts to feeder from bulk container
- Automatically transfers parts from container to part feed system
- Dump cycle can include jogging dumper to ensure complete unload
- Operator signal devices can be provided to ensure part supply

## BENEFITS:

- Automate Bulk Material Infeed Process Less Operator Intervention
- Reduce handling steps, use bulk container as bulk supply hopper, reduce part damage
- Any type of container can be fully integrated to any style of part feeder
- Maximize feed system efficiency, prevent under populated or overpopulated tooling.
- Reduce operating costs with single material handler providing parts to multiple cells

## CONTAINERS HANDLED:

- |                      |                        |            |
|----------------------|------------------------|------------|
| • Soft Sided-Dunnage | Corrugated Boxes       | Steel Bins |
| •Wire Baskets        | Drop Bottom Containers | Pallets    |
| •Totes               | Front Unload Totes     | Trays      |

## SPECIFICATIONS:

Power Requirement: Subject to style dumper selected generally 460/3/60, 10 cfm @ 80 psi  
 Control: Basic controls or PLC for "Smart Dumper" Systems  
 Weight Capacity: 250 lbs to 12,000 lbs systems  
 Dump Height: Subject to style dumper selected.  
 Overall Dimensions: Subject to style dumper selected.

**Note:** In many cases existing dumpers can be automated by integrating intermediate pan or flow control device to existing manual dump system and low level elevator feeders can also be used to meter parts.

