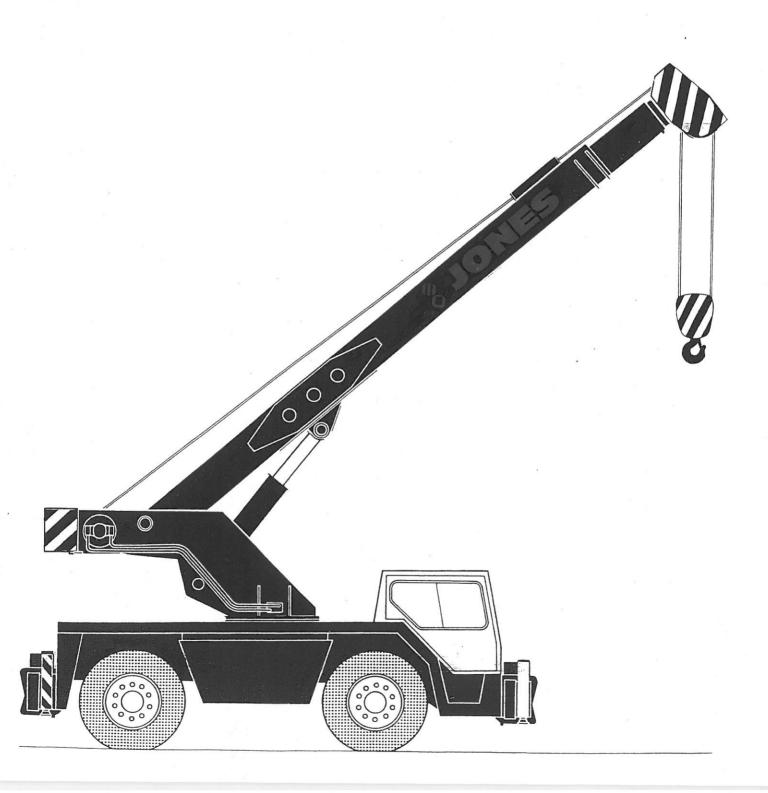
JONES IF 15A

diesel hydraulic mobile crane with telescopic jib

MAXIMUM LIFTING CAPACITY: 15 250 kg.



JONES IF15A specification

Power Unit

Engine

6 cylinder water cooled diesel engine developing 92,8kW (124bhp) at 2600 rpm.

Transmission

Allison fully automatic transmission with 4 forward and 1 reverse speed.

Crane superstructure

Superstructure frame

Welded high tensile steel structure on which is mounted the telescopic jib, hoist unit, hydraulic derricking cylinder and counterweight. The superstructure is capable of unlimited slewing in either direction and rotates on crossed roller bearing, which is sealed against the ingress of dust and water.

Chassis

Drive

4 x 2 x 4

Construction

Purpose designed, fabricated from high tensile steel rolled channel and heavy steel plate with integral top cladding.

Front axle

Drive steer with centre bevel reduction and epicyclic hub reductions providing 11.4 ratio. Power assisted steering, protected if power source is lost.

Rear axle

Leaf spring mounted steering axle fitted with axle locks for crane duty. Tiller controlled power steering. Steering locks for road travel.

Wheels and tyres

12.00 x 20 x 20 ply, singles front and rear.

Brakes

Dual circuit air operated service brakes to all wheels with 'fail safe' spring operated emergency and parking brake to front wheels. The system incorporates a multi-circuit protection and complies

requirements.

Fuel tank

Capacity 198 litres (44 gallons.)

Outriggers

Horizontal beam type with vertical jacking cylinders. Full hydraulic operation with controls in driver's cab.

Hydraulic pump

Tandem gear pump driven from transmission power take-off. Manual pump disconnect operable from cab. First section, 147 litres/min (32,5 gallons/min), supplies hoist, derrick and telescope motions. Second section, 31 litres/ min (7 gallons/min), supplies slew, outriggers and rear steer.

Control valves

Three bank unit controlling hoist, derrick and telescoping motions with additional single unit for slew motion, operated by control levers in driver's cab.

Hoist motion

Hydraulic motor driving through epicyclic gear reduction with counterbalance control on lowering, 'fail safe' hydromechanical disc brake, and machine grooved hoist drum suitable for multi-layer rope spooling.

Derrick motion

Double-acting hydraulic cylinder with integral pilot operated counterbalance safety check

Slew motion Hydraulic motor drive through epicyclic gear reduction to slew pinion. Counterbalance valve incorporated for smoothness and control.

