The Knight Oil Tools PSM is a ram-type Pipe Straightening Machine that is available as a self-contained skid-mounted unit, a stationary unit for permanent plant installations or a portable trailer-mounted unit. With capacity options ranging from 75-Ton to 250-Ton, the PSM can straighten any standard oilfield tubular.
**Standard Features**

- Skid-Mounted ram-type pipe straightener with forklift pockets
- Adjustable pins for variable pipe bending locations
- Height adjustable modular pipe conveyor system
- Hydraulic pop-up rollers on each frame end for manual rotation of pipe
- Straightening shoes to fit pipe from 2-3/8” to 6-5/8”
- 3,000 PSI hydraulic system with manual control valves

**Optional Features**

- Diesel/Gas engine with electric start
- Trailer-mounted (Ball hitch / 5th wheel)
- Hydraulic pipe conveyor system
- Hydraulic pop-up system
- Pad eyes for crane lifting
- Custom sized straightening shoes

**Safety Features**

- Moving items painted high visibility safety yellow
- Pipe is straightened within frame
- Pipe guard envelops work piece

**Requirements**

- Electrical: 220/480V, 3-Phase, 50/60 Hz (If Electric)
- Compressed Air: N/A
- Rack Height: 36”-44”

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**Capability**

- Pipe straightening ability depends on location of the bend
- Specific sizes and weights can be calculated by request
- Grade S-135 pipe calculated below
- Dimension “A” is the minimum distance from the upset to the bent area

<table>
<thead>
<tr>
<th>Model</th>
<th>Max Drill Pipe Size</th>
<th>Max Drill Pipe Size</th>
<th>Max Drill Collar Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim “A”</td>
<td>18”</td>
<td>48”</td>
<td>48”</td>
</tr>
<tr>
<td>75 Ton</td>
<td>5-1/2” 24.7 #/ft.</td>
<td>6-5/8” 27.7 #/ft.</td>
<td>6” OD x 1-1/2” ID</td>
</tr>
<tr>
<td>125 Ton</td>
<td>6-5/8” 27.7 #/ft.</td>
<td>6-5/8” 27.7 #/ft.</td>
<td>7” OD x 1-1/2” ID</td>
</tr>
<tr>
<td>250 Ton</td>
<td>6-5/8” 27.7 #/ft.</td>
<td>6-5/8” 27.7 #/ft.</td>
<td>9” OD x 1-1/2” ID</td>
</tr>
</tbody>
</table>

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**DIMENSIONS**

**PIPE STRAIGHTENING MACHINE**

- Diesel/Gas engine with electric start
- Trailer-mounted (Ball hitch / 5th wheel)
- Hydraulic pipe conveyor system
- Hydraulic pop-up system
- Pad eyes for crane lifting
- Custom sized straightening shoes

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