

TORO. Count on it.

ProCore® 648



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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 122 cm (48") 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 604 m² (6,500 ft.²) greens, 305 m (1,000 ft.) between greens, 5.1 cm x 5.1 cm (2" x 2") hole spacing and standard turnarounds.



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.



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 122 cm (48") 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 604 m² (6,500 sq./ft.) greens, 5.1 cm x 5.1 cm (2" x 2") linear hole spacing, 305 m (1,000 feet) 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 10.2 cm (4"). 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.





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 10.2 cm deep (4").

Works as hard as you do.

To give the ProCore its uncommonly smooth operation, the action of the tine arms is 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 17.2 kW (23 hp) Kohler® engine.

It has ample strength to drive the tines deep across the 122 cm (48") 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 28.6 kg (60 lb.) weights can be added to ensure maximum penetration in hard soil



Specifications for ProCore® 648

Coring

Width: 122 cm (48")

Depth: Down to 10.2 cm (4")

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

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

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

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

Productivity

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

Speed & Direction

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

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

Tines/Diameter

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

Solid tines: 9.5 mm (³/₈"), 11 mm (⁷/₁₆"), 13 mm (¹/₂"), 16 mm (⁵/₈")

Side-eject tines: 6.4 mm (¹/₄"), 13 mm (¹/₂")*, 16 mm (⁵/₈")*, 19 mm (³/₄")

Hollow tines: 9.5 mm (³/₈"), 13 mm (¹/₂")*, 13 mm (¹/₂"), 16 mm (⁵/₈")*, 16 mm (⁵/₈")

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

Tine Holders

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

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

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

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

Needle-tine: 4.1 cm (1.6") 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, petrol

Rating: 17.2 kW (23 HP) @ 3000 rpm

Displacement: 674 cc (41 cu. in.)

Noise

Operator ear: 82 dB(A)

Capacities

Fuel: 28.4 l (7.5 gal.)

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

Hydraulic oil: 11.3 l (3.0 gal.)

Electrical

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

Instrumentation: Hour/tachometer

Controller: Micro-processor logic control for troubleshooting

Tyres

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: 265.4 cm (104.5")

Overall width: 127.3 cm (50")

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

Wheel base: 113.0 cm (44.5")

Ground clearance: 12.1 cm (4.75")

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

Drive Train

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

Attachments/Accessories

Tine heads, windrower, tyre 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.

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GB Part No. 200-3185.

Printed in U.S.A.

www.toro.com



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