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9999/5602 UK 12/11 Issue 1

**535-95 / 533-105 / 535VI25 /
535VI40 / 540-140 / 540-170 Loadall
Telescopic Handler
3.3 – 4.1T Payload / 9.5 – 17m Lift Height**

The most comprehensive range of 3/4 stage telescopic handlers on the market

Ergonomic operator cab with large glass area provides a spacious fatigue-free environment for maximum productivity

Hi-Viz models provide unrivalled all-round visibility for ultimate site safety

80/110/170 l/min hydraulic pumps provide fast and efficient cycle times for maximum productivity

Aerial work platforms provide ultimate versatility



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WHY BUY ONE?



Performance

Payload range of 3,300kg to 4,000kg

Lift height of 9.5m to 17m

80/110/170 l/min hydraulic pumps provide fast and efficient cycle times for maximum productivity

JCB's own DIESELMAX engine, transmission and axles

Operator comfort

Market leading comfortable cab with ergonomic layout

Intuitive controls that fall easily to hand

Large glass area that provide excellent all round visibility

Service access

Extended service intervals, easy all round access to the engine bay and service points that can be accessed from ground level

Attributes

- Lift capacity - maximum 4 tonnes
- Lift height - maximum 17 metres
- 93kW engine (74.kW optional*)
- Torque @ 1200rpm 320Nm (425Nm)

Controls

- Manual levers or single lever joystick
- 4-speed powershift forward/reverse lever
- Standard auxiliary service (optional 2nd)
- 3 steer mode options (2-wheel, 4-wheel, crab)

Cab

- Spacious and comfortable cab
- Tilt and optional tilt and slide steering column
- Ergonomic display layout
- ROPS/FOPS approved
- Servicing
- Easy all round engine bay access
- Extended service intervals
- Easy access to rear hydraulic tank

* Model dependent

Evolution



The choice for materials handling

JCB has been a pioneer in telescopic handler technology since 1977 when we introduced the telescopic tool carrier concept. Our telescopic tool carriers have been designed and developed to do far more than simply lift and place materials, all JCB loadalls undergo significant endurance and structural testing during their development, to ensure we produce extremely durable machines with high tearout forces that are suitable for digging and re-handling applications. This is reflected with the 3 & 4 stage range of machines which have been produced in response to customer demand for the ability to handle a variety of payloads to a range of lift heights in the construction and industrial sectors. Available with a range of attachments, the loadall 3 & 4 stage range of telescopic handlers are both highly productive and versatile.

JCB 3 stage loadall range walkaround

Boom

- 3.3 to 4 tonne lift capacity
- Up to 17 metre lift height
- 12.5m maximum forward reach, 10.5m with 1 tonne load (540-170)
- Centrally mounted, heavy-duty, 3 stage telescopic boom (540-170 4 stage)
- Low boom pivot – facilitating excellent rear visibility
- Lift ram is positioned within the chassis and under the boom for maximum protection
- Over 1 metre of boom overlaps for maximum strength and durability
- Fitted with JCB Q-Fit / clearview quickhitch as standard
- Longitudinal load moment control (LLMC motion cut-out)
- Heavy-duty inner and outer boom plate with thick closing plate provides structural strength and integrity
- 80/110/170 litre per minute gear pumps provides fast operation of boom hydraulics
- 1 auxiliary hydraulic line as standard (2nd optional, not on 535-95)
- Work lights available for enhanced visibility

JCB 3 stage loadall range walkaround



Drivetrain

- JCB DIESELMAX 63kW (85hp), 74.2kW (100hp), 85kW (114HP) or 97kW (130hp) engines available (97kW only on 540-140 and 540-170)
- EU stage IIIA/ USEPA Tier 3 emissions compliant
- 4-speed JCB powershift transmission
- Hydraulically activated for maximum safety
- Heavy-duty JCB built axles provide excellent durability and reduced cost of ownership
- Electric steer mode selection – 3 steer modes
- Permanent 4-wheel drive – providing excellent traction
- Optional 2/4-wheel disconnect

