

ROUGH TERRAIN CRANE

GR-300N

(Power Tilt Jib)

JAPANESE SPECIFICATIONS

GR

| SPEC. NO. | OUTLINE |
|-----------------|--------------------------------|
| GR-300N-1-00101 | Winch without free-fall device |
| GR-300N-1-00102 | Winch with free-fall device |

Control No. JA-02

GR-300N

CRANE SPECIFICATIONS

CRANE CAPACITY

| | | | |
|------------|----------|---------|---------------|
| 7.7m Boom | 30,000kg | at 3.0m | (8part-line) |
| 12.7m Boom | 19,000kg | at 5.0m | (6part-line) |
| 17.7m Boom | 17,000kg | at 4.5m | (6part-line) |
| 22.7m Boom | 12,000kg | at 6.0m | (4part-line) |
| 27.7m Boom | 9,000kg | at 7.0m | (4part-line) |
| 30.5m Boom | 8,000kg | at 7.0m | (4part-line) |
| 32.0m Boom | 7,000kg | at 7.0m | (4part-line) |
| 6.5m Jib | 3,200kg | at 72° | (1part-line) |
| 11.0m Jib | 2,000kg | at 70° | (1part-line) |
| Single top | 4,000kg | | (1part-line) |

MAX. LIFTING HEIGHT

| | |
|------|-------|
| Boom | 32.8m |
| Jib | 43.9m |

MAX. WORKING RADIUS

| | |
|------|-------|
| Boom | 29.5m |
| Jib | 32.5m |

BOOM LENGTH

7.7m - 32.0m

BOOM EXTENSION

24.3m

BOOM EXTENSION SPEED

24.3m/77s

JIB LENGTH

6.5m, 11.0m

MAIN WINCH SINGLE LINE WINDING SPEED

120m/min (4th layer)

MAIN WINCH HOOK SPEED

15.0m/min (8 part-line)

MAIN WINCH SINGLE LINE UNWINDING SPEED

<Reference>

Standard 110m/min (4th layer)
High speed 200m/min (4th layer) --- only on cranes fitted with winches without free-fall device

AUXILIARY WINCH SINGLE LINE WINDING SPEED

120m/min (4th layer)

AUXILIARY WINCH HOOK SPEED

120m/min (1 part-line)

AUXILIARY WINCH SINGLE LINE UNWINDING SPEED

<Reference>

Standard 110m/min (4th layer)
High speed 200m/min (4th layer) --- only on cranes fitted with winches without free-fall device

BOOM ELEVATION ANGLE

-8° - 83°

BOOM ELEVATION SPEED

-8° - 83°/47s

SWING ANGLE

360° continue

SWING SPEED

2.5min⁻¹ (rpm)

WIRE ROPE

| | |
|------------------|---|
| Main Winch: | 16mm x 182m (Diameter x Length) Spin-resistant wire rope |
| Auxiliary Winch: | 16mm x 98m (Diameter x Length) Spin-resistant wire rope |

BOOM

6-section hydraulically telescoping boom of box construction
(stages 2,3: synchronized; stages 4,5,6: synchronized)

BOOM EXTENSION

2 double-acting hydraulic cylinders

JIB

Two-stage type stored alongside boom (with 2nd stage being a pull-out type)

Hydraulic non-stage offset (5°-60°) type

SINGLE TOP

Mounted and fixed on the top boom section.

HOIST

Driven by hydraulic motor and via spur gear reducer.

Automatic brake

High-speed unwind function - only on cranes fitted with winches without free-fall device

Free-fall device (with foot brake) - only on cranes fitted with winches with free-fall device

2 single winches

With flow regulator valve with pressure compensation

BOOM ELEVATION

1 double-acting hydraulic cylinders

With flow regulator valve with pressure compensation

SWING

Hydraulic motor driven planetary gear reducer

Swing bearing

Negative brake

OUTRIGGERS

Fully hydraulic Htype (floats mounted integrally)

Slides and jacks each provided with independent operation device.

