

## Loading Spout

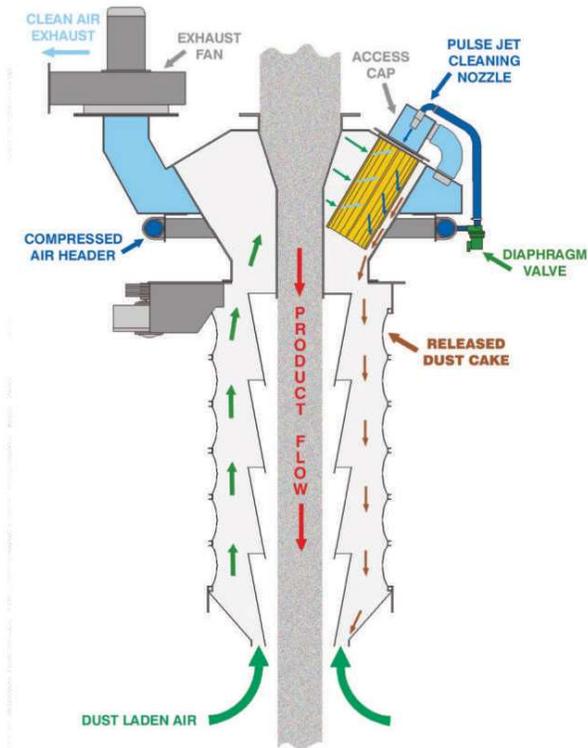
### LOADING SPOUT

EV enclosed vehicle or OV open vehicle spouts provide excellent dust free loading performance for trucks and railcars. DCL has incorporated 20 years of experience in bulk loading of dry materials into this new service friendly retractable spout design. The low profile feature makes this spout the best choice when faced with limited space conditions.



EV LOADING SPOUT

- Easy access to drive components.
- Three cable hoist system proving maximum spout stability.
- Shipped completely assembled and tested.
- Slack cable and drive limits factory set.
- Internal stacking product flow control cones are constructed from urethane, AR steel or optional stainless steel.
- Wide selection of flexible outer spout sleeve materials for high and low temperature applications provided with heavy duty aluminum stacking type support rings.
- EV enclosed vehicle or OV open vehicle discharge configuration.
- Vertical travels up to 18 feet.
- Loading capacities of up to 450 cu ft/min of fine aerated materials.
- Collar style dust outlet for connection to a free standing dust collector or vent through frame configuration for connection to an inline filter module.



The CFM filter module adds 30" to the retracted spout height.

### SPOUT / CFM COMBINATION

DCL's new Compact Filter Module provides the industries lowest profile filter/loading spout combination. The CFM filter module is used inline with the UN800 Loading Spout for dust control during the loading of dry, dusty materials into open or enclosed vehicles. The dust collected is re-entrained with the material being loaded which makes the CFM Filter Module an ideal and cost effective package. When comparing the new design of the CFM filter module to free standing units, the savings in space and money become apparent with the elimination of expensive duct work, discharge air locks and hopper discharge systems. For detailed CFM specifications see flier PUBc-0499-DCFM.

#### DCL BULK TECHNOLOGIES PVT. LTD.

(A 100% Indian Subsidiary of DCL Inc., U.S.A)

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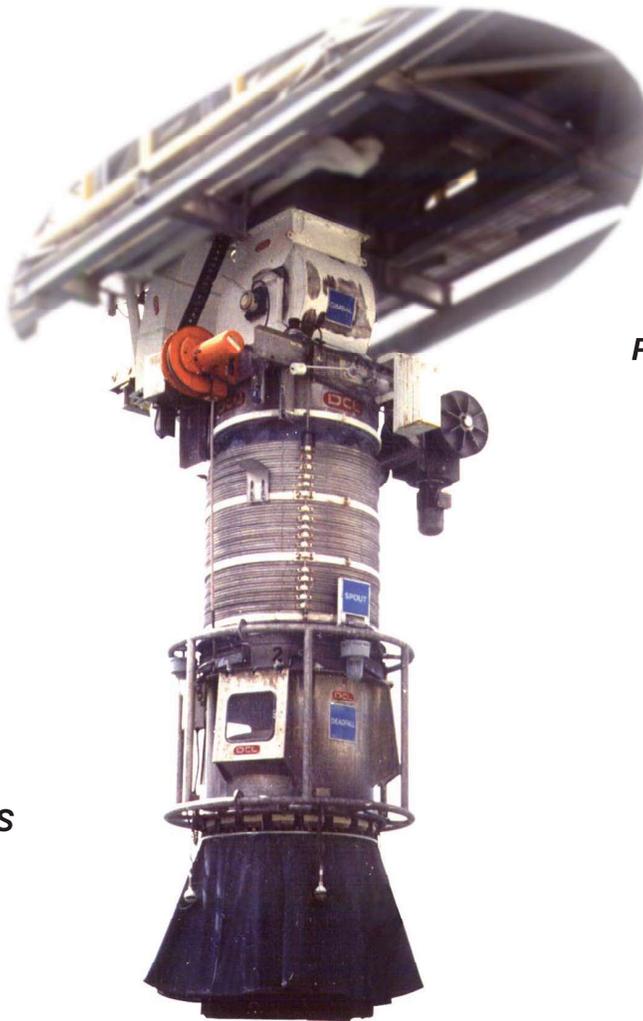
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**Heavy Duty Loading Spouts**

