HOLELESS AND ROPED JACKS

Holeless and roped jacks can be manufactured as a single piece or in multiple sections. A multi-piece jack has cylinder and plunger sections that couple together using threaded couplings and an o-ring seal. This joint design eliminates the time and expense of field welding the sections together. Below on the right is a sectional view of a two section holeless or roped jack. On the left is a similar section of a bottom inlet roped jack. The internal arrangement is the same except the centering pin has been removed and replaced with four guides spaced around the sides of the barrel as shown.
Holeless jacks are mounted directly to the car and normally used in a twin configuration to lift both heavy and light car loads. These jacks are mounted to the pit floor and usually used in 1 or 2 stop arrangements but they can sometimes reach as far as 4 stops.

Roped jacks are used in both single cantilevered and twin jack configurations. Cables used in conjunction with the jack achieve a 1 to 2 lift ratio, meaning for every 1 foot the plunger rises out of the cylinder the car will rise 2 feet. Cantilever designs are typically used for lighter elevator car weights and capacities while twin jacks are used for heavier loads. Roped jack units are offered in both side inlet (mounted to the pit floor) and bottom inlet (mounted on a jack stand) configurations.

Below are charts listing all roped and holeless jack sizes.

### HOLELESS JACKS

<table>
<thead>
<tr>
<th>NOMINAL PLUNGER O.D.</th>
<th>MACHINED PLUNGER O.D.</th>
<th>PLG. WALL THICKNESS</th>
<th>CYLINDER O.D.</th>
<th>COUPLING O.D.</th>
<th>BASEPLATE DIMENSIONS</th>
<th>MAX WORKING PRESSURE (PSI)</th>
<th>SEAL FRICTION PRESSURE (PSI)</th>
<th>HEAD O.D.</th>
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### HOLELESS JACKS, SEAMLESS MATERIAL

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## Roped Jacks

### Roped Jacks

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<th>Plunger Wall Thickness</th>
<th>Cylinder O.D.</th>
<th>Coupling O.D.</th>
<th>Baseplate Dimensions</th>
<th>Max Working Pressure, One PC. (PSI)</th>
<th>Max Working Pressure, Multi-PC. (PSI)</th>
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### Roped Jacks, Seamless Material

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<th>Machined Plunger O.D.</th>
<th>Plunger Wall Thickness</th>
<th>Cylinder O.D.</th>
<th>Coupling O.D.</th>
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Holeless jacks are only available in one-piece construction. Roped jacks are offered in both single and multi-piece options. Both types of jacks are offered with a seamless material option to meet customer or code requirements for non-welded material. A seamless plunger and regular cylinder or both seamless plunger and cylinder can be ordered.

### Requesting a Quote/Placing an Order

Filling out one easy to understand form is all you will need to request a quote and place an order. Begin the quote process by using the “Quote Request/Order Worksheet” provided on page 5. Fill out as much information on your desired jack unit as you can and fax it to D. L. Martin.
In most cases, if your quote request is received by 3 p.m. EST you will be faxed a formal quote by the end of the day. If you have any questions while filling out the form don’t hesitate to call.

If you are ready to place an order just provide a completed “Quote Request/Order Worksheet” along with a purchase order number. Once your jack unit has been engineered an approval form will be faxed to you. All of the jack layout dimensions will be provided on the form for you to make sure the jack meets your specifications. Once you have verified the dimensions are correct sign and date the form and fax it back. This form is D. L. Martin’s go-ahead to begin production on your jack unit.
D. L. MARTIN CO.
25 E. Harbaugh Drive, Mercersburg, Pennsylvania 17236
Phone (717) 328-2141 / FAX (717) 328-5919

ROPED AND HOLELESS JACK QUOTE/ORDER WORKSHEET

QUOTE INFO:
FORM COMPLETED BY: ________________________   DATE___/___/___
PHONE______-______-________       FAX______-______-________
EXISTING JACK SIZE (If replacement jack order): (plunger dia.)_______ X (wall thk.)_______
TOTAL STROKE (Floor to Floor Travel + Top Runby + Bottom Undertravel): ____________
Bottom Undertravel = Bottom Runby + Buffer Stroke + Tolerance Needed
*CAR WEIGHT: _________   CAR CAPACITY:_________

☐ HOOLELESS JACK     ☐ ROPED JACK

ROPED OR HOOLELESS JACK OPTIONS (check if required):
☐ Dual Jack Configuration
☐ Seamless Plunger
☐ Seamless Plunger and Cylinder
☐ Stop Sleeve/Ring (Current Travel with Sleeve_______)

ROPED JACK INLET: (check one if ROPED JACK specified)
☐ Side Inlet
☐ Bottom Inlet

ROPED JACK ONLY - # OF SECTIONS: ______

*Car weight can be estimated for quoting purposes. However, the customer is responsible
for verifying the actual car weight does not exceed the estimate. Failure to make sure the
weight figure is adequate can result in an insufficient jack being purchased for the job.

SHIP TO: ________________________
_________________________
_________________________

BILL TO: ______________________
_________________________
_________________________

Fax completed form to: 717-328-5919

NOTICE: Failure to provide all requested information could result in delays, once the jack order is placed. A final jack layout approval sheet will be faxed to the person completing this form before the jack goes into production. If the order is for a replacement jack please provide any drawings or documentation, from the original jack, that may be useful.