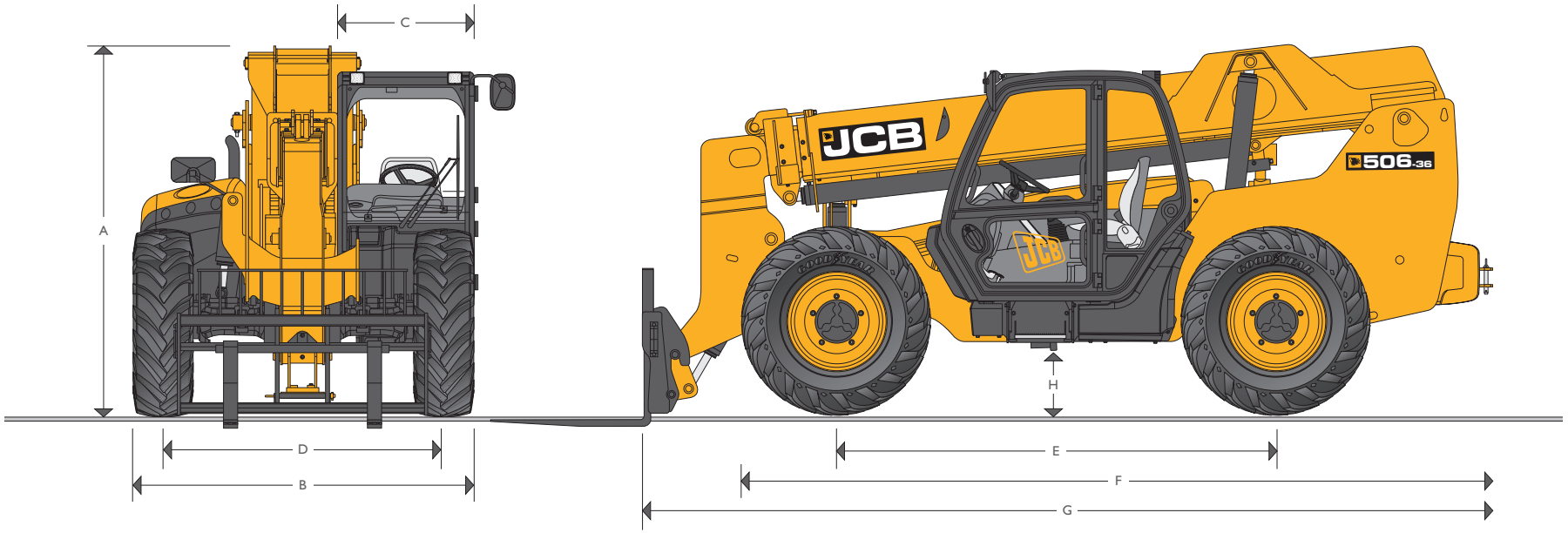
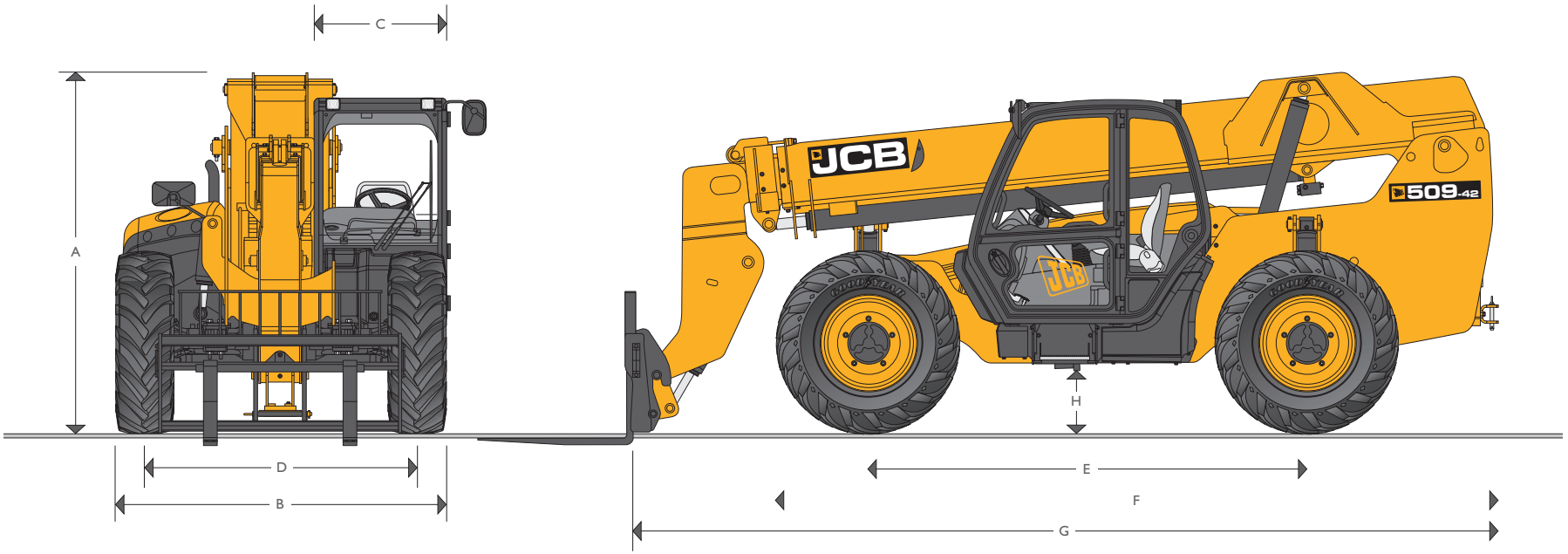