**BARGE LOADING • SHIP LOADING  
STOCKPILING • HIGH CAPACITY OPEN LOADING**



**ALUMINA  
BENTONITE CLAY  
CALCINED COKE  
CLINKER  
COAL  
CORN PRODUCTS  
FERROUS OXIDE  
FERTILIZER PRODUCTS  
GRAIN PRODUCTS  
GYPSUM  
KAOLIN CLAY  
LIGNITE**

**LIMESTONE  
MAGNESIUM OXIDE  
PHOSPHATE PRODUCTS  
PENCIL PITCH  
PORTLAND CEMENT  
POTASH  
SALT  
SLAG  
SODA ASH  
SODIUM SULFATE  
UREA  
WOOD CHIPS  
ZINC OXIDE**

**OV38HD  
600CFM  
(1019 M<sup>3</sup>/HR)**

**OV44HD  
760CFM  
(1291 M<sup>3</sup>/HR)**

**OV58HD  
1300CFM  
(2208 M<sup>3</sup>/HR)**

**OV66HD  
1800CFM  
(3058 M<sup>3</sup>/HR)**

**OV88HD  
2700CFM  
(4587 M<sup>3</sup>/HR)**

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Heavy duty flex style spouts use inner cones to contain product flow enclosed by an outer sleeve for dust withdrawal. Inner cones are available in durable, lightweight urethane, carbon steel in hardnesses to 700 BHN, or in stainless steel.



Dust free coal stockpiling.



Pivoting gimbal allows different loading angles.



## HEAVY DUTY LOADING SPOUTS

DCL Heavy Duty Loading Spouts utilize the latest technological advancements in the industry, providing dust free loading of a wide range of dry dusty materials at loading rates up to 6,000 STPH.

Heavy duty flexible style loading spouts are used for loading; ships, barges, and stockpiling. All HD models include an outer flexible sleeve and rubber skirt that contains the dust emissions produced during loading. Also included is a rugged drive train and unique three cable lifting system for maximum stability. The inner cones contain the product flow are offered in a variety of materials to suit each application.

A wide variety of accessories are offered to fit the automation needs of the user, such as; auto raise tilt probes, slack cable and full up limit switches, the "Deadfall", cord reels, brake motors, and remote control just to name a few. DCL will meet or exceed your bulk loading needs.

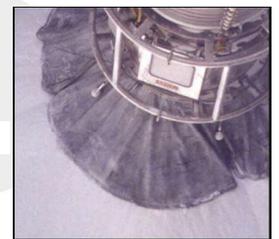
Here is a small list of some of the loadout facilities that are using DCL Heavy Duty Loading Spouts.

<i>Holnam</i>	<i>ACC - Damodar</i>	<i>Alcoa Aluminum</i>	<i>Allis Minerals</i>	<i>Alpart</i>
<i>Holcim Bangladesh</i>	<i>FLSMIDTH</i>	<i>Colonel Terminals</i>	<i>CSX</i>	<i>Great Lakes Carbon</i>
<i>UltraTech - Rajula</i>	<i>Penna cement</i>	<i>IC Rail Marine Terminal</i>	<i>Koch Industries</i>	<i>Lafarge Alpena Port</i>
<i>UltraTech - jafraabad</i>	<i>Cormanadal Fertilizer</i>	<i>Penoles</i>	<i>Port of Longview</i>	<i>Port of Tianjin</i>



Model OV58 shown w/unique DCL dust collector integral w/ belt conveyor headchute.