Fully extended width 6.7m

Middle extended width 6.3m, 5.2m, 3.8m

Minimum extended width 2.08m

OPERATION METHOD

Hydraulic pilot valve operation

MAX. VERTICAL LOAD CAPACITY OF OUTRIGGER

28.4t

POWER TAKE-OFF

PTO wet multi-plate clutch

HYDRAULIC PUMPS

2 variable piston pumps

Gear pumps + piston pumps

HYDRAULIC OIL TANK CAPACITY

430 liters

SAFETY DEVICES

Automatic moment limiter (AML)

Swing automatic stop device

Elevation slow down and stop device

Over-winding cutout device

Working area control device

Free-fall interlock device - only on cranes fitted with winches with free-fall device

Outrigger extension width detector

Level gauge

Hook safety latch

Hydraulic safety valve

Telescopic counterbalance valve

Elevation counterbalance valve

Power tilt counterbalance valve

Jack pilot check valve

EQUIPMENT

Air-conditioner with dehumidifier

Hydraulic oil temperature indication lamp

Radio

Oil cooler/Visual-type winch drum rotation indicator

Operation pedals

ISO arrangement: for telescoping/auxiliary hoisting

TADANO arrangement: for elevating/telescoping

Television (option)

CARRIER SPECIFICATIONS

ENGINE

Model MITSUBISHI 6M60 - TLE2A (with turbo charger and air cooler)
Type 4-cycle, 6-cylinder, direct-injection, water-cooled diesel engine
Piston displacement 7,545cc
Max. output 200kW (272PS) at 2,700min⁻¹(rpm)
Max. torque 785N·m(80.0kgf·m) at 1,400⁻¹(rpm)

TORQUE CONVERTER

3-element, 1-stage unit (with automatic lock-up mechanism)

TRANSMISSION

Automatic and manual transmission
Power shift type (wet multi-plate clutch)
4 forward and 1 reverse speeds (with Hi/Low settings)

REDUCER

Axle dual-ratio reduction

DRIVE

2-wheel drive (4X2) / 4-wheel drive (4X4) selection

FRONT AXLE

Full floating type

REAR AXLE

Full floating type

SUSPENSION

Front Hydro-pneumatic suspension (with hydraulic lock cylinder)

Rear Hydro-pneumatic suspension (with hydraulic lock cylinder)

STEERING

Fully hydraulic power steering
With reverse steering correction mechanism

BRAKE SYSTEM

Service Brake
Hydro-pneumatic disk brake

Parking Brake
Mechanically operated, internal expanding duo-servo shoe type acting on drum at transmission case rear.

Auxiliary Brake
Hydrodynamic retarder
Electro-pneumatic operated exhaust brake.
Auxiliary braking device for operations

FRAME

Welded box-shaped structure

ELECTRIC SYSTEM

12 V DC. 2 batteries of 24V (120Ah)

FUEL TANK CAPACITY

300 liters

TIRES

Front 385/95R25 170E ROAD
Rear 385/95R25 170E ROAD

CAB

One-man type
With interior equipment
Liquid filled rubber mounted type
Fully adjustable foldable seat
(with headrest, armrest and seat belt)
Adjustable handle (tilt, telescoping)
Intermittent type windshield/roof wiper (with washer)
Power window
Side visor

SAFETY DEVICES

Emergency steering device
Suspension lock device
Rear wheel steering lock device
Engine over-run alarm
Overshift prevention device
Parking brake alarm
Powered mirror for right side of boom
Monitor TV for left side of boom

EQUIPMENT

Centralized oiling device

GENERAL DATA

DIMENSIONS

| | |
|----------------|---------|
| Overall length | 9,620mm |
| Overall width | 2,490mm |
| Overall height | 3,495mm |
| Wheel base | 3,550mm |
| Tread Front | 2,060mm |
| Tread Rear | 2,060mm |

WEIGHTS

| | |
|----------------------|----------|
| Gross vehicle weight | |
| Total | 28,275kg |
| Front | 14,140kg |
| Rear | 14,135kg |

PERFORMANCE

| | |
|------------------------------|--|
| Max. traveling speed | 49km/h |
| Gradeability (tan θ) | 0.57 |
| Min. turning radius | 5.1m (4-wheel steering) 8.6m (2-wheel steering) |

Note:

This crane is covered by Class D Conditions under the Basic Running Conditions of the Road Traffic Act.