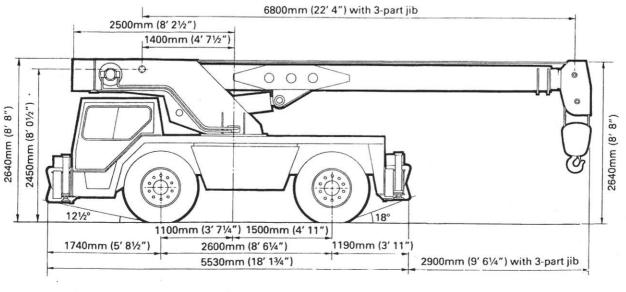
Jib

telescoping motion

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

balance safety check valve.

Dimensions





Overall length in travelling order 8430mm (27' 8") with 3-part jib

JONES F15A - 1F15AT lifting capacities

Three section jib Lifting capacities in kilogrammes BS 1757:1986 and DIN 15019.2*

| | | Jib closed 6,8m (22' 4") | | Jib extended | | Jib extended 11,64 to 16,5m (38' 3" – 54' 2") | | | * Jib fully extended with lattice extension | | | | | |
|-------|-------|--------------------------------|---------|-----------------------------------|---|---|------------|---------|---|------------|---------------------------|-----------|---------|----------|
| | | | | 6,8m to 11,64m (22' 4"-38' 3") | | | | | 23,0m (75′ 6″) | | +stinger 27,9m (91'6") | | | |
| | | blocked | free-or | -wheels | blocked | free-on- | wheels | blocked | free-on | wheels | 1 | blocked | 1 | blocke d |
| Ra | idius | 360° | 360° | over front | 360° | 360° | over front | 360° | 360° | over front | 190 | 360° | 6 | 360° |
| m | ft in | kg | kg | kg | kg | kg | kg | kg | kg | kg | 1 | kg | | kg |
| 2,50 | 8 2 | 15 250 | 7 500 | 8 000 | | | | | | | | S_175 | | |
| 2,75 | 9 0 | 15 250 | 7 000 | 7 750 | 15 250 | 7 000 . | 7 750 | | | | - | | | |
| 3,00 | 9 10 | 15 250 | 6 500 | 7 400 | 13 200 | 6 500 | 7 400 | 6 200 | | | | | | |
| 3,25 | 10 7 | 13 500 | 6 000 | 6 900 | 12 000 | 6 000 | 6 900 | 6 200 | | | | | 1 | |
| 3,50 | 11 6 | 12 400 | 5 450 | 6 300 | 11 000 † | 5 450 † | 6 300 † | 6 200 | 5 000 | 6 300 | | | | |
| 3,75 | 12 3 | 11 000 | 4 850 | 5 600 | 10 150 | 4 850 | 5 600 | 6 200 | 4 700 | -5 600 | | | | Sv. P |
| 4,00 | 13 1 | 10 000 | 4 400 | 5 100 | 9 300 | 4 400 | 5 100 | 6 200 | 4 400 | 5 100 | | | - 1 | |
| 4,50 | 14 9 | 8 400 | 3 650 | 4 250 | 8 150 | 3 650 | 4 250 | 6 000 † | 3 650 † | 4 250 † | | | | |
| 5,00 | 16 5 | 7 250 | 3 100 | 3 600 | 7 250 | 3 100 | 3 600 | 5 700 | 3 100 | 3 600 | | | 7 | 4,50 |
| 5,50 | 18 0 | | | | 6 600 | 2 650 | 3 100 | 5 400 | 2 650 | 3 100 | | | | |
| 6,00 | 19 8 | | | | 6 000 | 2 300 | 2 700 | 5 150 | 2 300 | 2 700 | | | | - |
| 7,00 | 23 0 | | | | 5 000 | 1 750 | 2 050 | 4 600 | 1 750 | 2 050 | 70 | · 2 300 a | at 7,51 | IR. |
| 8,00 | 26 3 | | | | 4 150 | 1 300 | 1 600 | 4 150 | 1 300 | 1 600 | 69 | . 2 140 | | |
| 9,00 | 29 6 | | | | 3 500 | 1 000 | 1 250 | 3 500 | 1 000 | 1 250 | 66 | 1 870 | | |
| 10,00 | 32 10 | | | | 2 900 | 750 | 950 | 2 900 | 750 | 950 | 63 | 1 650 | 69 | 1 000 |
| 11,00 | 36 1 | | | | | | | 2 400 | 600 | 750 | 60 | 1 470 | 66 | 870 |
| 12,00 | 39 4 | | | | | | | 2 000 | 450 | 600 | 57 | 1 360 | 64 | 750 |
| 13,00 | 42 8 | | | | | | | 1 700 | | 450 | 54 | 1 270 | 61 | 670 |
| 14,00 | 45 11 | | | | | | | 1 500 | | | 51 | 1 200 | 59 | 600 |
| 15,00 | 49 3 | | | | | | | 1 300 | | | 48 | 1 120 | 57 | 560 |
| 16,00 | 52 6 | | | | | | | | | | 44 | 1 080 | 55 | 520 |
| 17,00 | 55 9 | | | | | | | | | | 40 | 1 020 | 51 | 500 |
| 18,00 | 59 1 | | | | | | | | | | 36 | 1 000 | 49 | 480 |
| 19,00 | 62 4 | | | + | | | | | | | | | 46 | 460 |
| 20,00 | 65 7 | | | | Min. radius with specified jib fully extended. See "Height of Lift" diagram. | | | | | | | 44 | 440 | |
| 21,00 | 68 11 | | | | | | , | 7 | | | | | 41 | 420 |
| 22,00 | 72 2 | | | | | | | | | | | | 37 | 400 |