STATIC DIMENSIONS 506-36

A	Overall Height	ft-in (mm)	8-3 (2510)
B	Overall Width	ft-in (mm)	7-10 (2388)
C	Inside Width of Cab	ft-in (mm)	3-3 (940)
D	Front Track	ft-in (mm)	6-4 (1936)
E	Wheelbase	ft-in (mm)	10-0 (3048)
F	Overall Length to Front Tires	ft-in (mm)	17-1 (5211)

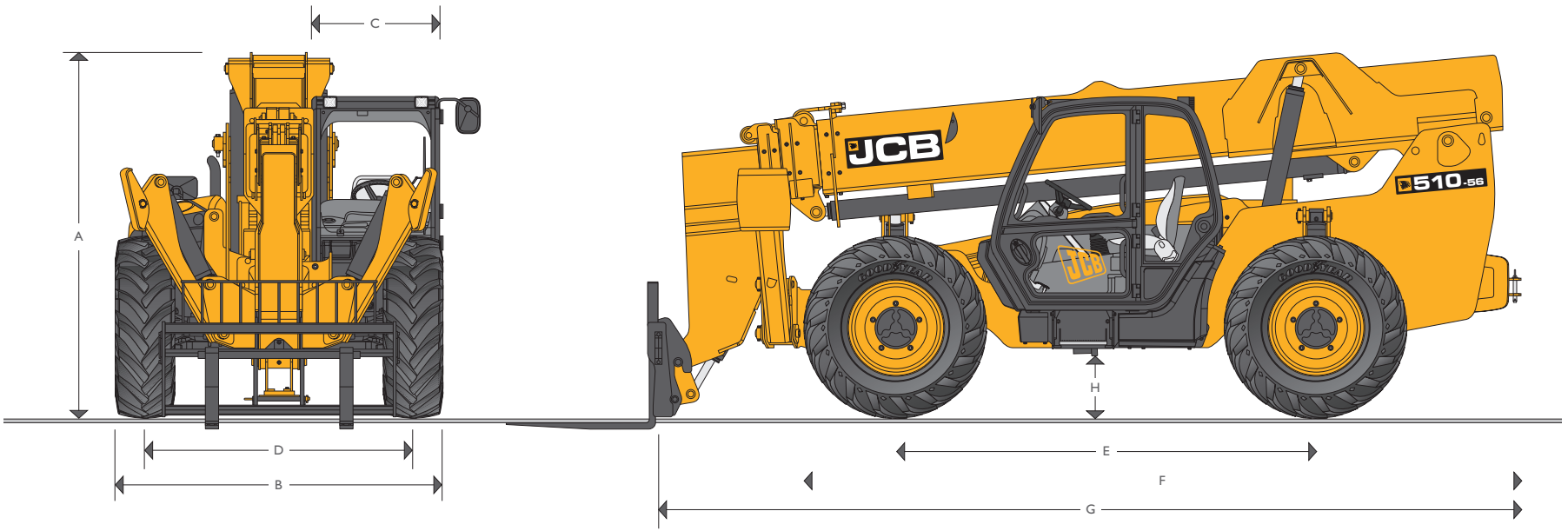
G	Overall Length to Front of Carriage	ft-in (mm)	19-5 (5918)
H	Ground Clearance	ft-in (mm)	1-3½ (396)
	Outside Turn Radius (over tires)	ft-in (mm)	14-6 (4420)
	Tires		13.00-24
	Weight (unladen)	lb (kg)	20,270 (9193)