TOTAL RATED LOADS

(1) With outriggers set
[BOOM]

Unit: ton

| Outriggers fully extended (6.7m) -360°- | | | | | | | |
|---|--------|-------|-------|-------|-------|-------|-------|
| A \ B | 7.7m | 12.7m | 17.7m | 22.7m | 27.7m | 30.5m | 32.0m |
| 2.5m | 30.0 | 19.0 | 17.0 | 12.0 | | | |
| 3.0m | 30.0 | 19.0 | 17.0 | 12.0 | | | |
| 3.5m | 27.8 | 19.0 | 17.0 | 12.0 | 9.0 | | |
| 4.0m | 25.0 | 19.0 | 17.0 | 12.0 | 9.0 | | |
| 4.5m | 22.5 | 19.0 | 17.0 | 12.0 | 9.0 | 8.0 | 7.0 |
| 5.0m | 20.3 | 19.0 | 16.2 | 12.0 | 9.0 | 8.0 | 7.0 |
| 5.5m | | 18.5 | 15.2 | 12.0 | 9.0 | 8.0 | 7.0 |
| 6.0m | | 17.0 | 14.3 | 12.0 | 9.0 | 8.0 | 7.0 |
| 6.5m | | 15.4 | 13.5 | 11.5 | 9.0 | 8.0 | 7.0 |
| 7.0m | | 14.0 | 12.8 | 11.0 | 9.0 | 8.0 | 7.0 |
| 8.0m | | 11.6 | 11.5 | 9.9 | 8.4 | 7.4 | 6.7 |
| 9.0m | | 9.2 | 9.25 | 8.9 | 7.7 | 6.8 | 6.4 |
| 10.0m | | 7.3 | 7.4 | 8.0 | 7.1 | 6.2 | 5.9 |
| 11.0m | | | 6.1 | 6.7 | 6.55 | 5.7 | 5.4 |
| 12.0m | | | 5.1 | 5.7 | 6.0 | 5.3 | 5.0 |
| 13.0m | | | 4.25 | 4.8 | 5.2 | 4.9 | 4.55 |
| 14.0m | | | 3.55 | 4.15 | 4.5 | 4.6 | 4.25 |
| 15.0m | | | 3.0 | 3.6 | 3.9 | 4.0 | 3.95 |
| 16.0m | | | | 3.05 | 3.45 | 3.55 | 3.7 |
| 17.0m | | | | 2.65 | 3.0 | 3.15 | 3.3 |
| 18.0m | | | | 2.25 | 2.6 | 2.75 | 2.9 |
| 19.0m | | | | 2.0 | 2.3 | 2.4 | 2.55 |
| 20.0m | | | | 1.7 | 2.05 | 2.15 | 2.3 |
| 22.0m | | | | | 1.55 | 1.7 | 1.8 |
| 24.0m | | | | | 1.15 | 1.25 | 1.4 |
| 26.0m | | | | | | 0.95 | 1.1 |
| 28.0m | | | | | | 0.7 | 0.8 |
| 29.5m | | | | | | | 0.6 |
| a (°) | 0 ~ 83 | | | | | | |

A= Boom length B= Working radius
a= Boom angle range (for the unladen condition)

[BOOM]

