EPC-SERIES

IDEAL FOR HAZARDOUS ENVIRONMENTS

Specifically designed to meet the electrical standards required in hazardous or classified manufacturing and processing environments, David Round’s EPC-Series chain hoists set a new standard for electric chain hoists.

EXPLOSION-PROOF / DUST-IGNITION-PROOF

Featuring NEMA 7 or NEMA 9 enclosures, pendants and fittings as well as explosion-proof rated motors as required, EPC-Series electric chain hoists are intended for H-4 operation in Class I environments with flammable gasses and vapors and Class II locations where combustible dust is present. Units are further configured for use in either Division I or II-rated facilities.

SPARK-RESISTANT FEATURES

To further reduce the likelihood of inadvertent sparking during normal lifting operations, all EPC-Series hoists include spark-resistant features. Each EPC-Series hoist is supplied with rubber bumpers in addition to stainless steel trolley wheels, load chain, bottom block and hook.
**EXPLOSION-PROOF CHAIN HOISTS**

**STANDARD FEATURES**
- Spark-resistant components
- Stainless steel trolley wheels
- Stainless steel load chain
- Stainless steel bottom block
- Stainless steel safety hook
- Rubber bumpers
- Universal trolley wheels for flat/tapered flange beams
- Sealed gearing with oil bath lubrication
- Upper/lower hook position limit switch
- Reversing single speed controls for hoist and trolley
- Automatic electric hoist brake
- Stainless steel chain container
- Lug mounted
- 230/460 Volts – 60 Hz – 3 Phase

**OPTIONS**
- Epoxy paint
- Variable speed operation with AC inverter
- Push or motorized trolley
- Trolley soft start
- Trolley brake
- Mainline contactor
- Corrosion-resistant components
- All stainless steel hoist designs
- Low-headroom versions
- Long-lift units
- Rail sweeps/restraining lugs
- Articulating trolleys
- Tractor drives

<table>
<thead>
<tr>
<th>ENVIRONMENT</th>
<th>DESCRIPTION</th>
<th>ENCLOSURES</th>
<th>PENDANT</th>
<th>MOTORS</th>
<th>BRAKES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class I / Division I</td>
<td>Hazardous concentrations of flammable gasses or vapors exist.</td>
<td>NEMA 7</td>
<td>NEMA 7</td>
<td>Explosion-Proof</td>
<td>Hazardous Location - Div I</td>
</tr>
<tr>
<td>Class I / Division II</td>
<td>Volatile flammable liquids or gasses are normally confined.</td>
<td>NEMA 7</td>
<td>NEMA 7 or Intrinsically Safe</td>
<td>Explosion-Proof or TENV/TEFC</td>
<td>Hazardous Location - Div II</td>
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<tr>
<td>Class II / Division I</td>
<td>Ignitables amounts of hazardous dust present in atmosphere.</td>
<td>NEMA 9</td>
<td>NEMA 9</td>
<td>Explosion-Proof</td>
<td>Hazardous Location - Div I</td>
</tr>
<tr>
<td>Class II / Division II</td>
<td>Electrically conductive dust present in atmosphere.</td>
<td>NEMA 9</td>
<td>NEMA 9 or Intrinsically Safe</td>
<td>Explosion-Proof or TENV/TEFC</td>
<td>Hazardous Location - Div II</td>
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</tbody>
</table>

David Round manufactures both explosion-proof and dust-ignition-proof apparatus as specified by David Round's interpretation of Articles 500-504 of the National Electric Code (2002). However, it is the customer's responsibility to determine the class, division and group for each hoisting application and to ensure that each David Round product intended for use in a hazardous environment specifically meets the requirements for the intended area of use prior to installation and operation.

32405 Aurora Road • Solon, Ohio 44139 • Tel (440) 248-4700 • Fax (440) 248-8544 • www.davidround.com • info@davidround.com