The articulating and telescoping 1250AJP Ultra Boom aerial work platform from JLG has a 63.2-ft (19.25-m) horizontal reach. It is powered by a Deutz diesel engine.

The JLG19AMI-DC battery-powered vertical lift from JLG can lift up to 350 lb (160 kg) to a working height of 25.3 ft (7.7 m) without the need for outriggers.

The unique JibPLUS boom on the JLG Model 1250AJP rotates 130° vertically and 125° horizontally, and when combined with the 180° platform rotation, provides workers with maneuverability for reaching hard-to-access areas. Platform capacity in the majority of the work envelope is restricted to 1000 lb (450 kg). Unrestricted platform capacity is 500 lb (227 kg).

For added worker productivity, the machine is fitted with JLG’s QuikStik boom that allows the platform to be lowered to the ground while the tower boom is fully raised and extended. With this feature, workers can go from ground level to full elevation in 95 s.

A standard feature of the Model 1250AJP is the SkyPower package featuring a 7500-W generator that powers welders and other platform-mounted accessories. Other features include drive-out front-extending axle, oscillating axle for better traction over rough terrain, and four-wheel-drive and steer. Ground clearance is 12 in (300 mm) at the axle and 25.5 in (650 mm) at the chassis.

Like the 135- and 120-ft (41- and 37-m) platform-height JLG Ultra Boom lifts, the Model 1250AJP articulating and telescoping boom lift is transportable on a standard step-deck trailer without the need for special permits.

At the other end of the scale, the new Model 19AMI-DC manually propelled, battery-powered
vertical lift from JLG can lift up to 350 lb (160 kg) to a working height of 25.3 ft (7.7 m) without the need for outriggers. Workers can make full use of the platform height in confined areas because the lift is only 34 in (865 mm) wide.

Standard features include non-marking tires and a low-maintenance anodized-aluminum mast. Batteries can be recharged using the automatic built-in charger, and there is a battery discharge indicator to warn operators when the charge is getting low. The lift has an auto-power battery saver that shuts off power when it is at idle. There is also a 110-V double receptacle on the platform.

The standard platform measures 25.5 by 26 in (650 by 660 mm) and is fitted with a quick-change mount for optional platforms including an over-size gull wing, front entry platform, a narrow platform for access through acoustical tile, and an extension platform for 24 in (610 mm) of additional reach over the front of the lift.

Other options for increased productivity and worker convenience include a fluorescent light tube caddy, tool and material trays, and a cord reel.

Telescopic tool carrier from Bobcat

Bobcat has introduced two new telescopic tool carriers (TTC). The VersaHandler TTC V723 and V723 FL (frame level) models feature more lift capacity than the previous models, while maintaining the same compact size. The frame level feature allows the operator to level the machine on uneven ground.

The wheelbase on the new V723 and V723 FL is 4 in (100 mm) longer than previously, allowing an increased lifting capacity, giving each a rated load capacity of 7000 lb (3175 kg). Both multi-purpose machines feature a maximum lift height of 23 ft (7 m).

Some of the other improvements are incorporated into the machines’ cooling system. Smaller holes in the engine cover screen, protecting the radiator intake, help prevent large debris from entering the engine basket and plugging the radiator. The one-piece combination radiator/oil cooler improves the efficiency of the cooling system and facilitates easy radiator cleanout. A double-element air-cleaner canister allows for better airflow through the cooling system and offers a location to add a pre-cleaner device to extend air-filter life in dirty conditions.

The V723 and V723 FL replace the V623 and V623 FL models, respectively, which were introduced to the U.S. in 2001 after Bobcat purchased Sambron, a pioneer in the telehandler industry.

“We’ve made some slight design modifications to the machine to make it more service-friendly,” said Marty Miller, VersaHandler TTC Product Manager. “The radiator and oil cooler are easier to access, making cleaning simpler and more efficient.

“One of the leading factors in the redesign process was fitting the machine for a new Tier-II compliant Perkins engine.”

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All of the VersaHandler TTC models use liquid-cooled Perkins engines. “Our engines are side-mounted to give the operator better visibility to the side and rear of the machine, a low profile, and serviceability.”

