UNIVERSAL CRANES

## CRANE SPECIFICATION

# TADANO
# GT600EX

### COMPREHENSIVE LIFTING SOLUTIONS

We look forward to providing a full heavy lift engineering and crane solution for your next project. Our heavy lift engineers and on site personnel are experienced in managing and organising highly de-manding lift requirements.

Contact us to discuss your lifting requirements and a free quote.


**BRISBANE (HQ)**
07 3907 5800
37 Paringa Rd, Murarrie, QLD, 4172

**BALLINA**
02 6686 7748
5 Convair Ave, Ballina, NSW, 2478

**GLADSTONE**
07 4972 9326
7 Red Cover Rd, Gladstone, QLD, 4680

**ROCKHAMPTON**
07 4939 1095
371 Leichhardt St, Rockhampton QLD, 4700

**GOLD COAST**
07 5593 4688
9 Kimberley Rd, Burleigh Heads, QLD, 4220

**ROMA**
07 4622 5522
8 Wormwell Drive, Roma QLD 4455

**SUNSHINE COAST**
0409 595 618
562 Maroochydore Rd, Kunda Park, QLD, 4556

**TOWNSVILLE**
07 4779 4088
16 Mackley St, Garbutt QLD 4814

**MACKAY**
07 4952 6998
135 Diesel Drive, Paget QLD 4740

TADANO HYDRAULIC TRUCK CRANE

SPEC. SHEET NO. GT-600E-1-00301/EX-21

# GT-600EX

**CARRIER : TC-4255-2**

## GENERAL DATA

| | | |
|---|---|---|
| **CRANE CAPACITY** | | 60,000 kg at 3.0 m |
| **BOOM** | | 5-section, 11.0 m – 43.0 m |
| **DIMENSION** | | |
| Overall length | approx. | 13,170 mm |
| Overall width | approx. | 2,820 mm |
| Overall height | approx. | 3,730 mm |
| **MASS*** | | |
| Gross vehicle mass | approx. | 41,500 kg |
| —front axle | approx. | 16,000 kg |
| —rear axle | approx. | 25,500 kg |
| * incl. 35 t hook block (optional) | | |
| **PERFORMANCE** | | |
| Max. travelling speed | computed | 84 km/h |
| Gradeability (tan$\theta$ ) | computed | 58 % |

## CRANE SPECIFICATIONS

### MODEL
GT-600EX

### CAPACITY
60,000 kg at 3.0 m

### BOOM
5-section full power partially synchronized telescoping boom of round box construction with 5 sheaves at boom head.
The synchronization system consists of 2 telescope cylinders, extension cables and retraction cables. Selection of 2 boom telescoping modes.
Hydraulic cylinders fitted with holding valves.

Fully retracted length..... 11.0 m
Fully extended length..... 43.0 m
Extension speed..... 32.0 m in 135 s

### JIB
2-staged slewing around boom extension. Triple offset (5˚/ 25˚/ 45˚) type. Stores alongside base boom section. Assistant cylinders for mounting and stowing. Single sheave at jib head.

Length ..... 8.8 m and 15.2 m

### SINGLE TOP (AUXILIARY BOOM SHEAVE)
Single sheave.
Mounted to main boom head for single line work.

### ELEVATION
By a double-acting hydraulic cylinder, fitted with holding valve.

Elevation speed..... - 2˚ to 81˚ in 76 s

### HOIST-Main winch
Variable speed type with grooved drum driven by hydraulic axial piston motor through winch speed reducer. Power load lowering and hoisting.
Equipped with automatic brake (Neutral brake) and counter-balance valve. Controlled independently of auxiliary winch.

Single line pull..... 54.9 kN {5,600 kgf}
Single line speed..... 139 m/min. (at the 4th layer)
Wire rope..... Spin-resistant type
Diameter x length..... 19 mm x 235 m

# CRANE SPECIFICATIONS



### HOIST-Auxiliary winch

Variable speed type with grooved drum driven by hydraulic axial piston motor through winch speed reducer. Power load lowering and hoisting.
Equipped with automatic brake (Neutral brake) and counterbalance valve. Controlled independently of main winch.

Single line pull..... 54.9 kN {5,600 kgf}
Single line speed.....121 m/min. (at the 2nd layer)
Wire rope.....Spin-resistant type
Diameter x length..... 19 mm x 127 m

### SLEWING

Hydraulic axial piston motor driven through planetary slewing speed reducer. Continuous 360o full circle slewing on ball bearing slew ring. Equipped with manually locked/released slewing brake.

Slewing speed..... 1.7 $min^{-1}$ { rpm }

### HYDRAULIC SYSTEM

Pumps..... 2 variable piston pumps for telescoping, elevating and winches. Tandem gear pump for slewing and optional equipment.
Control valves..... Multiple valves actuated by pilot pressurewith integral pressure relief valves.
Circuit..... Equipped with air cooled type oil cooler. Oil pressure appears on AML display for main circuit.
Hydraulic oil tank capacity.....approx. 690 liters
Filters..... Return line filter

### CRANE CONTROL

By 4 control levers for slewing, boom hoist, main winch, boom telescoping or auxiliary winch with 2 control pedals for boom hoist and boom telescoping based on ISO standard layout. Control lever stands can change neutral positions and tilt for easy access to cab.

### CAB

One sided one-man type, steel construction with sliding door access and tinted safety glass windows opening at side. Door window is powered control. Operator's 3 way adjustable seat with headrest and armrest. Hot water cab heater and air conditioning.

### TADANO Automatic Moment Limiter (Model:AML-C)

Main unit in crane cab gives audible and visual warning of approach to overload. Automatically cuts out crane motions (including slewing motion) before overload. With working range (load radius and/or boom angle and/or tip height and/or slewing range) limit function.
Following functions are displayed.

Moment as percentage
Number of parts of line of rope
Boom angle
Boom length
Load radius
Outriggers position
Actual hook load
Permissible load
Boom position indicator
Potential hook height
Slewing angle
Main hydraulic oil pressure
Jib length and jib offset angle (only when jib operation)

### OUTRIGGERS

Hydraulically operated H-type outriggers. Each outrigger controlled simultaneously or independently from either side of carrier. Equipped with sight level gauge. Floats mounted integrally with the jacks retract to within vehicle width.
All cylinders fitted with pilot check valves.
Crane operation with different extended length of each outrigger.
Equipped with extension width detector for each outrigger.

Extended width
Fully..... 6,800 mm
Middle..... 4,600 mm
Minimum..... 2,390 mm
Float size (Diameter)..... 400 mm

### FRONT JACK

A fifth hydraulically operated outrigger jack. Mounted to the front frame of carrier to permit 360˚ lifting capabilities.
Hydraulic cylinder fitted with pilot check valve.

Float size(Diameter)..... 400 mm

### COUNTERWEIGHT

Integral with swing frame

Mass.....4,370 kg

**NOTE :**
Each crane motion speed is based on unladen conditions.

# CARRIER SPECIFICATIONS

SPEC. SHEET NO. GT-600E-1-00301/EX-21

**MANUFACTURER**
TADANO LTD.

**MODEL**
TC-4255-2 (Left-hand steering , 8 x 4)

**ENGINE [ EURO-3 ]**
Model..... Daimler OM457LA
Type..... 4 cycle, turbo charged and inter cooled.
Piston displacement ... 11,967 $cm^3$
Bore x stroke..... 128 mm x 155 mm
Max. output ..... 260 kW{353PS} at 1,900 $min^{-1}$(rpm}
Max. torque ..... 1,850 Nm{188kgf-m} at 1,100 $min^{-1}$(rpm}

**CLUTCH**
Dry single plate, hydraulically operated clutch release mechanism with air assisted booster.

**TRANSMISSION**
9 forward and 1 reverse speeds, synchromesh on 2nd –9th gear and constant-mesh on 1st and reverse gear.

**AXLES**
Front..... Reverse-elliot type, steering axle.
Rear..... Full floating type, driving axle with inter-wheel differential lock.

**STEERING**
Dual circuit hydraulic and mechanical steering of both front axles with hydraulic power booster. 3rd axle reduction gear-mounted emergency steering pump.