Unit:ton

| | | Outriggers middle extended (6.3m) | | | | | -Over sides- | |
|-------|--------|-----------------------------------|-------|-------|-------|-------|--------------|--|
| A \ B | 7.7m | 12.7m | 17.7m | 22.7m | 27.7m | 30.5m | 32.0m | |
| 2.5m | 30.0 | 19.0 | 17.0 | 12.0 | | | | |
| 3.0m | 30.0 | 19.0 | 17.0 | 12.0 | | | | |
| 3.5m | 27.8 | 19.0 | 17.0 | 12.0 | 9.0 | | | |
| 4.0m | 25.0 | 19.0 | 17.0 | 12.0 | 9.0 | | | |
| 4.5m | 22.5 | 19.0 | 17.0 | 12.0 | 9.0 | 8.0 | 7.0 | |
| 5.0m | 20.3 | 19.0 | 16.2 | 12.0 | 9.0 | 8.0 | 7.0 | |
| 5.5m | | 18.5 | 15.2 | 12.0 | 9.0 | 8.0 | 7.0 | |
| 6.0m | | 17.0 | 14.3 | 12.0 | 9.0 | 8.0 | 7.0 | |
| 6.5m | | 15.0 | 13.5 | 11.5 | 9.0 | 8.0 | 7.0 | |
| 7.0m | | 13.2 | 12.8 | 11.0 | 9.0 | 8.0 | 7.0 | |
| 8.0m | | 10.5 | 10.7 | 9.9 | 8.4 | 7.4 | 6.7 | |
| 9.0m | | 8.5 | 8.4 | 8.9 | 7.7 | 6.8 | 6.4 | |
| 10.0m | | 6.7 | 6.8 | 7.6 | 7.1 | 6.2 | 5.9 | |
| 11.0m | | | 5.55 | 6.3 | 6.55 | 5.7 | 5.4 | |
| 12.0m | | | 4.6 | 5.3 | 5.7 | 5.3 | 5.0 | |
| 13.0m | | | 3.8 | 4.5 | 4.9 | 4.9 | 4.55 | |
| 14.0m | | | 3.2 | 3.8 | 4.2 | 4.35 | 4.25 | |
| 15.0m | | | 2.65 | 3.25 | 3.6 | 3.75 | 3.85 | |
| 16.0m | | | | 2.8 | 3.1 | 3.3 | 3.5 | |
| 17.0m | | | | 2.35 | 2.7 | 2.85 | 3.05 | |
| 18.0m | | | | 2.05 | 2.35 | 2.5 | 2.7 | |
| 19.0m | | | | 1.75 | 2.05 | 2.2 | 2.4 | |
| 20.0m | | | | 1.5 | 1.7 | 1.9 | 2.1 | |
| 22.0m | | | | | 1.3 | 1.45 | 1.65 | |
| 24.0m | | | | | 0.95 | 1.05 | 1.2 | |
| 26.0m | | | | | | 0.8 | 0.9 | |
| 28.0m | | | | | | 0.6 | 0.65 | |
| 29.0m | | | | | | | 0.55 | |
| a (°) | 0 ~ 83 | | | | | | | |

A= Boom length B= Working radius
a= Boom angle range (for the unladen condition)

[BOOM]

