

L-790 CRAWLER

SPECIFICATIONS

TURNTABLE SPECIFICATIONS Power Diesel Bore and Stroke Displacement Horsepower Power Take-Off Fuel Tank	
OPERATING CHARACTERISTICS	
Crane, Clamshell	
Line Pulls and Line Speeds: First Layer	Full Drum
Rear Drum 25" P.D. Lagging-30,177 # @ 157 F.P.M. 25" P.D. Lagging-29,561 # @ 157 F.P.M.	23,670 # @ 201 F.P.M.
Front Drum 25" P.D. Lagging-29,561 # @ 157 F.P.M.	23,186 # @ 201 F.P.M.
Dragline	
Line Pulls and Speeds: First Layer	Full Drum
Rear Drum 25" P.D. Lagging — 30,177 # @ 157 F.P.M.	23,670 # @ 201 F.P.M.
Front Drum 20"P.D. Lagging — 36,951 # @ 126 F.P.M.	24,437 # @ 190 F.P.M.
Rear Drum 25" P.D. Lagging — 63,975 # @ at converte	
Front Drum 20" P.D. Lagging — 78,337 # @ at converte	er stall
Swing Speed	0-4 R.P.M.
Controls	
Hoist and Derricking Clutches	Matered Air
Swing	
Other Equipment Boom Hoist Dual D Boom Operation Derricking, Lowering Gantry Pow Counterweight, (with Hydraulic Kit for Removal) Turntable Connection	rum, Spur Gear Driven , by Air-Operated Clutch ver Operated Back Hitch . 19,000 & 29,000 lbs.
CRAWLER SPECIFICATIONS	
Overall Length Overall Width Retracted Overall Width Extended Tread Shoe Width Tread Bearing Area Tread Shoe Width (opt.) Tread Bearing Area	
Crawler Travel Speeds (Available in both directions)	0. 0. 0.
Low Travel Speed High Travel Speed	

Gradeability 70%

Crawler Tread-Travel Lock Hydraulically operated multiple disc brake.

Crawler Controls Full hydraulic control of travel, steer and brakes.

Hydraulic motors on each side frame drive each track independently.

Oil-bath-enclosed reduction. — planetary final drive.

BOOM EQUIPMENT
Crane Boom - For lifting crane with offset, long tapered and hammerhead boom
Design Square-Tubular-Chord
Basic Length — Offset Boom Peak 40 ft.; 15-ft. top, 25-ft. base
Long Tapered Boom Peak 60 ft.; 35-ft. top, 25-ft. base
Hammerhead Boom Peak 28ft.; 3-ft. top, 25-ft. base
Type of Connection Pin-Connected
Number of Hoist Line Sheaves at Boom Head on Anti-Friction Bearings
Offset 5
Long Tapered 5
Hammerhead 5
(Additional Sheave Available for Offset and Hammerhead Tips)
Derricking and Lowering Power
Boom Hoist Drums 2
Harness Extending Cylinder Available
Jib 3
Two-Piece* Pin-Connected Type
*Extendible with 10-ft. and 20-ft. Center Sections to 60 ft.
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Lifting Crane Component Laggings
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Lifting Crane Component Laggings Two, 25 in. P.D. Full Width Floating Harness 16 Parts of Line
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APPROXIMATE SHIPPING WEIGHTS*

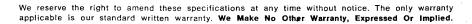
Weights: (Approximate Shipping Weights for Standard Equipped Machines with Basic Boom, No Extra Equipment)

Lifting Crane 169,000

Lifting Crane and Clamshell 170,000

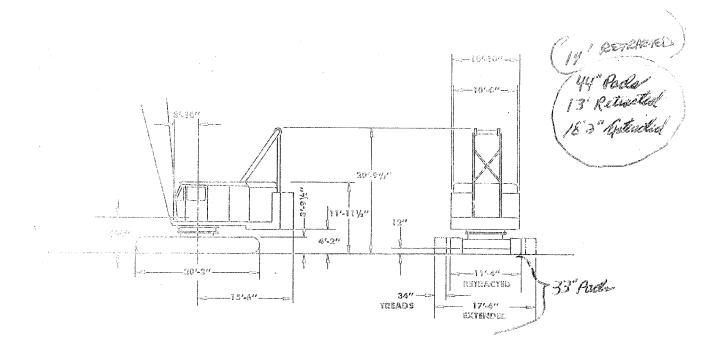
Lifting Crane and Dragline 174,000

Weight of unit may be reduced 48,000 lbs. by taking off removable counterweights—
(hydraulic removal kit standard). Additional reductions may be made by removal of side frames with treads and driving mechanism, 40,000 lbs.





PERMITS AUT IN DESIGNATION OF



REVIEW THE FOLLOWING NOTES BEFORE USING THIS SPECIFICATION TO DETERMINE ALLOWABLE BOOM LENGTHS. RADIUS AND WEIGHT OF LOAD IN POUNDS PERTAIN TO THIS MACHINE AS ORIGINALLY MANUFACTURED AND EQUIPPED.

NOTES:

- The rated loads (Column & & C) as determined by boom length, radius and weight of load apply to this machine as originally manufactured and equipped and as mounted on a Lorain manufactured L-790 crawler. THEY ARE WAXIMUM lifting capacities and comply with standards of the Power Crane & Shovel Association as issued by the U.S. Department of Commerce Commercial Standard CS90-58 and the SAE Crane Load Stability Yest Code 1765.
- Ia. DO NOT TIP the machine to determine the allowable loads. Kated load should not be exceeded. Rated loads are based on 75% and 85% of stability except where identified with bold face type in which case they are based on machinery and structural strength.
- 1b. The rated loads (Column & and D) do not exceed 85% stability.
- Ic. Do not exceed the rated capacities when lifting over a corner.
- 3. All taked touck are beauth on the machine being on a firm, level and authorise supporting anatose. Herein thing at, or near, rated loads, the activities of house the baseline of the firm two librarious. Furth scales Remarked with a commercial forely in two librarious. Furth scales Remarked a supply the training of conclitions such as well as the taken of the training of conclitions such as North and the fact and produce of the touchest of the conclitions of the taken of the concentration of the concentration.

- by the manufacturer BEFORE operating this machine, and Rules for Safe Operation of equipment should be adhered to at all times. Operators and supervisors should also acquaint themselves with Standard Safety Codes for Cranes, Derricks and Hoists, ASA-B 30.2-1943 (R-1952).
- All lifting must be done with gantry erected. When working conditions will not permit erected gantry, consult Lorain for proper capacity chart.
- Boom over 170 ft. long requires mast in addition to erected gantry. Mast with erected gantry may also be used with boom lengths of 170 ft. and under.
- 1g. Waximum counterweight suitable for lifting crane service only. CRAWLERS MUST BE FULLY EXTENDED.
- Standard countercoeight seitable for lifting orano, dragtine and circushe'l service.
- (ii) The total weight of handet plus lead used to copeed 40% of validation that continue to the standard continued the enterthist of the continued of the first feet or agine service in a Copies of the continued of the first feet or agine service in a Copies of the continued of the first feet of agine service.
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