ATTENTION

JLC Quick Start





Product Specifications

• SPECIFICATIONS •

Capacity			Model	No. of	Motor	Lift Speed (fpm)			
(lb.)	(lb.) (kg) †		Number	Chains	HP	Single	Two		
250	125	1/8	JLC-0232	1	1/4	32	10.7		
500	250	1/4	JLC-0516	1	1/2	16	5.3		
500	250	1/4	JLC-0532	1	1/2	32	10.7		
1000	500	1/2	JLC-1016	1	1/2	16	5.3		
1000	500	1/2	JLC-1032	1	1	32	10.7		
2000	1000	1	JLC-2016	1	1	16	5.3		
4000	2000	2	JLC-4008	2	1	8	2.7		

Product Warning and Model Labels

Hoist Operation Warning Label (Top Side)

Hoist Capacity Label

Electric Motor Model/Serial Number Label

Oil Level Warning Label (Back Side)

Dual Voltage Warning Label

Hoist Operation Warning Hangtag

Safety Precautions

AWARNING

Improper operation of a hoist can create a potentially hazardous situation which, if not avoided, could result in death or serious injury. To avoid such a potentially hazardous situation, THE OPERATOR SHALL:

- NOT operate a damaged, malfunctioning or unusually performing hoist.
- NOT operate the hoist until you have thoroughly read and understood the manufacturer's Operating and Maintenance Instructions or Manuals.
- NOT operate a hoist which has been modified without the manufacturer's approval or without certification that it is in conformity with ANSI/ASME B30 volumes.
- 4. NOT lift more than rated load for the hoist.
- NOT use hoist with twisted, kinked, damaged, or worn load chain
- 6. NOT use the hoist to lift, support, or transport people.
- 7. NOT lift loads over people.
- NOT operate a hoist unless all persons are and remain clear of the supported load.
- 9. NOT operate unless load is centered under hoist.
- NOT attempt to lengthen the load chain or repair damaged load chain.
- Protect the hoist's load chain from weld splatter or other damaging contaminants.
- NOT operate hoist when it is restricted from forming a straight line from hook to hook in the direction of loading.
- 13. NOT use load chain as a sling, or wrap chain around load.
- 14. NOT apply the load to the tip of the hook or to the hook latch.

- NOT apply load unless load chain is properly seated in the chain sprocket(s).
- NOT apply load if bearing prevents equal loading on all load supporting chains.
- 17. NOT operate beyond the limits of the load chain travel.
- NOT leave load supported by the hoist unattended unless specific precautions have been taken.
- NOT allow the load chain or hook to be used as an electrical or welding ground.
- NOT allow the load chain or hook to be touched by a live welding electrode.
- NOT remove or obscure the warnings on the hoist.
- NOT operate a hoist on which the safety placards or decals are missing or illegible.
- NOT operate a hoist unless it has been securely attached to a suitable support.
- NOT operate a hoist unless load slings or other approved single attachments are properly sized and seated in the hook endule.
- Take up slack carefully make sure load is balanced and load holding action is secure before continuing.
- Shut down a hoist that malfunctions or performs unusually and report such malfunction.
- 27. Make sure hoist limit switches function properly.
- 28. Warn personnel of an approaching load.

Motor Amperage of 1-Speed Holst Models

Hoist	1-Phase	Full Load Amps e 3-Phase				
Horsepower	115/230V	208V	230/460V	380V	575V	
1/4 HP	4.3/2.2	1.3	1.2/.6	.73	.35	
1/2 HP	7.6/3.8	2.3	2/1	1.2	.76	
1 HP	14/7*	3.6	3.2/1.6	1.9	1.2	

The 1HP, 115/230V models must have a dedicated power circuit rated for at least 20A, 125V when they are wired for 115V.

Motor Amperage of 2-Speed Holst Models

Hoist Horsepower		st/slow))		
(fast/slow)	208V	230V	ase Only 380V	460V	575V
.25/.083	1.2/1.3	1/1.1	.61/.67	.5/.55	.4/.44
.5/.17	1.9/2.4	1.7/2.1	1.1/1.3	.88/1.1	.7/.85
1/.33	3.6/4.3	3.2/3.8	1.9/2.3	1.6/1.9	1.3/1.5

NOTE: The above data is the nominal motor current at full load. At full load, it is not unusual for the hoist to draw in excess of the values listed when lifting. It is critical to ensure that the voltage at the reversing contactor does not drop below 10% of the nominal voltage while lifting a load. Low voltage will result in higher amp draw, damage to the hoist, and potential fire hazards. Coffing Hoists is not responsible for any damages caused by an inadequate power source.

