

PLANT

ACCESS

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REGENERATION
PROCESS

**ROCKET
RENTALS**

**JCB Telehandler
531-70**
Specification Sheet

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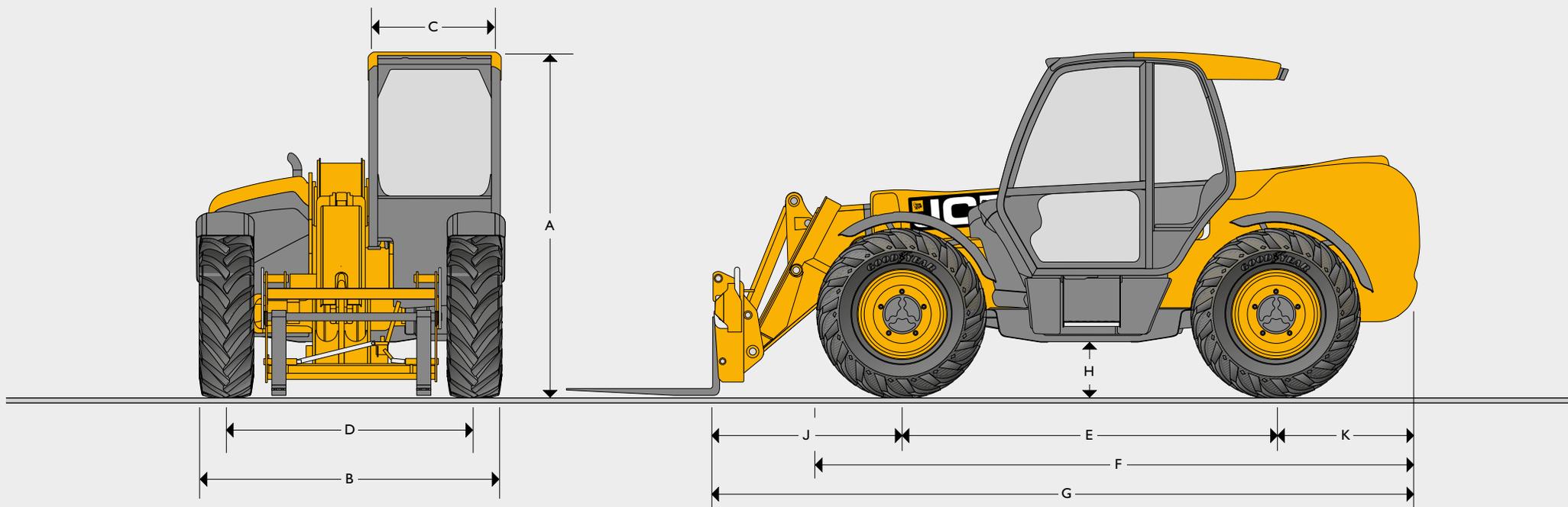
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STATIC DIMENSIONS



