

### **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

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

**ALUMINA** 

OV38HD 600CFM (1019 M³/HR) OV44HD 760CFM (1291 M³/HR) OV58HD 1300CFM (2208 M³/HR) OV66HD 1800CFM (3058 M³/HR)

OV88HD 2700CFM (4587 M³/HR)

Tele: 800-748-0563

Fax: 231-547-3343



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.



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

## www.dclinc.com 231-547-5600

To learn more about DCL's other product lines, please visit our website or give us a call.

800-748-0563 sales@dclinc.com



Dust free coal stockpilling.



Pivoting gimbal allows different loading angles.

### DCL

#### **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.

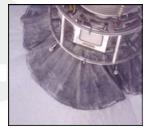
Here is a small list of some of the loadout facilities that are using DCL Heavy Duty Loading Spouts.

Alabama State Docks
Calciner Industries
Holnam
LAXT

Alcoa Aluminum Colonel Terminals IC Rail Marine Terminal Penoles Allis Minerals CSX Koch Industries Port of Longview

Alpart Great Lakes Carbon Lafarge Alpena Port Port of Tianjin

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.





**Dust free grain loading** into barges.



Multiple spout loading system for loadout of calcined coke.

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

#### THE DCL "DEADFALL"

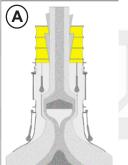
Until the advent of the DCL "DeadFall" dust suppressor, the choice for dust suppression when loading extremely dusty materials was limited to mechanized choke type devices. The DCL "DeadFall" mounts to the bottom of a standard loading spout and is contained within a housing incorporating counterweighted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





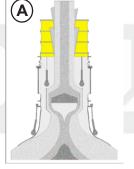
A. Normal Loading

B. Plug Relief Doors in Action

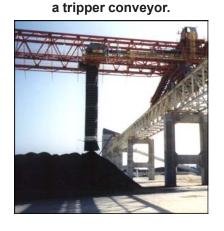


reduced maintenance and service costs.

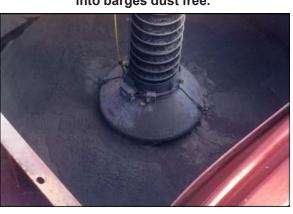
Loading aerated cement



into barges dust free.



Stockpiling of coal with use of





**Dust free dry phosphate** loading into ships.



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



Model OV38HD **Loading Capacity** 

600 CFM

|  |               | CFM       | CFM x 1.699 = M <sup>3</sup> |  |  |  |
|--|---------------|-----------|------------------------------|--|--|--|
| <u>Model</u>   | <u>Travel</u> | Retracted | Extended                     |  |  |  |
| OV38HD   | 10'-0"        | 11'-3"    | 21'-3"                       |  |  |  |
| If no DeadFall<br>subtract 4'-0"   | 15'-0"        | 12'-0"    | 27'-0"<br>32'-9"             |  |  |  |
| from<br>Retracted and<br>Extended.   | 20'-0"        | 12'-9"    |                              |  |  |  |
|  | 25'-0"        | 13'-6"    | 38'-6"                       |  |  |  |
|  | 30'-0"        | 14'-2"    | 44'-2"                       |  |  |  |
| <u>Model</u>   | <u>Travel</u> | Retracted | Extended                     |  |  |  |
| OV44HD<br>If no DeadFall<br>subtract 4'-6"<br>from<br>Retracted and<br>Extended. | 10'-0"        | 12'-11"   | 22'-11"                      |  |  |  |
|  | 15'-0"        | 13'-5"    | 28'-5"<br>34'-2"             |  |  |  |
|  | 20'-0"        | 14'-2"    |                              |  |  |  |
|  | 25'-0"        | 14'-8"    | 39'-8"                       |  |  |  |
|  | 30'-0"        | 15'-2"    | 45'-2"                       |  |  |  |
|  | 35'-0"        | 15'-8"    | 50'-8"                       |  |  |  |
|  | 40'-0"        | 16'-2"    | 56'-2"                       |  |  |  |
|  | 45'-0"        | 16'-8"    | 61'-8"                       |  |  |  |
|  | 50'-0"        | 17'-2"    | 67'-2"                       |  |  |  |
|  | 55'-0"        | 17'-10"   | 72'-10"                      |  |  |  |
|  | 60'-0"        | 18'-6"    | 78'-6"                       |  |  |  |
| <u>Model</u>   | <u>Travel</u> | Retracted | <b>Extended</b>              |  |  |  |
| OV58HD<br>If no DeadFall<br>subtract 5'-0"<br>from<br>Retracted and<br>Extended. | 10'-0"        | 13'-9"    | 23'-9"                       |  |  |  |
|  | 15'-0"        | 14'-3"    | 29'-3"                       |  |  |  |
|  | 20'-0"        | 14'-9"    | 34'-9"                       |  |  |  |
|  | 25'-0"        | 15'-3"    | 40'-3"                       |  |  |  |
|  | 30'-0"        | 16'-0"    | 46'-0"                       |  |  |  |
|  | 35'-0"        | 16'-6"    | 51'-6"                       |  |  |  |
|  | 40'-0"        | 17'-0"    | 57'-0"                       |  |  |  |
|  | 45'-0"        | 17'-6"    | 62'-6"                       |  |  |  |
|  | 50'-0"        | 18'-3"    | 68'-3"                       |  |  |  |
|  | 55'-0"        | 18'-9"    | 73'-9"                       |  |  |  |
|  | 60'-0"        | 19'-3"    | 79'-3"                       |  |  |  |
| <u>Model</u>   | <u>Travel</u> | Retracted | Extended                     |  |  |  |
| OV66HD  If no DeadFall   | 10'-0"        | 15'-2"    | 25'-2"                       |  |  |  |
| subtract 5'-0"   | 20'-0"        | 16'-2"    | 36'-2"                       |  |  |  |
| from<br>Retracted and<br>Extended.   | 30'-0"        | 16'-11"   | 46'-11"                      |  |  |  |
|  | 40'-0"        | 17'-8"    | 57'-8"                       |  |  |  |
|  | 50'-0"        | 18'-7"    | 68'-7"<br>74'-4"<br>80'-0"   |  |  |  |
|  | 55'-0"        | 19'-4"    |                              |  |  |  |
|  | 60'-0"        | 20'-0"    |                              |  |  |  |
|  | 65'-0"        | 20'-8"    | 85'-8"                       |  |  |  |
|  | 70'-0"        | 21'-3"    | 91'-3"                       |  |  |  |
|  | 75'-0"        | 22'-1"    | 97'-1"                       |  |  |  |
|  | 80'-0"        | 22'-9"    | 100'-9"                      |  |  |  |
| <u>Model</u>   | <u>Travel</u> | Retracted | Extended                     |  |  |  |
| OV88HD   | 10'-0"        | 16'-0"    | 26'-0"<br>37'-0"             |  |  |  |
| If no DeadFall<br>subtract 5'-6"   | 20'-0"        | 17'-0"    |                              |  |  |  |
| from   | 30'-0"        | 17'-9"    | 47'-9"                       |  |  |  |
| Retracted and  |               |           |                              |  |  |  |

