PRECISION PIPE HANDLING. WHATEVER THE CONDITIONS.

DECKHAND® Pipe Handling System

CRC-EVANS
DECKHAND® PIPE HANDLING SYSTEM

Engineered around optimal pipeline safety, the DECKHAND® Pipe Handling System by LaValley Industries allows precise pipe handling and placement without the need for a ground crew working in the vicinity of moving pipe. DECKHAND is designed to work safely in any weather, including snow and ice.

The DECKHAND system consists of a main operating head and a variety of grab arms. The main head mounts to any brand of excavator—the excavator’s auxiliary hydraulics then safely and efficiently power the DECKHAND system. The interchangeable grab arms are used to pick up pipe and securely lift, lower, rotate, and tilt it. Grab arms can grip securely from an off-center pipe position, allowing maximum control in areas with tight accessibility.

Achieve controlled, 360° precision pipe handling—whatever the conditions—with DECKHAND.
Easier and safer than ever before.

In the past, moving large amounts of pipe under tight time constraints meant personnel were required to quickly load and line up pipe, putting them in harm’s way. DECKHAND removes the ground crew from pipe transport, making pipe handling easier and safer than ever before.

- Operator controls easily incorporated into excavator cab
- Easily adaptable to various-sized excavators
- Grab arm pipe protection pads designed for long wear and simple replacement
- Load holding valves on all functions keep load secure even if a hydraulic hose fails
- Load sensors provide clear information on grip status as pipe is moved
- In-cab display panel allows operator to monitor and adjust all functions, pressures, and volumes
- Tilt and shift functions allow pipe to be handled in multiple working angles

Whether you’re stringing, stockpiling, welding, loading, or staging, DECKHAND has you covered with today’s safest, most effective pipe handling system.
Strong, safe, and versatile, the **DECKHAND® Pipe Handling System** revolutionizes the way contractors handle pipe. Unmatched speed and precision outperforms all other pipe handling methods.

- Upper head mounts to any brand of excavator in 20- to 36-metric-ton range
- Grab arm function picks up pipe and holds it firmly to attachment
- Requires auxiliary hydraulic circuit on excavator or prime mover
- Tilts 0 to 19° along main beam
- Shifts pipe side to side up to 5.5”

**DECKHAND® Arm Options**

**Pipe Arm**
- Designed to handle 4” and 24” diameter pipe
- Handles pipe on and off trailers, rail cars, or pipe rack without disturbing adjacent pipe
- Fast and efficient at stringing pipe during pipeline construction
- Sensors allow operator to monitor arm grip status while moving pipe
- Load control valve system ensures pipe is never dropped
- Proximity sensors inform operator of correct positioning and clearance
- Pipe can be lifted from an off-center position

**Interchangeable Material Handling Arm**
- Uses interchangeable material handling tips designed for custom applications
- Allows fast, efficient material handling
- Arm tips can be equipped with wear pads to protect coated pipe from damage
- Sensors, load control valve system, and proximity sensors
- Material can be lifted from an off-center position

**Utility Arm**
- Handles 7” to 24” material diameter in all weather conditions
- Ideal for mainline welding, lowering in, and tie-ins during pipeline installation
- Load control valve system
- Material can be lifted from an off-center position
- Able to handle bent pipe, elbows, tees, and valves
- Pipe extraction

**Road Mat Arm**
- Quickly load, unload, and move road mats
- Interchangeable tines handle 3’, 4’, and 5’ mats
- Can handle mats up to 40’ long and 12” thick
- In-cab indicator guarantees that mat is securely gripped
- Mats can be dug out of mud with mat arm
- Positive grip allows dirt and debris to be shaken off mats
- Position mats with precision—no free swinging
- Blade option allows operator to scrape mud off mats
DECKHAND® S

Delivering unparalleled speed, precision, and performance, the DECKHAND® S Pipe Handling System is as safe as it is agile. Outperforms all existing pipe handling methods.