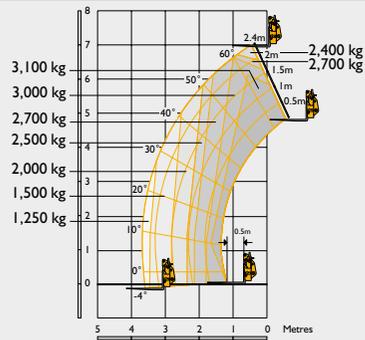
STATIC DIMENSIONS

| Machine model | | 531-70 | 541-70 | 535-95 | 533-105 | 535-125 HiViz | 540-140 HiViz | 540-170 | 540-180 HiViz | 540-200 |
|---|---------|-------------|-------------|-------------|-------------|---------------|---------------|-------------|---------------|-------------|
| A Overall height | m | 2.49 | 2.49 | 2.49 | 2.49 | 2.59 | 2.59 | 2.69 | 2.59 | 2.72 |
| B Overall width (over tyres)* | m | 2.23 | 2.23 | 2.36 | 2.36 | 2.35 | 2.35 | 2.44 | 2.35 | 2.44 |
| C Inside width of cab | m | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| D Front track | m | 1.81 | 1.81 | 1.87 | 1.87 | 1.90 | 1.90 | 1.90 | 1.90 | 1.97 |
| E Wheelbase | m | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 |
| F Overall length to front tyres | m | 4.38 | 4.38 | 4.38 | 4.38 | 4.74 | 4.74 | 5.08 | 4.75 | 5.09 |
| G Overall length to front carriage | m | 4.99 | 4.99 | 4.99 | 5.38 | 5.80 | 6.23 | 6.36 | 6.27 | 6.81 |
| H Ground clearance | m | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.41 |
| J Front wheel centre to carriage | m | 1.25 | 1.25 | 1.20 | 1.62 | 1.68 | 2.11 | 1.94 | 2.15 | 2.39 |
| K Rear wheel centre to rear face | m | 0.99 | 0.99 | 1.04 | 1.01 | 1.37 | 1.37 | 1.67 | 1.37 | 1.67 |
| Overall width with stabilisers fully deployed | m | NA | NA | NA | 2.63 | 2.57 | 2.57 | 3.55 | 3.39 | 3.82 |
| Outside turn radius (over tyres) | m | 3.7 | 3.7 | 3.7 | 3.7 | 3.75 | 3.75 | 4.1 | 3.75 | 4.1 |
| Carriage rollback angle | degrees | 42.6 | 42.6 | 41.0 | 41.2 | 37.0 | 37.0 | 39 | 36.5 | 39 |
| Carriage dump angle | degrees | 37.5 | 37.5 | 24.0 | 24.0 | 12.5 | 12.5 | 8.8 | 12.5 | 8.8 |
| Weight | kg | 7060 | 7850 | 8215 | 8850 | 10066 | 10880 | 12060 | 11380 | 12985 |
| Tyres | | 400/80 - 24 | 400/80 - 24 | 400/80 - 24 | 400/80 - 24 | 400/80 - 24 | 400/80 - 24 | 440/80 - 24 | 400/80 - 24 | 440/80 - 24 |

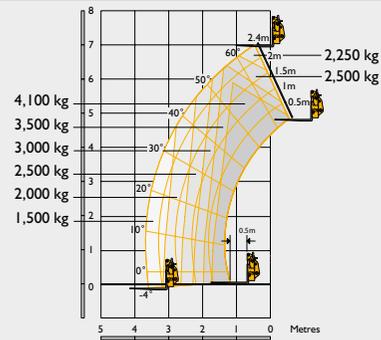
* Type dependent

LIFT PERFORMANCE

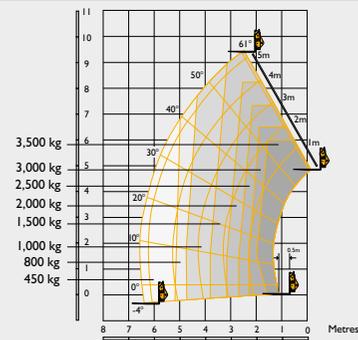
531-70



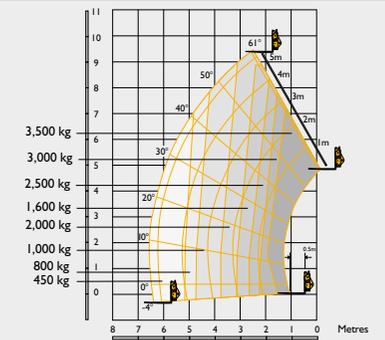
541-70



535-95



535-95 sway*

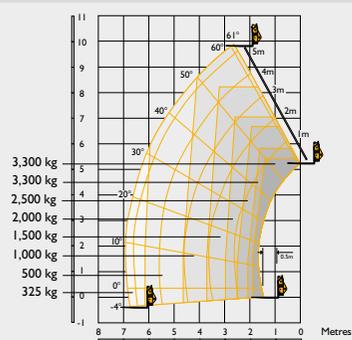


| | | | | | |
|------------------------------|----|------|------|------|------|
| Maximum lift capacity | kg | 3100 | 4100 | 3500 | 3500 |
| Lift capacity to full height | kg | 2400 | 2250 | 1500 | 1600 |
| Lift capacity at full reach | kg | 1250 | 1500 | 450 | 450 |
| Lift height | m | 7.0 | 7.0 | 9.50 | 9.50 |
| Reach at maximum lift height | m | 0.54 | 0.54 | 2.49 | 2.49 |
| Maximum forward reach | m | 3.7 | 3.7 | 6.52 | 6.52 |
| Reach with 1 tonne load | m | 3.7 | 3.7 | 4.73 | 4.73 |
| Placing height | m | 6.3 | 6.3 | 8.78 | 8.78 |