**SUSPENSION**
Front..... Hydraulic/pneumatic suspension, with hydraulic lock system and leveling adjustment.
Rear..... Hydraulic/pneumatic suspension, with hydraulic lock system and leveling adjustment.

**BRAKE SYSTEM**
Service..... Full air brakes on all wheels. Dual-circuit system.
Parking/ Emergency..... Spring loaded brake on rear 4-wheel controlled by knob of spring brake valve.
Auxiliary..... Constant throttle system with exhaust flap brake.

**ELECTRIC SYSTEM**
24 V DC. 2 batteries of 12 V
Alternator..... 28 V – 80 A

**FUEL TANK CAPACITY**
300 liters

**CAB**
2-man full width cab of steel structure, with safety glass. Seats adjustable and air-suspended with headrest and 3point safety belt.

**TIRES**
Front..... 315/80R22.5, Single x 4
Rear..... 315/80R22.5, Dual x 4
Spare..... 315/80R22.5, Single x 1

**TURN RADIUS**
Min. turning radius (at center of extreme outer tire).....11.3m

# EQUIPMENT

**FOR CRANE**

**Standard Equipment**
Automatic moment limiter (AML)
External lamp (AML)
Pendant type over-winding cutout
Winch automatic fail-safe brake
Winch drum rotation indicator (visual type)
Winch drum mirror
Cable follower
5.6t capacity hook block (swivel hook)
Hook safety latch
Pilot check valves
Counterbalance valves
Hydraulic pressure relief valves
Slewing brake
Slewing lock
Boom angle indicator
Boom elevation foot pedal
Boom telescoping foot pedal
Outrigger extension width detector
Front jack set up detector
Front jack overload alarm
Automatic speed reduction and slow stop function on boom elevation and/or slewing(slewing range restricted only).
Hydraulic oil cooler
3 working lights
Front windshield wiper and washer
Roof window wiper and washer
Power window (door of the cab)
3 way adjustable cloth seat with headrest and armrest
Cab floor mat
Sun visor (front and roof)

**Optional Equipment**
☐60 t capacity hook block (6 sheaves)
☐35 t capacity hook block (3 sheaves)
☐Over-unwinding prevention
☐Air conditioner (crane cab)
☐Wind speed indicator

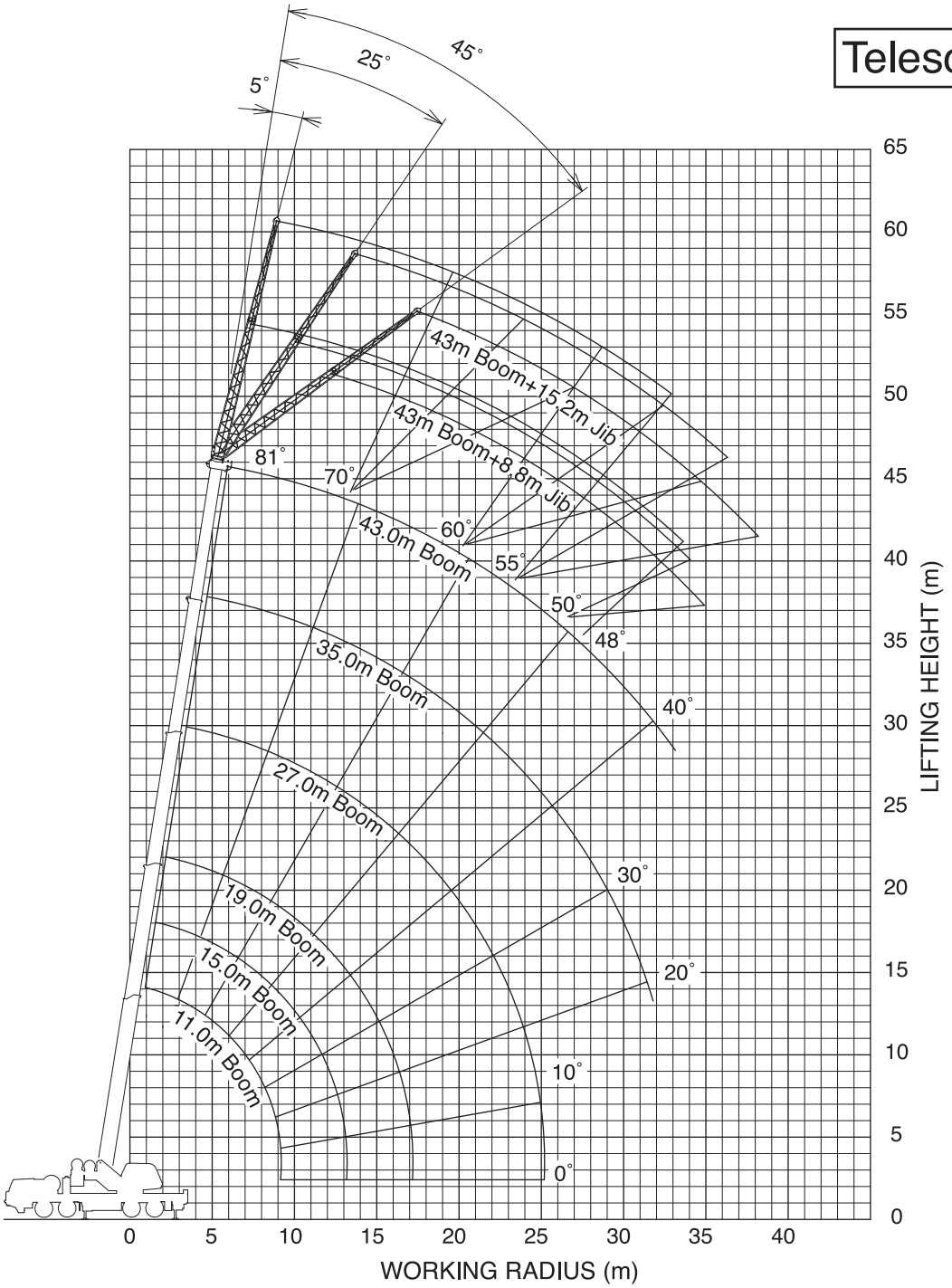
**FOR CARRIER**

**Standard Equipment**
Spare tire with lock key
Rear fog lights
Inter-wheel differential gear lock
Emergency steering pump
Fuel tank cap with lock key
Air dryer
Towing hooks (front and rear, eye type)
Engine over-run alarm
Air filter warning light (instrument cluster)
Cooling water level warning light
Engine hour meter
PTO hour meter
Reversing signal
Low air pressure warning lamp and buzzer
AM / FM radio
Adjustment and heating rearview mirror
Sun visor
Tilting-telescoping steering wheel
3 way adjustable air suspension seat
Tachometer/ Speedometer (with odometer)
Air conditioner
3 point type seat belt
Windshield wiper and washer
Cigarette lighter
Cruise control
Transmission oil drain cock
Tire inflation
Owner's tool set
Tool box with lock key

