

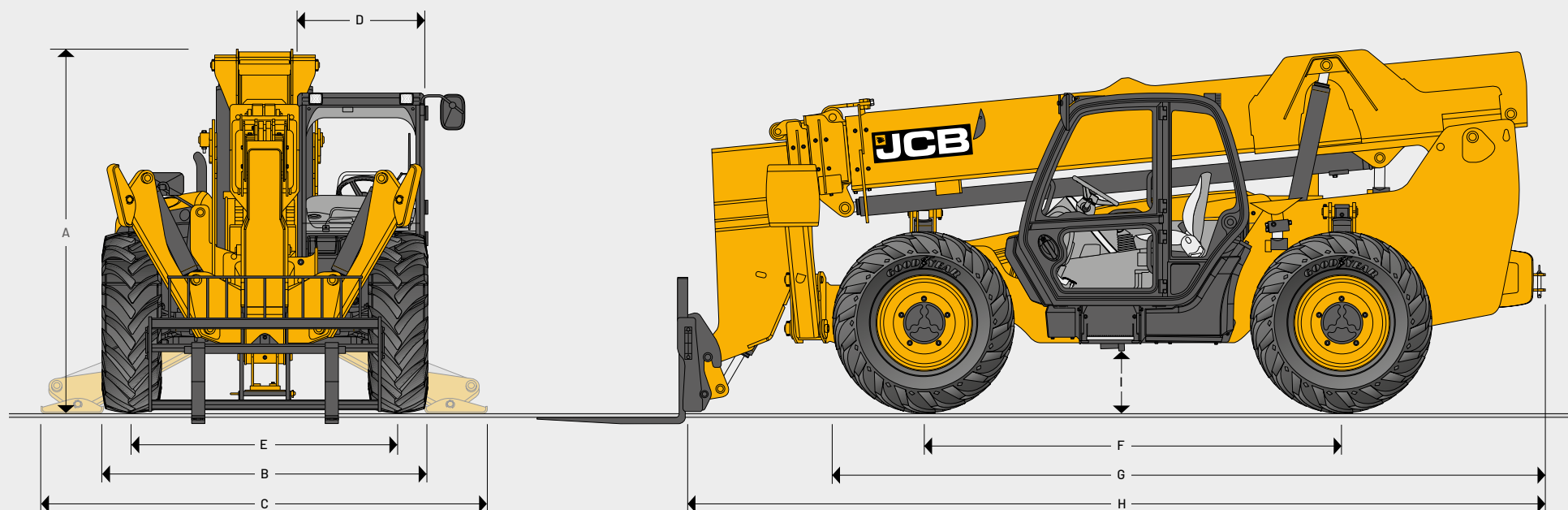
SPECIFICATION



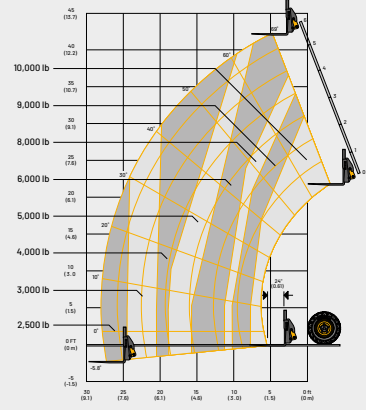
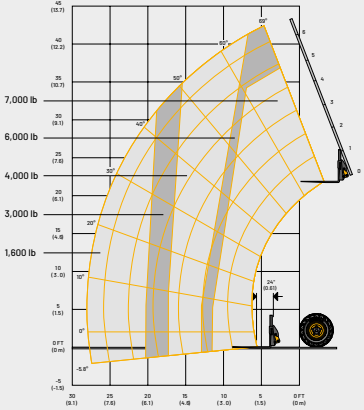
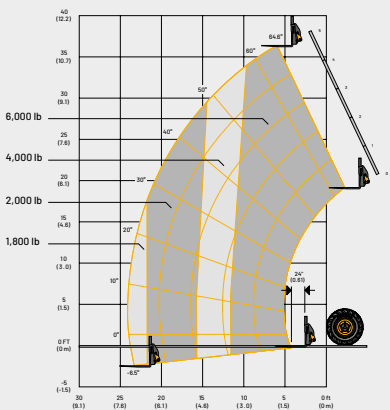
**LIFT & PLACE
TELEHANDLERS**



