

TORO Count on it.

ProCore™ 648



www.toro.com/procore648

TORO. Count on it.

Setting the pace.

ProCore™ 648

- Innovative wheel placement
- Efficient aeration
- High productivity
- Deeper, high-quality holes
- TrueCore™ ground following
- Series/Parallel 3-wheel drive
- Smooth, quiet, powerful operation
- No more crushed cores

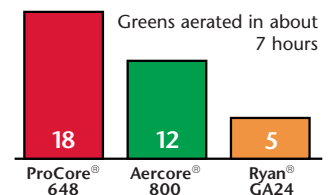
The Toro® ProCore 648 aerator, with its efficient 48" (122 cm) coring swath, delivers maximum productivity. From the innovative wheel placement within the coring path to the TrueCore™ ground following system that maintains consistent coring depth, it has set a new standard for aerator innovation and performance. Pass after pass and year after year the ProCore 648 aerator from Toro helps ensure you stay ahead of the game.



Count on Productivity

Aerate 18 greens in about 7 hours.

With a wide coring swath, brisk speed and faster cleanup, the ProCore 648 is the most productive walk aerator for your course. Competitive comparison chart is based on 6,500 ft.² (604 m²) greens, 1,000 ft. (305 m) between greens, 2" x 2" (5.1 cm x 5.1 cm) hole spacing and standard turnarounds.





“Having the wheels inside the coring head is wonderful. For somebody with push-up greens that they harvest cores from, having those wheels inside the coring head is essential so you are not reincorporating the pulled plugs.”

*Scottie Hines, CGCS Golf Course Superintendent
Wind Song Farm Golf Club, Independence, Minnesota*

No more crushed cores.

The unique design of the ProCore 648 puts the wheels in front of the aeration head so that you can make pass after pass without running over cores or freshly aerated turf. This prevents damage to the turf and the fresh holes, and makes cleanup easier. Consistently round holes are achieved by the elastomer RotaLink™ geometry that ensures tines remain vertical as they enter and exit the ground. The individually floating turf holders prevent turf lift when the tines exit the ground to maintain a true and level surface.



Tires located in front of the aerator never leave wheel ruts that are common on freshly aerated greens, tees and sports fields.



“20 greens here at Belmont used to take us 11-12 hours. We started yesterday at 6:00 am and finished at 12:15! The machine is awesome. 50% wider than the old greens aerifier and much faster, all the while punching a cleaner hole with a better pattern. Clean-up was much easier as the tires did not mash the plugs into the green.”

*Steve Harris, Golf Course Superintendent
Belmont Country Club, Ashburn, Virginia*

One work shift. One machine.

The ProCore™ 648 gets the job done faster than ever. You can aerate all 18 greens in about 7 hours* thanks to a 48" (122 cm) aeration swath. In fact, the ProCore 648 has the highest productivity rating of any walk aerator on the market. From quicker turnarounds to a faster transport speed, everything about the ProCore 648 is built for productivity. You'll move swiftly from aeration to cleanup and your course will be back in playing condition in record time.

*Assumes average 6,500 sq./ft. (604 m²) greens, 2" x 2" (5.1 cm x 5.1 cm) linear hole spacing, 1,000 feet (305 m) between greens at maximum transport speed and standard "tear-drop" style turnarounds.



Better tines.

An aerator of this quality deserves nothing but the best when it comes to tines. That's why Toro created Titan™ Tines. They combine a thin wall for superior core quality and a tough carbide tip for maximum durability. Field performance has shown that Titan Tines last up to 3 times longer than regular tines. Combined with the ProCore TrueCore™ ground following system that maintains tine depth on the fly to match ground undulations, you get consistent coring as deep as 4" (10.2 cm). The patented 3-wheel Series/Parallel™ traction drive prevents slippage for reliable traction and even hole spacing.



Choose needle, mini-hollow, mini-solid, hollow, slotted or solid tines.



Clean, deep and consistent aeration holes — even on challenging terrain.



“The productivity alone will save a lot of time. I like the way the ProCore 648 aerator climbs hills and it's much more maneuverable than others I've used. I like it all the way around.”

*Jim Nicol, Golf Course Superintendent
Hazeltine National Golf Club, Chaska, Minnesota*





Easy and safe to operate.

The controls on the ProCore™ 648 are simple and intuitive, allowing minimal training to get up and running fast. A single switch on the handle controls the tine head and a handle bail engages forward and reverse. No shifting required. Select the desired tine depth and spacing and you're ready to go. Even the comfortable transport speed and forward transport direction are operator-friendly. A fail-safe system stops the machine and lifts the coring head when the handle bail is released for any reason.



Hole spacing adjusts quickly and easily using a simple lever.



Tine depth is adjustable down to an industry-leading 4" deep (10.2 cm).