STATIC DIMENSIONS 509-42

A	Overall Height	ft-in (mm)	8-3 (2525)
B	Overall Width	ft-in (mm)	7-10 (2388)
C	Inside Width of Cab	ft-in (mm)	3-3 (940)
D	Front Track	ft-in (mm)	6-7 (2008)
E	Wheelbase	ft-in (mm)	10-4 (3150)
F	Overall Length to Front Tires	ft-in (mm)	17-0 (5183)

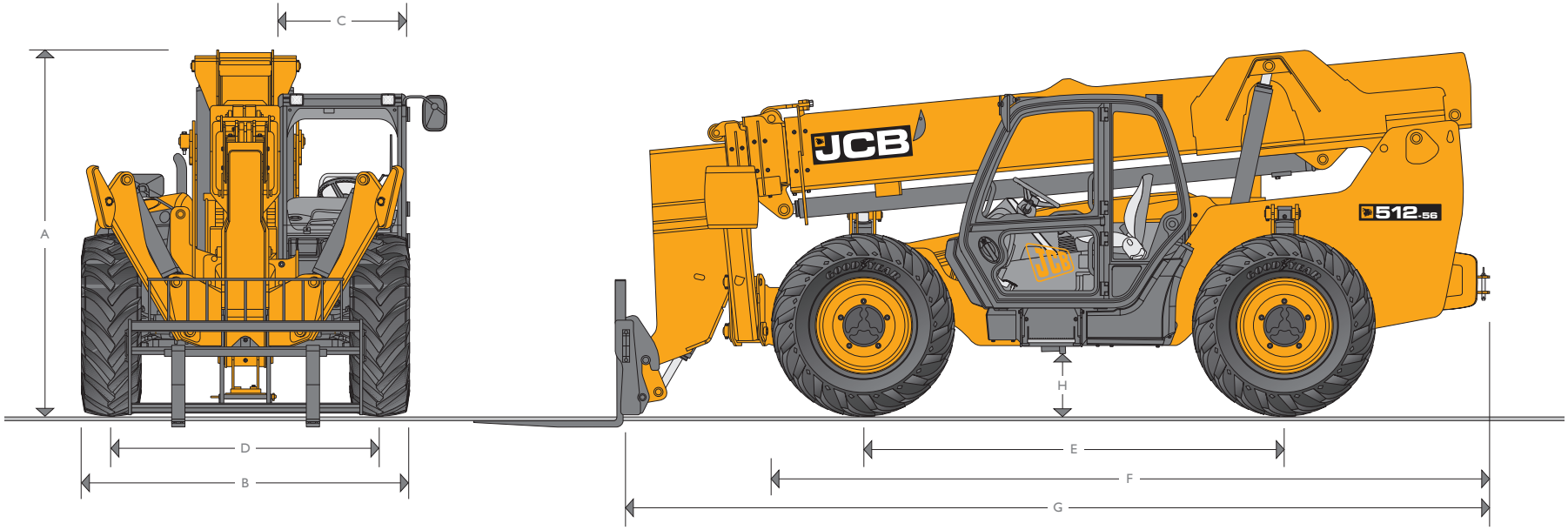
G	Overall Length to Front of Carriage	ft-in (mm)	20-7 (6274)
H	Ground Clearance	ft-in (mm)	1-3½ (396)
	Outside Turn Radius (over tires)	ft-in (mm)	13-9 (4191)
	Tires		14.00-24 16PR
	Weight (unladen)	lb (kg)	22,430 (10,172)



STATIC DIMENSIONS 510-56

A	Overall Height	ft-in (mm)	8-10 (2692)
B	Overall Width	ft-in (mm)	8-1 (2471)
C	Inside Width of Cab	ft-in (mm)	3-1 (940)
D	Front Track	ft-in (mm)	6-7 (2008)
E	Wheelbase	ft-in (mm)	10-4 (3150)
F	Overall Length to Front Tires	ft-in (mm)	17-9 (5406)

