

- Maximum capacity 20.000 kg
- Three section boom 8.0 19.0 m
- Maximum travel speed -40 km/h
- Maximum tip height 28.5 m

THE JONES NAME FOR CRANES



Je 620 specification

Power Unit

Engine

Cummins 4 cylinder turbocharged water cooled diesel developing 87 kW (116 bhp) at 2500 rpm.

Transmission

Torque converter with full power shift giving 6

forward and 6 reverse gears.

Chassis

Drive

4 x 4 x 4

Construction

Purpose designed box type section frame fabricated from high tensile steel plate.

Front Axle

Rear Axle

Rigidly mounted drive/steer axle with central differential and planetary reduction hubs. Full power steering

controlled by steering wheel in driver's cab.

Oscillating drive/steer axle with central differential and planetary reduction hubs. Hydraulic power steering with rear wheel steer indicator. Steering lock for road travel. Automatically operated rear axle lock

out.

Tyres

14,00 x 24 Earthmover type.

Brakes

Dual circuit air over hydraulic service brakes to all wheels. Spring applied air released parking brake

to front wheels.

Fuel Tank

140 Litres (31 Gallons)

Hydraulic **Pumps**

Three gear type hydraulic pump system. One 2 section pump and one single section. Total capacity

230 litres/min. Hydraulic oil cooler.

Hydraulic Oil

Tank capacity 290 litres (64 Gallons)

Outriggers

Four horizontal beam type outriggers with vertical jacking cylinders hydraulically operated from the

driver's cab

Crane Superstructure

Frame

Superstructure Fabricated high tensile steel structure onto which is mounted the telescopic jib, hoist unit, derricking cylinder and counterweight. The superstructure is capable of unlimited slewing in either direction and rotates on a slew bearing that is sealed against the ingress of dust and water.

Control Valves

Two valve bank units allowing simultaneous operation of the crane functions operated by joystick

levers in Driver's cab

Hoist Motion

Two speed hydraulic motor driven double reduction gear unit with 'fail safe' spring applied disc brake and counterbalance valve.

Double acting hydraulic cylinder with lock valve **Derrick Motion**

allowing Boom elevation from -20 to + 750.

Slew Motion

Hydraulic driven slew pinion through planetary double reduction gearbox. Multidisc type slew brake with hand operated positive slew lock operated from

driver's cab.

Boom Telescoping Double acting hydraulic cylinder with lock valve

mounted within the jib structure.

Main Boom

Three section boom of box type construction comprising base section and two fully powered automatically synchronised sections extending from 8.0 m to

19,0 m.

Hoist Rope

12 mm diameter x 150 m non spin.

Hook Block

Five sheave hook block for maximum duty

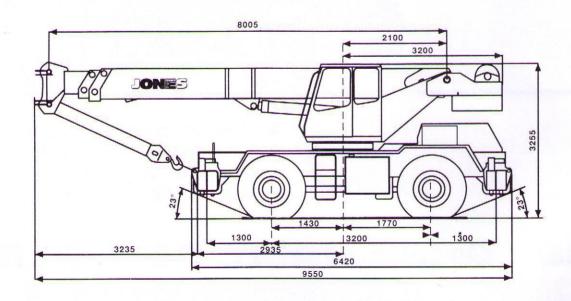
Electrical

System

24 Volt Electrical starting and charging circuits. Full

road lighting to EEC requirements.

Dimensions



Driver's Cab

Construction Fully enclosed all steel construction Driver's cab

rubber mounted on Crane Superstructure giving maximum all round vision through safety glass

windows.

Fittings Fully upholstered driver's seat with hydraulic damper,

adjustable for height rake and leg length. Cab front

screen wiper and rear view mirrors.

Instruments Full cab instrumentation for engine and transmission oil pressures and temperature, air pressures, fuel

and travel speeds, battery charging, road lighting

and direction indicators.

Controls Normal automotive road controls including steering

wheel for front axle and control switch for rear axle steer, transmission gear selection and forward/ reverse shift, high low speeds and 2/4 wheel drive. Crane controls for all functions are mounted in the

driver's cab.

Safety equipment

Standard Overhoist and overlowering limit switches. Lock

valves on all hydraulic cylinders with overload valve

on all systems.

Optional Audible and visual rated capacity indicator.

Paint High gloss finish Yellow superstructure and

operator's cab with grey chassis.

Performance Data.

OPERATING

Line Pull 3000 kg. (29 kN)

Line Speed

Boom Derrick Up

- Normal 0 - 66 m/min.

- Fast 0 - 90 m/min

Boom Derrick Down 18 seconds

Boom extension speed 24 m/min

 Siew Speed
 Up to 2,0 r.p.m.

 Travel Speed
 40 km/h max. (24.8 m.p.h.)

Turning Radius

- 2 wheel steer 8,80 m between kerbs

- 4 wheel steer 5,34 m between kerbs

GENERAL Weight with crane in normal

travelling order.

18 seconds

Axle Loads

- Front axle 8,900 kg. (19625 lbs.)