Unit:ton

| | | Outriggers middle extended (5.2m) | | | | | -Over sides- | |
|-------|--------|-----------------------------------|-------|-------|--------|---------|--------------|--|
| A \ B | 7.7m | 12.7m | 17.7m | 22.7m | 27.7m | 30.5m | 32.0m | |
| 2.5m | 30.0 | 19.0 | 17.0 | 12.0 | | | | |
| 3.0m | 30.0 | 19.0 | 17.0 | 12.0 | | | | |
| 3.5m | 27.8 | 19.0 | 17.0 | 12.0 | 9.0 | | | |
| 4.0m | 25.0 | 19.0 | 17.0 | 12.0 | 9.0 | | | |
| 4.5m | 22.5 | 19.0 | 17.0 | 12.0 | 9.0 | 8.0 | 7.0 | |
| 5.0m | 19.0 | 19.0 | 16.2 | 12.0 | 9.0 | 8.0 | 7.0 | |
| 5.5m | | 16.0 | 15.2 | 12.0 | 9.0 | 8.0 | 7.0 | |
| 6.0m | | 13.4 | 13.4 | 12.0 | 9.0 | 8.0 | 7.0 | |
| 6.5m | | 11.5 | 11.5 | 11.5 | 9.0 | 8.0 | 7.0 | |
| 7.0m | | 10.0 | 9.9 | 10.9 | 9.0 | 8.0 | 7.0 | |
| 8.0m | | 7.6 | 7.6 | 8.5 | 8.4 | 7.4 | 6.7 | |
| 9.0m | | 6.0 | 6.0 | 6.8 | 7.3 | 6.8 | 6.4 | |
| 10.0m | | 4.8 | 4.8 | 5.6 | 6.0 | 6.1 | 5.9 | |
| 11.0m | | | 3.9 | 4.6 | 5.0 | 5.15 | 5.25 | |
| 12.0m | | | 3.15 | 3.8 | 4.2 | 4.3 | 4.5 | |
| 13.0m | | | 2.55 | 3.2 | 3.5 | 3.7 | 3.8 | |
| 14.0m | | | 2.05 | 2.65 | 2.95 | 3.15 | 3.25 | |
| 15.0m | | | 1.65 | 2.2 | 2.55 | 2.7 | 2.8 | |
| 16.0m | | | | 1.85 | 2.15 | 2.35 | 2.45 | |
| 17.0m | | | | 1.55 | 1.8 | 2.0 | 2.1 | |
| 18.0m | | | | 1.25 | 1.55 | 1.7 | 1.8 | |
| 19.0m | | | | 1.0 | 1.3 | 1.45 | 1.55 | |
| 20.0m | | | | 0.8 | 1.1 | 1.2 | 1.3 | |
| 22.0m | | | | | 0.7 | 0.8 | 0.95 | |
| 24.0m | | | | | 0.4 | 0.5 | 0.65 | |
| 26.0m | | | | | | | 0.4 | |
| | | | | | | | | |
| | | | | | | | | |
| a (°) | 0 ~ 83 | | | | 6 ~ 83 | 26 ~ 83 | 27 ~ 83 | |

A= Boom length B= Working radius
a= Boom angle range (for the unladen condition)

[BOOM]

Unit:ton

| | | Outriggers middle extended (3.8m) | | | | | -Over sides- | |
|-------|--|-----------------------------------|-------|-------|---------|---------|--------------|---------|
| B \ A | | 7.7m | 12.7m | 17.7m | 22.7m | 27.7m | 30.5m | 32.0m |
| 2.5m | | 30.0 | 19.0 | 17.0 | 12.0 | | | |
| 3.0m | | 28.0 | 19.0 | 17.0 | 12.0 | | | |
| 3.5m | | 22.5 | 19.0 | 17.0 | 12.0 | 9.0 | | |
| 4.0m | | 17.2 | 17.7 | 16.0 | 12.0 | 9.0 | | |
| 4.5m | | 13.3 | 13.9 | 13.8 | 12.0 | 9.0 | 8.0 | 7.0 |
| 5.0m | | 10.8 | 11.4 | 11.4 | 11.5 | 9.0 | 8.0 | 7.0 |
| 5.5m | | | 9.5 | 9.5 | 10.3 | 9.0 | 8.0 | 7.0 |
| 6.0m | | | 8.1 | 8.1 | 8.8 | 9.0 | 8.0 | 7.0 |
| 6.5m | | | 6.9 | 6.9 | 7.65 | 8.1 | 7.8 | 7.0 |
| 7.0m | | | 5.95 | 5.95 | 6.6 | 7.1 | 7.15 | 7.0 |
| 8.0m | | | 4.5 | 4.5 | 5.2 | 5.6 | 5.7 | 5.8 |
| 9.0m | | | 3.45 | 3.45 | 4.05 | 4.5 | 4.6 | 4.7 |
| 10.0m | | | 2.6 | 2.6 | 3.25 | 3.65 | 3.8 | 3.9 |
| 11.0m | | | | 2.0 | 2.6 | 3.0 | 3.1 | 3.2 |
| 12.0m | | | | 1.5 | 2.05 | 2.4 | 2.55 | 2.65 |
| 13.0m | | | | 1.1 | 1.6 | 1.95 | 2.1 | 2.2 |
| 14.0m | | | | 0.7 | 1.25 | 1.55 | 1.7 | 1.85 |
| 15.0m | | | | 0.4 | 0.95 | 1.25 | 1.4 | 1.5 |
| 16.0m | | | | | 0.7 | 1.0 | 1.15 | 1.25 |
| 17.0m | | | | | 0.45 | 0.75 | 0.9 | 1.0 |
| 18.0m | | | | | | 0.5 | 0.65 | 0.8 |
| 19.0m | | | | | | | 0.5 | 0.65 |
| 20.0m | | | | | | | | 0.45 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| a (°) | | 0 ~ 83 | | | 34 ~ 83 | 45 ~ 83 | 48 ~ 83 | 48 ~ 83 |

