

TURNING RADIUS
SCALE: 1/4"=1'-0"

GENERAL ARRANGEMENT
JCI MINEMASTER SCISSOR LIFT

JCI

John Clark Inc.
Denver, Colorado U.S.A.

DATE: 11/12/91

SCALE:

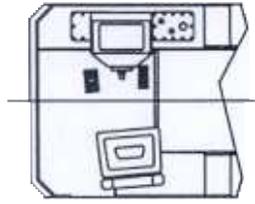
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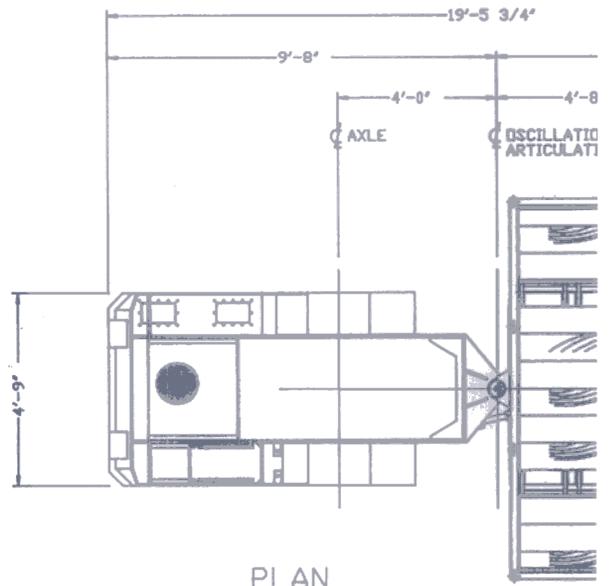
REV.

SHT 1 OF 1

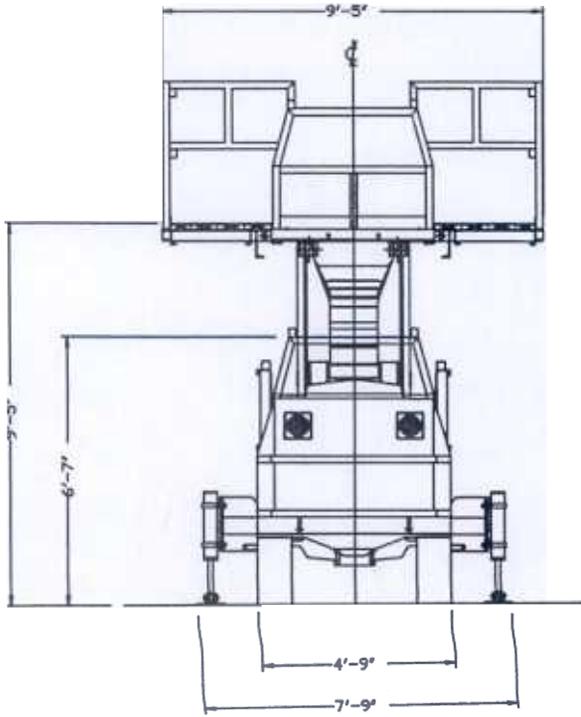
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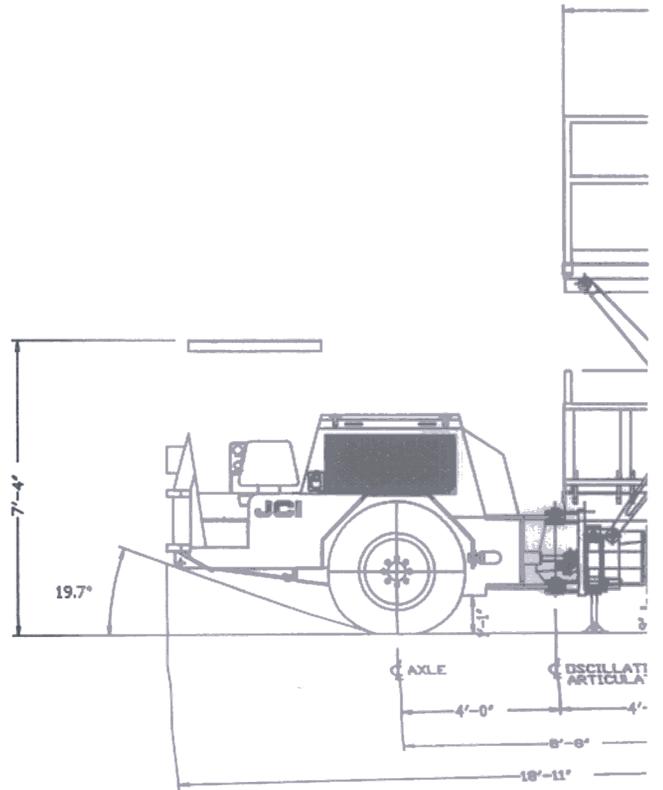
**OPERATOR AREA
DETAIL**