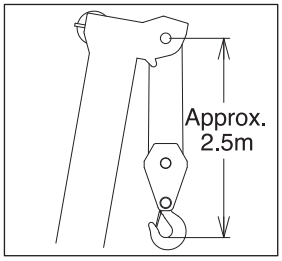
# WORKING RANGE

SPEC. SHEET NO. GT-600E-1-00301/EX-21

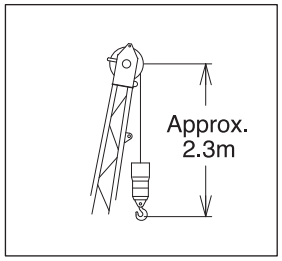
## Telescoping mode I



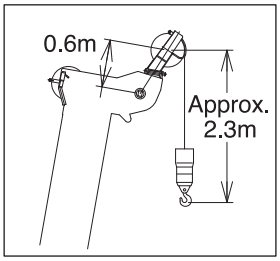

BOOM




JIB

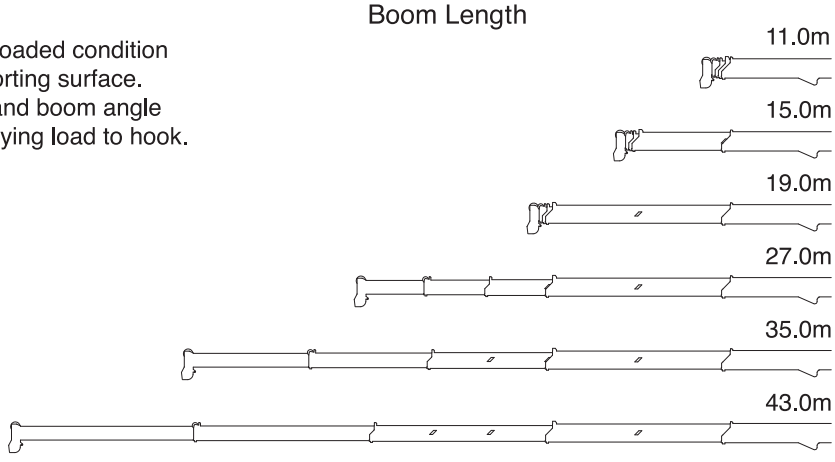



SINGLE TOP




**NOTE:**
Boom and jib geometry shown are for unloaded condition and machine standing level on firm supporting surface. Boom deflection and subsequent radius and boom angle change must be accounted for when applying load to hook.

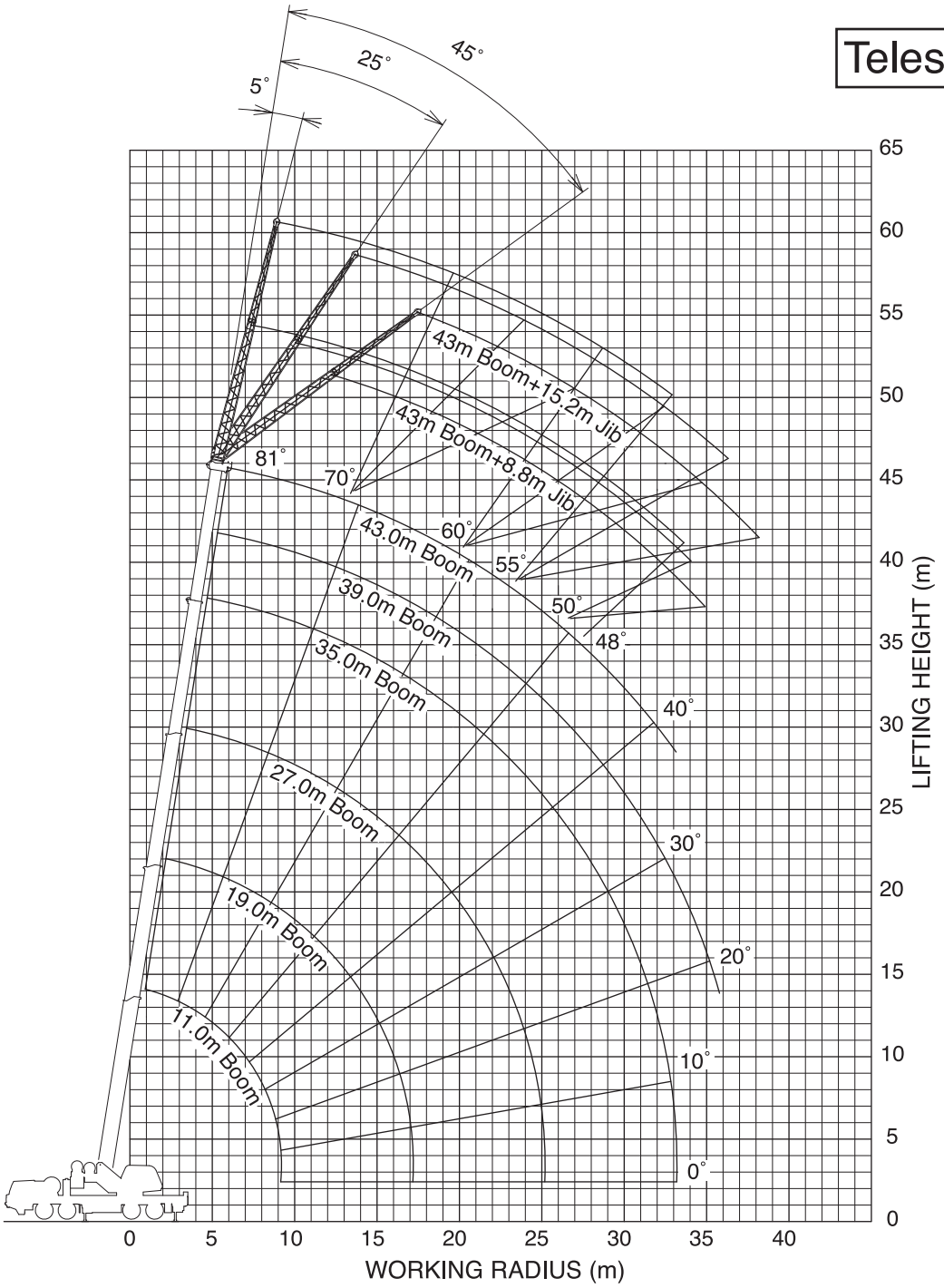
Boom Length



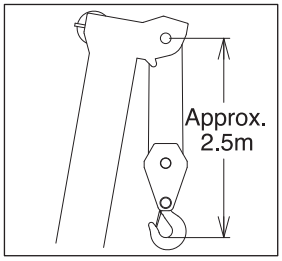
# WORKING RANGE

SPEC. SHEET NO. GT-600E-1-00301/EX-21

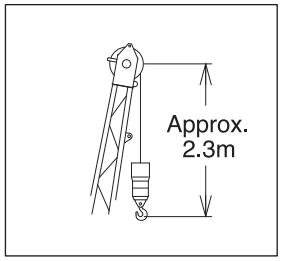
## Telescoping mode Ⅱ



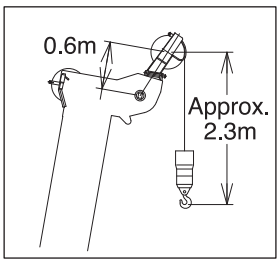

BOOM




JIB

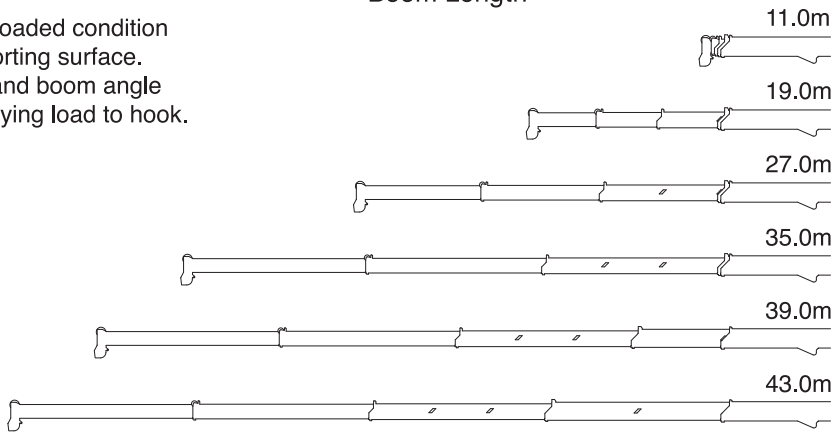



SINGLE TOP




**NOTE:**
Boom and jib geometry shown are for unloaded condition and machine standing level on firm supporting surface. Boom deflection and subsequent radius and boom angle change must be accounted for when applying load to hook.