A= Boom length B= Working radius
a= Boom angle range (for the unladen condition)

[JIB]

Unit:ton

| Outriggers fully extended (6.7m) -360°- | | | | | | | | | | | | | | | | |
|---|-----------------------|------|------|------|---------|-----|---------|------|------------------------|------|------|------|---------|------|------|------|
| C | 32.0m Boom + 6.5m Jib | | | | | | | | 32.0m Boom + 11.0m Jib | | | | | | | |
| | 5° | | 25° | | 45° | | 60° | | 5° | | 25° | | 45° | | 60° | |
| E (°) | B(m) | M | B(m) | M | B(m) | M | B(m) | M | B(m) | M | B(m) | M | B(m) | M | B(m) | M |
| 83 | 4.8 | 3.2 | 6.6 | 2.3 | 7.8 | 1.7 | 8.4 | 1.6 | 5.8 | 2.0 | 9.2 | 1.4 | 11.5 | 1.0 | 12.6 | 0.8 |
| 76 | 9.9 | 3.2 | 11.4 | 2.3 | 12.4 | 1.7 | 12.9 | 1.6 | 11.9 | 2.0 | 14.8 | 1.4 | 16.5 | 1.0 | 17.2 | 0.8 |
| 72 | 12.7 | 3.2 | 14.1 | 2.3 | 14.9 | 1.7 | 15.2 | 1.53 | 15.1 | 2.0 | 17.6 | 1.3 | 19.2 | 0.95 | 19.7 | 0.73 |
| 70 | 14.0 | 2.9 | 15.4 | 2.3 | 16.1 | 1.7 | 16.3 | 1.5 | 16.6 | 2.0 | 19.0 | 1.25 | 20.4 | 0.94 | 20.8 | 0.7 |
| 65 | 16.9 | 2.3 | 18.4 | 1.95 | 18.9 | 1.7 | 18.8 | 1.45 | 19.8 | 1.7 | 22.1 | 1.15 | 23.3 | 0.93 | 23.3 | 0.7 |
| 60 | 20.2 | 1.85 | 21.2 | 1.65 | 21.6 | 1.5 | 21.5 | 1.4 | 23.0 | 1.35 | 25.2 | 1.1 | 26.1 | 0.92 | 25.9 | 0.7 |
| 55 | 23.0 | 1.45 | 23.6 | 1.35 | 23.8 | 1.3 | | | 25.9 | 1.1 | 28.0 | 1.0 | 28.5 | 0.88 | | |
| 50 | 25.6 | 0.95 | 25.8 | 0.9 | 26.0 | 0.9 | | | 28.6 | 0.8 | 30.4 | 0.7 | 30.7 | 0.7 | | |
| 45 | 27.7 | 0.63 | 27.8 | 0.6 | 27.9 | 0.6 | | | 30.9 | 0.5 | 32.4 | 0.45 | 32.5 | 0.45 | | |
| 40 | 29.7 | 0.35 | 29.8 | 0.33 | | | | | | | | | | | | |
| a (°) | 39 ~ 83 | | | | 44 ~ 83 | | 59 ~ 83 | | 44 ~ 83 | | | | 59 ~ 83 | | | |

