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Mecalac

J SQUARED OUTDOOR



Takeuchi TB20e Compact Excavator: **Leads The Charge!**



Takeuchi's TB20e compact excavator is the manufacturer's first designed-and-built, battery-powered compact excavator. In February 2022, Takeuchi introduced the first 100 units as a pilot, rental program to gauge customer reaction and feedback.

"The TB20e is just another example of Takeuchi's legacy of innovation in the compact equipment market," said Jeff Badner, general sales manager for Columbus Equipment Company. "Takeuchi is committed to environmental

"The TB20e is just another example of Takeuchi's legacy of innovation in the compact equipment market."

Jeff Badner, General Sales Manager
Columbus Equipment Company

stewardship, and this new battery-powered excavator is designed to help customers meet their own sustainability goals without sacrificing the performance and reliability they've come to expect from Takeuchi."

Similar in performance to Takeuchi's diesel-powered, TB216 compact excavator, the TB20e is powered by a lithium-ion battery offering a continuous working range from four to eight hours, depending on application and environment. The excavator features an on-board charger with 95v to 265v single-phase power. When

more runtime is needed, the TB20e can be tethered to the onboard charger and remain operational. A faster, optional off-board charger can charge the TB20e in just two to four hours using 408v to 552v three-phase power.

With an operating weight of 4,255 lbs., the TB20e features a standard long arm with integrated thumb mount. It has a maximum dig depth of 7' 10" and a maximum reach of 13' 4". A primary hydraulic circuit plumbed to midarm delivers 9.0 GPM for running a hydraulic hammer or other hydraulically driven attachments. TB20e maintenance is simple, with fewer moving parts and no need for fuel filters, engine oil, engine oil filters or coolant.

Takeuchi Fleet Management (TFM) telematics come standard on the TB20e with no charge for the machine's 2-year standard warranty period. TFM reduces downtime and controls costs by providing remote diagnostics and scheduled maintenance reminders. It also supplies owners and operators with valuable information about machine condition, location and run time, as well as geofencing of equipment, protecting and securing the investment.

"This machine is an exciting addition to Tak's constantly evolving line of products," Badner said. "The TB20e delivers great features, performance, serviceability and excellent value – along with the many benefits a battery-powered machine has to offer."

Contact your local Columbus Equipment Company rep today and demo Takeuchi's new compact, pollution-busting powerhouse!



Mecalac 15MWR Wheel Excavator: **The Best of Both Worlds ... By Design**



Mecalac has taken the best of the wheeled excavator and the crawler excavator and developed a unique solution—the MWR Series of wheeled excavators—that combines all advantages, eliminates disadvantages and greatly increases performance and productivity.

At 2.5 times more compact than a classic excavator, the 136-horsepower 15MWR delivers unprecedented mobility, versatility, stability, safety, accessibility, ease-of-operation, lifting force and profitability.

The 31,345 lb. 15MWR's center of gravity is 20 percent lower than the competition's.

The 31,345 lb. 15MWR's center of gravity is 20 percent lower than the competition's. This unique architecture creates powerful and precise handling capable of 18,370 lbf. break-out force, a maximum dig depth of 14' 11" and lifting 50% of the 15MWR's own weight to a height of 9' 10" with exceptional economy of movement. The offset articulated arm creates a natural counterweight and optimizes lifting power, ensuring greater freedom for the operator to handle and turn with heavy loads.

The 15MWR boasts a top travel speed of 21 mph, tail swing radius of 5' 5" and an impressive turning width of 9' 9". The machine is also naturally balanced resulting in 360-degree stability, namely stability regardless of the rotation angle of the upper carriage.

Simply lift, place, move, unload ... all without moving.

A versatile and ultra-stable machine with compact dimensions and outsized lifting force, the 15MWR also benefits from the latest Mecalac technology—boom with integrated offset, cylinder coupling, CONNECT quick coupler, central control selector, and speed control function.

Simplicity and safety dominate design of the operator environment. Steps and a 20 percent lower cab make entry and exit much easier. Visibility is optimized by a folding boom, rear view mirrors, integrated side camera and retractable windshield.

The operator can also switch between road and parking modes in a single movement on a unique central selector. This operation is instant and avoids the 7-10 steps usually required in a standard excavator, guaranteeing faultless and ultra-safe driving on construction sites. Easy-access, boots-on-the-ground refueling and maintenance also boost operator safety, as well as the safety of others on site.