JCB 3 stage loadall range walkaround

Service access

- Extended service intervals
- All maintenance possible from ground level for increased safety
- All service points at the front of the engine bay
- Wide opening bonnet for excellent access to engine bay
- Easily removable bonnet and engine pod for 360 degree engine bay access
- Large 146 litre diesel tank
- Excellent access to and protection of battery
- Boom dry Waxoyl coating for excellent wear performance, reduced dirt adhesion and reduced servicing
- Wide opening rear cover for ease of access to the hydraulic tank and filler



JCB 3 stage loadall range walkaround

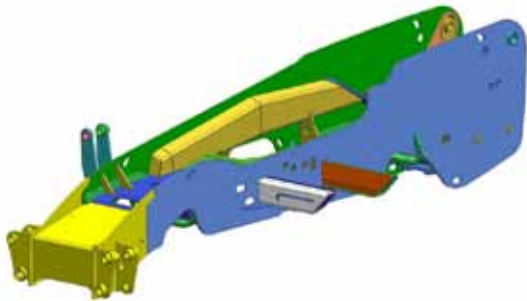
Cab and controls

- Proven market-leading cab across the current side engine loadall range
- Most comfortable cab on the market, with excellent 360 degree visibility, as well as superior visibility of attachments at height through angled roof bars
- ROPS/FOPS approved for absolute operator peace of mind
- Easy operator entry/exit onto a flat floor cab via the left hand door which can be locked back for convenience and ventilation
- Optional air conditioning
- Intuitive operator controls fall easily to hand, ideal for multi-operator use or fleet integration
- Large right hand cluster for ease of operation – manual levers, mechanical joystick or servo joystick provide highly responsive controls of the hydraulic services
- Ergonomically positioned LLMC display for quick recognition and operator safety
- Adjustable tilt (and slide optional) provides ultimate operator comfort
- Hydrostatic power steering facilitates light and precise control of the machine to reduce fatigue
- Adjustable and air suspension seat options give superior operator comfort
- Ample storage allows the operator to undertake timely operations in complete comfort

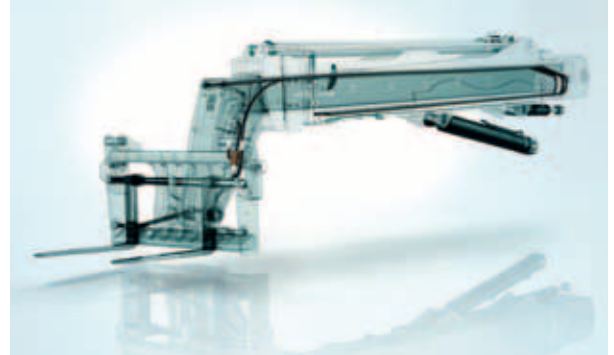
Performance

Structure – chassis

- Heavy-duty one piece chassis
 - One piece chassis side plates
 - Integrated hydraulic tank
 - Integral strength and rigidity
 - Minimal rear counterweight
 - Fixed and sway variants (model dependent)
- Optimum wheelbase
 - Increased stability operating at height
 - Increased stability operating at speed
- Centrally mounted hydraulic ram pivot points
- Stabilisers for increased stability and lift performance (not 535-95)
- Proven 10 year design life



Performance



Structure – boom

- One piece boom with integrated nose
 - 'U' shape pressing for maximum strength
 - Thick closing plate for maximum rigidity
 - Maximises productivity
- Key hole castings for ultimate load dispersion
- 8mm outer boom plate
 - Strength and rigidity throughout
- Large boom overlaps
 - Over 1 metre of boom overlaps
 - Increased strength and durability
 - Reduced wear
- Internal hose routing for ultimate protection

Performance



4-wheel

2-wheel

Crab

Drivetrain

- 63kW/85HPJCB DIESELMAX engine
 - Turbo-charged
 - EU stage III A/ USEPA Tier 3 emissions compliant
 - 74.2kW/85kW/97kW optional (74.2 standard in 540-170)
- 4-speed JCB Powershift transmission
 - Fast and efficient changes of gear
- 4-wheel drive axles with optional 2/4-wheel drive select
- Manual or auto steer – 3 steer modes (as above)