Works as hard as you do.

To give the ProCore its uncommonly smooth operation, the action of the tine arms are modeled after a 6-cylinder engine. The arms work in pairs to counterbalance the coring action. This precision configuration virtually eliminates hopping, rocking and unnecessary vibration. That's something operators will appreciate during and after the aeration process. They'll also value the rugged and powerful 23 hp (17.2 kw) Kohler® engine. It has ample strength

to drive the tines deep across the 48" (122 cm) aeration width. The Toro® RotaLink™ mechanism allows the tines to enter and exit the ground cleanly for high-quality results. The coring head is belt driven for durability and reliability, and it relies on large, sealed bearings to eliminate grease points. A full compliment of accessories is also available for your ProCore 648.

Windrower



Directs cores into neat, narrow rows for easy collection and removal

Tire scrapers



Removes any soil accumulation from rear tires

Tine holders

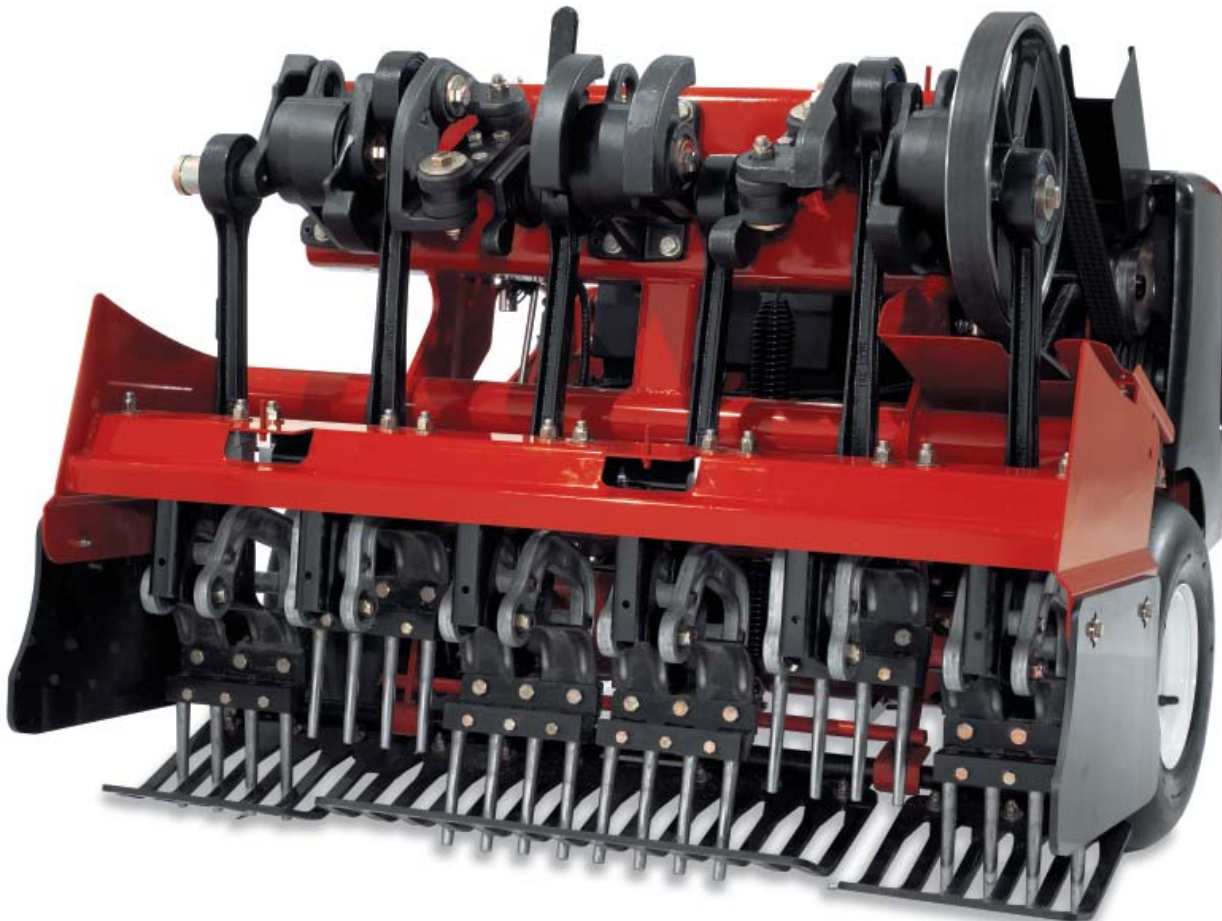


Customize your aeration with a choice of five tine holders

Belly-mount weight kit



Up to two additional 60 lb. (28.6 kg) weights can be added to ensure maximum penetration in hard soil



Coring

Width: 48" (122 cm)

Depth: Down to 4" (10.2 cm)