Bobcat VersaHandler telescopic tool carriers use a light, rigid frame for better stability and reduced flex, which allow them to lift as much as heavier machines in their class, claims the company. The V723 model is available with a climate-controlled cab. The V723 FL offers the choice of either a climate-controlled cab or an open canopy. It comes standard with a two-speed frame level and 24-in tires (only 20-in tires were available on the V623 FL). The larger tires increase the travel speed of the machine to 18 mph (29 km/h) and provide extra ground clearance.

Both models feature heavy-duty hydrostatic ground drive for shifting on the fly between high- and low-drive speed ranges. The automotive-style transmission and single joystick hydraulic control makes them simple to operate. Unlike torque converter transmissions, VersaHandler telescopic tool carriers have dynamic braking, allowing for controlled movement while inching up or down slopes on the jobsite.

VersaHandler telescopic tool carriers feature three steering modes: all-wheel steer for tight turning, front-wheel steer for road travel, and crab steer for positioning loads from side to side.

For travel, the machines are 87 in (2210 mm) wide and 93 in (2360 mm) high, with a mass of 15,266 lb (6925 kg).

Two new telehandlers from Cat

Caterpillar has introduced the TH220B and TH330B to its B-Series line. The two telehandlers feature an electronically controlled engine for responsive operation and improved fuel economy, as well as new controls for easier operation, more work tools and options for expanded versatility, and extended service intervals for reduced maintenance. The new models are designed to work in a variety of construction, landscaping, and agricultural applications.

The TH220B and TH330B are designed for high productivity in bucket work and bale handling as well as common lifting tasks using forks or hooks. Z-bar bucket linkage provides high breakout forces for digging, and five different styles of buckets are offered to match the machine to the job. The TH220B replaces the TH62 and the TH330B replaces the TH82.
The TH220B has an operating mass of 14,770 lb (6700 kg) and a rated load capacity of 5513 lb (2500 kg). Maximum lift height is 20 ft (6 m), and maximum forward reach is 10.5 ft (3.2 m). The TH330B has a mass of 15,873 lb (7200 kg) and carries a 7000-lb (3100-kg) load. Maximum lift height is 24 ft (7.2 m), and forward reach is 12.5 ft (3.8 m).

Three steering modes (two-wheel, crab, and circle steer) give the operator options for positioning the telehandler. Both new telehandlers feature a 50° axle steering angle, and both have zero tail swing for operation in tight spaces. Turning radius over tires is 11.6 ft (3.55 m) for the TH220B and 11.8 ft (3.6 m) for the TH330B.

Each of the new telehandlers is powered by the Cat 3054E diesel engine for optimized performance. The electronically controlled engine complies with Tier 2 emissions regulations. The engine is offered in two different configurations. The standard engine generates 99 hp (74.5 kW), while the optional configuration generates 120 hp (92 kW). The engine’s cooling fan is driven directly from the engine through the transmission, and so does not require an additional hydraulic pump or related lines. Clean air is pulled from outside the machine through the forward-facing, fully screened cooling pack.

The Cat Powsyncro transmission has four forward speeds and three reverse for travel speeds up to 20 mph (32 km/h). The mounting configuration eliminates the need for a separate transfer box. To further reduce downtime and maintenance costs, the transmission shares hydraulic oil with the work tool hydraulics, decreasing the number of filters.

Oil-immersed disc brakes provide four-wheel braking. The braking surface area is 25% greater on the new B-Series telehandlers than on previous models. The machines can be equipped with an optional differential lock and self-aligning steering, which allows the operator to change steering modes with the wheels in any position. The system will actuate the change when the wheels are centered, using axle-mounted sensors.

Each telehandler comes equipped with either a canopy or an enclosed cab, which is certified to provide FOPS and ROPS (falling object and rollover protection). The electro-hydraulic joystick allows the three boom functions to operate simultaneously for more precise load placement in difficult applications. The joystick also operates the auxiliary hydraulic function and allows the option of a second auxiliary service for the use of work tools that require more than one hydraulic service.

The hydraulic quick-coupler allows the operator to change non-hydraulic tools quickly and easily from inside the cab. An auxiliary hydraulic service at the boom head and a continuous hydraulic flow supply are available to operate hydraulic work tools.