Performance

Cab

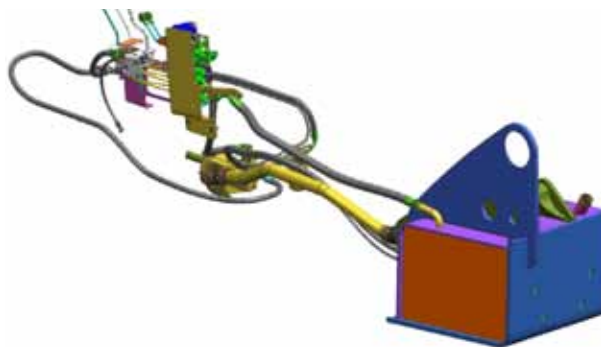
- Market leading comfortable cab
 - Spacious
 - Easy ingress/egress
 - Flat floor for easy cleaning
 - Ample storage space
 - Leading visibility allows precise operation
 - Single lever joystick option (model dependent)
- Excellent ventilation
 - Optimum vent layout
 - Split door design
 - Air conditioning optional



Performance

Maximum productivity

- 80/110/170 litre per minute gear pumps
 - Facilitate fast and efficient hydraulic flow
 - Maximise productivity through fast cycle times
 - Maximise return on investment
- Fan reverse option
 - Remote clearance of debris from the engine bay
 - Reduced operator fatigue
 - Increased machine utilisation
- Optional smooth ride system for maximum load retention
 - Increased operator comfort



Performance



Controls

- Manual 2 levers and 1 auxiliary lever
 - Simple layout for ease of operation
 - Enhanced fleet management
- Single lever servo joystick on 540-170 and platform-ready 535V125 and 535V140
 - Reduced operator fatigue
- Ergonomic display layout
 - Analogue dials grouped in one cluster
 - Quick and easy recognition
- Fully adjustable steering column
 - Facilitates optimum operator comfort
 - Reduces operator fatigue to maximise productivity

Performance



Service access

- Side mounted engine
 - Wide opening bonnet
 - Excellent engine bay access
 - Easily removable pod and bonnet
 - Excellent access to battery, oil and fuel filters
- Service capacities
 - Large 146 litre diesel tank – reduced filling to increase productivity
 - 113-150 litre hydraulic tank capacities

Performance

Service access

- Wide opening rear access door
 - Opens wide for excellent access to hydraulic filler tank
 - Maximum profile for ease of access
- Daily checks
 - All carried out at ground level
 - External hydraulic oil indicator for quick recognition
- Dry boom Waxoyl coating
 - Excellent wear performance
 - Extended service intervals (500hrs vs 250hrs)



Performance

Attachments

A variety of attachments are available for the 3 stage loadall range to compliment and enhance this highly productive range as well as provide the ultimate in machine versatility.



Performance

Key options

- Work lights front and rear
- Boom work lights
- 2/4-wheel disconnect select
- Fuel tank protection kit
- Belly guard kit
- Immobiliser keypad
- Screen and roof guards
- Air conditioning
- Adjustable tilt and slide steering column
- High visibility convex mirrors – front and rear
- Sunblind front and roof
- Radio kit
- Auto steer mode
- Face level fan
- Air suspension seat
- Rotating beacon – magnetic/adjustable
- Fire extinguisher
- Aerial work platforms (model dependent)

Applications

The loadall telescopic handler 3 stage range of machines provide the ultimate in both productivity and versatility for the customer. As a result, this range of machines can be operated in a variety of different markets and applications as below.