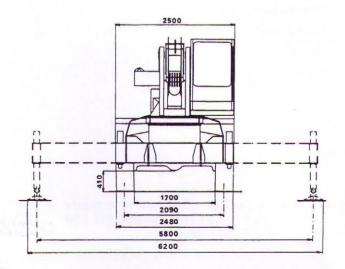
- **Rear axle** 9,000 kg. (19845 lbs.)

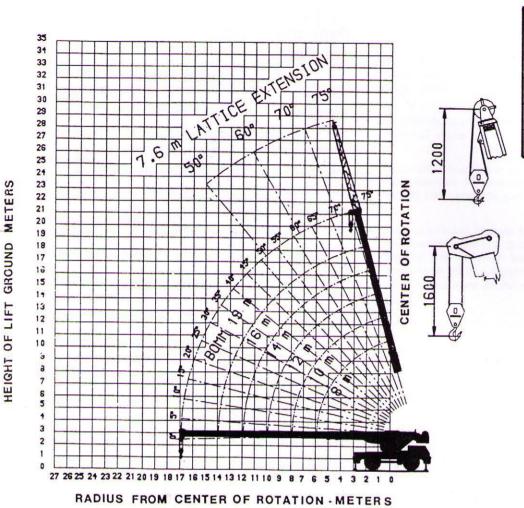
- Total weight 17,900 kg. (39470 lbs.)

Maximum gradient

- unladen 40%.

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Hookblocks				
Load kgs.	No. of Sheaves	No. of Lines	Weight Kgs	
20000	5	10	250	
4000	4000 1		80	
2000 Single Fall		1	80	

Optional equipment

8,0 m to 24,5 m four section boom with two fully powered sections and one-power positioned 5,5 m boom section

7.6 m lattice boom extension

8.0 m to 14,8 m double length lattice extension

1/2 fall hookblock (5 tonne capacity)

Single hook and pearweight (3 tonne capacity)

2 tonne capacity auxiliary hoist with cable

Spare wheel & tyre

Motion cut out equipment

Audible and visual rated capacity indicator

Jib working lights

Hazard warning lights

Tropical Glazing

Cab heater

Special painting to customers livery



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JG 620 Three section boom

Lifting capacities

Lifting capacities in kilogrammes to BS 1757: 1986 and DIN 15019.2

Working	360° LIFTING CAPACITIES ON OUTRIGGERS Main Boom Length					
Radius						
(m)	8,00	10,00	12,00	14,00	16,00	19,00
3	20000	18000	17000	16000		
3,5	17100	15500	15000	14500		
4	15000	13500	13500	13500	13000	
4,5	13300	13300	13000	12500	11000	9500
5	12000	12000	12000	11000	10000	8500
6		10000	10000	9600	9000	7700
7		8500	8500	7700	7700	6900
8			6800	6800	6500	6200
9			5400	5400	5400	5300
10				4400	4400	4300
11				3700	3700	3700
12					3200	3200
13					2700	2700
14						2300
15						2000
16						1700

FREE ON WHEEL CAPACITIES				
Working	Main		Over	
Radius	boom	Static	front	
(m)	length	360°	3 km/h	
3	8,0	7500	12100	
3,5	8,0	6000	9000	
4	8,0	4500	7500	
4,5	8,0	3700	6300	
5	8,0	2900	5300	
6	10,0	2000	3800	
7	10,0	1500	2800	
8	12,0	1000	2200	
9	12,0	800	1700	
10	14,0	550	1300	
11	14,0		1000	
12	14,0		850	

360° CAPACITIES	ON OUTRIGGERS
7,6 LATTICE E	XTENSION
Boom Angle	Capacity
75°	4000
70°	3300
60°	2500
50°	1500

- Specified capacities relate ONLY to the machine as originally manufactured and equipped and used in accordance with CP.3010 'Safe use of cranes'. Any modification invalidates this information.
- The capacities are in accordance with clause 9.1.3c 'STABILITY' of BS1757:1986 'Power Driven Mobile Cranes' with wind forces to tables 5A and 6A of BS 2573, and also comply with DIN 15019.2.
- Capacities are the gross maximum loads which may be freely suspended from the boom head with the crane standing level on a firm supporting surface.
- When determining the suspended load, the weights of hookblock, slings and any lifting attachment must be added to the weight to be lifted.
- When working with Lattice extension stowed main boom capacities must be reduced by 180 kg. Lattice extension erected in working position 620 kg.
- Free on wheels capacities depend on correct tyre pressure, type and condition.
- Radius is measured with the load suspended

- Capacities shown above the bold line are based on factors other than stability. For this reason stability must not be relied upon to indicate capacity.
- Under normal circumstances it is permissible to attempt to telescope the boom in or out with a load suspended, providing the load/radius is within the capacity shown in the duty chart at all times.
- 10 Capacities over the front apply only within 2,50 either side of the crane
- Suspended loads may be transported at speeds up to 3 km/h. Loads should be carried over the front of the crane whenever possible. Axle locks must be engaged before lifting free-on-wheels except over the front within 2,50 either side of the crane centre line.
- 12 The boom should not be operated even without a load, at any combination of length or radius where there is no lifting capacity indicated on the chart. To do so may result in loss of machine stability.

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