Boom Length



# RATED LIFTING CAPACITIES (BOOM)

SPEC. SHEET NO. GT-600E-1-00301/EX-21

UNIT: x1,000kg CLASS OF CRANE ; C3

Outriggers fully extended (6.8m)

| A / B | 11.0 | | 15.0 | | 19.0 | | | | 27.0 | | | | 35.0 | | | | 39.0 | | 43.0 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | C | | C | | C | | C | | C | | C | | C | | C | | C | | C | |
| 3.0 | 70 | 60.0 | 76 | 60.0 | 79 | 32.0 | 79 | 22.0 | | | | | | | | | | | | |
| 3.5 | 67 | 47.5 | 74 | 47.5 | 78 | 32.0 | 78 | 22.0 | | | | | | | | | | | | |
| 4.0 | 64 | 42.4 | 72 | 42.4 | 76 | 32.0 | 76 | 22.0 | 81 | 22.0 | 81 | 17.0 | | | | | | | | |
| 4.5 | 61 | 38.1 | 70 | 38.1 | 75 | 32.0 | 75 | 22.0 | 80 | 22.0 | 80 | 17.0 | | | | | | | | |
| 5.0 | 58 | 34.5 | 68 | 34.5 | 73 | 32.0 | 73 | 22.0 | 79 | 22.0 | 79 | 17.0 | | | | | | | | |
| 5.5 | 55 | 31.4 | 66 | 31.4 | 72 | 30.9 | 71 | 21.4 | 78 | 21.3 | 78 | 17.0 | | | | | | | | |
| 6.0 | 51 | 28.7 | 63 | 28.7 | 70 | 27.4 | 70 | 20.6 | 77 | 20.7 | 77 | 17.0 | 80 | 14.0 | 81 | 12.0 | | | | |
| 6.5 | 47 | 26.4 | 61 | 26.4 | 68 | 24.0 | 68 | 19.8 | 76 | 20.0 | 76 | 16.3 | 80 | 14.0 | 80 | 12.0 | | | | |
| 7.0 | 43 | 24.4 | 59 | 24.4 | 67 | 21.1 | 66 | 19.1 | 75 | 19.5 | 75 | 15.4 | 79 | 14.0 | 79 | 11.9 | 80 | 10.0 | | |
| 7.5 | 39 | 22.7 | 57 | 22.7 | 65 | 18.8 | 65 | 18.5 | 74 | 18.8 | 73 | 14.6 | 78 | 13.5 | 78 | 11.5 | 80 | 10.0 | | |
| 8.0 | 34 | 20.0 | 54 | 20.0 | 63 | 16.9 | 63 | 17.9 | 72 | 17.1 | 72 | 13.9 | 77 | 13.0 | 77 | 11.1 | 79 | 10.0 | 80 | 8.5 |
| 9.0 | 20 | 15.7 | 49 | 15.7 | 60 | 13.9 | 60 | 16.8 | 70 | 14.3 | 70 | 12.6 | 76 | 12.1 | 76 | 10.3 | 78 | 10.0 | 79 | 8.5 |
| 10.0 | | | 43 | | 56 | 11.6 | 56 | 14.7 | 68 | 12.2 | 68 | 11.6 | 74 | 11.7 | 74 | 9.7 | 76 | 9.7 | 78 | 8.5 |
| 11.0 | | | 36 | | 52 | 9.5 | 52 | 12.4 | 65 | 10.5 | 65 | 10.7 | 72 | 10.2 | 72 | 9.0 | 75 | 9.2 | 77 | 8.5 |
| 12.0 | | | 28 | | 47 | 7.9 | 48 | 10.6 | 63 | 9.2 | 63 | 9.9 | 70 | 9.0 | 71 | 8.4 | 73 | 8.7 | 76 | 8.1 |
| 14.0 | | | | | 37 | 5.5 | 38 | 7.9 | 58 | 6.9 | 58 | 8.3 | 67 | 7.1 | 67 | 7.3 | 70 | 7.5 | 73 | 6.9 |
| 16.0 | | | | | 24 | 3.8 | 25 | 6.2 | 52 | 5.2 | 52 | 6.5 | 63 | 5.6 | 63 | 6.4 | 67 | 6.1 | 70 | 5.5 |
| 18.0 | | | | | | | | | 46 | 3.9 | 46 | 5.2 | 59 | 4.4 | 59 | 5.4 | 63 | 5.0 | 66 | 4.4 |
| 20.0 | | | | | | | | | 39 | 3.0 | 40 | 4.2 | 55 | 3.5 | 55 | 4.4 | 60 | 4.0 | 63 | 3.6 |
| 22.0 | | | | | | | | | 31 | 2.2 | 32 | 3.5 | 50 | 2.7 | 51 | 3.6 | 56 | 3.2 | 60 | 2.9 |
| 24.0 | | | | | | | | | 20 | 1.6 | 22 | 2.9 | 46 | 2.1 | 46 | 3.0 | 52 | 2.6 | 57 | 2.3 |
| 26.0 | | | | | | | | | | | | | 41 | 1.6 | 41 | 2.5 | 48 | 2.1 | 53 | 1.8 |
| 28.0 | | | | | | | | | | | | | 35 | 1.2 | 35 | 2.1 | 43 | 1.7 | 50 | 1.4 |
| 30.0 | | | | | | | | | | | | | 28 | 0.8 | 28 | 1.7 | 39 | 1.3 | 46 | 1.0 |
| 32.0 | | | | | | | | | | | | | 18 | 0.5 | 18 | 1.4 | 33 | 1.0 | 42 | 0.7 |
| 34.0 | | | | | | | | | | | | | | | | | 26 | 0.8 | 37 | 0.5 |
| 36.0 | | | | | | | | | | | | | | | | | 17 | 0.6 | | |
| D | 0° | | | | | | | | | | | | 18° | | 0° | | 17° | | 37° | |

Telescoping conditions(%)

| Telescoping Mode | Ⅰ,Ⅱ | Ⅰ | Ⅰ | Ⅱ | Ⅰ | Ⅱ | Ⅰ | Ⅱ | Ⅱ | Ⅰ,Ⅱ |
|---|---|---|---|---|---|---|---|---|---|---|
| 2nd boom | 0 | 50 | 100 | 0 | 100 | 0 | 100 | 0 | 50 | 100 |
| 3rd boom | 0 | 0 | 0 | 33 | 33 | 66 | 66 | 100 | 100 | 100 |
| 4th boom | 0 | 0 | 0 | 33 | 33 | 66 | 66 | 100 | 100 | 100 |
| Top boom | 0 | 0 | 0 | 33 | 33 | 66 | 66 | 100 | 100 | 100 |

A: Boom length (m)
B: Load radius (m)
C: Loaded boom angle (°)
D: Minimum boom angle (°) for indicated length (no load)

**NOTES :**

1. Rated lifting capacities shown in the table are based on condition that the crane is set on firm level surface. Those above bold lines are based on crane strength and those below, on its stability.
2. Rated lifting capacities based on crane stability are according to ISO 4305 / DIN 15019 part 2.
3. The mass of the hook (570kg for *60t capacity, 410kg for *35t capacity, 150kg for *5.6t capacity), slings and all similarly used load handling devices must be considered as part of the load and must be deducted from the lifting capacities. * : Optional
4. For rated lifting capacity of single top, reduce the rated lifting capacities of relevant boom according to a weight reduction for auxiliary load handling equipment. Capacities of single top shall not exceed 5,600 kg including main hook.
5. Standard number of part lines for each boom length is as shown below. Load per line should not surpass 54.9 kN {5,600 kgf} for main winch and auxiliary winch.

| Boom length | 11.0m | 11.0m to 15.0m | 15.0m to 19.0m | 19.0m to 27.0m | 27.0m to 43.0m | Jib / Single top |
|---|---|---|---|---|---|---|
| No. of part lines | 12 | 10 | 7 | 5 | 4 | 1 |

The lifting capacity data stored in the AUTOMATIC MOMENT LIMITER (AML) is based on the standard number of parts of line listed in the chart.
Maximum lifting capacity is restricted by the number of parts of line of AUTOMATIC MOMENT LIMITER (AML).

6. Without front jack extended, when the boom is within the Over-front, rated lifting capacities are different from those for the boom in the Over-side and Over-rear.