New work tools include a material-handling arm, a universal standard carriage, a side-shift carriage, and a pick-up broom. Buckets include a general-purpose bucket, a material-handling bucket, multi-purpose bucket, and a grapple bucket. Three different light material buckets range in capacity from 2.6 yd³ (2.0 m³) to 3.9 yd³ (3.0 m³). A bale handler equips the telehandler for moving hay.

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Other options include a rear tow hitch, additional tire choices (including foam-filled tires), and a lighting package for the boom and cab.

The new telehandlers are designed for fast, easy maintenance and service to increase uptime and drive down operating costs. Daily maintenance has been reduced to checking fluid levels and performing a quick walk-around inspection. Engine oil and filter changes and routine lubrication are now required at 500 h, rather than 250 h. The combined hydraulic and transmission filter change interval has been extended to 1000 h. All service points are readily accessible, and major components are easy to reach at ground level. The machines can now be diagnosed with the Cat Electronic Technician service tool for faster, more accurate troubleshooting.

A new option for the B-Series telehandlers is the Caterpillar Machine Security System for theft deterrence. The programmable key system provides optimum machine security for both fleet users and single owners.

**Air Technical squeezes in**

A new variation of reversible boom crane has been developed by **Air Technical Industries**. The counterweighted crane is now available with a shorter overall length to allow for tighter turns in narrow aisles. The optional boom rotation, combined with the 90° steering capability of the self-propelled drive, delivers flexibility in operation.

The extra reach beyond the wheels enables the operator to handle large boxes, containers, or parts without being obstructed by the legs of a typical crane. The machine is suitable for assembly work where a crane needs to come in close to the work and maneuver the load over other objects.

The Reversible Boom Crane is available in capacities from 1000 to 20,000 lb (450 to 9000 kg) with lift heights up to 180 in (4570 mm). Lift and telescopic boom action are hydraulically operated with a built-in pressure relief safety valve to prevent overloading.
Propulsion is electromechanically operated and battery-driven with solid-state controls. Maximum speed is 4 mph (6.4 km/h). When the control handle is released, the mechanical brake is applied automatically. All controls are by push buttons located in the steering handle.

The crane is all-steel, heavy-duty construction.

**New lifts from UpRight**

**UpRight International** introduced two new telescopic boom lifts at Bauma, including the UI40SB with a 46-ft (14-m) working height, and the 52-ft (16-m) UI46SBJ that includes a 6-ft (1.8-m) jib. The new machines were designed to include as standard the options regularly configured by most rental buyers, to reduce the overall cost of acquiring a 40- to 46-ft (12.2- to 14-m) straight boom.

Four-wheel-drive (4WD) and oscillating axles are both standard, and ground clearance is 13.5 in (0.34 m). The inside turning radius of 4.5 ft (1.4 m) on both models provides good maneuverability in confined spaces.

The standard specification for the UI40SB and UI46SBJ includes a platform capacity of 600 lb (272 kg) on the 40-ft (12.2-m) UI40SB. Modular additional counterweights allow an optional 750 lb (340 kg) unrestricted platform capacity. At 500 lb (227 kg), the UI46SBJ equals the best platform capacity in the 46-ft (14-m) straight boom class, according to the company. The floor area on the platform is 39 in (1 m) wide, and an 8-ft (2.44-m) platform option is available with no reduction of capacity.

While platform capacity is equal to or better than current models, UpRight has also kept mass low. At 14,500 lb (6600 kg), the UI46SBJ is up to 1300 lb (590 kg) lighter than similar machines. At 12,300 lb (5600 kg), the UI40SB is 200 lb (91 kg) lighter than rival machines with the same outreach. Lower mass saves on transport costs and facilitates easier loading.

The oversize keel boom sections promote a solid and stable feel in the platform, boosting user confidence and allowing tasks, especially precision work, to be completed more efficiently. The UI40SB has 33.5 ft (10.2 m), and the UI46SBJ has 40 ft (12.2 m) maximum outreach.