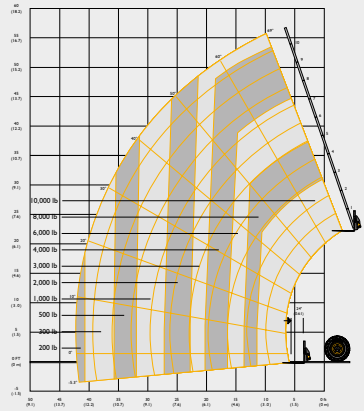
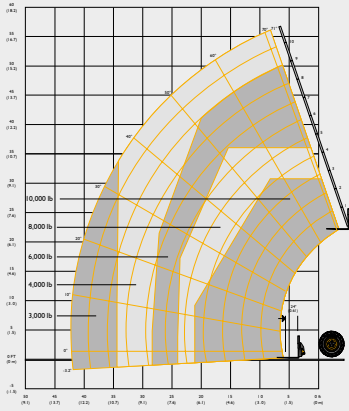
STATIC DIMENSIONS



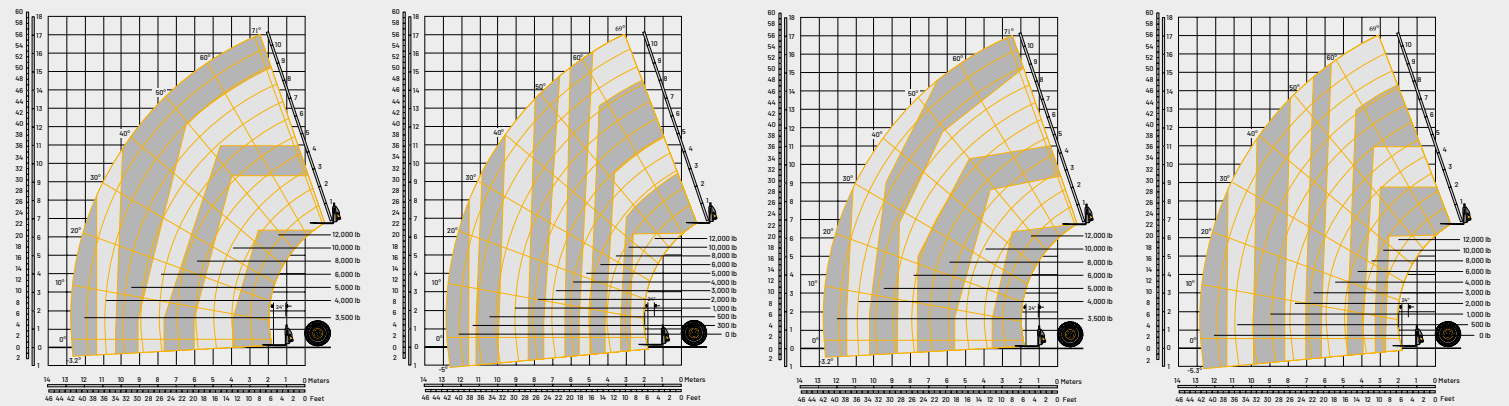
Machine model		506-36	507-42	509-42	510-42	510-56	512-56	514-56
A Overall height	ft-in (mm)	8-3 (2510)	8-3 (2525)	8-3 (2525)	8-3 (2525)	8-10 (2692)	8-10 (2692)	8-11 (2716)
B Overall width (over tires)	ft-in (mm)	7-10 (2388)	7-10 (2388)	7-10 (2388)	7-10 (2388)	8-1 (2471)	8-1 (2471)	8-1 (2475)
C Overall width (over deployed stabilizers legs)	ft-in (mm)	N/A	N/A	N/A	N/A	11-7 (3530)	11-7 (3530)	11-7 (3530)
D Inside width of cab	ft-in (mm)	3-1 (940)	3-1 (940)	3-1 (940)	3-1 (940)	3-1 (940)	3-1 (940)	3-1 (940)
E Front track	ft-in (mm)	6-4 (1936)	6-7 (2008)	6-7 (2008)	6-7 (2008)	6-7 (2008)	6-7 (2008)	6-7 (2008)
F Wheelbase	ft-in (mm)	10-4 (3150)	10-4 (3150)	10-4 (3150)	10-4 (3150)	10-4 (3150)	10-4 (3150)	10-4 (3150)
G Overall length to front tires	ft-in (mm)	17-1 (5211)	17-8 (5386)	17-0 (5183)	17-8 (5385)	17-9 (5406)	17-9 (5406)	18-4 (5596)
H Overall length to front carriage	ft-in (mm)	19-5 (5918)	21-3 (6477)	20-7 (6274)	21-3 (6477)	21-7 (6579)	21-7 (6579)	22-4 (6815)
I Ground clearance	ft-in (mm)	1-3½ (396)	1-3½ (396)	1-3½ (396)	1-3½ (396)	1-5½ (444)	1-5½ (444)	1-5½ (444)
Outside turn radius (over tires)	ft-in (mm)	14-6 (4420)	13-9 (4191)	13-9 (4191)	13-9 (4191)	14-1 (4293)	14-1 (4293)	14-4 (4365)
Weight	lb (kg)	20270 (9193)	21300 (9660)	22430 (10172)	23858 (10822)	29900 (13560)	30635 (13895)	32143 (14580)
Tires		13.00-24	14.00-24	14.00-24	14.00-24	17.5-25	17.5-25	17.5-25



