Thern’s First Mate series portable davit cranes quite simply, are perfect for a large variety of lifting jobs. Simple set-up, easy to use and easy to transport, makes the First Mate ideal for multiple station service. With multiple bases in place, the Thern First Mate goes anywhere you need an affordable, portable davit crane.

850 lb Capacity (385 kg)
Portable Davit Crane

- Rugged and affordable
- Manual or Power Winch Operation
- 360° Rotation
- Five Corrosion-Resistant Finishes
- Easy, No-Tools Assembly/Disassembly
- Variety of Bases
- 2-Year Warranty
These products are not for lifting people, or things over people.
FEATURES AND BENEFITS

WELDED STEEL CONSTRUCTION
Crane and base fabricated from heavy duty structural steel that meets ASTM standards.

CORROSION RESISTANT FINISHES
Powder coating is standard on crane. Four optional finishes available.

ADJUSTABLE BOOM ANGLE
3 convenient positions for operation.

PORTABLE
Crane quickly folds down and locks for storage or transport.

360° ROTATION
Bearing on bottom of mast allows smooth and easy rotation while under load.

HEADACHE BALL (Optional)
Keeps cable taut when no load is attached. Sold separately.

WIRE ROPE ASSEMBLY
Available in a variety of lengths in galvanized and stainless steel. Sold separately.

QUICK MOUNT WINCH (fig. 4)
Once attached to bracket, the winch can be quickly mounted or removed from crane.

EASY ASSEMBLY & DISASSEMBLY
Clevis style stainless steel pins allow for easy assembly, quick boom adjustments and disassembly - No tools necessary.

CRANE STANDARDS
Meets CE and relevant ASTM standards.

VARIETY OF BASES
Pedestal, flush, wall and wheel bases provide a variety of mounting solutions. Sold separately.

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Complete, downloadable details on line
www.thern.com
Portable Davit Cranes

Hand Winch Operation
Up to 850 lb (385 kg) capacity

Select the option that best suits your needs for each item. Fill in the boxes below to create your crane number.

1 Crane
2 Optional Finish
3 Winch

i.e. 5PF5-M1
* Leave blank for standard powder coat finish

4 Order your Base, Wire Rope Assembly and Optional Accessories separately. See next page.

• Two-Year Limited Warranty

CRANE MODEL

■ Crane Rotates 360° on a sleeve bearing in the base. Handle on crane makes rotation easy.
■ Adjustable Boom Angle with 3 different positions for operation.
■ Crane folds down for storage or transport.
■ Optional Lock holds crane position at 30° increments.

OPTIONAL FINISHES

■ Galvanized Finish provides extra protection against corrosion.
■ Stainless Steel Models are constructed of 304 or 316 stainless steel with an electro-polished finish for superior corrosion resistance.
■ Epoxy Grey Finish provides extra protection against corrosion.

WINCH MODELS

■ Hand Winch Operated Models include spur gear or worm gear hand winch with brake for load control. Model M2 winch can be drill-driven, 300 rpm max.
■ Power Winch Operated Models include electric winch with pendant control and brake. Other power options available, please contact Them.
■ Quick Disconnect Anchor for quickly attaching or removing wire rope equipped with a swaged ball fitting.
PORTABLE DAVIT CRANE  FIRST MATE

4 First Mate Series Bases, Wire Rope Assemblies and Accessories

INDEPENDENT BASES – sold separately

■ Pedestal, Socket (flush mount) or Wall mount style
■ Wheel Base for floor crane operation. Base includes stationary front wheels and rear caster wheels for 360° maneuverability. See Model 5BR5.
■ Important: Base installation is purchaser’s responsibility. Thern recommends consulting a civil engineer or other qualified professional. Contact Thern for installation guidelines.

WIRE ROPE ASSEMBLIES – sold separately

■ Galvanized or Stainless Steel wire rope assemblies with swaged ball fitting to work with the quick disconnect anchor on the winch. 316 Stainless Steel assemblies available - contact factory.

<table>
<thead>
<tr>
<th>Wire Rope Length</th>
<th>Galvanized Aircraft Cable</th>
<th>304 Stainless Steel Wire Rope</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/16” Dia. (4.8 mm)</td>
<td>1/4” Dia. (6.4 mm)</td>
<td>3/16” Dia. (4.8 mm)</td>
</tr>
<tr>
<td>20</td>
<td>6.0</td>
<td>WA19-20NS</td>
</tr>
<tr>
<td>36</td>
<td>10.9</td>
<td>WA19-36NS</td>
</tr>
<tr>
<td>45</td>
<td>13.7</td>
<td>WA19-45NS</td>
</tr>
<tr>
<td>60</td>
<td>18.2</td>
<td>WA19-60NS</td>
</tr>
<tr>
<td>75</td>
<td>22.8</td>
<td>WA19-75NS</td>
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<tr>
<td>90</td>
<td>27.4</td>
<td>WA19-90NS</td>
</tr>
</tbody>
</table>

ACCESSORIES - Sold Separately

Base Installation Anchor Kits
4 Hilti® Torque controlled expansion anchors
1.4 lb  0.64 kg
AN50A-5 - Zinc plated steel STL KB-TZ
AN50A-5S - 304 Stainless steel SST304 KB-TZ
AN50A-5S316 - 316 Stainless steel SST316 KB-TZ