- *1. 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 BS2573, and also comply to DIN 15019.2.
- Capacities are the gross maximum loads which may be freely suspended from the jib head with the crane standing level on a firm supporting surface.
- When determining the suspended load, the weights of hook block, slings and any lifting attachments must be added to the weight to be lifted

Six fall block: 170kg. Single fall block: 32kg.

- 5. Radius is measured with the load suspended.
- Capacities free-on-wheels depend on correct tyre pressure, type, capacity and condition.

- 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 jib in or out with a load suspended, providing the load/radius is within the capacity shown in the duty chart at all times.
- Capacities over the front apply only within 5° either side of the crane centre line.
- 10. Suspended loads may be transported at speeds up to 5 km/h (3 m.p.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 5° either side of the crane centre line.
- This crane is not approved for use on pile driving or extraction operations.
- 12. The jib should not be operated even without a load, at an, 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.



Unit 3, Firsland Estate, Albourne, West Sussex, BN6 9JJ, England

JONES 1515A - 1515AT lifting capacities

Three section jib Lifting capacities in kilogrammes BS 1757:1986 and DIN 15019.2*

| | Jib closed | | · | Jib extended Jit | | lib extended | | * Jib fully extended with lattice extension | | | | | |
|-------------|------------------|---------|-------------------------------------|--|-------------------------------------|--------------|---------|---|------------|---------------------------|----------|---------|----------|
| | 6,8m (22′ 4″) | | 6,8m to 11,64m (22' 4" – 38' 3") | | 11,64 to 16,5m (38′ 3″ – 54′ 2″) | | | 23,0m (75′ 6″) | | +stinger 27,9m (91'6") | | | |
| | blocked | free-or | n-wheels | blocked | free-on- | wheels | blocked | free-on- | wheels | , | blocked | 1 / 1 | blocke d |
| Radius | 360° | 360° | over front | 360° | 360° | over front | 360° | 360° | over front | 1 | 360° | 6 | 360° |
| m ft in | kg | kg | kg | kg | kg | kg | kg | kg | kg | | kg | | kg |
| 2,50 8 2 | 15 250 | 7 500 | 8 000 | Land of | | | | | | | ** | | |
| 2,75 9 0 | 15 250 | 7 000 | 7 750 | 15 250 | 7 000 | 7 750 | | | | 14 - 1 | | 4.6 | |
| 3,00 9 10 | 15 250 | 6 500 | 7 400 | 13 200 | 6 500 | 7 400 | 6 200 | | | | | 1 | |
| 3,25 10 7 | 13 500 | 6 000 | 6 900 | 12 000 | 6 000 | 6 900 | 6 200 | | | | | 大是 | |
| 3,50 11 6 | 12 400 | 5 450 | 6 300 | 11 000 † | 5 450 † | 6 300 † | 6 200 | 5 000 | 6 300 | | 1000 | 3, 5, | 100 |
| 3,75 12 3 | 11 000 | 4 850 | 5 600 | 10 150 | 4 850 | 5 600 | 6 200 | 4 700 | 5 600 | | d (1) | | |
| 4,00 13 1 | 10 000 | 4 400 | 5 100 | 9 300 | 4 400 | 5 100 | 6 200 | 4 400 | 5 100 | | | 100 | 4 |
| 4,50 14 9 | 8 400 | 3 650 | 4 250 | 8 150 | 3 650 | 4 250 | 6 000 † | 3 650 † | 4 250 † | | | | tion. |
| 5,00 16 5 | 7 250 | 3 100 | 3 600 | 7 250 | 3 100 | 3 600 | 5 700 | 3 100 | 3 600 | 9 | 100 | I B | |
| 5,50 18 0 | 397 (602-1- | | | 6 600 | 2 650 | 3 100 | 5 400 | 2 650 | 3 100 | | · 24 - 6 | A. Iso | |
| 6,00 19 8 | | | | 6 000 | 2 300 | 2 700 | 5 150 | 2 300 | 2 700 | | | | |
| 7,00 23 0 | - | 1 | | 5 000 | 1 750 | 2 050 | 4 600 | 1 750 | 2 050 | 70 | - 2 300 | at 7,51 | /IR |
| 8,00 26 3 | | | | 4 150 | 1 300 | 1 600 | 4 150 | 1 300 | 1 600 | 69 | 2 140 | 1 | 17 |
| 9,00 29 6 | | | | 3 500 | 1 000 | 1 250 | 3 500 | 1 000 | 1 250 | 66 | 1 870 | | |
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| 14,00 45 11 | | | | | | | 1 500 | | | 51 | 1 200 | 59 | 600 |
| 15,00 49 3 | | | 1 | | | | 1 300 | | | 48 | 1 120 | 57 | 560 |
| 16,00 52 6 | | | | | | | | | | 44 | 1 080 | 55 | 520 |
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| 19,00 62 4 | | | T . | † Min. radius with specified jib fully extended. | | | | | | 46 | 460 | | |
| 20,00 65 7 | | | | See "Height of Lift" diagram. | | | | | | | | 44 | 440 |
| 21,00 68 11 | | | | 1 | I | 1 | 1 | | | | | 41 | 420 |
| 22,00 72 2 | 1 | | | | | | | | | | | 37 | 400 |