# RATED LIFTING CAPACITIES (BOOM)



UNIT: x1,000kg CLASS OF CRANE ; C3

| Outriggers extended to middle (4.6m) | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A / B | 11.0 | | 15.0 | | 19.0 | | | | 27.0 | | | | 35.0 | | | | 39.0 | | 43.0 | |
| | C | | C | | C | | C | | C | | C | | C | | C | | C | | C | |
| 3.0 | 70 | 40.0 | 76 | 36.0 | 80 | 32.0 | 79 | 22.0 | | | | | | | | | | | | |
| 3.5 | 67 | 34.0 | 74 | 29.2 | 78 | 24.5 | 78 | 22.0 | | | | | | | | | | | | |
| 4.0 | 64 | 27.8 | 72 | 22.9 | 76 | 19.6 | 76 | 22.0 | 81 | 17.0 | 81 | 17.0 | | | | | | | | |
| 4.5 | 61 | 22.3 | 70 | 18.6 | 75 | 16.0 | 74 | 19.1 | 80 | 14.4 | 80 | 16.4 | | | | | | | | |
| 5.0 | 58 | 18.4 | 68 | 15.4 | 73 | 13.4 | 73 | 16.3 | 79 | 12.4 | 79 | 14.3 | | | | | | | | |
| 5.5 | 55 | 15.4 | 65 | 13.0 | 71 | 11.3 | 71 | 14.1 | 77 | 10.7 | 78 | 12.5 | | | | | | | | |
| 6.0 | 51 | 13.2 | 63 | 11.2 | 70 | 9.7 | 70 | 12.3 | 76 | 9.4 | 76 | 11.1 | 80 | 8.7 | 80 | 10.0 | | | | |
| 6.5 | 47 | 11.4 | 61 | 9.6 | 68 | 8.3 | 68 | 10.9 | 75 | 8.2 | 75 | 9.9 | 79 | 7.8 | 80 | 9.0 | | | | |
| 7.0 | 43 | 9.9 | 59 | 8.3 | 66 | 7.2 | 66 | 9.7 | 74 | 7.3 | 74 | 9.0 | 78 | 6.9 | 79 | 8.2 | 80 | 7.4 | | |
| 7.5 | 39 | 8.5 | 57 | 7.3 | 64 | 6.3 | 64 | 8.7 | 73 | 6.4 | 73 | 8.1 | 77 | 6.2 | 78 | 7.5 | 79 | 6.7 | | |
| 8.0 | 33 | 7.3 | 54 | 6.3 | 63 | 5.5 | 63 | 7.8 | 72 | 5.7 | 72 | 7.4 | 77 | 5.6 | 77 | 6.8 | 78 | 6.1 | 80 | 5.3 |
| 9.0 | 19 | 5.5 | 49 | 4.9 | 59 | 4.1 | 59 | 6.4 | 69 | 4.6 | 70 | 6.1 | 75 | 4.6 | 75 | 5.7 | 77 | 5.1 | 78 | 4.4 |
| 10.0 | | | 43 | 3.7 | 55 | 3.1 | 55 | 5.3 | 67 | 3.6 | 67 | 5.2 | 73 | 3.7 | 73 | 4.9 | 75 | 4.3 | 77 | 3.6 |
| 11.0 | | | 36 | 2.7 | 51 | 2.2 | 51 | 4.4 | 65 | 2.9 | 65 | 4.4 | 71 | 3.0 | 71 | 4.2 | 74 | 3.6 | 76 | 3.0 |
| 12.0 | | | 28 | 1.9 | 47 | 1.5 | 47 | 3.5 | 62 | 2.3 | 62 | 3.7 | 69 | 2.5 | 70 | 3.6 | 72 | 3.1 | 74 | 2.5 |
| 14.0 | | | | | | | 38 | 2.3 | 57 | 1.3 | 57 | 2.7 | 66 | 1.6 | 66 | 2.7 | 69 | 2.2 | 71 | 1.6 |
| 16.0 | | | | | | | 25 | 1.5 | | | 52 | 1.9 | | | 62 | 2.0 | 66 | 1.5 | | |
| 18.0 | | | | | | | | | | | 46 | 1.2 | | | 58 | 1.4 | | | | |
| 20.0 | | | | | | | | | | | 39 | 0.7 | | | 54 | 0.9 | | | | |
| D | 0° | | 0° | | 37° | | 0° | | 56° | | 37° | | 65° | | 53° | | 63° | | 70° | |
| Telescoping conditions(%) | | | | | | | | | | | | | | | | | | | | |
| Telescoping Mode | Ⅰ,Ⅱ | | Ⅰ | | Ⅰ | | Ⅱ | | Ⅰ | | Ⅱ | | Ⅰ | | Ⅱ | | Ⅱ | | Ⅰ,Ⅱ | |
| 2nd boom | 0 | | 50 | | 100 | | 0 | | 100 | | 0 | | 100 | | 0 | | 50 | | 100 | |
| 3rd boom | 0 | | 0 | | 0 | | 33 | | 33 | | 66 | | 66 | | 100 | | 100 | | 100 | |
| 4th boom | 0 | | 0 | | 0 | | 33 | | 33 | | 66 | | 66 | | 100 | | 100 | | 100 | |
| Top boom | 0 | | 0 | | 0 | | 33 | | 33 | | 66 | | 66 | | 100 | | 100 | | 100 | |

UNIT: x1,000kg CLASS OF CRANE ; C3

| Outriggers extended to minimum (2.39m) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| A / B | 11.0 | | 15.0 | | 19.0 | | | |
| | C | | C | | C | | C | |
| 3.0 | 70 | 17.9 | 76 | 15.0 | 79 | 12.9 | 79 | 15.5 |
| 3.5 | 67 | 14.5 | 74 | 12.3 | 78 | 10.6 | 77 | 13.0 |
| 4.0 | 64 | 12.0 | 72 | 10.1 | 76 | 8.8 | 76 | 11.1 |
| 4.5 | 61 | 10.0 | 70 | 8.5 | 74 | 7.4 | 74 | 9.6 |
| 5.0 | 58 | 8.5 | 67 | 7.1 | 73 | 6.2 | 73 | 8.3 |
| 5.5 | 55 | 7.3 | 65 | 6.0 | 71 | 5.2 | 71 | 7.3 |
| 6.0 | 51 | 6.2 | 63 | 5.1 | 70 | 4.3 | 69 | 6.4 |
| 6.5 | 47 | 5.4 | 61 | 4.3 | 68 | 3.6 | 68 | 5.7 |
| 7.0 | 43 | 4.6 | 59 | 3.7 | 66 | 3.0 | 66 | 5.0 |
| 7.5 | 39 | 3.9 | 56 | 3.1 | 64 | 2.5 | 64 | 4.5 |
| 8.0 | 33 | 3.3 | 54 | 2.6 | 63 | 2.0 | 63 | 4.0 |
| 9.0 | 19 | 2.3 | 48 | 1.7 | 59 | 1.2 | 59 | 3.2 |
| 10.0 | | | 43 | 1.1 | | | 55 | 2.5 |
| 11.0 | | | 39 | 0.5 | | | 51 | 2.0 |
| 12.0 | | | | | | | 47 | 1.5 |
| 14.0 | | | | | | | 38 | 0.7 |
| D | 0° | | 0° | | 58° | | 36° | |
| Telescoping conditions (%) | | | | | | | | |
| Telescoping Mode | Ⅰ,Ⅱ | | Ⅰ | | Ⅰ | | Ⅱ | |
| 2nd boom | 0 | | 50 | | 100 | | 0 | |
| 3rd boom | 0 | | 0 | | 0 | | 33 | |
| 4th boom | 0 | | 0 | | 0 | | 33 | |
| Top boom | 0 | | 0 | | 0 | | 33 | |

A: Boom length (m)
B: Load radius (m)
C: Loaded boom angle (°)
D: Minimum boom angle (°) for indicated length (no load)

