Lifting, lowering or horizontal movements of heavy loads

Lifting in Unusual Situations
When loads need to be lifted or lowered in tight areas or in situations where overhead clearance is limited, Enerpac offers this economical alternative to traditional rigging equipment. Contact Enerpac: integratedsolutions@enerpac.com.

Pre-stress Cap
Included with all strand jacks. Used for tensioning strand prior to operation.

Strand Wedges
Specially designed wedges for use with Enerpac strand jacks are included and available to purchase separately.

Heavy Lifting Accessories
- Lifting attachments
- Palm trees
- Strand recoilers
- Strand dispenser.

Hydraulic wedge setting and wedge release for positive load control
- Individual strand guidance through jack
- Multi functional treatment for corrosion protection and trouble-free wedge release
- Jacks designed to be operated in all positions: vertical, horizontal or inclined
- Strand jack designed according to the highest safety standards with a minimum of 2,5:1 of strand breaking load
- Built-in sensors for closed-loop control.

Heavy lifting system with 11 x 3720 kN Strand Jacks, 6 pumps, a master PLC-control system and network, for lifting roofs during the construction of a new triple bay aircraft maintenance hangar at Abu Dhabi International Airport.

Eight 444 ton strand jacks including palm trees, lifting attachments, strand recoilers and lifting wedge consumables will lift twelve ball mills weighing 1500 ton to a height of 20 metres onto their bearing housings at an Australia mining facility.
Heavy Lifting Strand Jacks

Strand Jacking Lifting Sequence
The sequence of operation is illustrated with the lock devices shown in red when the wedges are closed. The lock devices are shown in blue when the wedges are open.

TT Series
Rated Capacity per Jack:
37 - 673 ton
Effective Stroke:
500 mm
Working Pressure:
300 bar

Plastic Control Unit and Strand Jack Pumps
Using a network cable to interconnect each strand jack pump to the master control enables the use of an unlimited number of jacks.

Mono Strand Lifting Jack
For heavy-lifting applications where a crane or hoist will not fit, the ST-120M06 may be the only solution. Contact Enerpac for more details on this unique lifting solution.

SELECTION CHART

<table>
<thead>
<tr>
<th>Strand Jack Capacity 1)</th>
<th>Model Number</th>
<th>Strand Diameter 2)</th>
<th>Number of Strands</th>
<th>Effective Stroke (mm)</th>
<th>Effective Area (cm²)</th>
<th>Nominal Working Pressure (bar)</th>
<th>Dimensions (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>37 (360)</td>
<td>TT-36SJ306</td>
<td>0.60 (15.2)</td>
<td>3</td>
<td>500</td>
<td>123</td>
<td>300</td>
<td>300 2270 60</td>
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<tr>
<td>86 (840)</td>
<td>TT-64SJ706</td>
<td>0.60 (15.2)</td>
<td>7</td>
<td>500</td>
<td>287</td>
<td>300</td>
<td>430 2290 93</td>
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<tr>
<td>147 (1440)</td>
<td>TT-114SJ1206</td>
<td>0.60 (15.2)</td>
<td>12</td>
<td>500</td>
<td>466</td>
<td>300</td>
<td>490 2298 133</td>
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<tr>
<td>232 (2280)</td>
<td>TT-228SJ1906</td>
<td>0.60 (15.2)</td>
<td>19</td>
<td>500</td>
<td>754</td>
<td>300</td>
<td>600 2330 169</td>
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<tr>
<td>330 (3240)</td>
<td>TT-324SJ2706</td>
<td>0.60 (15.2)</td>
<td>27</td>
<td>500</td>
<td>1089</td>
<td>300</td>
<td>650 2330 208</td>
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<td>453 (4440)</td>
<td>TT-444SJ3706</td>
<td>0.60 (15.2)</td>
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<td>1486</td>
<td>300</td>
<td>700 2652 246</td>
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<tr>
<td>587 (5760)</td>
<td>TT-576SJ4806</td>
<td>0.60 (15.2)</td>
<td>48</td>
<td>500</td>
<td>1865</td>
<td>300</td>
<td>760 2693 284</td>
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<td>673 (6600)</td>
<td>TT-660SJ5506</td>
<td>0.60 (15.2)</td>
<td>55</td>
<td>500</td>
<td>2199</td>
<td>300</td>
<td>900 2775 291</td>
</tr>
</tbody>
</table>

1) When used with compacted heavy lifting strand. Additional capacities and strokes are available.
2) Strand jacks are also available for 18.0 mm (0.70 inch) strand. Contact Enerpac for further information.
TTP-Series, Strand Jack Hydraulic Pumps

Hydraulic Power for Demanding Strand Jacking Applications

- Multiple pump and reservoir options
- PLC-controlled operation
- Steel frame and lifting eyes
- One pump per strand jack allows for short connections and flexible jack positions
- Pumps can be interconnected with a network cable.

Premium Options:
- Variable frequency drive for flow control and accurate synchronization between multiple lifting points
- One pump to operate multiple jacks
- Fully enclosed cabinet
- Oil cooler for operation in high temperature environments or continuous operation
- Reinforced cabinet with steel frame and lifting lugs
- Oil pre-heater in low temperature applications
- Biodegradable oil.

Motor Size: 5.5 - 37 kW
Lifting Speed: 1 - 29 m/hr
Working Pressure: 300 bar

Hand Pendant
Allows individual control of strand jacks for set-up and manual operation. Included with each pump unit.

Contact Enerpac!
Contact the Enerpac office nearest to you for advice and technical assistance in the layout of your ideal Lifting System: integratedsolutions@enerpac.com. or visit: www.enerpac.com.

TT-Series Strand Jacks
Multi Strand Jacks for accurate lifting, lowering or horizontal movements of heavy loads.

Two concrete arches of this viaduct in Silleda, Spain are rotated and lowered by Enerpac Heavy Lifting Strand Jacking Systems.
Strand Jack Controls

- Modular based system
- Control up to 32 strand jacks with one master controller
- Multiple controllers can be networked
- Individual or synchronous control
- Individual and accumulative stroke and load display
- Stroke and load alarms for safety
- Data logging capabilities.

Shown: Master PLC-Control Unit

Bridge launching with Enerpac Heavy Lifting Strand Jacks.

Strand jack pumps and eight strand jacks are networked to the master PLC-controller to lift twelve ball mills, weighing 1500 ton each, at a mining facility in Australia. By using a network cable to interconnect each strand jack pump, multiple strand jacks can be operated from one master controller.

Bridge launching with Enerpac Heavy Lifting Strand Jacks.