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Jib Equipment

Main jib

Basic jib 6,8m (22' 4") extending to 16,5m (54' 2"). Three part box section construction comprising:- base section and two fully powered sections operated by a two-cylinder double-acting unit within the jib structure.

Lattice extension jib (optional)

6,5m (21' 4") long, with stinger extending to 11,4m (37' 5"), stowed alongside the main

jib for road travel.

Hoist rope

13mm diameter, 125m (410') long.

Hook block

Three sheave block for maximum duty.

Electrical

System

12-volt negative earth.

Equipment

Alternator for starting and charging circuits, 12-volt 125 A/hr battery, full road lighting to EEC requirements.

Driver's cab

Construction

Large automotive type cab with easy access through side doors. Fully enclosed steel structure with maximum all-round vision through safety glass windows.

Fittings

Upholstered adjustable driver's upholstered passenger's seat, cab heater/ demister, front screen wiper, internal light, rear view mirrors and front screen washers. Reversible passenger's seat with additional controls.

Instruments

Speedometer, odometer, fuel gauges: engine oil, transmission oil and coolant water temperature gauges: engine oil and air pressure gauges.

Warning lights for battery charging, low air pressure, direction indicators, rear fog lights, hazard warning lights, power take-off and axle

lock engagement.

Controls

Normal automotive road controls. Crane controls for all functions are mounted in the

driver's cab.

Safety equipment

Standard

Overhoist cut-out. Pressure relief valve in main hydraulic circuit. Integral pilot operated safety check valves fitted to derricking, telescoping and jacking hydraulic cylinders.

Optional

Audible and visual rated capacity indicator.

Overhoist/overload cut-outs.

Paint finish

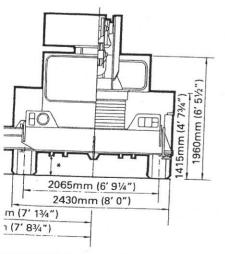
High gloss finish - yellow cab, black super-structure, black

Axle loads and total weight

with crane in normal travelling order.

| | 3-piece jib | | | |
|--------------|-------------|-------------------------|--|--|
| | kg | 20594 13671 34265 | | |
| Front axle | 9340 | | | |
| Rear axle | 6200 | | | |
| Total weight | 15540 | | | |
| | | | | |

To meet manufacturing conditions and developments in design, the illustrations and information in this publication are subject to modification without notice. The information contained in this specification must not be incorporated into any contractural documentation without prior agreement of GCM 600 Limited.



um ground clearance 280mm (11")

Performance data

Hoist 6 falls

Single line

Laden

8,8m/min (29ft/min) 52,7m/min (173ft/min)

Unladen 10,2m/min (33ft/min)

60,6m/min (199ft/min)

2750kg Line pull

Derrick up or down between 70° and horizontal: 18,3 seconds.

Jib extension or retraction: 36,6 seconds with 3-piece jib.

Slew: up to 3 r.p.m.

Maximum negotiable gradient: 25% (1:4) unladen.

Turning circle: 10,0m (32' 9") between kerbs.

Road speed: 46km/h (28,3 m.p.h.).

Carry deck capacity: 6 tonnes maximum.

Jib Equipment

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Paint finish

High gloss finish - yellow cab, black super-structure, black chassis.

Axle loads and total weight

with crane in normal travelling order.

| | 3-piece jib | | | | |
|--------------|-------------|----------------------|--|--|--|
| | kg | 15 20594 13671 | | | |
| Front axle | 9340 | | | | |
| Rear axle | 6200 | | | | |
| Total weight | 15540 | 34265 | | | |
| | | | | | |

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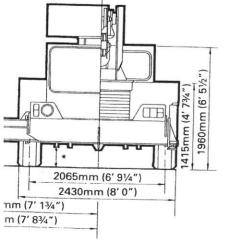
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