The use of a single-side servicing engine eliminates the need for a swing-out tray. A proven hydraulic traction-control circuit eliminates the use of energy-sapping hydraulic valves. Power goes direct to the wheels, so the UI40SB and UI46SBJ can provide all the 4WD traction required from more economic engines. Integrated units replace several expensive drivetrain components to achieve a compact size and consolidate traditionally separate parts, facilitating, among other things, the tight turning radius.

The new lifts come with a choice of diesel or dual-fuel engine (U.S. only). The Perkins 403C-15 diesel engine is Tier II/Stage 2 emissions compliant.

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Attention has been given to features that most directly affect reliability, namely drive units by Bosch-Rexroth and hydraulic valves from Sauer-Danfoss.

The control system is the SuperFLEX from OEM Controls, an industry-proven digital control, which is reliable and readily understood with a simple low-tech interface.

Another new product from UpRight launched at Bauma, now in production, is the UI50T 56.4-ft (17.2-m) working-height, trailer-mounted boom lift. Designed to appeal to the rental market with its combination of 4190-lb (1900-kg) mass and a stowed length of less than 19.6 ft (6 m), it benefits from advances in maneuverability, reliability, transportability, and ease of maintenance. For travel, the height is 6.5 ft (2 m) and the width 5.6 ft (1.7 m).

The UI150T has a platform of 24 by 48 in (620 by 1220 mm), with a capacity of 475 lb (215 kg). Horizontal outreach is 26.5 ft (8.1 m), and the maximum working height at full outreach is 30.8 ft (9.4 m).

Ausa adds two forklifts to expand range

In 1967, the Spanish company Ausa launched its first forklift truck. Since then, the company’s headquarters and the production plant have been in Barcelona, Spain. The subsidiaries are in France (Perpignan), UK (Manchester), Germany (Hamm), and U.S. (Miami) with a net of dealers throughout 60 countries.

Launched at Bauma in 2004 was the new CH 150 forklift for MY2005. It is a rough-terrain forklift with a loading capacity of 1500 kg (3300 lb) and a standard lifting height of 2.6 m (8.5 ft). Power comes from a Kubota V1505 diesel engine delivering 32 hp (24 kW) through a hydrostatic transmission with variable-flow pump and automatic regulation that gives it precision for maneuvering and control of the load.

The CH 150 is available with 4x2 or 4x4 traction. Standard equipment on all models includes an open cabin, rotating beacon, seatbelt, ergonomic seat, joystick, third hydraulic PTO, side-shift, active security equipment, operating pressures for accessories, and audible reverse warning.

Semi-closed cabin, or closed cabin with heater, different tires, oxicatalytic converter, spark arrester, fourth hydraulic PTO attachment, 300- and 400-L hydraulic buckets, and load backrest of 1260 mm (50 in) are available as optional equipment.
The new CH 150 comes in below the existing CH 250, which has a loading capacity of 2500 kg (5500 lb) and a standard lifting height of 3.3 m (10.8 ft). The CH 250 is powered by a Kubota V2003T engine producing 61 hp (45 kW) and offers optional 400- and 600-L hydraulic buckets.

The CH 150 rough-terrain forklift from Ausa has low ground pressure flotation tires to absorb the irregularities of the working surface while remaining stable.

The range of Ausa forklift-trucks are powered by engines from Kubota and Perkins.

At the upper end of the range is the new CH 500, a rough-terrain forklift with a loading capacity of 5000 kg (11,000 lb) and a standard mast height of 3.6 m (11.8 ft). It is fitted with a Perkins engine producing 86 hp (64 kW), and it also has a hydrostatic transmission.

The complete range of Ausa forklift trucks has low ground pressure flotation tires to absorb the irregularities of the terrain, enabling the vehicle to move fast and transport tall loads without losing stability. Being compact machines, they can work in confined areas. Ease of access for service is enabled by the tip-up cabin.

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New pallet truck from Crown

Walkie pallet trucks take a beating over rough floors and dock boards, in applications from cramped warehouses to the back of delivery trucks. So when Crown Equipment set out to enhance its WP 2000 Series, it made sure to improve upon the durability of its most recent model.

The WP 2300 is not only robust, with a load capacity of 4500 lb (2040 kg), it’s also easy to operate due to advanced ergonomics designed into the all-new X10 handle. The handle incorporates both tactile and visual differentiation of controls, providing for a natural, efficient interface for left- and right-hand operation.