Unit:ton

| Outriggers middle extended (6.3m) -Over sides- | | | | | | | | | | | | | | | | |
|--|-----------------------|------|------|------|---------|------|---------|------|------------------------|------|---------|------|------|------|------|------|
| C | 32.0m Boom + 6.5m Jib | | | | | | | | 32.0m Boom + 11.0m Jib | | | | | | | |
| | 5° | | 25° | | 45° | | 60° | | 5° | | 25° | | 45° | | 60° | |
| E (°) | B(m) | M | B(m) | M | B(m) | M | B(m) | M | B(m) | M | B(m) | M | B(m) | M | B(m) | M |
| 83 | 4.8 | 3.2 | 6.6 | 2.3 | 7.8 | 1.7 | 8.4 | 1.6 | 5.8 | 2.0 | 9.2 | 1.4 | 11.5 | 1.0 | 12.6 | 0.8 |
| 76 | 9.9 | 3.2 | 11.4 | 2.3 | 12.4 | 1.7 | 12.9 | 1.6 | 11.9 | 2.0 | 14.8 | 1.4 | 16.5 | 1.0 | 17.2 | 0.8 |
| 72 | 12.7 | 3.2 | 14.1 | 2.3 | 14.9 | 1.7 | 15.2 | 1.53 | 15.1 | 2.0 | 17.6 | 1.3 | 19.2 | 0.95 | 19.7 | 0.73 |
| 70 | 14.0 | 2.9 | 15.4 | 2.3 | 16.1 | 1.7 | 16.3 | 1.5 | 16.6 | 2.0 | 19.0 | 1.25 | 20.4 | 0.94 | 20.8 | 0.7 |
| 65 | 16.9 | 2.3 | 18.4 | 1.95 | 18.9 | 1.7 | 18.8 | 1.45 | 19.8 | 1.7 | 22.1 | 1.15 | 23.3 | 0.93 | 23.3 | 0.7 |
| 60 | 20.1 | 1.8 | 21.2 | 1.6 | 21.6 | 1.5 | 21.5 | 1.4 | 23.0 | 1.35 | 25.2 | 1.1 | 26.1 | 0.92 | 25.9 | 0.7 |
| 55 | 22.8 | 1.2 | 23.5 | 1.15 | 23.8 | 1.1 | | | 25.8 | 0.95 | 27.9 | 0.9 | 28.5 | 0.85 | | |
| 50 | 25.4 | 0.8 | 25.8 | 0.75 | 26.0 | 0.75 | | | 28.5 | 0.6 | 30.3 | 0.55 | 30.7 | 0.55 | | |
| 45 | 27.5 | 0.45 | 27.8 | 0.4 | 27.9 | 0.4 | | | 30.8 | 0.35 | 32.3 | 0.3 | 32.4 | 0.3 | | |
| a (°) | 44 ~ 83 | | | | 59 ~ 83 | | 44 ~ 83 | | | | 59 ~ 83 | | | | | |

B= Working radius C= Jib length D= Jib offset
E= Boom angle M= Total rated loads
a= Boom angle range (for the unladen condition)

[JIB]