- Upper head mounts to any brand of excavator in 20-metric-ton class
- Grab arm function picks up pipe and holds it firmly to attachment
- Requires auxiliary hydraulic circuit on excavator or prime mover
- Tilts 0 to 24.5° along main beam
- Shifts pipe side to side up to 5.5°

DECKHAND® Arm Options

Pipe Arm
- Designed to handle 20” and 24” diameter pipe (pipe arm)/ 4” to 18” diameter pipe (interchangeable pipe arm)
- Handles pipe on and off trailers, rail cars, or pipe rack without disturbing adjacent pipe
- Fast and efficient at stringing pipe during pipeline construction
- Sensors allow operator to monitor arm grip status while moving pipe
- Load control valve system ensures pipe is never dropped
- Proximity sensors inform operator of correct positioning and clearance
- Pipe can be lifted from an off-center position

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- Able to handle bent pipe, elbows, tees, and valves
- Pipe extraction

Road Mat Arm
- Quickly load, unload, and move road mats
- Interchangeable tines handle 3’, 4’, and 5’ mats
- Can handle mats up to 40’ long and 12” thick
- In-cab indicator guarantees that mat is securely gripped
- Mats can be dug out of mud with mat arm
- Positive grip allows dirt and debris to be shaken off mats
- Position mats with precision—no free swinging
- Blade option allows operator to scrape mud off mats
DECKHAND® L

Extremely versatile, the DECKHAND® L Pipe Handling System outperforms all other pipe handling methods. Requires auxiliary one-way flow hydraulic circuit on excavator and dedicated case drain line.

• Patented pipe arm design ensures that adjacent pipes are not disturbed when picking up roped pipe from a pile or stack
• Upper head mounts to any brand of excavator in 40- to 49-metric-ton range
• Grab arm function picks up pipe and holds it firmly to attachment
• Tilts 0 to 15° along main beam
• Shifts pipe side to side up to 8.5”
• Proximity sensors inform operator of correct positioning and clearance
• Optional stick-mounted camera allows operator to see in even the most difficult spaces

DECKHAND® L Arm Options

Pipe Arm
• Designed to work with 20” to 56” diameter pipe
• Handles pipe on and off trailers, rail cars, or pipe rack without disturbing adjacent pipe
• Fast and efficient at stringing pipe during pipeline construction
• Jaws are lined to protect coated pipe from being damaged
• Load control valve system ensures pipe is never dropped
• Sensors allow operator to monitor clamp arm grip status while moving

Road Mat Arm
• Quickly load, unload, and move road mats
• Interchangeable tines handle 3’, 4’, and 5’ mats
• Can handle mats up to 40’ long and 12” thick
• In-cab indicator guarantees that mat is securely gripped
• Mats can be dug out of mud with mat arm
• Positive grip allows dirt and debris to be shaken off mats
• Position mats with precision—no free swinging
• Blade option allows operator to scrape mud off mats
The DECKHAND® XL Pipe Handling System handles the largest and heaviest pipe gently and safely while outperforming all existing pipe handling methods. Requires auxiliary one-way flow hydraulic circuit on excavator and dedicated case drain line. Extremely agile.

- Patented pipe arm design ensures that adjacent pipes are not disturbed when picking up roped pipe from a pile or stack
- Upper head mounts to any brand of excavator in 60- to 75-metric-ton range
- Grab arm function picks up pipe and holds it firmly to attachment
- Tilts 0 to 15° along main beam
- Shifts pipe side to side up to 8.5”
- Proximity sensors inform operator of correct positioning and clearance
- Optional stick-mounted camera allows operator to see in even the most difficult spaces

**DECKHAND® XL Arm Options**

**Pipe Arm**
- Designed to work with 30” to 56” diameter pipe
- Handles pipe on and off trailers, rail cars, or pipe rack without disturbing adjacent pipe
- Very fast and efficient for stringing pipe during pipeline construction
- Jaws are lined to protect coated pipe from being damaged
- Load control valve system ensures pipe is never dropped
- Sensors allow operator to monitor clamp arm grip status while moving

**CRC-Evans Weld Positioning Arm**
- Designed to work with 20” to 42” diameter pipe
- Wireless or wired remote pendant available
- Much safer than conventional methods
- Provides precision control while saving substantial time
- Able to move pipe as well as clamp it
- Mechanically secures pipe ends

**Tie-In Clamp System:**
The CRC-Evans Weld Positioning Arm creates a quick, accurate tie-in clamp system.
**DECKHAND® Competitive Advantages**

The DECKHAND Pipe Handling System by LaValley Industries offers a long list of advantages vs. traditional pipe handling methods in terms of safety, operational efficiency, and total project costs:

<table>
<thead>
<tr>
<th></th>
<th>STRAPS &amp; CHAINS</th>
<th>VACUUM LIFTS</th>
<th>DECKHAND®</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MANPOWER</strong></td>
<td>2-4 People</td>
<td>1-3 People</td>
<td>1 Person</td>
</tr>
<tr>
<td>Both straps/chains and vacuum lifts require extra manpower for positioning pipe and cleaning snow or ice from pipes.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>OVERALL SAFETY</strong></td>
<td>Poor</td>
<td>Fair</td>
<td>Excellent</td>
</tr>
<tr>
<td>DECKHAND eliminates workers in the vicinity of lifted pipe. No matter what the weather conditions, DECKHAND offers positive grip and total control of pipe, unlike vacuum lifts.</td>
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<tr>
<td><strong>LOAD HOLDING</strong></td>
<td>Positive</td>
<td>Can Drop Load</td>
<td>Positive</td>
</tr>
<tr>
<td>Load hold valves on DECKHAND arms ensure that pipe never drops, regardless of hydraulic pressure.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>LOAD CONTROL</strong></td>
<td>Poor</td>
<td>Poor</td>
<td>Excellent</td>
</tr>
<tr>
<td>DECKHAND offers control of pipe in all directions. Vacuum lifts are free-swinging in one direction and cannot tilt pipe.</td>
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</tr>
<tr>
<td><strong>LOAD PLACEMENT</strong></td>
<td>Ground Personnel Required</td>
<td>Fair</td>
<td>Excellent</td>
</tr>
<tr>
<td>DECKHAND offers powered control of pipe in all directions, which allows for fast, accurate pipe placement without any ground assistance.</td>
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<td></td>
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</tr>
<tr>
<td><strong>PRODUCTIVITY</strong></td>
<td>Low</td>
<td>Moderate</td>
<td>High</td>
</tr>
<tr>
<td>Straps/chains and vacuum lifts require multiple workers—DECKHAND requires just one operator. Vacuum lifts are slower than DECKHAND at moving and positioning pipe.</td>
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</tr>
<tr>
<td><strong>OFF-CENTER LIFTS</strong></td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>DECKHAND can lift pipe off-center per operating limits.</td>
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<td></td>
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<tr>
<td><strong>TOTAL OWNERSHIP COST</strong></td>
<td>Medium</td>
<td>High</td>
<td>Low</td>
</tr>
<tr>
<td>DECKHAND’s robust design ensures a long lifespan and nominal maintenance costs.</td>
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</tr>
<tr>
<td><strong>LABOR COST</strong></td>
<td>2-4 People</td>
<td>1-3 People</td>
<td>1 Person</td>
</tr>
<tr>
<td>DECKHAND also increases pipe handling production vs. other methods.</td>
<td></td>
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<td></td>
</tr>
<tr>
<td><strong>PIPE &amp; EQUIPMENT DAMAGE</strong></td>
<td>High</td>
<td>Medium</td>
<td>Low</td>
</tr>
<tr>
<td>Vacuum lifts can drop pipe unintentionally or swing pipe into objects, causing pipe and/or equipment damage.</td>
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<td></td>
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</tr>
<tr>
<td><strong>MAINTENANCE COSTS</strong></td>
<td>Low</td>
<td>High</td>
<td>Low</td>
</tr>
<tr>
<td>DECKHAND requires weekly greasing and occasional wear pad replacement. Vacuum lifts require suction pads to be replaced when torn or every 200 hours, and filters to be replaced daily in certain weather conditions (diesel engine also requires daily fueling and maintenance).</td>
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</tr>
<tr>
<td><strong>INSURANCE COSTS</strong></td>
<td>High</td>
<td>Medium</td>
<td>Low</td>
</tr>
<tr>
<td>With DECKHAND, fewer ground workers equals lower insurance costs.</td>
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</tbody>
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**CRC-Evans.com**
Safer. Faster. Simpler.

Designed to make pipe handling easier than ever before, the DECKHAND Pipe Handling System safely outperforms all existing pipe handling methods while cutting back on man hours and reducing long-term pipeline construction costs. Whether stringing pipe on a job site or right-of-way; stockpiling pipe; or taking pipe on and off trailers, rail cars, or pipe racks, DECKHAND is your ideal solution. Visit CRC-Evans.com today for more information.
CRC-Evans is involved in virtually every aspect of onshore pipeline construction, helping clients around the globe build better pipelines through intelligent start-to-finish solutions. Our broad range of specialties includes pipe handling, automatic welding, pipe bending, pipe facing, field joint coating, inspection, and comprehensive project management. CRC-Evans is today’s leading provider of equipment and services for onshore pipeline construction, rehabilitation, and maintenance.

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