Horn switches are integrated in the hand grips. A forward/reverse thumbwheel allows for precise maneuvering.

The vehicle features a 24-V electrical system with a separately excited drive motor that eliminates directional contactors. The transistor control module is sealed from dirt, dust, and moisture.

Regenerative braking is activated under downhill conditions, which reduces heat buildup and extends motor brush life. A safety feature applies the brakes automatically if the truck rolls without a travel command. A brake-override feature allows the truck to creep with the control handle in a nearly vertical position.

The WP 2300 Series hydraulic system features a heavy-duty hydraulic motor with integral pump and reservoir. At full lift, a top-of-stroke cutoff switch shuts off the lift motor to save energy and prevent the motor from overheating. Twin hard-chromed lift cylinders provide load stability.

Additional design enhancements like the debris guard to protect the load wheel axle from items such as stretch wrap or plastic straps, reduces a common cause of downtime and repair expense, and helps provide a low total cost of ownership.

Further reducing maintenance worries and maximizing uptime, Crown’s InfoPoint Quick Reference Guide is included on the WP 2300. InfoPoint supplies technicians with critical information for 95% of repairs right on the truck, eliminating the need to track down schematics or wiring diagrams. Detailed service instructions are positioned throughout the truck depicting component location, function, and working connections.

JCB reaches new heights

JCB introduced three new telehandler machines at Bauma—the new 535-140 telescopic handler, and the 524-50 and 527-55 compact telescopic handlers. The machines will be coming to North American markets in early 2005, powered by Perkins engines.

The 535-140 has a lift height of 45 ft (13.7 m). Lift height for the 524-50 compact telescopic handler is 16.5 ft (5 m) and for the 527-55, 18 ft (5.5 m). In addition to the new machines, a new range of access platforms, a standard JCB Clearview carriage, and an optional integral sideshift and fork positioning system are now available across the range of larger telescopic handlers.
Aimed at the industrial and construction industries, the 535-140 can handle a 7000-lb (3175-kg) payload. The compact 524-50 and 527-55 have respective payloads of 5000 and 6000 lb (2268 and 2722 kg). JCB has been careful to keep the same compact design and maneuverability for the two more powerful models that have greater lift performance than the older models in the range.

JCB announced two important developments to its Teletruk range at Bauma—the launch of a 3.9-ton (3.5-t) lift-capacity machine, and the introduction of slimline booms on all models for improved visibility. Since 2002, Sellick Equipment has been the sole distributor of JCB Teletrucks in the U.S.

The new two-wheel-drive TLT 35D forward-reach industrial forklift offers more lift capacity to greater height than current models, and is powered by a higher-rated 60-hp (45-kW) diesel engine. The new forklift joins the JCB Teletruk stable of 2.8- and 3.3-ton (2.5- and 3-t) capacity two-wheel-drive machines, and a 3.3-ton (3-t) capacity four-wheel-drive machine.

The additional load capacity over the TLT 30D comes with only a very marginal increase in machine length of 9.8 in (250 mm), to 118 in (3000 mm). Maximum width of 50.4 in (1280 mm) is the same as the TLT 30D's.

The TLT 35D offers an uprated capacity of 2.3 ton (2.1 t) at 6.6-ft (2-m) forward reach so that users handling heavy loads get the benefits of single-side truck loading. The maximum lift capacity to 169 in (4300 mm) height is 7716 lb (3500 kg).

Like all JCB Teletrucks, the TLT 35D can handle a variety of quick-change attachments, particularly shovels that typically don't work well on ordinary masted forklifts.

Along with the TLT 35D launch, the whole Teletruk range now has the new Slimline telescopic-boom design, which is 15% narrower to give the operator better visibility of the fork tips. Turning radius is 113.6 in (2885 mm).
The Teletruk range is being fitted with a new curved-cab structure that fully conforms to two international safety standards: ROPS and FOPS (Roll-Over and Falling Object Protection Systems). There is also a new instrument cluster as part of the uprated in-cab operator environment.

The Compact Telescopic Handler 524-50 from JCB has a payload of 5000 lb (2268 kg).

