



Dust Control and Loading Systems Inc

Leaders in Innovative Bulk Loading Systems Design

Loading Spouts

LOADING SPOUTS

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.

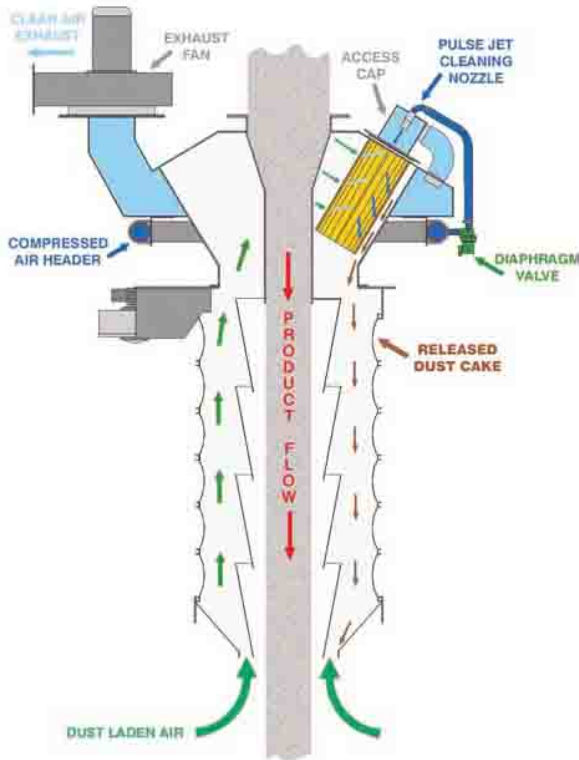


Model EV24 loading spout shown in retracted position.

- Easy access to drive components.
- Three cable hoist system providing 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. UN800 spout shown.



SPOUT / CFM COMBINATION

DCL's new Compact Filter Module provides the industries lowest profile filter/loading spout combination. The CFM filter module can be used inline with loading spouts 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-0609-DCFM.

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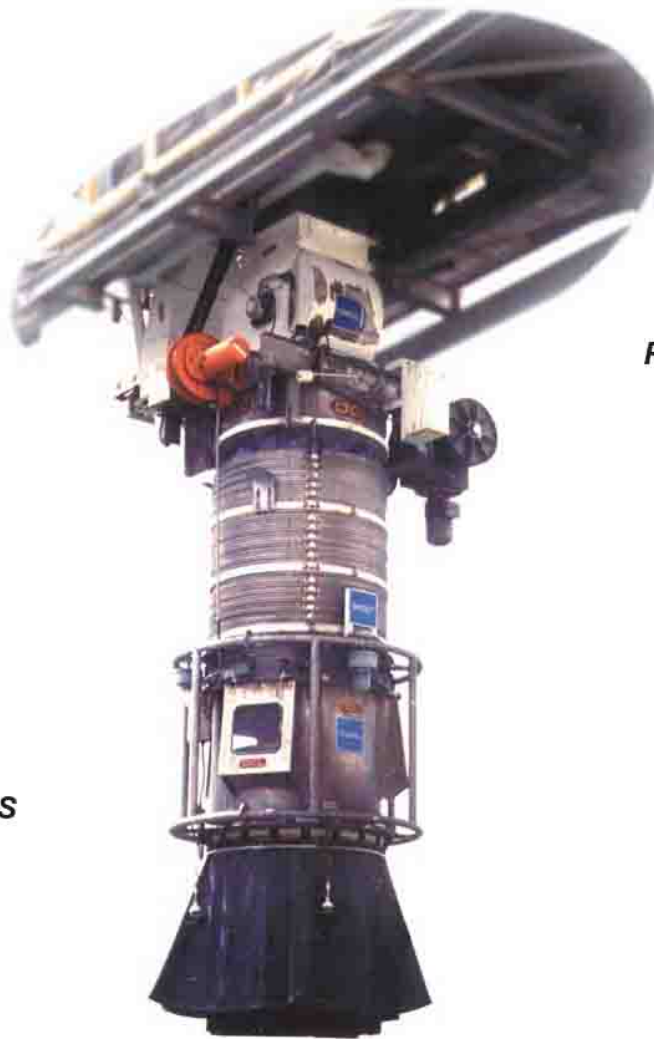


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Heavy Duty Loading Spouts

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



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

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

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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, 500 BHN carbon steel, or in stainless steel.



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



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 and are offered in a variety of materials to suit each application.

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.