- Construction market – lifting and placing of palletised materials, landscaping, general bucket work, concrete mixing/delivery, truss erection, skip work, sweeping and general site maintenance
- Industrial use – coal / builders merchants, timber / sawmills
- Utility – council applications such as winter maintenance (salt/grit handling) and road maintenance (material handling/ loading)
- General industry
- General maintenance – aerial work platforms, cleaning, painting and repair



535-95 specification comparison

Manufacturer specification		JCB 535-95	Manitou MT 932	Merlo P34.10
Payload	kg	3500	3200	3400
Lift height	m	9.5	9	9.7
Maximum forward reach	m	6.52	6.58	6.3
Overall height	mm	2490	2300	2475
Overall width	mm	2290	2261	2230
Weight	kg	8160/8215	7640	7450
Engine		JCB DIESELMAX	Perkins	Deutz
Engine power	hp	85/100	82	102
Engine power	kW	63/74.2	61.5	74.9
Travel speed	kph	29/33	25	25
Torque	Nm	362/440	302	–
Hydraulic cycle times (secs)				
Lift		9.1	7.3	–
Lower		7.7	4.7	–
Extend		10.5	13.3	–
Retract		11.2	7.6	–
Bucket dump		2.4	2.8	–
Bucket crowd		3.5	2.3	–
TOTAL		44.4	38	–



Specification comparison

JCB 533-105 VERSUS MANITOU MT 1030 (fixed chassis)



533-105 has the following advantages

- 10% more lift capacity for maximum productivity
 - 3300kg vs 3000kg
- 150kg extra capacity at maximum forward reach
- 300kg extra capacity at maximum lift height
- 22% larger fuel tank for maximum up time
- Increased lift height for increased versatility
- Superior torque
 - 410Nm vs 425Nm (Optional 101hp vs 100hp)
- 16% higher travel speed as standard (32% optional)
- JCB's own DIESELMAX engine and major componentry for optimum reliability
- Boom Waxoyl coating vs wet grease

Specification comparison

JCB 535VI40 VERSUS MERLO P38.14 (fixed chassis)



535VI40 has the following advantages

- Greater lift capacity at height for maximum productivity
 - 3000kg at 13.78m vs 2500kg at 13.6m
- 0.5m extra forward reach for ultimate versatility
 - 12% more reach (9.6m vs 9.1m)
- Greater forward reach at comparable capacities
 - 3500kg to 4.5m vs 3500kg to 3.75m
- Superior hydraulic flow for fast and efficient cycle times
 - 108l/min vs 110l/min
- Chassis mounted JCB DIESELMAX engine for all round access to the engine bay and ease of servicing
- Boom Waxoyl coating vs wet grease

Specification comparison

JCB 535VI40 VERSUS MANITOU MT 1435 (sway chassis)



535VI40 has the following advantages

- Greater lift capacity at full height
 - 3000kg at 13.78m vs 2000kg at 13.6m
 - Maximum productivity and versatility
- 200kg extra capacity at maximum forward reach
- Superior torque for maximum efficiency
 - 440Nm 100hp vs 410Nm 101hp
- Faster travel speeds for maximum machine utilisation
 - 29/33kph vs 25kph
- 8% larger fuel tank for maximum machine up time
- Superior turning radius for ultimate manoeuvrability
 - 4.1m vs 4.16m
- JCB's own major componentry for optimum reliability
- Boom Waxoyl coating vs wet grease

Specification comparison

JCB 540-140 VERSUS MANITOU MT 1440 (fixed chassis)



540-140 has the following advantages

- Greater lift height at full capacity
 - 4000kg at 13.8m vs 4000kg at 13.53m
 - Maximum productivity and versatility
- Faster travel speeds for maximum machine utilisation
 - 16% or 32% faster vs 25kph (option dependent)
- JCB's own DIESELMAX engine and major componentry for optimum reliability
- Superior torque (engine dependent)
 - 3% or 29% more torque vs 101hp
- Boom Waxoyl coating vs wet grease

Specification comparison

JCB 540-170 VERSUS MERLO P40.17 (sway chassis)



540-170 has the following advantages

- Greater lift height with full capacity
 - 4000kg at 11.2m vs 4000kg at 8.m
- 20% more lift capacity at maximum reach for increased productivity (600kg vs 500kg)
- 57% more hydraulic flow for fast and efficient cycle times
 - 170l/min vs 108l/min
- Reduced machine width for ultimate manoeuvrability
 - 2440mm vs 2600mm
- Optional extra engine power for increased productivity
- JCB's own chassis mounted DIESELMAX engine and major componentry for optimum reliability and quality
- JCB patented 'Adaptive Load Control'
- Boom Waxoyl coating vs wet grease

Notes

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