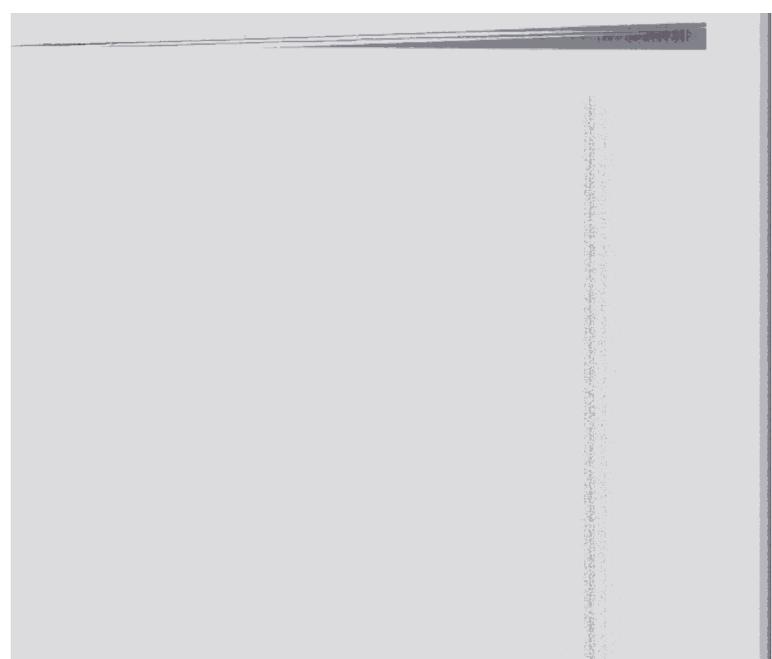
PLAN



FRONT ELEVATION



SIDE ELEVATION





Optional Equipment

**Rollover protection
Optional tires
Seat belt
Alternator, 75 amp
Fire suppression system
Altitude compensation
Fire extinguisher
Optional engines**

The manufacturer reserves the right to change the specifications or design of this machine at any time without notice.

Operator Arrangement

Side seating for maximum visibility and bi-directional tramming.

Weight (approx.)

Operating (estimated)

17,000 lbs. (7,711 kg.)

Standard Equipment

Independent front axle/rear axle service brake system
4 spring applied, hydraulically released park brake
Totally enclosed wet disc service brakes
Fail safe parking brake
Monostick steer controls
Hydraulic stick steering control
12 volt electric start
Protective engine intake screen
PTX purifier
Oil bath engine air cleaner
Battery with isolation switch
Alternator, 66 amp
Lights, 2 front, 2 rear
Transmission oil cooler
Foam padded operator seat - Grammer
Low oil pressure/high engine temperature audio/visual alarm system
Center hinge lock arm
Skid plate

Instrumentation, gauges as follows:

Voltage
Convertor oil pressure gauge
Convertor temperature gauge
Engine hourmeter
Engine oil pressure gauge
Engine temperature gauge
(2) Brake accumulator pressure gauges

Parking 4 wheel spring applied hydraulic release.

Emergency As per parking brake, automatic application by low transmission pressure, low front accumulator pressure or low rear accumulator pressure.

Steering

Hydraulic monostick steering for bi-directional operation. Machine center articulated with 2 hardened steel pins and self aligning ball bushings.

Turning angle 36° each direction; total of 72°

Oscillation

Rear frame oscillation, +/- 8° up or down; for a total of 16°. With heavy duty density bronze bushings and polyurethane thrust washers.

Hydraulic System

Cylinders Double acting with chrome stems

(1)	Steering cylinder	diameter	3.5" (8.9 cm)
(2)	Hoist cylinders	diameter	3.5" (8.9 cm)
(1)	Stabilizer cylinder	diameter	3.5" (8.9 cm)

Filters

Return line	25 micron
Suction line	100 mesh

Pump - Heavy duty gear type

Steer/hoist	17 GPM (77 LPM)
Brakes	10 GPM (45 LPM)

Fluid Capacities

Fuel tank	21 U.S. Gallons (95 L)
Hydraulic	30 U.S. Gallons (136 L)

**JCI
JOHN CLARK INC.
MACHINE SPECIFICATIONS
SCISSOR LIFT**

Engine (standard)

Make/Model	Deutz Diesel F4L912W
Mine Service Rating @ 2300 rpm	52 HP
Maximum torque @ 1300 rpm	182 ft/lbs. (22.9 MKG)
Bore and Stroke	3.94" (100mm x 4.72" (120mm))
Displacement	230 cubic in. (3.77 liters)
Number of Cylinders	Inline - 4
Cooling	Air
Electrical System	12 Volt
MSMA Ventilation Requirements	5000 CFM

Transmission/Torque Converter

Clark model HR18000 3 speed full power shift transmission with integrated torque convertor.

Vehicle Speed loaded, 1st	(calculated)	2.6 MPH
Vehicle Speed loaded, 2nd	(calculated)	5.0 MPH
Vehicle Speed loaded, 3rd	(calculated)	11.0 MPH

Axles

Ford D45 double reduction planetary gear sets inboard of axle.

Wheels and Tires

Demountable rims, tube type nylon, hard rock slick, with underground mine service compound.

Tire size, front and rear L5 9.50 x 20, 16 ply

Brakes

Service 4 wheel, fully enclosed multiple plate wet disc, fully hydraulic, separate systems front and rear.