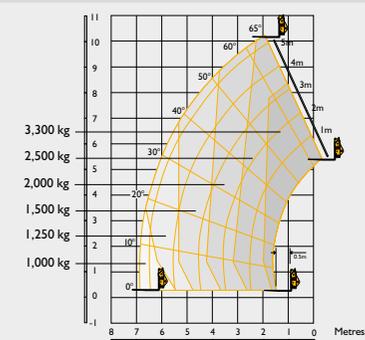
Complies with stability test EN 1459 Annex B. chassis levelling (sway) with stabilisers retracted (sway angle $\pm 9^\circ$).

LIFT PERFORMANCE

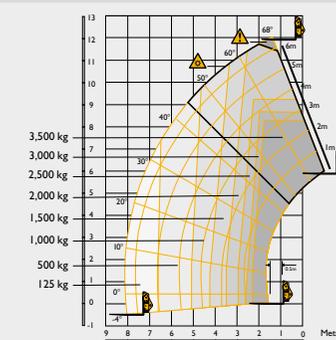
533-105 stabilisers retracted



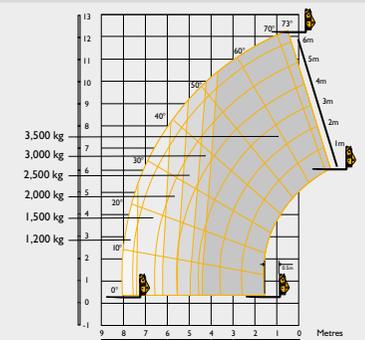
533-105 stabilisers extended



535-125 HiViz stabilisers retracted sway*



535-125 HiViz stabilisers extended sway*



| | | | | | |
|------------------------------|----|------|-------|------|-------|
| Maximum lift capacity | kg | 3300 | 3300 | 3500 | 3500 |
| Lift capacity to full height | kg | 1000 | 2500 | 1500 | 3500 |
| Lift capacity at full reach | kg | 325 | 1000 | 125 | 1200 |
| Lift height | m | 9.85 | 10.22 | 11.7 | 12.27 |
| Reach at maximum lift height | m | 2.69 | 1.99 | 2.01 | 0.54 |
| Maximum forward reach | m | 6.94 | 6.83 | 8.06 | 8.06 |
| Reach with 1 tonne load | m | 4.65 | 6.83 | 5.06 | 8.06 |
| Placing height | m | 9.44 | 9.82 | 11 | 11.75 |

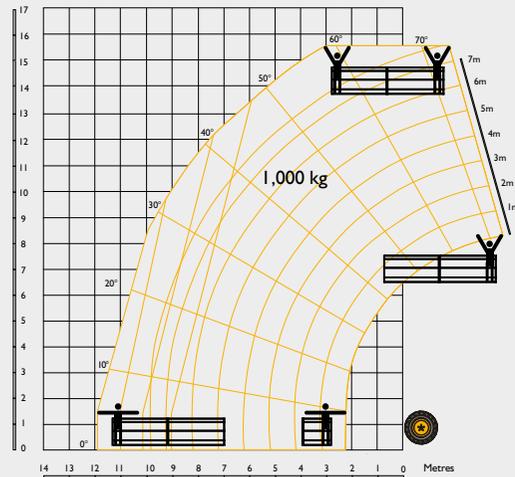
Complies with stability test EN 1459 Annex B. chassis levelling (sway) with stabilisers retracted (sway angle $\pm 9^\circ$).

* Sway levelling is optional, performance may vary when not fitted.