POWER CORD PRECAUTIONS WITH 1-PHASE HOISTS Electric hoists require a sufficient power supply. The following are recommendations for the conductor gage size depending on the length, horsepower, and voltage.

Max! HP			of Power 12 AWG		
1/4	115V 230V	75 350	120 560	190 900	300
1/2	115V 230V	40 200	60 330	100 520	150 810
1	115V 230V	120	30 190	50 310	75 490

6 Installation Confirmation

Before operating the hoist, be sure to observe the following:

- a. ALWAYS DISCONNECT HOIST FROM POWER SUPPLY before removing electrical cover or when making any electrical connection in the hoist or pushbutton station.
- b. The ground wire (green colored) of the power cable should always be connected to a suitable ground by means of a screw or clamp. An alligator clip does not make a safe ground connection.
- c. When installing a three-phase hoist, make only temporary connections at the power source. Push the "UP" button and observe the direction of the load block. If it raises, the phasing is correct and permanent connections may be made at the power source. If the load block lowers when the "UP" button is pushed, release the button immediately since the limit switches will not operate to protect the hoist from over-travel. Reverse any two wires (except the green ground wire) at the power source to correct the load hook direction (phasing). Do not change connections in the hoist or pushbutton assembly.
- d. Make sure load chain is not twisted as it travels into the hoist.
- e. Operate hoist in a hanging position only. Hoist should be permitted to align itself for a straight line pull. Do not attempt to pull around corners.
- f. Read ASME-B30.16 Safety Code for Hoists.

Lubricate the chain

Check the function of the limit switches. Before placing hoist in operation, check limit switch settings. Operate pushbutton until near stop point and inch into stop limit, both top and bottom.

5 Installation Preparation

Before installing the hoist, check the following:

- a. Make sure all supporting structures and attaching devices are strong enough to hold your intended loads. If in doubt, consult a qualified structural engineer.
- Provide proper branch circuit protection for the hoist as recommended in the National Electrical Code.
- c. The power supply should be plus or minus 10% of the voltage specified on the motor nameplate. It is critical to use adequate sized power cables, especially with 1-phase hoists. Be sure du'al voltage hoists are connected or wired to correspond with your power supply
- d. Installation area must provide operating conditions for the operator including sufficient room for the operator and other personnel to stand clear of the load at all times.
- e. For installations where the slack chain hanging from the unit may be objectionable or hazardous, the use of a chain container is recommended

JLCET models come with a Coffing ET-A push-type trolley and an adaptable suspension lug. ET-A trolleys are made to run on American Standard I-Beams and Wide Flange Beams with flange widths up to 8". For assembly refer to the instructions provided with the trolley. The hoist lug must be centered with the sideplates (±1 washer). Due to the lug thickness, the washer placement between each sideplate and the lug may differ by 1 less washer than the generic instructions specify.

For installations where the trolley can not be slid onto the end of a beam, leave the load pin nuts loose enough to get the wheels around the beam flange. Check the flange width setting before tightening the nuts to 125 ft-lbs. Be sure to have end stops on your beam.

Operation

This hoist is designed for safe operation within the limits of its rated capacity. It is controlled by the "UP" and "DOWN" buttons of the pushbutton station. Two-speed models utilize 2-step buttons, the first step for operating the slow speed and the second for the fast speed. Although the Coffing JLC is built with many features to ensure safety, it is a requirement that a hoist operator understands safe lifting practices. The following points must be observed.

- 1. Do not overload the hoist.
- 2. Do not make extreme side pulls with the hoist.
- Operate the hoist only in a hanging position with adequate support.
- Do not "sling" the load hook and chain around the load. Use an approved sling.
- 5. Be sure there are no twists in the load chain as it travels into the hoist housing. This condition should be constantly checked on double chain hoists because it is possible for the load block to be "capsized" or turned over one or more times.
- Before raising a load, always check to see that it is held securely in the hook or sling chains, etc. Raise the load only until the load chain is taut and then double check the rigging before continuing to raise the load.
- Do not stand beneath a load! Do not move a load in such a manner as to endanger personnel.
- Don't lower into areas where visibility is obscured unless someone else is guiding the operation.
- 9. Use common sense at all times when operating a hoist.
- Do not operate if direction of hook travel is not the same as indicated on button being pushed.
- Do not operate unless hook travel limit devices function.
 Test without load each shift.
- 12. Do not operate when hoist is not centered over load.
- Do not operate if chain is not seated properly in sprockets or sheave grooves.
- 14. Do not operate damaged or malfunctioning hoist.