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|--|--|-----------|----------|----------|-------------------|------------|----------|----------|-------------------|----------|--------------|--|
| OV44HI   | )  | 760       | CFM      |          | 6,0               | 000 CF     | M        | 6 F      | PM thru 3         | 86 FPM   | 1            |  |
| OV58HI   | )  | 1,300 CFM |          |          | 8,0               | 8,000 CFM  |          |          | 6 FPM thru 36 FPM |          |              |  |
| OV66HI   | )  | 1,800 CFM |          |          |                   | 10,000 CFM |          |          | 6 FPM thru 36 FPM |          |              |  |
| OV88HI   | )  | 2,700     | CFM      |          | 10,               | 000 CF     | M        | 6 F      | PM thru 3         | 6 FPM    | 1            |  |
| CONSULT FACTORY  3 TYP CONSULT FACTORY  CONSULT FACTORY FOR SIZE | - CONSULTATION OF PACTO ONLY   | Kr        |          |          | CORD ATTEMPT TRAM | REEL REO'C | SALT     |          | PM thru 3         | 36 FPN   | )<br>Битрюер |  |
| DOI PU   | PROTECTION LT PROBES (L) TYP  DEADFALL  DEADFALL  DEADFALL  DEER SWITT  PRASE TILT  ES (K) TYP |           |          |          |                   | RETRACTES  | · .      |          |                   |          |              |  |
|  |  |           |          |          |                   |            |          |          |                   |          |              |  |
| <u>Model</u>   | <u>A</u>   | <u>B</u>  | <u>C</u> | <u>D</u> | <u>E</u>          | <u>F</u>   | <u>G</u> | <u>H</u> | <u>J</u>          | <u>K</u> | <u>L</u>     |  |
| OV38HD   | 38"  | 48"       | 24"      | 45"      | 19.5"             | 18"        | 38.5"    | 24"      | 14.5"             | 3        | 1            |  |
| OV44HD   | 44"  | 48"       | 29"      | 50"      | 21.5"             | 20.5"      | 43.75"   | 26"      | 19.75"            | 3        | 1            |  |
| OV58HD   | 58"  | 48"       | 36"      | 57"      | 28.5"             | 27"        | 56.75"   | 33"      | 33.75"            | 4        | 2            |  |
| OV66HD   | 66"  | 60"       | 40"      | 60"      | 31.5"             | 30"        | 62.75"   | 36"      | 38.75"            | 4        | 2            |  |
| OV88HD   | 88"  | 60"       | 52"      | 80"      | 40.5"             | 40"        | 83"      | 45"      | 59"               | 4        | 2            |  |
| 2 4 001 1D   | 50   | 50        | <u>پ</u> | 50       | 10.0              |            | 55       | .0       | 00                | •        | -            |  |

**Avg Air Withdrawal** 

4,000 CFM

**Lifting Speed** 

6 FPM thru 36 FPM

#### **General Notes:**

All industrial voltages are available for electrical components.

Pre-wiring of electrical components to a pan mounted junction box is optional.

Electrical enclosures are NEMA 4 standard. NEMA 4X, 7, and 9 enclosures are optional.

Collapsible fabric sleeve is 40oz hypalon/nylon with extruded aluminum support channels.

Metal surfaces are etched, primed, and finished with industrial enamel.

Loading capacities listed are approximate and based on free flowing products. Consult DCL for actual requirements.

Air withdrawal requirements are approximate. Consult DCL for final recommendations.

Specifications and/or dimensional data subject to change. Consult DCL for certified drawings. Cone construction notes: Contained flow design standard with urethane cones. AR steel, 304 or 316 stainless steel optional. Other materials available to suit application.

Consult DCL for weights regarding all Heavy Duty Loading Spouts.

Po Box 125 08660 Ance Road

50'-0"

55'-0"

60'-0"

65'-0"

70'-0"

75'-0"

80'-0"

19'-3"

20'-3"

20'-0"

20'-9"

20'-9"

21'-3"

21'-6"

69'-3"

75'-3"

80'-0"

90'-9"

101'-6"

85'-9"

96'-3"

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