Machine model		506-36	507-42	510-42
Lift height	ft-in (mm)	36-4 (11070)	42-0 (12800)	42-0 (12800)
Maximum lift capacity	lb (kg)	6000 (2722)	7000 (3175)	10000 (4537)
Lift capacity to full height (on tires)	lb (kg)	6000 (2722)	6000 (2722)	6000 (2722)
Lift capacity at full reach	lb (kg)	1800 (816)	1600 (725)	2500 (1133)
Reach at maximum lift height	ft-in (mm)	6-4 (1930)	4-11 (1500)	4-11 (1500)
Maximum forward reach	ft-in (mm)	24-0 (7310)	28-0 (8530)	28-0 (8530)
Frame sway left or right	degrees	10	10	10



Machine model		510-56 (stabilizers deployed)	510-56 (stabilizers raised)
Lift height	ft-in (mm)	56-0 (17070)	56-0 (17070)
Maximum lift capacity	lb (kg)	10000 (4537)	10000 (4537)
Lift capacity to full height	lb (kg)	4000 (1814)	3000 (1361)
Lift capacity at full reach	lb (kg)	3000 (1360)	300 (136)
Reach at maximum lift height	ft-in (mm)	8-2 (2490)	8-2 (2490)
Maximum forward reach	ft-in (mm)	42-0 (12800)	42-0 (12800)
Frame sway left or right	degrees	10	10



Machine model		512-56 (stabilizers deployed)	512-56 (stabilizers raised)	514-56 (stabilizers deployed)	514-56 (stabilizers raised)
Lift height	ft-in (mm)	56-0 (17070)		56-0 (17070)	
Maximum lift capacity	lb (kg)	12000 (5444)		14000 (6350)	
Lift capacity to full height	lb (kg)	5000 (2268)	4000 (1814)	5000 (2268)	4000 (1814)
Lift capacity at full reach	lb (kg)	3500 (1587)	300 (136)	3500 (1587)	500 (227)
Reach at maximum lift height	ft-in (mm)	8-2 (2490)		8-2 (2490)	
Maximum forward reach	ft-in (mm)	42-0 (12800)		42-0 (12800)	
Frame sway left or right	degrees	10		10	

Load charts are graphic representations, please consult technical load charts for full details.

