CRANES



- Maximum capacity 12.000 kg
- Two section boom 6.4 10.1 m
- Maximum travel speed 50 km/h
- Maximum tip height 19.5 m

THE JONES NAME FOR CRANES





JG 212 specification

Power unit and transmission

Engine

Four cylinder water cooled diesel engine producing 75 kW (100 b.h.p.) at 2500 rpm.

Torque converter with full powershift giving 6 forward

and 6 reverse gears

Chassis

Transmission

Drive

4x2x4

Construction

Purpose designed box type section frame fabricated

from high tensile steel plate.

Front axle

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

Controlled by steering wheel.

Rear Axle

Oscillating steer axle with manual oscillation lock out. Hydraulic power steering by tiller mounted in driver's

cab with rear steering indicator light.

Tyres

14.00 x 20

Brakes

Dual circuit air over hydraulic service brakes to all wheels. Cable operated disc type parking brake to

Fuel tank

205 litres (45 gallons)

Hydraulic pumps

Three gear type hydraulic pump system. One tandem pump and one single pump. Total capacity 333 litres/

min. Hydraulic oil cooler.

Hydraulic Oil

Tank capacity 430 litres (95 gallons)

Four independent cantilever type outrigger beams **Outriggers**

operated by double acting hydraulic cylinders

controlled from the driver's cab

Crane superstructure

Superstructure

frame

Welded high tensile steel structure on which is mounted the telescopic jib, hoist unit, derricking cylinders and counterweight. The superstructure is

capable of unlimited slewing in either direction and rotates on a slew bearing, which is sealed against

the ingress of dust and water.

Main Boom

Two section boom of box section type construction

comprising base and telescopic section extending

from 6.4 m to 10.1 m.

Control Valves

Individual control valves allowing independent or simultaneous operation of the crane functions operated by

control levers in the driver's cab.

Hoist motion

Gear type hydraulic motor driven through planetary double reduction gear unit with 'fail safe' spring applied

hoist brake and counterbalance valve.

Derrick motion

Single double acting hydraulic cylinder to give maximum control and fitted with integral pilot operated counterbalance check valves. Elevation 0° to 72°.

Slewing motion

Hydraulic driven slew pinion through planetary double reduction gear unit. Multidisc type slew brake. hand

operated slew lock.

Jib telescoping

motion

Double acting cylinder mounted within the jib structure, fitted with integral pilot operated counter

balance valve.

Hoist rope

13mm diameter x 110 m long

Hook block

Two sheave block for maximum duty

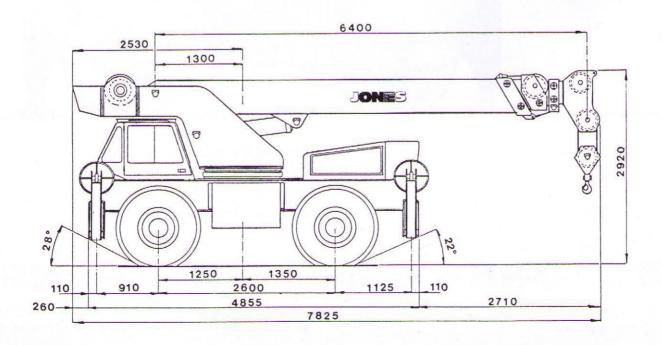
ELECTRICAL

System

24 volt electrical starting and charging circuits. Full

road lighting to EEC requirements.

Dimensions



Driver's Cab

Construction Fully enclosed all steel construction, two door driver's

cab mounted on crane chassis 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 temperatures, air pressure, fuel and travel speeds, battery charging, road lighting and

direction indicators.

Controls Normal automotive road controls including steering

wheel for front axle, tiller for rear steer, transmission gear selector, forward and reverse shift. Crane controls

for all functions are mounted in the cab.

Safety equipment

Standard Control lever lockout of hoist, derrick, telescope and

slew. Anti two block system.

Optional Audible and visual rated capacity indicator

Paint

Finish High gloss finish. Grey chassis and cab with yellow

superstructure.

Performance data

OPERATING

Line pull 3000 kg. (29 kN)

Single line speed (Max) 98 m/min

Boom Derrick Up 15 seconds

Boom Derrick Down 14 seconds

Boom extension 24 m/min

Slew Speed Up to 2,5 r.p.m.

Travel speed 50 km/h max.(31 m.p.h)

Turning radius 5,08 m (Four wheel steer)

GENERAL Weight with crane in normal

travelling order.

7,500 kg.