Cable Spool - 316 Stainless steel reel winds wire rope when detached from crane.
Model No. RW50 - 12 lb  5.5 kg

Wire Rope Keeper - Stainless Steel bracket attaches to base or other structure to hold free end of the wire rope when detached from crane.
Model RK19-25S - 304 Stainless Steel
Model RK19-25S316 - 316 Stainless Steel

Headache Ball
Keeps cable taut when no load is attached
Fits 1/8” (3mm) to 1/4” (6mm) wire rope diameters
HB10-12-25 - Painted steel 10 lb  4.5 kg
HB10S-12-25 - Polished 316 Stainless steel 10 lb  4.5 kg

Drill Drive Kits - 300 rpm drill motor to power drive the M2 hand winch option. Includes 1-1/8” hex drive socket
Model ED300-DW11 - 120 VAC power drill kit
Model ED300-DW06 - Cordless drill kit

5PF5 Series Rotational Lock
Holds crane position at 30° increments.
Model No. 5PF5LCK - 316 Stainless Steel

IMPORTANT:
It is the owner or operator’s responsibility to determine the suitability of the equipment to its intended use. Study all applicable codes, manuals and regulations. Be sure to read the Owner’s Manual supplied with the equipment before operating it.

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Complete, downloadable details on line
www.thern.com
### Performance

First Mate 5PF5 Series Performance
Lift Below Floor Level with Pedestal Base

<table>
<thead>
<tr>
<th>Lift Below Floor</th>
<th>Wire Rope Diameter</th>
<th>Wire Rope Length</th>
<th>Winch Configurations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum (C)</td>
<td>(in) (mm)</td>
<td>(ft) (m)</td>
<td>M1  M2  M3  E2  E4</td>
</tr>
<tr>
<td>Maximum (A)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(ft) (m)</td>
<td>(ft) (m)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>1.8  1.8</td>
<td>3/16 5</td>
<td>x - x - x</td>
</tr>
<tr>
<td>14</td>
<td>4.2  1.3</td>
<td>3/16 5</td>
<td>x - x - x</td>
</tr>
<tr>
<td>22</td>
<td>6.7  2.0</td>
<td>3/16 5</td>
<td>x - x - x</td>
</tr>
<tr>
<td>31</td>
<td>9.4  2.8</td>
<td>3/16 5</td>
<td>x - x - x</td>
</tr>
<tr>
<td>46</td>
<td>14.0 4.3</td>
<td>3/16 5</td>
<td>- - x - x</td>
</tr>
<tr>
<td>61</td>
<td>18.5 5.6</td>
<td>3/16 5</td>
<td>- - x - x</td>
</tr>
<tr>
<td>76</td>
<td>23.1 7.0</td>
<td>3/16 5</td>
<td>- - x - x</td>
</tr>
<tr>
<td>6</td>
<td>1.8  1.8</td>
<td>1/4 6</td>
<td>- x x x x</td>
</tr>
<tr>
<td>14</td>
<td>4.2  1.3</td>
<td>1/4 6</td>
<td>- x x x x</td>
</tr>
<tr>
<td>22</td>
<td>6.7  2.0</td>
<td>1/4 6</td>
<td>- x x x x</td>
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<td>9.4  2.8</td>
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<td>- x x x x</td>
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<td>14.0 4.3</td>
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<td>- x - x x</td>
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<tr>
<td>61</td>
<td>18.5 5.6</td>
<td>1/4 6</td>
<td>- x - x x</td>
</tr>
</tbody>
</table>

For longer lifts - Up to 285 ft. (86.8 m) - Please contact factory

1. Performance Characteristics are for standard products. Non-standard products may vary from the original design. Contact Thern, Inc. for this information.

2. Lift below floor level varies depending on boom position and base configuration. For longer lifts please contact factory.

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### Performance Ratings

First Mate 5PF5 Performance Ratings
For all winch configurations

<table>
<thead>
<tr>
<th>Boom Position</th>
<th>Load Rating(^1) 1/8&quot; (3mm) Diameter wire rope</th>
<th>Load Rating(^1) 3/16&quot; and 1/4&quot; (5 &amp; 6mm) Diameter wire rope</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(lb) (kg)</td>
<td>(lb) (kg)</td>
</tr>
<tr>
<td>A</td>
<td>500 226</td>
<td>500 226</td>
</tr>
<tr>
<td>B</td>
<td>570 258</td>
<td>600 272</td>
</tr>
<tr>
<td>C</td>
<td>570 258</td>
<td>850 385</td>
</tr>
</tbody>
</table>

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1. Performance Characteristics are for standard products. Non-standard products may vary from the original design. Contact Thern, Inc. for this information.

2. Load Rating with 7x19 Galvanized Aircraft Cable. Load Rating may be reduced with other rope types.
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IMPORTANT: It is the owner or operator’s responsibility to determine the suitability of the equipment to its intended use. Study all applicable codes, manuals and regulations. Be sure to read the Owner’s Manual supplied with the equipment before operating it.

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