The spout discharge is fitted with level sensing probes that measure the product pile and automatically raise the spout as the pile height increases. The spout can be connected to a dust collector for purposes of evacuating the dust created while loading. Most lumpy products can be successfully loaded with the standard rubber skirted discharge. Products that are considered extremely dusty can be successfully loaded with use of the "Deadfall" discharge accessory.



Integral heavy duty spout drive assembly.



Model OV58 with combination boom and telescopic airslide for alumina loading.



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Dust free grain loading into barges.



Multiple spout loading system for loadout of calcined coke.

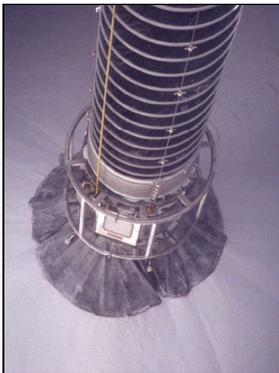


Dust free dry phosphate loading into ships.

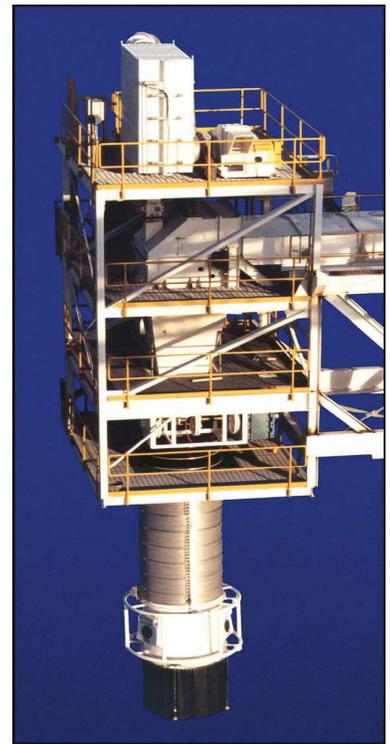
## THE DCL "DEADFALL"



Until the advent of the DCL "DeadFall" dust suppressor, the choice for dust suppression when loading extremely dusty materials was limited to mechanized choke type devices. The DCL "DeadFall" mounts to the bottom of a standard loading spout and is contained within a housing incorporating counterweighted bleed air dampers and product plug relief doors. The unique features of this device are that it has no moving parts, requires virtually no maintenance, and is impervious to wear.



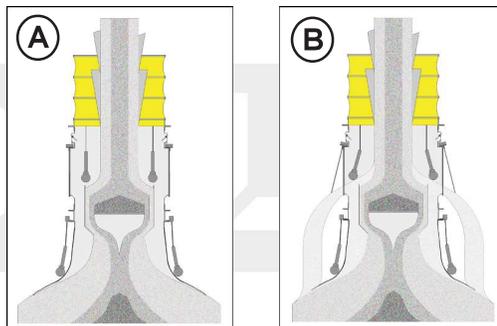
Our field proven design has outperformed the best that the industry has had to offer. Products such as alumina, bentonite, calcined coke, phosphate rock, sodium sulfite, soda ash, potash, and magnesium oxide are now loading into ships at high rates, virtually dust free, and have far exceeded our customers expectations. Installation costs have shown to be recouped within a year of operation in product recovery as well as in reduced maintenance and service costs.



Unique OV66HD with 100 feet of travel loading extremely dusty kaolin clay.

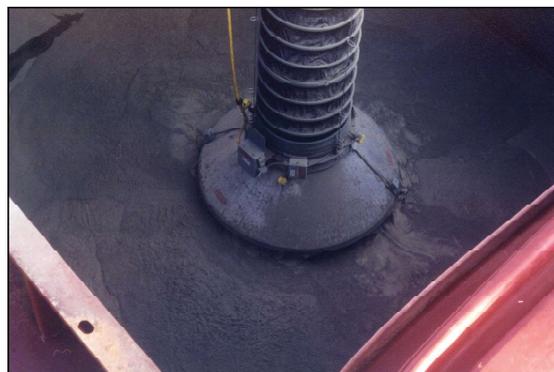
A. Normal Loading

B. Plug Relief Doors in Action



Loading aerated cement into barges dust free.

Stockpiling of coal with use of a tripper conveyor.



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**REFERENCES - INDIA**

**HEAVY DUTY LOADING SPOUTS - SHIP LOADING**



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