A rating concerning the resistance to overloads while operating is assigned to the metal structures by the letters from H1 to H4. Many manufacturers have a rating H1, while our cranes comply with a rating H2, which is much better because:

- if you stay within the curve H1 with an operating speed of 30 m/min, for instance, you will have an overload capacity of 1.15 (15%)
- if you stay within the curve H2 considering the same speed, you will have an overload capacity of 1.3 (30%), i.e. DOUBLE than the above one.

A rating is assigned to the metal structures which must last for a long time (such as bridges, cranes, etc.) depending on the requirements they can meet. As far as cranes are concerned, the DIN 15018 norm assigns a range from B1 to B7. The truck cranes must comply with a min. rating B2, while our cranes comply with a rating B3, which is much better because:

- if you stay within the curve B2, for instance with a definite load S1, you will have a structural life of 200,000 conventional cycles, corresponding to about 50 loading/unloading operations per day for 10 years
- if you stay within the curve B3 with the same load S1, you will have a structural life of 600,000 conventional cycles, i.e. three times bigger.
**Technical data:** **COBRA 6600 E**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crane rating</td>
<td>38,600 ft.lbs. / 52.3 kN.m</td>
</tr>
<tr>
<td>Hydraulic extension</td>
<td>9' 10&quot; / 3.000 mm</td>
</tr>
<tr>
<td>(from center of rotation)</td>
<td>21' / 6.400 mm</td>
</tr>
<tr>
<td>Slewing rotation</td>
<td>Continuous (non stop)</td>
</tr>
<tr>
<td>Slewing torque</td>
<td>5,700 ft.lbs. / 8 kN.m</td>
</tr>
<tr>
<td>Boom elevation angle</td>
<td>-5°/+75°</td>
</tr>
<tr>
<td>Max. working pressure</td>
<td>2,830 psi / 205 bar</td>
</tr>
<tr>
<td>Winch:</td>
<td></td>
</tr>
<tr>
<td>* single line capacity</td>
<td>4,430 lbs. / 2.010 Kg</td>
</tr>
<tr>
<td>* double line</td>
<td>6,610 lbs. / 3.000 Kg</td>
</tr>
<tr>
<td>Capacity:</td>
<td></td>
</tr>
<tr>
<td>* line pull speed</td>
<td>10-23 ft./min. / 25/64&quot; in.</td>
</tr>
<tr>
<td>* rope diameter</td>
<td>3-7 mm</td>
</tr>
<tr>
<td>* rope length</td>
<td>98&quot; ft. / 30 mm</td>
</tr>
<tr>
<td>Crane weight</td>
<td>1,370 lbs. / 620 Kg</td>
</tr>
</tbody>
</table>

**LOAD LIMITING DEVICE**
- Crane and its operator are protected from overloads by the load limiting device LLD (with transducer).
- The relevant sensor is incorporated in the boom elevation cylinder and protected from external damage.
- The LLD is equipped with a LCD screen that shows when 90% and 100% of rated load is reached.
- Only boom-in and boom-down remain operable.

**BOOM SYSTEM**
- Boom are made of extra-high strength, fine grained Swedish steel hexagonally shaped.
- Stages made of a single piece robot welded.
- Telescopic hexagonal sections are self-aligning at any condition and at any boom elevation.
- Rectangular sections made of commercial grade steel, or hexagonal sections made in two parts do not deliver high performances.

**BOOM ELEVATION**
- Crane has -5° to 75° hydraulically powered boom elevation.
- The elevation cylinder is double acting, incorporating an overcenter (holding + counterbalance + smooth lowering) valve.

**REMOTE CONTROL**
- Crane is equipped with a 32" ft. (10 m.t.) length pendant control for operating all the functions.
- The pendant is connected to the side of the crane column. Radio available (optional).

**ROPE SKEW**
- All sheaves are made in anti-friction, high strength weather proof polymer, with maintenance free, sealed bearings.

**PLANETARY HOIST WINCH**
- A heavy duty load brake provides safe dependable control of loads.
- The winch has a 4,430 lbs. (2,010 kg.) first layer capacity, its drum houses 98" ft. (30 m.t.) of 25/64" (10 mm.) non twisting cable with minimum 20,700 lbs. (9,400 Kg.) breaking strength.
- Hoist speed for single line operation: 10-23 ft./min. / 3-7 m/min.
- Hoist speed for double line operation: 5-11.5 ft./min. / 1.5-3.5 m/min.

**SLEWING**
- Crane has a continuous rotation, hydraulically powered, for uncompromised versatility and ease of use delivering a total coverage of the working area.
- Positive locking of the slewing system prevents from uncontrolled movements at any time.

**ANTI-TWO BLOCK**
- Crane has an anti-two-block as standard equipment.
- The preventer protects the crane from accidental two-blocking of the travelling block by making hoist up, boom down and extend out functions inoperable.

**TRAVELLING BLOCK**
- A tip proof, travelling block is supplied.
- The hook has a capacity of two metric tons, equipped with safety latch and can swivel under load.

**PINS WITH BUSHING**
- Big size pins are nitrided and greased. For lower maintenance and long life time.

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**Next Hydraulics**
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- tel. +39.0522.963008 - fax +39.0522.963039

www.cobra-crane.com

**OPTIONAL** Outrigger system to increase stability and reduce the load on the truck springs while lifting.