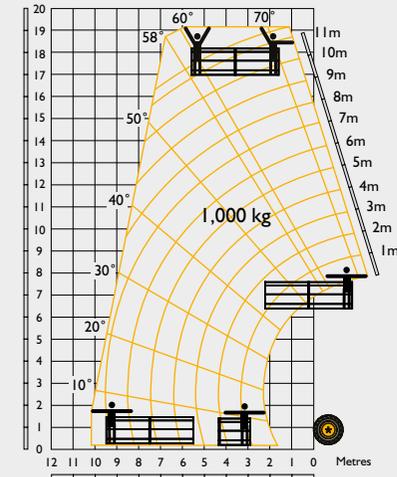
▲ Standard machine software interlock - 45° boom angle limit, configurable upon service request.

LIFT PERFORMANCE

540-140 HiViz 1000kg, 180° slewing man platform, stabilisers extended



540-180 HiViz 1000kg, 180° slewing man platform, stabilisers extended



| Platform capacity option | | 365kg platform | 500kg platform | 1000kg platform | 365kg platform | 500kg platform | 1000kg platform |
|---|----|----------------|----------------|-----------------|----------------|----------------|-----------------|
| Machine capacity | kg | 4000 | 4000 | 4000 | 4000 | 4000 | 4000 |
| Platform rated capacity | kg | 365 | 500 | 1000 | 365 | 500 | 1000 |
| Type (fixed / slewing) | | Fixed | Slewing - 180° | Slewing - 180° | Fixed | Slewing - 180° | Slewing - 180° |
| Capacity to full working height | kg | 365 | 500 | 1000 | 365 | 500 | 1000 |
| Capacity at full reach | kg | 365 | 150 | 150 | 365 | 150 | 150 |
| Maximum forward reach (slewed platform) | m | 11.1 | 12.21 | 11.85 | 13.85 | 13.16 | 12.5 |
| Personnel work height | m | 15.6 | 15.6 | 15.6 | 19.25 | 19.25 | 19.25 |

*1000kg basket requires rear run flat tyres to be fitted

POINT LOADS

At maximum machine lift capacity (i.e. 4 tonne on a 540-170)

| | | 531-70 | 541-70 | 535-95 | 533-105 | 535-125 HiViz | 540-140 HiViz | 540-170 | 540-180 HiViz | 540-200 |
|----------------------|----|--------|--------|--------|---------|---------------|---------------|---------|---------------|---------|
| Load per front wheel | kg | 4731 | 5616 | 5540 | 5565 | 6365 | 6880 | 7541 | 6560 | 7723 |
| Load per rear wheel | kg | 441 | 480 | 440 | 476 | 415 | 415 | 610 | 1131 | 730 |
| Load per stabiliser | kg | N/A | N/A | N/A | 4188 | 5151 | 6010 | 5824 | 6243 | 5760 |

With no load on the forks and boom retracted in travel position

| | | | | | | | | | | |
|----------------------|----|------|------|------|------|------|------|------|------|------|
| Load per front wheel | kg | 1803 | 1847 | 1957 | 2312 | 2499 | 2484 | 2694 | 2608 | 2992 |
| Load per rear wheel | kg | 1819 | 2200 | 2273 | 2078 | 2530 | 3060 | 3457 | 3462 | 3462 |

ENGINE

JCB 430 DieselMAX Stage V, 3 litre, 4 cylinder, turbo charged

| | 531-70 | 541-70 | 535-95 | 533-105 | 535-125 HiViz | 540-140 HiViz | 540-170 | 540-180 HiViz | 540-200 |
|---|----------|--------|----------|----------|---------------|---------------|----------|---------------|----------|
| Engine 55kW (74hp) @ 2200rpm, 440Nm torque at 1300rpm | Standard | N/A | Standard | Standard | Standard | Standard | Standard | Standard | Standard |

JCB 448 DieselMAX Stage V, 4.8 litre, 4 cylinder, turbo charged

| | 531-70 | 541-70 | 535-95 | 533-105 | 535-125 HiViz | 540-140 HiViz | 540-170 | 540-180 HiViz | 540-200 |
|--|--------|----------|--------|---------|---------------|---------------|---------|---------------|---------|
| Engine 81kW (109hp) @ 2200rpm, 516Nm torque at 1300rpm | Option | Standard | Option | Option | Option | Option | Option | Option | Option |