# RATED LIFTING CAPACITIES (JIB)

SPEC. SHEET NO. GT-600E-1-00301/EX-21

CLASS OF CRANE ; C3

| Outriggers fully extended (6.8m) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C | 43.0m Boom + 8.8m Jib | | | | | | 43.0m Boom + 15.2m Jib | | | | | |
| | 5° Tilt | | 25° Tilt | | 45° Tilt | | 5° Tilt | | 25° Tilt | | 45° Tilt | |
| | R | W | R | W | R | W | R | W | R | W | R | W |
| 81° | 9.2 | 4.00 | 12.2 | 3.58 | 14.1 | 2.47 | 11.3 | 2.60 | 16.2 | 1.69 | 19.5 | 1.17 |
| 80° | 10.2 | 4.00 | 13.3 | 3.50 | 15.1 | 2.44 | 12.5 | 2.60 | 17.4 | 1.65 | 20.6 | 1.15 |
| 79° | 11.3 | 4.00 | 14.2 | 3.42 | 15.9 | 2.40 | 13.6 | 2.60 | 18.4 | 1.61 | 21.5 | 1.13 |
| 78° | 12.3 | 4.00 | 15.1 | 3.32 | 16.8 | 2.37 | 14.8 | 2.60 | 19.5 | 1.58 | 22.4 | 1.12 |
| 77° | 13.3 | 4.00 | 16.0 | 3.22 | 17.6 | 2.34 | 15.9 | 2.56 | 20.4 | 1.54 | 23.4 | 1.10 |
| 76° | 14.2 | 3.85 | 16.9 | 3.12 | 18.5 | 2.32 | 17.0 | 2.46 | 21.5 | 1.51 | 24.3 | 1.09 |
| 75° | 15.2 | 3.72 | 17.7 | 3.04 | 19.3 | 2.29 | 18.1 | 2.38 | 22.4 | 1.48 | 25.2 | 1.08 |
| 73° | 17.0 | 3.50 | 19.5 | 2.88 | 21.0 | 2.24 | 20.1 | 2.22 | 24.3 | 1.43 | 27.0 | 1.05 |
| 70° | 19.5 | 3.20 | 22.0 | 2.68 | 23.3 | 2.18 | 23.0 | 2.01 | 27.2 | 1.35 | 29.4 | 1.02 |
| 68° | 21.4 | 3.03 | 23.6 | 2.56 | 24.8 | 2.14 | 25.1 | 1.90 | 29.0 | 1.31 | 31.1 | 1.00 |
| 65° | 23.7 | 2.52 | 25.9 | 2.25 | 27.0 | 2.09 | 27.8 | 1.75 | 31.8 | 1.25 | 33.5 | 0.98 |
| 63° | 25.1 | 2.13 | 27.2 | 1.92 | 28.4 | 1.86 | 29.5 | 1.52 | 33.3 | 1.21 | 35.1 | 0.97 |
| 60° | 27.3 | 1.66 | 29.3 | 1.52 | 30.4 | 1.48 | 31.8 | 1.14 | 35.7 | 0.99 | 37.1 | 0.95 |
| 58° | 28.8 | 1.40 | 30.7 | 1.28 | 31.7 | 1.24 | 33.4 | 0.92 | 37.0 | 0.81 | 38.2 | 0.77 |
| 55° | 30.9 | 1.07 | 32.7 | 0.96 | 33.4 | 0.93 | 35.7 | 0.66 | 39.1 | 0.56 | 40.1 | 0.53 |
| 53° | 32.2 | 0.86 | 33.9 | 0.77 | 34.6 | 0.75 | | | | | | |
| 50° | 34.1 | 0.58 | 35.7 | 0.52 | 36.4 | 0.51 | | | | | | |
| 48° | 35.3 | 0.43 | | | | | | | | | | |

CLASS OF CRANE ; C3

| Outriggers fully extended (6.8m) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C | 39.0m Boom (telescoping mode Ⅱ) + 8.8m Jib | | | | | | 39.0m Boom (telescoping mode Ⅱ) + 15.2m Jib | | | | | |
| | 5° Tilt | | 25° Tilt | | 45° Tilt | | 5° Tilt | | 25° Tilt | | 45° Tilt | |
| | R | W | R | W | R | W | R | W | R | W | R | W |
| 81° | 8.1 | 4.40 | 11.0 | 3.58 | 13.0 | 2.47 | 10.2 | 2.60 | 15.0 | 1.69 | 18.3 | 1.17 |
| 80° | 9.0 | 4.40 | 11.9 | 3.50 | 13.8 | 2.44 | 11.3 | 2.60 | 16.0 | 1.65 | 19.3 | 1.15 |
| 79° | 9.9 | 4.40 | 12.8 | 3.42 | 14.7 | 2.40 | 12.3 | 2.60 | 16.9 | 1.61 | 20.2 | 1.13 |
| 78° | 10.9 | 4.40 | 13.7 | 3.35 | 15.5 | 2.37 | 13.4 | 2.60 | 17.9 | 1.58 | 21.0 | 1.12 |
| 77° | 11.8 | 4.40 | 14.5 | 3.28 | 16.3 | 2.34 | 14.4 | 2.56 | 18.8 | 1.54 | 21.9 | 1.10 |
| 76° | 12.6 | 4.24 | 15.3 | 3.21 | 17.1 | 2.32 | 15.4 | 2.46 | 19.8 | 1.51 | 22.7 | 1.09 |
| 75° | 13.5 | 4.09 | 16.1 | 3.15 | 17.8 | 2.29 | 16.3 | 2.38 | 20.7 | 1.48 | 23.5 | 1.08 |
| 73° | 15.1 | 3.85 | 17.8 | 3.04 | 19.3 | 2.24 | 18.2 | 2.22 | 22.5 | 1.43 | 25.1 | 1.05 |
| 70° | 17.6 | 3.51 | 20.1 | 2.89 | 21.5 | 2.18 | 20.9 | 2.01 | 25.1 | 1.35 | 27.4 | 1.02 |
| 68° | 19.2 | 3.32 | 21.7 | 2.78 | 22.8 | 2.14 | 22.7 | 1.90 | 26.8 | 1.31 | 28.9 | 1.00 |
| 65° | 21.5 | 3.07 | 23.8 | 2.61 | 24.8 | 2.09 | 25.3 | 1.75 | 29.1 | 1.25 | 31.0 | 0.98 |
| 63° | 23.0 | 2.93 | 25.2 | 2.52 | 26.2 | 2.07 | 27.0 | 1.67 | 30.8 | 1.21 | 32.4 | 0.97 |
| 60° | 25.1 | 2.58 | 27.2 | 2.31 | 28.2 | 2.03 | 29.4 | 1.56 | 33.0 | 1.16 | 34.4 | 0.95 |
| 58° | 26.5 | 2.26 | 28.5 | 2.02 | 29.5 | 1.93 | 31.1 | 1.49 | 34.5 | 1.13 | 35.7 | 0.94 |
| 55° | 28.3 | 1.83 | 30.3 | 1.65 | 31.1 | 1.59 | 33.2 | 1.29 | 36.5 | 1.09 | 37.5 | 0.93 |
| 53° | 29.6 | 1.59 | 31.4 | 1.44 | 32.1 | 1.40 | 34.6 | 1.10 | 37.8 | 0.96 | 38.6 | 0.90 |
| 50° | 31.4 | 1.28 | 33.1 | 1.17 | 33.7 | 1.14 | 36.6 | 0.85 | 39.4 | 0.74 | 40.0 | 0.71 |
| 48° | 32.5 | 1.10 | 34.1 | 1.01 | 34.6 | 0.99 | 37.8 | 0.70 | 40.5 | 0.62 | 41.0 | 0.59 |
| 45° | 34.2 | 0.87 | 35.6 | 0.80 | 35.9 | 0.79 | 39.6 | 0.51 | 42.1 | 0.45 | 42.3 | 0.44 |
| 43° | 35.3 | 0.74 | 36.6 | 0.68 | | | 40.8 | 0.41 | | | | |
| 40° | 36.8 | 0.57 | 37.4 | 0.52 | | | | | | | | |
| 38° | 37.7 | 0.46 | 38.8 | 0.43 | | | | | | | | |

C: Boom angle
R: Load radius (m)
W: Rated lifting capacity (UNIT: x1,000kg)

