

Explosion Proof Stainless Steel Wire Rope Hoists

Ideal for hazardous environment cleanroom applications, these explosion proof stainless steel hoist products are specifically designed to meet electrical standards required in hazardous or classified manufacturing and processing areas. David Round also makes explosion proof [chain hoist products](#).



Explosion-Proof/Dust Ignition-Proof

Featuring NEMA 7 or NEMA 9 enclosures, pendants and fittings as well as explosion-proof rated motors as required, electric explosion proof wire rope hoist products 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 Hoist Features

To further reduce the likelihood of inadvertent sparking during normal lifting operations, all explosion proof hoist products include spark-resistant features. Each hoist is supplied with rubber bumpers in addition to stainless Steel trolley wheels, bottom block and hook.

Standard Features of Explosion Stainless Steel Proof Hoist Products

Spark-resistant components

- Polished stainless steel external components
- Clean room grade motor and motor brake
- Stainless steel wire rope and load hook with latch

Universal trolley wheels for flat/tapered flange beams

Sealed gearing with food grade lubrication

Upper/lower hook position limit switch

Reversing single speed controls for hoist and trolley

Automatic electric hoist brake

Lug mounted

230/460 Volts - 60 Hz - 3 Phase

Options

Variable speed operation with AC inverter

Push or motorized trolley

Trolley soft start

Trolley brake

Mainline contactor

Low-headroom versions

Long-lift units

Rail sweeps/restraining lugs

Articulating trolleys

Tractor drives

Environment	Description	Enclosures	Pendant	Motors	Brakes
Class I / Division I	Hazardous concentrations of flammable gasses or vapors exist	NEMA 7	NEMA 7	Explosion-Proof	Hazardous Location - Div. I
Class I / Division II	Volatile flammable liquids or gasses are normally confined	NEMA 7	NEMA 7 or Intrinsically safe	Explosion-Proof or TENV/TEFC	Hazardous Location - Div. II
Class II / Division I	Ignitable amounts of hazardous dust present in atmosphere	NEMA 9	NEMA 9	Explosion-Proof	Hazardous Location - Div. I
Class II / Division II	Electrically conductive dust present in atmosphere	NEMA 9	NEMA 9 or Intrinsically safe	Explosion-Proof or TENV/TEFC	Hazardous Location - Div. I

Explosion Proof Hoist Product Literature

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.