CYCLE TIMES								
Machine model		506-36	507-42	509-42	510-42	510-56	512-56	514-56
Lift	Seconds	11.2	11.7	13.8	13.8	18	18	16.8
Lower	Seconds	7.3	7.6	9.2	9.2	12.4	12.4	15.5
Extend	Seconds	8.5	9.7	9.7	9.7	24.2	24.2	22.7
Retract	Seconds	9.9	10.6	10.6	10.6	16.4	16.4	16.4
Bucket dump	Seconds	4	4	4	4	6.4	6.4	6.4
Bucket crowd	Seconds	3	3	3	3	3.7	3.7	4.5
Stabilizer down	Seconds	N/A	N/A	N/A	N/A	5.5	5.5	5.5
Stabilizer up	Seconds	N/A	N/A	N/A	N/A	4	4	4
Rear Axle Stabilization (RAS) System	Seconds	No	Yes	Yes	Yes	Yes	Yes	Yes

ENGINE			
Machine model		506-36 / 507-42 / 509-42	509-42 / 510-56 / 512-56 / 514-56
Emissions level		EPA Tier 4 Final	
Manufacturer		JCB	
Displacement		litr4.4	
No. of cylinders		4	
Bore size		in (mm)4.05" (103)	
Stroke		in (mm)5.0" (132)	
Aspiration		Turbocharged cooled & Intercooler	
Power rating			
Power @ 2200rpm		hp (kW)74 (55)	109 (81)
Torque rating			
Torque @ 1300rpm		ft-lbs (Nm)295 (400)	378 (513)
After treatment		N/A	SCR & DEF

SERVICE CAPACITIES		
Hydraulic tank	gallon (litres)	35 (132)
Coolant	gallon (litres)	6 (23)
Engine oil sump	gallon (litres)	3.6 (14)
Fuel tank (Diesel)	gallon (litres)	33.3 (126.3)
DEF tank (AdBlue)	gallon (litres)	4.5 (17.3)

ELECTRICAL SYSTEM		
System Voltage	Volt	12
Alternator	Amp/hour	95
Battery capacity	Amp/hour	95

HYDRAULIC SYSTEM			
Machine model		(506-36)	(507-42 to 512-56)
Pump type		Two stage gear pump with suction strainer and filter	Variable displacement piston pump with suction strainer and filter
Max. pump flow	gal/min (l/min)	29 (110)	40.4 (153)
Hydraulic system pressure	PSI (bar)	3770 (260)	

GROUND PRESSURE								
Machine model		506-36	507-42	509-42	510-42	510-56	512-56	514-56
Air	Max PSI	122	132	148	162	140	138	153
Solid/Foam	Max PSI	174	199	207	212	226	232	243
Stabilizers	Max PSI	-	-	-	-	105	111	123

TRANSMISSION	JCB Powershift transmission incorporating torque converter, bevel box and a 4-speed Powershift gearbox in one resiliently mounted unit. Travel speed: 15.5 mph (25 kph).
AXLES	JCB drive and steer axles: Front and rear with epicyclic hub reduction and Max-Trac torque proportioning differentials.
BRAKES	Service brakes: Hydraulically activated, self-adjusting, oil-immersed in-board high back-off multi-disc type on front axle. Parking brake: Electro switch-operate, SAHR (Spring Applied Hydraulic Release) (507-42 to 514-56). Parking brake: Hand-operated, cable mechanical (506-36).
STEERING	Three steer modes: Front wheel steer; all wheel steer; crab steer: selected from in the cab with a lever. Hydrostatic power steering with power track rods on both axles.
HYDRAULICS	1x set of double-acting hydraulic auxiliary connection ports. Self-levelling carriage with parallel lift system to keep forks level through boom arch.
OPERATOR ENVIRONMENT	Conforms to ROPS ISO 3471 and FOPS ISO 3449. Cab cash instruments (tachometer, road speed indicator, hour meter, engine temperature, fuel gauge, DEF gauge (when applicable) and clock. Audio-visual warning system for coolant temperature, water in fuel, engine oil pressure, air cleaner, battery charge, transmission oil temperature and pressure. Adjustable steering column with stalk bar (forward/neutral/reverse shuttle) Throttle and brake pedal floor mounted.
CAB	Tinted glass all round with laminated front and roof screen, split stable door with steel lower and glass upper. Front, rear and roof screen wipers with washer Air conditioned and heater/screen demister and face level fan Adjustable suspension cloth or vinyl seat. Optional deluxe cab pack: Radio ready kit with aerial and speakers, sun blinds, additional mirrors.
CANOPY	Open canopy with roof bars and tinted glass right hand side and rear. Face-level fan. Adjustable suspension vinyl seat.
STANDARD FEATURES	Safety/Maintenance strut, battery isolator. Fenders, recover and tie down points, external mirrors. JCB LiveLink Telematics (including 5-year subscription).
ATTACHMENTS	Selection of attachments available which can include: Forks and frame, hydraulic fork positioner, side shift carriage, tilt carriage, swing carriage, fork-mounted spreader bar, fork-mounted lift hook, fork-mounted jib (extendable to 12ft).
HOMOLOGATION	ANSI/ISTSDF B56.6 compliant machines