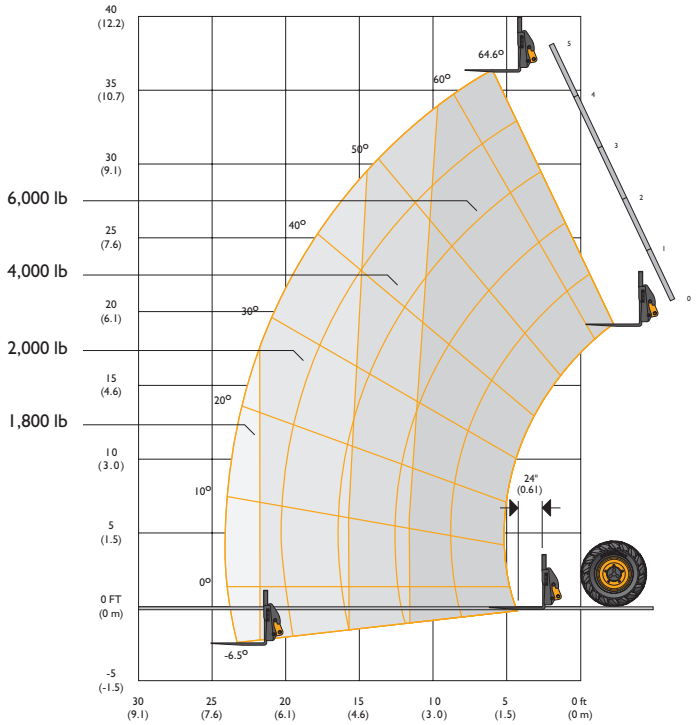
G	Overall Length to Front of Carriage	ft-in (mm)	21-7 (6579)
H	Ground Clearance	ft-in (mm)	1-5½ (444)
	Outside Turn Radius (over tires)	ft-in (mm)	14-1 (4293)
	Tires		17.5-25
	Weight (unladen)	lb (kg)	29,900 (13,560)



STATIC DIMENSIONS 512-56

A	Overall Height	ft-in (mm)	8-10 (2692)
B	Overall Width	ft-in (mm)	8-1 (2471)
C	Inside Width of Cab	ft-in (mm)	3-1 (940)
D	Front Track	ft-in (mm)	6-7 (2008)
E	Wheelbase	ft-in (mm)	10-4 (3150)
F	Overall Length to Front Tires	ft-in (mm)	17-9 (5406)
G	Overall Length to Front of Carriage	ft-in (mm)	21-7 (6579)
H	Ground Clearance	ft-in (mm)	1-5½ (444)
	Outside Turn Radius (over tires)	ft-in (mm)	14-1 (4293)
	Tires		17.5-25
	Weight (unladen)	lb (kg)	30,635 (13,900)

LIFT PERFORMANCE



This load chart is for the rated capacity of the machine with 66" wide standard carriage and 48" pallet forks. Use only JCB approved attachments and check the relevant load chart for the machine model. If in doubt, consult your dealer.

If the load rating of the machine differs to that of the attachment, the lower rating becomes the overall capacity.

LIFT PERFORMANCE

Maximum Lift Capacity	lb (kg)	6000 (2722)
Lift Capacity to Full Height	lb (kg)	6000 (2722)
Lift Capacity at Full Reach	lb (kg)	1800 (816)
Lift Height	ft-in (m)	36-4 (11.07)
Reach at Maximum Lift Height	ft-in (m)	6-4 (1.93)
Maximum Forward Reach	ft-in (m)	24-0 (7.31)
Frame Sway Left or Right	degrees	10°