# RATED LIFTING CAPACITIES (JIB)

SPEC. SHEET NO. GT-600E-1-00301/EX-21

CLASS OF CRANE ; C3

| Outriggers fully extended (6.8m) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C | 35.0m Boom (telescoping mode I) + 8.8m Jib | | | | | | 35.0m Boom (telescoping mode I) + 15.2m Jib | | | | | |
| | 5° Tilt | | 25° Tilt | | 45° Tilt | | 5° Tilt | | 25° Tilt | | 45° Tilt | |
| | R | W | R | W | R | W | R | W | R | W | R | W |
| 81° | 7.3 | 4.50 | 10.3 | 3.58 | 12.1 | 2.47 | 9.2 | 2.60 | 14.1 | 1.69 | 17.6 | 1.17 |
| 80° | 8.1 | 4.50 | 11.1 | 3.50 | 12.8 | 2.44 | 10.1 | 2.60 | 15.0 | 1.65 | 18.4 | 1.15 |
| 79° | 8.9 | 4.50 | 11.8 | 3.42 | 13.5 | 2.40 | 10.9 | 2.60 | 15.9 | 1.61 | 19.2 | 1.13 |
| 78° | 9.7 | 4.50 | 12.5 | 3.35 | 14.2 | 2.37 | 12.0 | 2.60 | 16.8 | 1.58 | 20.0 | 1.12 |
| 77° | 10.5 | 4.50 | 13.4 | 3.28 | 14.9 | 2.34 | 12.9 | 2.56 | 17.6 | 1.54 | 20.7 | 1.10 |
| 76° | 11.3 | 4.50 | 14.1 | 3.21 | 15.6 | 2.32 | 13.8 | 2.46 | 18.5 | 1.51 | 21.5 | 1.09 |
| 75° | 12.1 | 4.50 | 14.9 | 3.15 | 16.3 | 2.29 | 14.7 | 2.38 | 19.3 | 1.48 | 22.2 | 1.08 |
| 73° | 13.6 | 4.50 | 16.3 | 3.04 | 17.7 | 2.24 | 16.5 | 2.22 | 20.9 | 1.43 | 23.7 | 1.05 |
| 70° | 16.0 | 4.44 | 18.5 | 2.89 | 19.6 | 2.18 | 18.9 | 2.01 | 23.3 | 1.35 | 25.7 | 1.02 |
| 68° | 17.4 | 4.21 | 19.8 | 2.80 | 20.9 | 2.14 | 20.6 | 1.90 | 24.8 | 1.31 | 27.1 | 1.00 |
| 65° | 19.5 | 3.91 | 21.8 | 2.69 | 22.7 | 2.09 | 22.9 | 1.75 | 27.0 | 1.25 | 29.0 | 0.98 |
| 63° | 20.8 | 3.53 | 23.1 | 2.62 | 23.9 | 2.07 | 24.5 | 1.67 | 28.5 | 1.21 | 30.3 | 0.97 |
| 60° | 22.6 | 2.90 | 25.1 | 2.53 | 25.7 | 2.03 | 26.8 | 1.56 | 30.5 | 1.16 | 32.0 | 0.95 |
| 58° | 23.9 | 2.52 | 26.2 | 2.27 | 26.9 | 2.01 | 28.3 | 1.49 | 31.8 | 1.13 | 33.3 | 0.94 |
| 55° | 25.6 | 2.03 | 27.8 | 1.85 | 28.4 | 1.76 | 30.4 | 1.41 | 33.8 | 1.09 | 34.8 | 0.93 |
| 53° | 26.8 | 1.75 | 28.9 | 1.61 | 29.4 | 1.54 | 31.7 | 1.25 | 34.9 | 1.06 | 35.9 | 0.92 |
| 50° | 28.4 | 1.40 | 30.3 | 1.29 | 30.8 | 1.25 | 33.5 | 0.96 | 36.5 | 0.82 | 37.2 | 0.77 |
| 48° | 29.5 | 1.20 | 31.4 | 1.11 | 31.7 | 1.08 | 34.7 | 0.80 | 37.5 | 0.68 | 38.1 | 0.64 |
| 45° | 31.0 | 0.94 | 32.7 | 0.88 | 32.9 | 0.86 | 36.4 | 0.58 | 38.9 | 0.50 | 39.3 | 0.47 |
| 43° | 32.0 | 0.79 | 33.6 | 0.74 | | | 37.5 | 0.46 | | | | |
| 40° | 33.4 | 0.59 | 34.8 | 0.56 | | | | | | | | |
| 38° | 34.3 | 0.48 | 35.6 | 0.45 | | | | | | | | |

C: Boom angle
R: Load radius (m)
W: Rated lifting capacity (UNIT: x1,000kg)

# RATED LIFTING CAPACITIES (JIB)

SPEC. SHEET NO. GT-600E-1-00301/EX-21

CLASS OF CRANE ; C3

| Outriggers extended to middle (4.6m) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C | 43.0m Boom + 8.8m Jib | | | | | | 43.0m Boom + 15.2m Jib | | | | | |
| | 5° Tilt | | 25° Tilt | | 45° Tilt | | 5° Tilt | | 25° Tilt | | 45° Tilt | |
| | R | W | R | W | R | W | R | W | R | W | R | W |
| 81° | 9.2 | 4.00 | 12.6 | 3.16 | 14.1 | 2.47 | 11.3 | 2.60 | 16.2 | 1.69 | 19.5 | 1.17 |
| 80° | 10.1 | 3.49 | 12.9 | 2.74 | 15.1 | 2.43 | 12.4 | 2.48 | 17.3 | 1.65 | 20.9 | 1.15 |
| 79° | 10.9 | 2.99 | 13.6 | 2.38 | 15.8 | 2.13 | 13.4 | 2.08 | 18.2 | 1.45 | 21.5 | 1.13 |
| 78° | 11.7 | 2.56 | 14.5 | 2.06 | 16.5 | 1.85 | 14.2 | 1.72 | 19.1 | 1.22 | 22.4 | 1.07 |
| 77° | 12.6 | 2.18 | 15.2 | 1.77 | 17.2 | 1.60 | 15.1 | 1.42 | 19.9 | 1.02 | 23.1 | 0.90 |
| 76° | 13.4 | 1.85 | 16.0 | 1.50 | 18.0 | 1.38 | 16.0 | 1.15 | | | | |
| 75° | 14.2 | 1.55 | 16.8 | 1.26 | 18.7 | 1.17 | | | | | | |