Head: Heavy-duty crank shaft with six "I-beam" tine arms

Depth control: TrueCore™ system for full-time, automatic contour following

Hole Spacing

Detent 1: 1.5" (3.8 cm) 16,000 sq. ft./hr. (1,488 m²/h) max

Detent 2: 2.0" (5.1 cm) 21,350 sq. ft./hr. (1,983 m²/h) max

Detent 3: 2.5" (6.4 cm) 26,700 sq. ft./hr. (2,479 m²/h) max

Detent 4: 3.0" (7.6 cm) 32,000 sq. ft./hr. (2,975 m²/h) max

Productivity

Able to aerate 18 - 6,500 sq. ft. (604 m²) greens in about 7 hours at 2" (5.1 cm) hole spacing

Speed & Direction

Forward: 0-3.5 mph (0-5.7 km/h)

Reverse: 0-2.0 mph (0-3.2 km/h), fully variable

Tines/Diameter

Needle tines: 3/16" (5 mm), 5/16" (8 mm)

Solid tines: 3/8" (9.5 mm), 7/16" (11 mm), 1/2" (13 mm),

5/8" (16 mm)

Side-eject tines: 1/4" (6.4 mm), 1/2" (13 mm)*, 5/8" (16 mm)*,

3/4" (19 mm)

Hollow tines: 3/8" (9.5 mm), 1/2" (13 mm)*, 1/2" (13 mm),

5/8" (16 mm)*, 5/8" (16 mm)

*Extended hollow or side eject tine, 1/2" (13 mm) or 5/8" (16 mm), required for 4" (10.2 cm) aeration depth.

Tine Holders

3-tine: 2.6" (6.6 cm) lateral spacing

4-tine: 2" (5.1 cm) lateral spacing

Mini-tine: 1.6" (4.1 cm) lateral spacing

Mini-tine: 1.33" (3.4 cm) lateral spacing, one row of six

Needle-tine: 1.6" (4.1 cm) lateral spacing

Controls

Ignition switch, throttle, choke, parking brake, traction lever for forward and reverse, coring head raise/lower switch, selector knob for aeration spacing, TrueCore™ ground following switch, system reset, and aeration depth selector.

Engine

Model: Kohler® 2-cylinder, air-cooled, gasoline

Rating: 23 HP (17.2 kW) @ 3000 rpm

Displacement: 41 cu. in. (674 cc)

Noise

Operator ear: 82 dB(A)

Capacities

Fuel: 7.5 gal. (28.4 l)

Engine oil w/filter: 2 qt. (1.9 l)

Hydraulic oil: 3.0 gal. (11.3 l)

Electrical

Battery: 12 volt, 300 cold cranking amps @ 0°F

Instrumentation: Hour/tachometer

Controller: Micro-processor logic control for troubleshooting

Tires

Front & rear: 20 x 10-10, 2-ply rated, smooth tread, tubeless

Brakes

Service: Dynamic through hydrostatic transmission

Parking: Hand-actuated on handle

Dimensions

Overall length: 104.5" (265.4 cm)

Overall width: 50" (127.3 cm)

Height w/head raised: 45.0" (114.3 cm)

Wheel base: 44.5" (113.0 cm)

Ground clearance: 4.75" (12.1 cm)

Weight (less fuel): 1,590 lbs. (722 Kg)

Drive Train

Patented 3-wheel drive Series/Parallel™ hydrostatic, closed loop

Attachments/Accessories

Tine heads, windrower, tire scrapers, weight kit

Certification: ANSI B71.4-1999, CE & EU machinery directives

Warranty: Two year or 500 hour limited warranty. Refer to the Operator's Manual for further details.

TORO® PROFESSIONAL SERVICES

Toro Financing A full service offering for all your equipment and irrigation purchases. Flexible financing options can be tailored to meet your operational needs.

Toro Protection Plus Extended Protection Plan Protect your budget and your equipment investment. Plans are available for both new and used equipment, and you can choose from various terms to fit your financing terms.

Toro Genuine Parts Keep the productivity and performance of your equipment at its peak. Learn about Performance Parts pricing and MVP kits. Find replacement parts online at Toro.com/partviewer.

Toro Training Toro Factory Service Schools are available. Explore the training and customer care areas of Toro.com and ToroNSN.com for readily available education and training materials.

Toro Controller Repair Provides irrigation controller boards ready for immediate board exchange to assure that downtime is minimal and your turf stays protected. Toro is the choice for reliability.

Toro NSN® An industry-first support network that provides reliable, around-the-clock irrigation central control system troubleshooting and operation assistance. Call 1-800-ASK-TORO.

NEW! myTurf™ Fleet This free online tool from Toro keeps track of maintenance schedules for all of your turf equipment. Complete product information and parts ordering is also included.