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



THE DCL "H STYLE DEADFALL" DISCHARGE

The H-Style Deadfall was designed to allow open vehicle loading of extremely dusty materials. Aerated cement is a perfect example of a material that is typically too dusty to load into any type of open vehicle. The H-Style Deadfall is designed with inner slitted rubber skirt and an outer weighted barrier skirt fixed to a hood. The hood size is dependent on the loading spout size. With this discharge design the dusty material is allowed to expand and decrease velocity within the hood allowing for the dust collection fan to remove any dust that has not settled onto the material pile.

Loading aerated cement into barges dust free using "H-Style Deadfall".



Ship loading spouts utilizing compact filter modules



Model OV44 loading spout with model CFM470 loading kaolin clay.





Dust free grain loading into barges.



Dust free coal stockpiling.



Dust free dry phosphate loading into ships.

THE DCL "DEADFALL" DISCHARGE



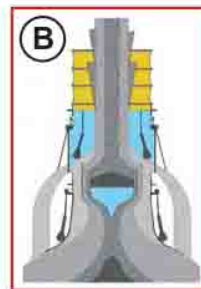
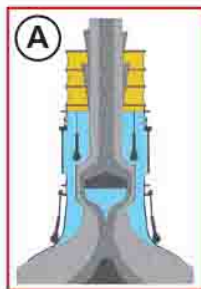
Until the advent of the DCL "DeadFall" dust suppressor, the choice for dust suppression when loading extremely dusty materials was limited to mechanized choke type devices. The DCL "DeadFall" mounts to the bottom of a standard loading spout and is contained within a housing incorporating counterweighted 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 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.

A. Normal Loading

B. Plug Relief Doors in Action



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

TS style spout stacking coal.



OV style heavy duty loading spouts with compact filter modules on swinging boom.



Stockpiling of coal with use of a tripper conveyor.





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Loading Spout Positioners

LOADING SPOUT POSITIONERS

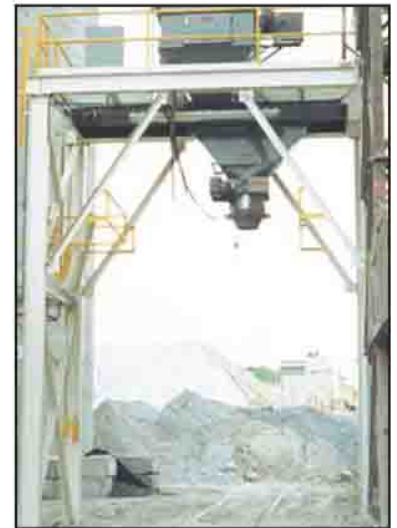
Loading spout positioners increase speed and efficiency in any loading operation. Positioners are used in conjunction with standard duty loading spouts at truck and railcar loadout facilities. Model HP positioners virtually eliminates vehicle re-spotting once in the loading station.

All HP models are available in vent-thru and non vent-thru styles. The vent-thru style eliminates the need of venting the spout below with cumbersome duct work. The dust is drawn through the spout and positioner and can be vented with typical duct work to a central dust collector or DCL model CFM compact filter module can also be mounted directly about the spout positioner to eliminate dust work completely. A choice of construction materials allow handling of all types of products; fine, granular, lumpy, abrasive, corrosive, and sanitary applications.

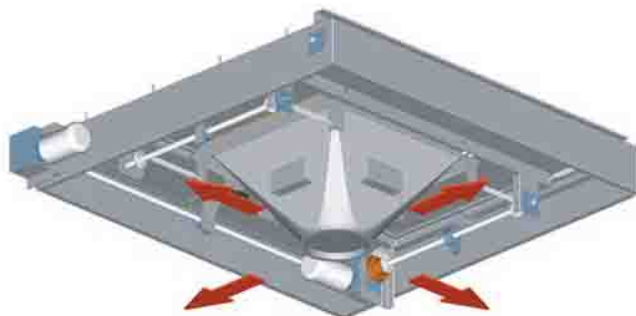
HPS SINGLE DIRECTION POSITIONER



Single direction positioners are used to move standard duty loading spouts horizontally in the X axis when loading trucks or railcars. Single direction positioners allow the driver to stop the vehicle in the designated loading area without having to worry about being in the center of the loading station. The loading spout can then be positioned directly above the vehicle hatch by moving it left or right. DCL offers a selection of single direction positioners that provide horizontal travels from 2 feet [610 mm] up to 6 feet [1.8 m].



HPD DUAL DIRECTION POSITIONER



Dual direction positioners are used to move standard duty loading spouts horizontally in the X and Y axis when loading trucks or railcars. Dual direction positioners allow the driver to stop the vehicle in the designated loading area without having to be precise. The loading spout can then be positioned directly above

the vehicle hatch. DCL offers a large selection of dual direction positioners that provide horizontal travels up to 6 feet [1.8 m] by 2 feet [610 mm].



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