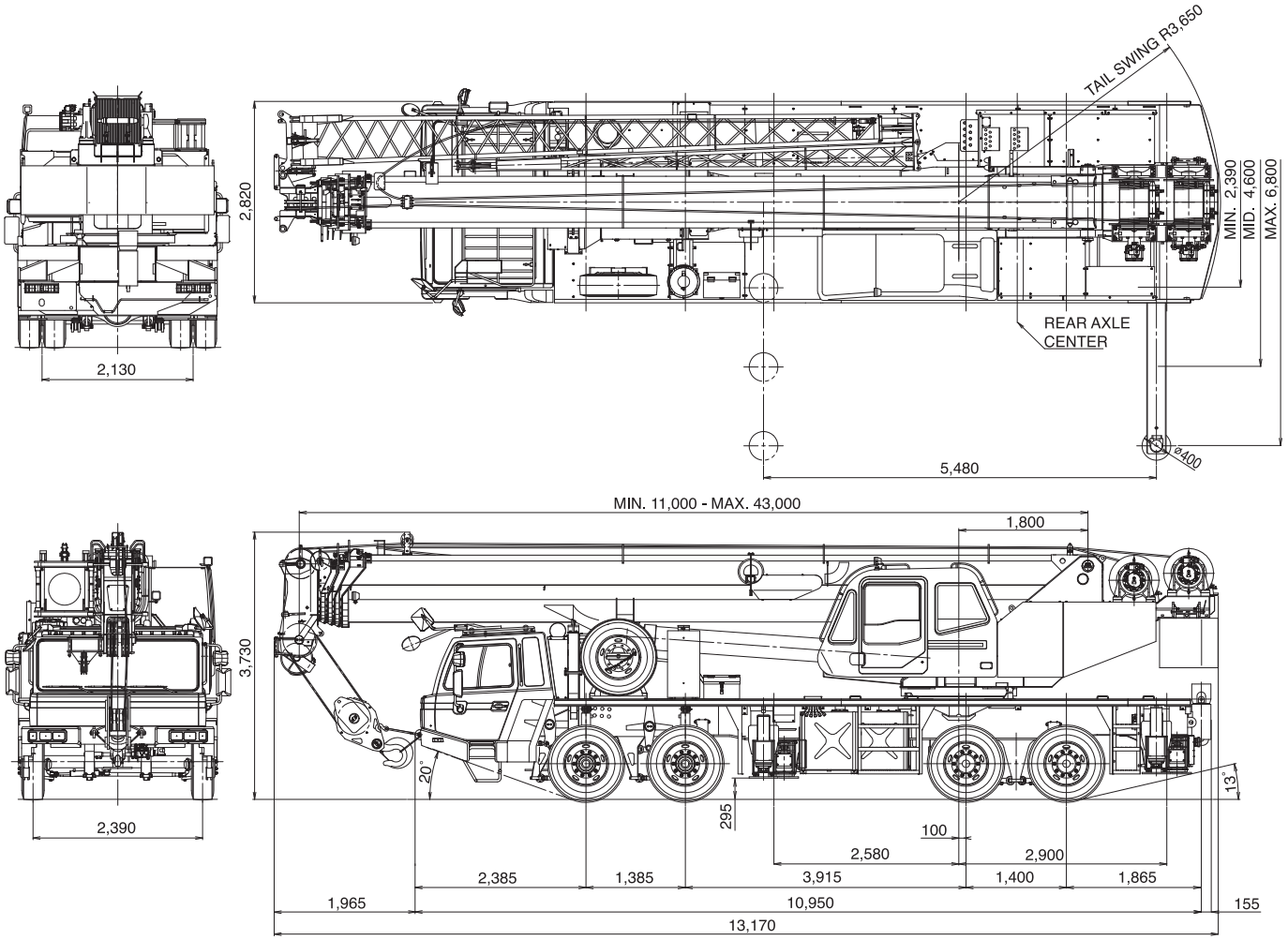
UNIT: kg CLASS OF CRANE ; C3

| Outriggers extended to middle (4.6m) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C | 39.0m Boom (telescoping mode Ⅱ) + 8.8m Jib | | | | | | 39.0m Boom (telescoping mode Ⅱ) + 15.2m Jib | | | | | |
| | 5° Tilt | | 25° Tilt | | 45° Tilt | | 5° Tilt | | 25° Tilt | | 45° Tilt | |
| | R | W | R | W | R | W | R | W | R | W | R | W |
| 81° | 8.1 | 4.40 | 11.0 | 3.58 | 13.0 | 2.47 | 10.2 | 2.60 | 15.0 | 1.69 | 18.4 | 1.17 |
| 80° | 9.0 | 4.40 | 11.9 | 3.50 | 13.8 | 2.44 | 11.3 | 2.60 | 16.0 | 1.65 | 19.3 | 1.15 |
| 79° | 9.9 | 4.21 | 12.7 | 3.30 | 14.6 | 2.40 | 12.3 | 2.60 | 17.0 | 1.61 | 20.1 | 1.13 |
| 78° | 10.7 | 3.70 | 13.5 | 2.94 | 15.5 | 2.37 | 13.4 | 2.60 | 17.9 | 1.58 | 21.0 | 1.12 |
| 77° | 11.4 | 3.25 | 14.3 | 2.62 | 16.3 | 2.34 | 14.2 | 2.31 | 18.8 | 1.54 | 21.9 | 1.10 |
| 76° | 12.2 | 2.86 | 15.0 | 2.33 | 16.9 | 2.10 | 15.0 | 1.99 | 19.8 | 1.50 | 22.7 | 1.09 |
| 75° | 13.0 | 2.52 | 15.7 | 2.06 | 17.7 | 1.88 | 15.8 | 1.72 | 20.6 | 1.31 | 23.5 | 1.08 |
| 73° | 14.5 | 1.94 | 17.2 | 1.61 | 19.0 | 1.48 | 17.5 | 1.26 | 22.1 | 0.98 | 25.0 | 0.87 |
| 70° | 16.8 | 1.26 | 19.3 | 1.06 | 21.0 | 0.99 | | | | | | |
| 68° | 18.3 | 0.91 | 20.7 | 0.76 | 22.2 | 0.72 | | | | | | |

UNIT: kg CLASS OF CRANE ; C3

| Outriggers extended to middle (4.6m) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C | 35.0m Boom (telescoping mode Ⅰ) + 8.8m Jib | | | | | | 35.0m Boom (telescoping mode Ⅰ) + 15.2m Jib | | | | | |
| | 5° Tilt | | 25° Tilt | | 45° Tilt | | 5° Tilt | | 25° Tilt | | 45° Tilt | |
| | R | W | R | W | R | W | R | W | R | W | R | W |
| 81° | 7.3 | 4.50 | 10.3 | 3.58 | 12.1 | 2.47 | 9.1 | 2.60 | 14.0 | 1.69 | 17.6 | 1.17 |
| 80° | 8.1 | 4.50 | 11.1 | 3.50 | 12.8 | 2.44 | 10.1 | 2.60 | 15.0 | 1.65 | 18.4 | 1.15 |
| 79° | 8.9 | 4.50 | 11.8 | 3.42 | 13.5 | 2.40 | 11.0 | 2.60 | 15.8 | 1.61 | 19.1 | 1.13 |
| 78° | 9.7 | 4.24 | 12.6 | 3.35 | 14.2 | 2.37 | 12.0 | 2.60 | 16.7 | 1.58 | 19.9 | 1.12 |
| 77° | 10.3 | 3.72 | 13.3 | 3.01 | 14.9 | 2.34 | 12.9 | 2.56 | 17.5 | 1.54 | 20.6 | 1.10 |
| 76° | 11.0 | 3.26 | 14.0 | 2.67 | 15.6 | 2.32 | 13.8 | 2.40 | 18.4 | 1.51 | 21.5 | 1.09 |
| 75° | 11.7 | 2.85 | 14.7 | 2.37 | 16.3 | 2.10 | 14.5 | 2.08 | 19.2 | 1.48 | 22.2 | 1.08 |
| 73° | 13.1 | 2.18 | 16.0 | 1.84 | 17.5 | 1.65 | 16.1 | 1.55 | 20.7 | 1.14 | 23.5 | 0.96 |
| 70° | 15.2 | 1.40 | 18.0 | 1.21 | 19.3 | 1.10 | 18.4 | 0.93 | | | | |
| 68° | 16.5 | 1.00 | 19.1 | 0.86 | 20.5 | 0.79 | | | | | | |

C: Boom angle
R: Load radius (m)
W: Rated lifting capacity (UNIT: x1,000kg)




## Axle weight distribution chart

| | | | Kilograms | | |
|---|---|---|---|---|---|
| | | | Total | Front | Rear |
| Base machine with 300L fuel<br>* incl. 35 t hook block (optional) | | | 41,500 | 16,000 | 25,500 |
| Remove | 1 | 5.6 t hook block | -150 | 75 | -225 |
| | 2 | Top jib (6.4m) | -225 | -200 | -25 |
| | 3 | Base jib (8.8m) | -500 | -550 | 50 |
| | 4 | Single top (Auxiliary boom sheave) | -50 | -100 | 50 |
| | 5 | Spare tire | -125 | -110 | -15 |
| | 6 | Spare tire bracket | -25 | -20 | -5 |
| | 7 | 35 t hook block (optional) | -410 | -700 | 290 |
| | 8 | Counter weight and pins | -4,380 | 1,960 | -6,340 |
| Add. | 1 | 60 t hook block (optional) | 570 | 970 | -400 |
| | 2 | 2 persons (driver and passenser) | 150 | 200 | -50 |

| | | | |
|---|---|---|---|
| Permissible axle load | 42,150 | 16,480 | 25,670 |

Specifications are subject to change without notice.

TADANO

TADANO LTD. (International Division)
4-12, Kamezawa 2-chome,
Sumida-ku, Tokyo 130-0014, Japan
Tel : +81-(0)3-3621-7750
Fax : +81-(0)3-3621-7785
URL http://www.tadano.com/
E-mail info@tadano.com

Printed in Japan

GT-600EX-2015-08-02