Whatever your project's requirements and demands, the 15MWR guarantees optimum profitability thanks to unprecedented performance, ease-of-use, and ability to keep both worksites and workers safe, ushering in a new generation of compact, versatile and ultra-mobile wheeled excavators for the construction industry.





J Squared Outdoor: Mecalac 6MCR and Engcon Tiltrotator Revolutionize Workflow



Jeremy Swihart (pictured left) started J Squared Outdoor in 2015 after working for other landscaping firms for about a decade. The reason for starting his Centerville, Ohio-based firm was simple: “I wanted to do it my own way.” He felt the landscapers he worked for “did things kind of old school. I wanted to be more innovative in everything we did,” said Swihart.

On the design front, Swihart uses technology such as computer programs to design projects. On the equipment side, he uses innovative machinery such as the Mecalac 6MCR crawler skid excavator and Engcon tiltrotator attachment to increase efficiency and productivity on the jobsite.

J Squared Outdoor is a residential design/build landscaper that specializes in swimming pool installations with outdoor living spaces around them. A typical job includes installing hardscape, lighting, outdoor audio, plantings and other features. Swihart and four employees work in the field, one job at a time, mostly in the South Dayton area. They're generally booked out three to four months in advance.

Swihart had been interested in Mecalac equipment for several years after seeing online videos of the machinery in action. When his Columbus Equipment Company sales rep, Tim Early, told him that the company was adding Mecalac to the product line, “I told him I wanted to buy the first one,” Swihart said. He did just that, putting a 6MCR to work in June 2023,

and it has completely lived up to his expectations, plus some—just ask J Squared Outdoor's 80,000 efficiency-captivated Instagram followers.

“It's totally different from an excavator in the way that it moves around the jobsite. It's really smooth to operate, and it does things you can't do with a regular excavator” such as working in tightly confined spaces or working very close to the machine.

**“I wanted to be
more innovative in
everything we did.”**

Jeremy Swihart; President, J Squared Outdoor

“The 6MCR's also super strong. This 6-ton excavator can pick up as much weight with forks as a traditional 9-ton excavator,” he said. “We do a lot of hardscapes where we have to maneuver pallets of pavers around the jobsite, which we used to do using a skidsteer. With the Mecalac, I can do an entire job without bringing a skidsteer to the jobsite.”

Along with reducing the machinery needed on a job, the Mecalac significantly reduces labor needs. Between the Mecalac's quick connect and the grabber on the back of the Engcon tiltrotator Swihart uses, the



operator can quickly switch between broom, fork and bucket attachments without leaving the cab. “It used to take a guy on the ground along with the excavator operator to change out so many things we use, and now it’s just the excavator operator. We can track back and forth rather than tie up another guy. Anything we can do to reduce labor is huge. Staying in the machine increases productivity and is also safer for the operator,” Swihart noted.

“The Mecalac on its own is a neat machine. Adding the Engcon allows us to use an excavator in ways you could never use an excavator before.”

Jeremy Swihart; President, J Squared Outdoor

Swihart – who started a lawn-mowing business in high school – has been a fan of the Engcon tiltrotator system for several years and also uses one on a Takeuchi TB290. The tiltrotator fits between the attachment and dipper stick or hydraulic quick coupler, operating as a “flexible wrist” that can rotate the attachment 360 degrees and tilt it 45 degrees. It reduces the need to move the machine and allows quick tool changes so you can do more work in less time.

Pairing the Engcon EC206B with the Mecalac 6MCR makes the equipment even more versatile, Swihart said. “The Mecalac on its own is a neat machine, with its ability to spin and work in really confined spaces. Adding the Engcon allows us to use an excavator in ways you could never use an excavator

before,” said Swihart, who purchased his first Engcon from Columbus Equipment in 2021. “You can dig off-kilter, at weird angles, and move the machine a lot less to dig where you want to. It also eliminates a lot of clean-up in a hole or trench because we can get any angle we want with the bucket. It allows us to use different attachments, like forks for material handling and brooms.”



Working with Columbus Equipment Company has been a good experience, Swihart said. “Tim is easy to deal with, and they send service out right away if we need it.” He finds parts are usually readily available or can be quickly ordered.

Plus, he said, “Columbus Equipment Company has all the good toys,” such as innovative equipment like Mecalac. High praise indeed from a contractor who created his business to take advantage of newer and better ways to design and install landscaping.



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Craig Curtis

Remarketing Business Manager

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Return Address: 2323 Performance Way, Columbus, OH 43207
www.columbusequipment.com