Option offering is model dependent and is subject to change; contact local JCB dealer for current offering and a quote.

OPTIONS AND ACCESSORIES

Machine model	506-36	507-42	509-42	510-42	510-56	512-56	514-56
Hydraulic system							
Front hydraulic auxiliary quick coupling	●	●	●	●	●	●	●
Sway chassis leveling (-/+ 10°)	●	●	●	●	●	●	●
Rear Axle Stabilization system	N/A	●	●	●	●	●	●
Hose Burst check valves	●	●	●	●	●	●	●
Stabilizer legs/outriggers – front	N/A	N/A	N/A	N/A	●	●	●
Boom Safety Strut	●	●	●	●	●	●	●
Lifting equipment							
Integrated lifting hook	N/A	●	●	●	●	●	●
Quick hitch coupler	●	●	●	●	●	●	N/A
Operator environment							
Canopy with Fan	●	●	●	●	●	●	●
Cab with Air Conditioning & Heater	○	○	○	○	○	○	○
Reverse travel alarm	●	●	●	●	●	●	●
Reverse travel alarm – White noise	○	○	○	○	○	○	○
Reverse camera	○	○	○	○	○	○	○
Reverse & right-hand side cameras	○	○	○	○	○	○	○
Cab protection kit: front & roof screen guard	○	○	○	○	○	○	○
Immobilizer keypad	○	○	○	○	○	○	○
Halogen work light package (2x Cab Front, 2x Cab Rear)	●	●	●	●	●	●	●
LED work light package (2x Cab Front, 2x Cab Rear, 2x Boom)	○	○	○	○	○	○	○
Cab package (Radio ready kit (aerial, power & speakers) Sun blinds (front & roof) Additional external mirrors).	○	○	○	○	○	○	○
Features							
Road lighting (front & rear side, dip & main beam, reverse, turn signals & flashing hazard lights).	○	○	○	○	○	○	○
Flashing amber beacon	●	●	●	●	●	●	●
Flashing green beacon (seatbelt engaged indicator) with Hi-Viz orange 3" belt	○	○	○	○	○	○	○
Fire extinguisher	○	○	○	○	○	○	○
Engine block heater (110V plug in) and air intake grid heater	●	●	●	●	●	●	●
Arctic kit – (Hydraulic Tank Heater, Cold Temperature Specification Hoses & Electrical Harnesses, Battery Heater, Engine Sump Heater, Arctic Diesel. (rated to -40°F (-40°C))	○	○	○	○	○	○	○
Oil Evacuation System	○	○	○	○	○	○	○
Biodegradable hydraulic oil	○	○	○	○	○	○	○
Recovery hitch – rear	●	●	●	●	●	●	●
Tires							
Pneumatic	●	●	●	●	●	●	●
Foam Filled – Black	○	○	○	○	○	○	○
Foam Filled – Grey non-marking	○	○	○	○	○	○	○
Semi Solid – Black	○	○	○	○	○	○	○
Semi Solid – Grey non-marking	○	○	○	○	○	○	○

● Standard

○ Option



LIFT & PLACE TELEHANDLERS

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