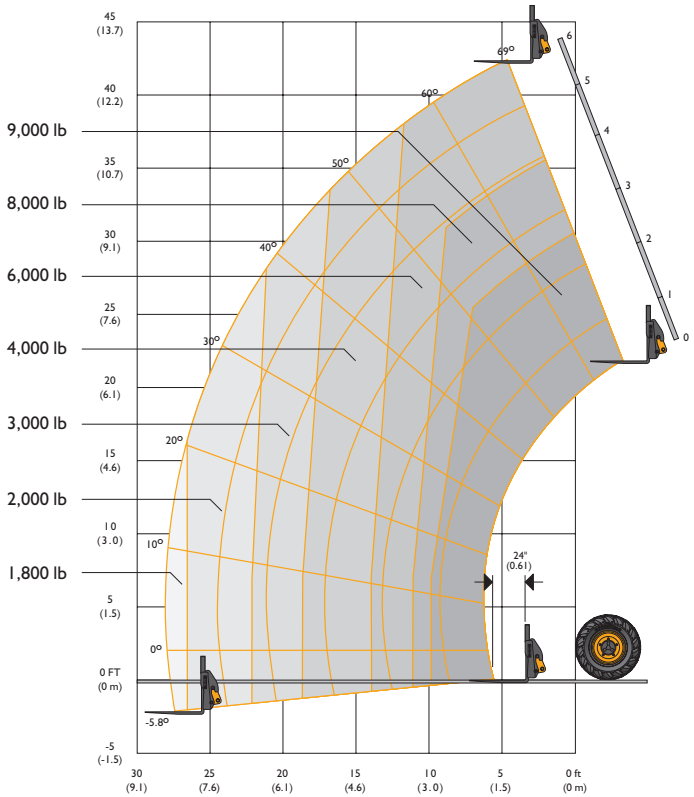
Complies with ASME B56.6 2002

ENGINE

Latest technology and advanced design provides low fuel consumption, reduced noise, high torque and power output, total reliability and minimal maintenance. Two-stage, dry type air filter with primary and safety elements. EPA Tier III, EU Stage 3 emissions compliant.

Machine Model – 506-36		**Standard**	**Optional**
Displacement	in^3 (l)	269 (4.4)	269 (4.4)
Number of Cylinders		4	4
Bore Size	in (mm)	4.05 (103)	4.05 (103)
Stroke	in (mm)	5.0 (132)	5.0 (132)
Aspiration		Turbo	Turbo
Power Rating			
Power @ 2200 rpm	hp (kW)	85 (63)	100 (74.2)
Torque Rating			
Torque @ 1200 rpm	lb ft (nm)	267 (362)	–
Torque @ 1300 rpm	lb ft (nm)	–	324 (440)

LIFT PERFORMANCE



This load chart is for the rated capacity of the machine with 66" wide standard carriage and 48" pallet forks. Use only JCB approved attachments and check the relevant load chart for the machine model.If in doubt, consult your dealer.

If the load rating of the machine differs to that of the attachment, the lower rating becomes the overall capacity.

LIFT PERFORMANCE

Maximum Lift Capacity	lb (kg)	9000 (4084)
Lift Capacity to Full Height	lb (kg)	6000 (2722)
Lift Capacity at Full Reach	lb (kg)	1800 (816)
Lift Height	ft-in (m)	42-0 (12.8)
Reach at Maximum Lift Height	ft-in (m)	4-11 (1.50)
Maximum Forward Reach	ft-in (m)	28-0 (8.53)
Frame Sway Left or Right	degrees	10°