The Teletruk range is being fitted with a new curved-cab structure that fully conforms to two international safety standards: ROPS and FOPS (Roll-Over and Falling Object Protection Systems). There is also a new instrument cluster as part of the uprated in-cab operator environment.

The TLT 35D Teletruk from JCB will be distributed in North America by Sellick Equipment Ltd.

Manlift, now part of JLG, displayed a selection of models from its European Toucan range of compact vertical-mast aerial work platforms at Bauma, including the new multi-service 6-m (19.7-ft) working-height Toucan Duo.

There are now 13 models in the Toucan product line, providing working heights from 6 m (19.7 ft) to 13 m (42.7 ft). Toucan products feature innovations and special adaptations for particular applications. The 24-V electric drive can move the sowed machine at up to 4 km/h (2.5 mph).

The Toucan Duo is suited for both warehouse picking duties and plant maintenance applications. The platform incorporates a 0.50 x 0.70 m (1.6 x 2.3 ft) parcel/tool-shelf with a carrying capacity of up to 70 kg (150 lb). Also incorporated in the platform basket is a simple two-lever control panel providing convenient steering and driving control for safe and easy maneuverability. The Toucan Duo is only 1.79 m (5.9 ft) high and 0.78 m (2.6 ft) wide in the fully lowered position, which with its zero inner-steering radius makes it easy to negotiate through narrow doorways and between storage racks.

The Toucan Duo from Manlift has a working height of 6 m (19.7 ft).

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P-Series lift trucks

MCFA (Mitsubishi Caterpillar Forklift America) is a privately held company, with backing from Mitsubishi Heavy Industries, Ltd. (MHI) and Caterpillar Industrial Inc. (CII), formed to develop vehicles for the material-handling industry. MHI brought manufacturing and engineering prowess and a well-known brand name to the table. CII offered product support knowledge, a strong dealer network, and its own worldwide brand identity. The result is a company that produces two brands of lift truck from its manufacturing and distribution center in Houston, TX.

Cat Lift Trucks recently launched a new series of pneumatic tire lift trucks. The P3000-P7000 family comes in nine different models and three different fuel configurations (gasoline, LPG, and diesel).

With a low open step, a handy grab bar, and adjustable position hydraulics, the P-Series lift trucks were designed with operator comfort and convenience in mind. The full-suspension seat provides a comfortable ride, while the elastic comfort strap reduces the risk of cinching even when driving in reverse.

Heavy-duty drive and steer axles, and a steel frame, provide a solid foundation. Compact dimensions, combined with industry competitive travel lift and lowering speeds, contribute to productivity. Narrow mast channels, well-positioned hose and chain routings, and the absence of crossbars in the overhead guard give the operator good visibility.

P Series Cat lift trucks are designed to help keep cost of ownership low. Extended 500-h service intervals help reduce routine maintenance over the life of the truck. Safety features include warning lights, a ground speed control option, and a system for tracking operator presence that prevents lift and drive when the operator is not properly seated.

The engines meet or exceed 2004 EPA emission standards and are computer-regulated to optimize fuel efficiency. The transmission uses helical gears and the full-floating powertrain isolates the engine and transmission from the frame and operator compartment. A hydraulic accumulator gives smooth starts and direction changes.

The Mitsubishi brand also has a new generation of reach trucks that lift as high as 425 in (10,750 mm). With single reach, deep reach, and straddle configurations, capacities range from 2500 to 4500 lb (1200 to 2000 kg). Features include a heavy-duty mast and pantograph design, and a spacious side-stance operator compartment.

Innovations include display-based programming and performance profiling, which operators can use to customize settings such as travel speed and steering sensitivity based on the application. Display-based diagnostics allow service technicians to quickly troubleshoot problems.

Mitsubishi reach trucks have 36-V ac-powered systems, from drive to hydraulics, for rapid acceleration, precise speed control, and accurate fork-height selection. Keeping longevity in mind, all motors feature a brushless design, which helps prevent costly brush and spring maintenance replacement and helps extend service intervals.

The P3000-P7000 family of forklifts from Cat Lift Trucks is designed to give the operator good visibility with narrow mast channels and the absence of crossbars in the overhead guard.