Unit:ton

| Outriggers middle extended (5.2m) -360°- | | | | | | | | | | | | | | | | |
|--|-----------------------|------|------|------|------|------|---------|------|------------------------|------|------|------|------|------|---------|------|
| C | 32.0m Boom + 6.5m Jib | | | | | | | | 32.0m Boom + 11.0m Jib | | | | | | | |
| | 5° | | 25° | | 45° | | 60° | | 5° | | 25° | | 45° | | 60° | |
| E (°) | B(m) | M | B(m) | M | B(m) | M | B(m) | M | B(m) | M | B(m) | M | B(m) | M | B(m) | M |
| 83 | 4.8 | 3.2 | 6.6 | 2.3 | 7.8 | 1.7 | 8.4 | 1.6 | 5.8 | 2.0 | 9.2 | 1.4 | 11.5 | 1.0 | 12.6 | 0.8 |
| 76 | 9.9 | 3.2 | 11.4 | 2.3 | 12.4 | 1.7 | 12.9 | 1.6 | 11.9 | 2.0 | 14.8 | 1.4 | 16.5 | 1.0 | 17.2 | 0.8 |
| 72 | 12.7 | 3.2 | 14.1 | 2.3 | 14.9 | 1.7 | 15.2 | 1.53 | 15.1 | 2.0 | 17.6 | 1.3 | 19.2 | 0.95 | 19.7 | 0.73 |
| 70 | 13.9 | 2.8 | 15.4 | 2.3 | 16.1 | 1.7 | 16.3 | 1.5 | 16.6 | 2.0 | 19.0 | 1.25 | 20.4 | 0.94 | 20.8 | 0.7 |
| 65 | 16.7 | 1.8 | 18.4 | 1.7 | 18.9 | 1.55 | 18.8 | 1.4 | 19.7 | 1.45 | 22.1 | 1.15 | 23.3 | 0.93 | 23.3 | 0.7 |
| 60 | 19.7 | 1.15 | 20.9 | 1.05 | 21.5 | 1.0 | 21.5 | 0.9 | 22.6 | 0.9 | 25.0 | 0.85 | 26.0 | 0.7 | 25.9 | 0.6 |
| 55 | 22.3 | 0.65 | 23.3 | 0.55 | 23.8 | 0.55 | | | 25.4 | 0.5 | 27.5 | 0.5 | 28.3 | 0.4 | | |
| 52 | 23.8 | 0.35 | 24.7 | 0.33 | 25.2 | 0.3 | | | | | | | | | | |
| a (°) | 51 ~ 83 | | | | | | 59 ~ 83 | | 54 ~ 83 | | | | | | 59 ~ 83 | |

Unit:ton

| Outriggers middle extended (3.8m) -Over sides- | | | | | | | | | | | | | | | | |
|--|-----------------------|------|------|------|------|-----|------|-----|------------------------|------|------|------|------|------|------|------|
| C | 32.0m Boom + 6.5m Jib | | | | | | | | 32.0m Boom + 11.0m Jib | | | | | | | |
| | 5° | | 25° | | 45° | | 60° | | 5° | | 25° | | 45° | | 60° | |
| E (°) | B(m) | M | B(m) | M | B(m) | M | B(m) | M | B(m) | M | B(m) | M | B(m) | M | B(m) | M |
| 83 | 4.8 | 3.2 | 6.6 | 2.3 | 7.8 | 1.7 | 8.4 | 1.6 | 5.8 | 2.0 | 9.2 | 1.4 | 11.5 | 1.0 | 12.6 | 0.8 |
| 76 | 9.9 | 3.2 | 11.4 | 2.3 | 12.4 | 1.7 | 12.9 | 1.6 | 11.9 | 2.0 | 14.8 | 1.4 | 16.5 | 1.0 | 17.2 | 0.8 |
| 72 | 12.2 | 2.1 | 13.8 | 1.8 | 14.9 | 1.6 | 15.2 | 1.2 | 14.8 | 1.6 | 17.6 | 1.3 | 19.2 | 0.95 | 19.7 | 0.73 |
| 70 | 13.5 | 1.65 | 15.1 | 1.45 | 16.0 | 1.3 | 16.2 | 1.0 | 16.0 | 1.25 | 19.2 | 1.1 | 20.3 | 0.8 | 20.8 | 0.6 |
| 65 | 16.3 | 0.8 | 17.8 | 0.75 | 18.6 | 0.7 | 18.7 | 0.5 | 19.0 | 0.6 | 21.5 | 0.55 | 23.0 | 0.45 | 23.3 | 0.45 |
| a (°) | 64 ~ 83 | | | | | | | | 64 ~ 83 | | | | | | | |

B= Working radius C= Jib length D= Jib offset
E= Boom angle M= Total rated loads
a= Boom angle range (for the unladen condition)