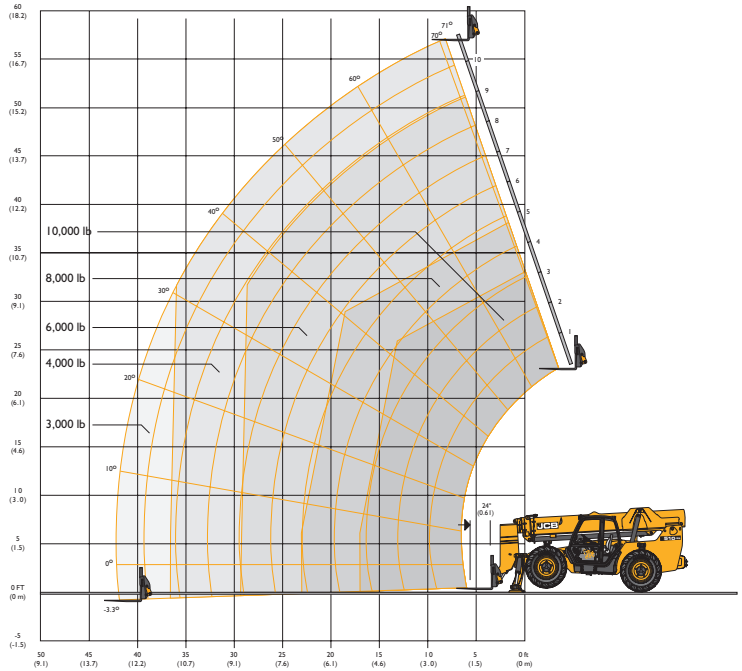
Complies with ASME B56.6 2002

ENGINE

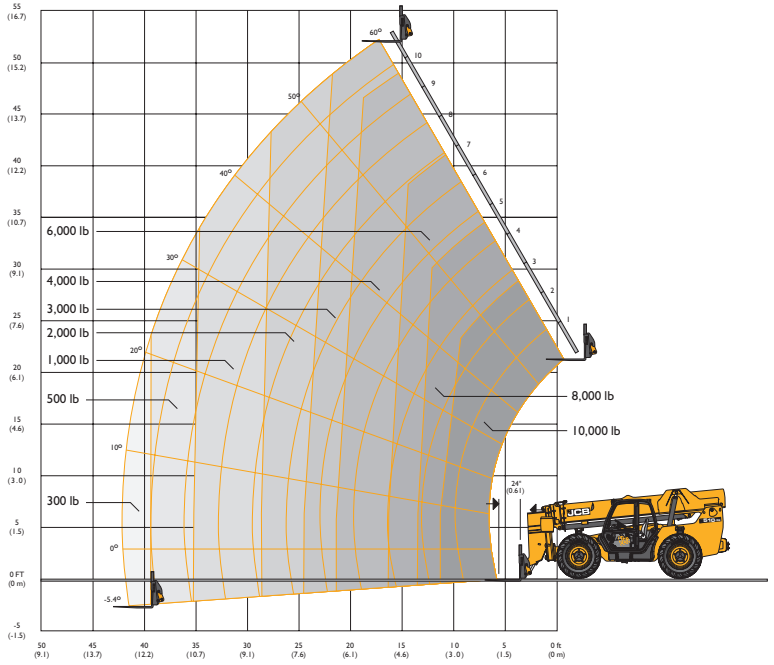
Latest technology and advanced design provides low fuel consumption, reduced noise, high torque and power output, total reliability and minimal maintenance. Two-stage, dry type air filter with primary and safety elements.

Machine Model – 509-42		**Standard**
Displacement	in^3 (l)	269 (4.4)
Number of Cylinders		4
Bore Size	in (mm)	4.05 (103)
Stroke	in (mm)	5.0 (132)
Aspiration		Turbo
Power Rating		
Power @ 2200 rpm	hp (kW)	100 (74.2)
Torque Rating		
Torque @ 1300 rpm	lb ft (nm)	324 (440)

LIFT PERFORMANCE – STABILIZERS EXTENDED



LIFT PERFORMANCE – STABILIZERS RETRACTED



These load charts are for the rated capacity of the machine with 66" wide standard carriage and 48" pallet forks. Use only JCB approved attachments and check the relevant load chart for the machine model.

ENGINE

Latest technology and advanced design provides low fuel consumption, reduced noise, high torque and power output, total reliability and minimal maintenance. Two-stage, dry type air filter with primary and safety elements. EPA Tier III and EU Stage 3 emission compliant.

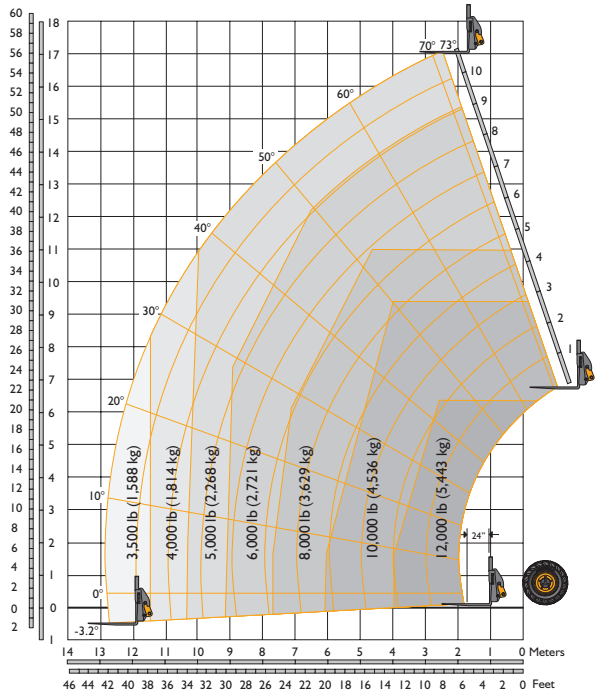
Machine Model – 510-56		Standard
Displacement	in^3 (l)	269 (4.4)
Number of Cylinders		4
Bore Size	in (mm)	4.05 (103)
Stroke	in (mm)	5.0 (132)
Aspiration		Turbo
Power Rating		
Power @ 2200 rpm	hp (kW)	114 (85)
Torque Rating		
Torque @ 1300 rpm	lb ft (nm)	324 (440)

