

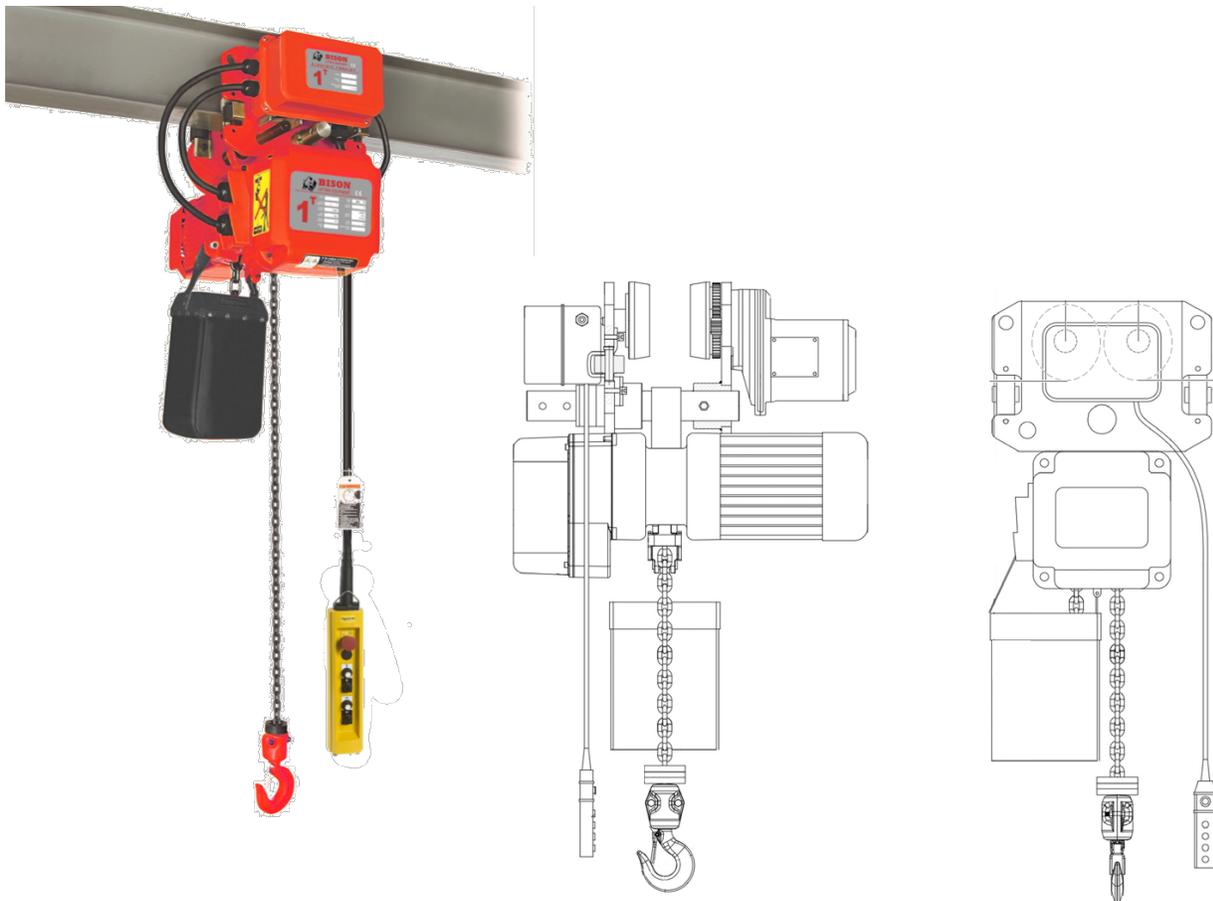
3-PHASE 230V/460V

ELECTRIC CHAIN HOIST

2021-2022

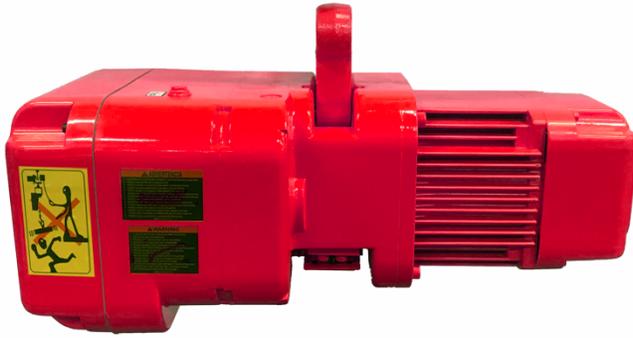
CATALOG

A buyers guide for all Bison 3-Phase electric chain hoists.



www.bisonlifting.com

201-366-4812



Dual Voltage

All 3 phase hoists come standard from the factory wired for 460v power supply. This can easily be adjusted to 230v.