HYDRAULIC CYCLE TIMES

| | 531-70 | 541-70 | 535-95 | 533-105 | 535-125 HiViz | 540-140 HiViz | 540-170 | 540-180 HiViz | 540-200 |
|----------------|--------|--------|--------|---------|---------------|---------------|---------|---------------|---------|
| Boom raise s | 7.2 | 8.8 | 9.1 | 8.8 | 10.4 | 13.5 | 22.7 | 13.8 | 17.3 |
| Boom lower s | 5.4 | 6.5 | 7.7 | 8.5 | 8.1 | 11 | 23.4 | 10.2 | 15.9 |
| Extend s | 6.8 | 6.8 | 10.5 | 13.2 | 15.7 | 15.6 | 18.3 | 22.4 | 28.1 |
| Retract s | 5 | 5 | 11.2 | 13.6 | 12.8 | 14.4 | 16.7 | 17.9 | 22.7 |
| Bucket dump s | 3.5 | 3.5 | 2.4 | 2.4 | 2.9 | 2.9 | 4.2 | 2.9 | 6.1 |
| Bucket crowd s | 2.9 | 2.9 | 3.5 | 3.4 | 2.6 | 2.6 | 4.6 | 2.6 | 5.9 |

HYDRAULICS

| | Hydraulic System Pressure (bar) | Max. Pump flow (litres) |
|---------|---------------------------------|-------------------------|
| 531-70 | 240 | 82 |
| 541-70 | 260 | 82 |
| 535-95 | 240 | 82 |
| 533-105 | 240 | 82 |
| 535-125 | 260 | 110 |
| 540-140 | 260 | 110 |
| 540-170 | 260 | 170 |
| 540-180 | 260 | 110 |
| 540-200 | 260 | 110 |

NOISE AND VIBRATION

| | 55kW | 81kW | 93kW | Uncertainty | Measurement conditions. |
|-------------------------------------|------|------|------|-------------|---|
| Noise at the operator station LpA | 77 | 80 | 81 | +/- 1 dB | Determined in accordance with the test method defined in EN12053. |
| Noise emission from the machine LWA | 104 | 106 | 107 | +/- 1 dB | Guaranteed equivalent sound power (external noise) determined in accordance with the dynamic test conditions defined in 2000/14/EC. |
| Hand-arm vibration m/s ² | <2.5 | <2.5 | <2.5 | N/A | ISO 5349-2:2001 dynamic test conditions. |

TRANSMISSION

Torque converter, 4 speed powershift gearbox.
Travel speed 531-70, 541-70, 535-95, 533-105: 29kph, 33kph (when 2/4WD select is specified).
Travel speed 535-125, 540-140, 540-180: 29kph. Optional 33kph transmission.
Travel speed 540-170, 540-200: 29kph.

BRAKING

531-70, 541-70, 535-95, 533-105:
Servo-assisted: Front axle, oil-immersed multi-disc, automatic 4-wheel drive braking
Parking brake: Hand operated disc brake on gearbox output.
535-125, 540-140, 540-170, 540-180, 540-200:
Servo-assisted: Front and Rear axle, oil immersed multi-disc, automatic 4-wheel drive braking
Parking Brake: Hand operated disc brake on gearbox output.

CAB

Conforms to ROPS ISO 3471 and FOPS ISO 3449

OPTIONS

Front and rear working lights, rotating flashing beacon, fire extinguisher, traction and industrial tyres, electrical 2/4WD select, limited slip differential in front axle, windscreen and roof guard, air suspension seat, deluxe cab trim, roof and front screen blind, radio kit, air conditioning, reversing fan, deluxe trim, armrest (SLC only), roof moulding.
 Single lever mechanical joystick, with push button extend and retract.
 Single lever servo joystick option on 535-125, 540-140, 540-170, 540-180 & 540-200.
 Options of rear or rear & offside reversing cameras.
 Centralised greasing available on the 540-180 HiViz.



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