LIFT PERFORMANCE

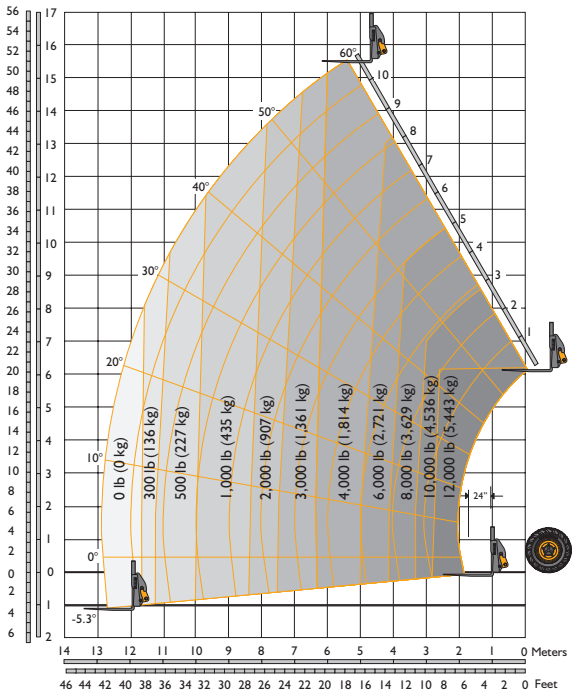
Maximum Capacity	lb (kg)	10,000 (4537)
Lift Capacity to 52 ft (on tires)	lb (kg)	3000 (1361)
Lift Capacity to Full Height (on stabilizers)	lb (kg)	4000 (1814)
Lift Capacity at Full Reach (on tires)	lb (kg)	300 (136)
Lift Capacity at Full Reach (on stabilizers)	lb (kg)	3000 (1360)
Lift Height	ft-in (m)	56 (17.07)
Reach at Maximum Lift Height	ft-in (m)	8-2 (2.49)
Maximum Forward Reach	ft-in (m)	42 (12.80)
Frame Sway Left or Right	degrees	10

Complies with ANSI/ITSDF B56.6

LIFT PERFORMANCE – STABILIZERS EXTENDED



LIFT PERFORMANCE – STABILIZERS RETRACTED



These load charts are for the rated capacity of the machine with 72" wide standard carriage and 48" pallet forks.

ENGINE

Latest technology and advanced design provides low fuel consumption, reduced noise, high torque and power output, total reliability and minimal maintenance. Two-stage, dry type air filter with primary and safety elements. EPA Tier III and EU Stage 3 emission compliant.

Machine Model – 512-56		Standard
Displacement	in^3 (l)	269 (4.4)
Number of Cylinders		4
Bore Size	in (mm)	4.05 (103)
Stroke	in (mm)	5.0 (132)
Aspiration		Turbo
Power Rating		
Power @ 2200 rpm	hp (kW)	114 (85)
Torque Rating		
Torque @ 1300 rpm	lb ft (nm)	324 (440)

LIFT PERFORMANCE

Maximum Capacity	lb (kg)	12,000 (5444)
Lift Capacity to 52 ft (on tires)	lb (kg)	4000 (1814)
Lift Capacity to Full Height (on stabilizers)	lb (kg)	5000 (2268)
Lift Capacity at 38 ft Reach (on tires)	lb (kg)	300 (136)
Lift Capacity at Full Reach (on stabilizers)	lb (kg)	3500 (1588)
Lift Height	ft-in (m)	56 (17.07)
Reach at Maximum Lift Height	ft-in (m)	8-2 (2.49)
Maximum Forward Reach	ft-in (m)	42 (12.80)
Frame Sway Left or Right	degrees	10