Overload Protection (friction clutch)

Prevents operators from exceeding a hoist's rated lifting capacity.

Compact Aluminum Body

Die-cast body ensures a low headroom and lightweight construction.

Operating Conditions

Suitable for environments within -4° to $+104^{\circ}$ F.
Recommended Humidity of 85% or less.

Pull-Rotor Motor Brake

Superior mechanical force ensures a load is firmly held.
Contains no disc brake.

Upper/Lower Limit Switches

Mechanical paddle limit switches.

Pendant Control

Classic, robust design. 'ON' and red emergency stop push buttons are standard on all pendants. Pendant Cord includes external strain relief.

Pendant & Power Plug Connection

Quick plugin pendant controller cord and power cord.

External Motor Fan

Rapidly cools the hoist motor and brake, forcing air through the cooling fins.

Load Chain

Grade 80, case hardened FEC Japanese Chain. Now available in nickel-plated chain.

Contactor Controller

Mechanical interlocking contactors. 1 Million Operations.

Chain Container

Included with all standard hoists.

Phase Protection Relay

Hoist will not energize if the phase sequence is reversed.
Relay status light indicates incorrect phase wiring sequence.

Overload Relay

Precautionary feature, protects the motor from overheating.

Quick Access Electrical Panel

Hoist electrical cover is tethered to hoist housing for maximum efficiency and convenience during inspection/maintenance.

Hinged Internal Electrical Panel

Easily inspect internal components and wiring behind contactors and din rail by opening the hinged electrical panel.

Forged Swivel Bottom Hook

Rotate applications 360° during lifts. Safety latches are standard.

Standard Trolley Specifications

Beam Guide Rollers

Ensures the trolley wheels are safely aligned with the beams flange. Navigates curved beams.

Yoke Coupling Connection

Minimizes headroom

Flange Width

Fits 12-inch beam (shorter sizes available)

Travel Speeds

Comes in either single or dual speed.

Control Voltage

110v

Duty Cycle

40% ED

Standard Hoist Specifications

Standard Voltage

230/460v 3 Phase 60 Hertz

Ratings

Pendant: IP65 Hoist: IP55

Standard Lift

20 Ft (custom lengths available)

Standard Pendant Cord Length

17 Ft (custom lengths available)

Standard Power Cord Length

15 Ft (custom lengths available)

Duty Cycle

40% ED

Chain Container

Canvas bag included with all standard hoists

Capacity Range

1/2 - 5 Ton (Larger Capacity available with longer lead times)

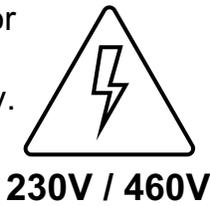
Hoist Mounting

Rigid hook; motorized or manual trolley



Dual Voltage

Enables the hoist to operate on either 230v or 460v. As standard all hoists are wired for 460v. This can be simply adjusted to suit 230v power supply.



Superior Load Chain

Grade 80, FEC Japanese case hardened load chain. Optional nickel-plated chain.



Quick Connect Plugs

Optimizes maintenance and installation time.



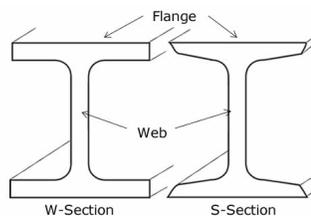
Dual Speeds

Dual speed models provide 2 speeds: fast and slow.



Beam Profiles

The unique design of the trolley wheels enable the trolley to operate on both W and S-Beams.



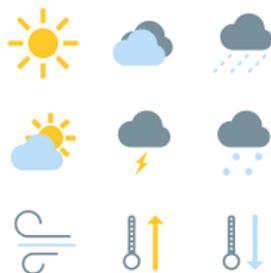
Guide Rollers

Ensures the trolley wheels are safely aligned with the beams flange. - Navigates curved beams.



Conditions

All hoists are IP55 protected. Suitable for indoor use. Optional outdoor rated hoists are available.



Contactors Controlled

Mechanical, interlocking Contactors.



Standards

Complies with
ANSI/ASME B30.16.
Standards
Load-tested to 125% of
capacity.

ASME



Heavy Duty Pendant

IP65 Pendant Controller.
Designed to withstand
heavy use in hardworking
environments.



Overload Protection

Friction clutch,
prevents damage and
overwinding.



External Motor Fan

Rapidly cools the hoist
motor and brake, forcing
air through the cooling
fins. This allows for
greater hoist duty rating.



Pull-Rotor Motor Brake

Reliable, robust. Contains
no brake coil.



Pocket Wheel

Smooth operation
chain pocket
wheel.



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