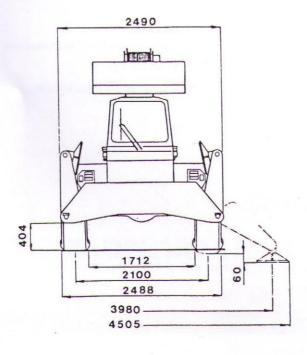
Axle Loads

Front axle

Rear Axle 6,500 kg.

Total 14,000 kg

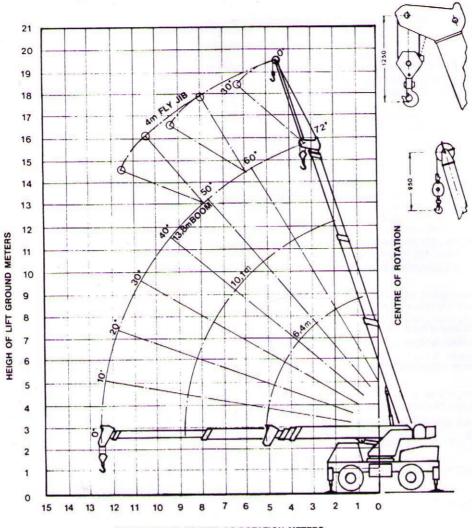
Maximum Gradient 40% (Unladen)



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Heights of lift



RADIUS FROM CENTRE OF ROTATION METERS

Optional equipment

3 section fully synchronised telescopic boom extending from 6,4 - 13,8 m

3 tonne single line hook

Rated capacity indicator

Four wheel drive in lieu of standard 2 wheel drive

4,0 m Fly jib with pendant overhoist limit switch

Boom mounted working lights

Motion cut outs operated in conjunction with rated capacity indicator

Cab heater

Warning beacons mounted on chassis cab

Cab mounted spotlight

Painting to customer's requirements



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Lifting capacities

Three section boom

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

Working Radius	360° LIFTING CAPACITIES ON OUTRIGGERS Main Boom Length in metres.								FREE ON WHEELS Capacities 14.00 x 20 - 18 PR Tyres.		
2,50	12000	10000	10000	10000					6,4	8000	6500
3,00	10000	10000	10000	9200	8300				6,4	6900	5900
3,50	8500	8500	8500	8500	8000	7800			6,4	6000	4900
4,00	8000	8000	8000	8000	7800	7600	7400		6,4	5200	3900
4,50	7300	7300	7300	7300	7300	7200	7100	6900	6,4	4600	3400
5,00	6000	6000	6000	6000	6000	6000	6000	6000	6,4	4000	2900
5,50		5000	5000	5000	5000	5000	5000	5000	7,0	3400	2400
6,00			4300	4300	4300	4300	4300	4300	8,0	2900	1900
6,50			3700	3700	3700	3700	3700	3700	8,0	2400	1600
7,00				3300	3300	3300	3300	3300	9,0	1900	1100
7,50				2900	2900	2900	2900	2900	9,0	1600	1000
8,00					2600	2600	2600	2600	10,1	1400	900
8,50					2300	2300	2300	2300	10,1	1200	800
9,00						2100	2100	2100			
10,00							1900	1990]		
11,00								1700			
12,00								1500]		

	4,0 m FLY JI	B CAPACITI	ES			
Boom	Jib Offset					
Angle	00	10°	20°			
72°	1800	1700	1500			
60°	1550	1450	1300			
50°	1200	1100	1000			

- 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 BS 1757:1986 'Power Driven Mobile Cranes' with wind forces to tables 5A and 6A of BS 2573, and also comply with DIN 15019.2.
- 3 Capacities are the gross maximum loads that may be freely suspended from the boom head with the crane standing on a firm supporting surface.
- When determining the suspended load, the weight of hook blocks, slings and any other lifting attachment must be added to the weight to be lifted. Five Fall hook block - 180 kgs. Single fall hook block - 38 kgs.
- 5 Free on wheel capacities depend on correct tyre pressure, type and condition.
- 6 Radius is measured with the load suspended.

- 7 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
- 8 Under normal circumstances it is permissible to attempt to telescope the boom in or out with a suspended load, providing the load/radius is within the capacity shown in the duty chart.
- 9 The boom should not be operated 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 stability of the crane.
- Suspended loads may be transported at speeds of up to 3 km/h. Loads should be carried over the front whenever possible. Axle locks must be engaged before lifting free-on-wheels- except over front within 2,5° either side of the crane centre line.
- 11 Capacities over front apply only within 2,5° either side of the centre line of the crane.

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