Complies with ANSI/ITSDF B56.6

TRANSMISSION

JCB powershift transmission incorporating torque converter, bevel box and a 4 speed powershift gearbox in one resiliently mounted unit.
A combined steering column mounted switch incorporating directional control and 4 forward and 4 reverse powershift gears.
Travel Speed 15.5 mph (25 kph).
Front and Rear Drive Axles: JCB epicyclic hub reduction drive/steer axles with Max-Trac torque proportioning differentials. Permanent 4 wheel drive.

BRAKES

Service Brakes: Servo-assisted-hydraulically activated, self-adjusting, oil-immersed multi-disc type. 506-36 In front axle, 509-42, 510-56 and 512-56 In front and rear axles.
Parking Brake: Hand operated disc brake on output of gearbox.

BOOM AND CARRIAGE

Boom is manufactured from high tensile steel.
Low maintenance, hard wearing pads.
JCB Toolcarrier for quick attachment changes.
One boom end auxiliary hydraulic service fitted as standard.

SAFETY CHECK VALVES

Fitted to carriage tilt, telescopic and boom lift rams.

SERVICE CAPACITIES

Fuel Tank	gal (l)	35 (132)
Hydraulic Tank	gal (l)	34 (128)
Coolant	gal (l)	6 (23)

Hydraulic Cycle Times (seconds)	506-36	509-42	510-56 / 512-56
Boom Raise	11.2	13.8	18.0
Boom Lower	7.3	9.2	12.4
Extend	8.5	9.7	24.2
Retract	9.9	10.6	6.4
Forks Dump	4.0	4.0	6.4
Forks Crowd	3.0	3.0	3.7
Stabilizer Down			5.5
Stabilizer Up			4.0
Rear Axle Stabilization (RAS) System.	No	Yes	Yes

HYDRAULICS

Two stage gear pump with suction strainer and filter.

Operating System Pressure	psi (bar)	3770 (260)
Pump Flow	gal/min (l/min)	29 (110)

ELECTRICS

12 V negative earth. 130 AH battery. 95 amp alternator. Reverse alarm.

CAB

Quiet, safe and comfortable cab conforms to ROPS ISO 3471 and FOPS ISO 3449. Available as safety frame or fully enclosed. Both feature all time display hour meter, visible from outside the cab. Glazed RH side and rear window as standard. Audio-visual warning system for coolant temperature, engine oil pressure, air cleaner, battery charge, transmission oil temperature and pressure, water in fuel. Engine speed indicator, engine temperature, fuel gauge, clock and lateral inclinometer. Indication of rear axle stabilization mode of operation. (510-56 and 512-56 indication of stabilizers when on firm ground)

Oil servo joystick to lift, extend and tilt. Direct acting mechanical levers on sway and auxiliary. Tilt adjustable steer column with stalk control of powershift change and forward/reverse shuttle. Throttle and brake pedal. Adjustable seat with adjacent park brake.

STEERING

Hydrostatic power steering.

Three steer mode options: front wheel steer; all wheel steer; crab steer: operated from in the cab by a selection lever.

OPTIONS AND ACCESSORIES

Options: Road light kit, fenders, screen and roof blinds, screen and roof guards, air conditioning, block heater, radio kit, front and rear work lights, rotating flashing beacon, fire extinguisher, industrial tires.
Attachments: Contact your local dealer for details of the comprehensive range.

A GLOBAL COMMITMENT TO QUALITY

JCB's total commitment to its products and customers has helped it grow from a one-man business into one of the world's largest manufacturers of backhoe loaders, crawler excavators, wheeled excavators, telescopic handlers, wheeled loaders, dump trucks, rough terrain fork lifts, industrial fork lifts, mini/midi excavators, skid steer loaders and tractors.

By making constant and massive investments in the latest production technology, the JCB factories have become some of the most advanced in the world.

By leading the field in innovative research and design, extensive testing and stringent quality control, JCB machines have become renowned all over the world for performance, value and reliability.

And with an extensive dealer sales and service network in over 150 countries, we aim to deliver the best customer support in the industry.

Through setting the standards by which others are judged, JCB has become one of the world's most impressive success stories.

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