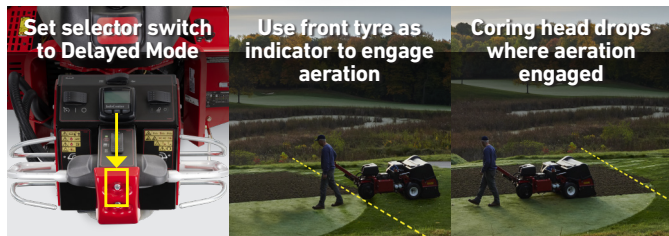


## The new gold standard of greens aeration.

The ProCore 648s builds on the tremendous legacy of the ProCore 648 by incorporating proven technology and even more innovative features while preserving the time tested design elements that changed the way you aerate. Revised controls improve ergonomics and allow single handed operation. Hole spacing and true tine depth are now set and saved in the InfoCenter. The onboard controller is continuously monitoring key operating parameters to improve after aeration turf condition and allow the operator to easily target coring head drop and raise. A tighter turning radius with reduced wheel scrubbing and the ability to easily increase speed during turns increases productivity. Proven reliability, improved performance and exciting innovation - that's what makes the ProCore 648s the new superior choice.



## FEATURES

### • Delayed Mode

When operating in delayed mode, the onboard controller continuously monitors key operational parameters, reducing grass tufting when coring head drops to start a pass. It also allows operators to easily target where they want the coring head to drop or raise, making starting and ending passes or jumping up and over an in-ground obstacle, like an irrigation head, much easier.

### • Electronically Controlled Drive

This smart technology enhancement utilises an electronically controlled hydrostatic 3-wheel drive which maintains more consistent hole spacing on sloping terrain. It also essentially eliminates front wheel scrub in turns while providing a tighter turning radius. Operators can easily increase speed during turns, improving efficiency.

### • Ergonomics

Completely redesigned operator handle with intuitive controls that allows simple one hand operation from either side of the machine, allowing operators to walk and keep focus forward with less fatigue. The floating handle also allows any height person to operate the machine comfortably.

### • InfoCenter™ Smart Settings

Set and save precise hole depth and spacing to ensure consistent, condition-driven aeration that yields outstanding results. This controller allows much wider range of adjustment in 0.25" (6.35 mm) increments, ensuring just the right amount of aeration to match the needs of the turf.

### • Exclusive wheel placement inside coring head path

### • TruCore™ Ground-Following

TrueCore™ sensing system automatically maintains tine depth on the fly to match the ground undulations providing consistent coring depth of up to 4" (10.2 cm).

### • RotaLink™ Coring Head

RotaLink™ geometry allows the tines to enter and exit the ground cleanly leaving a high quality result and a quick return to play.

### • Onboard Storage and optional LED Light Kit

Bring a hot beverage, field notes, a sweatshirt, or carry some extra tines, the standard onboard storage has plenty of room. To get an early start or extend the work day, illuminate the path with the accessory five LED light kit.

## PROCORE® 648S SPECIFICATIONS\*

PROCORE 648S, MODEL 09960																																				
<b>ENGINE</b>	Kohler®, 2-cylinder, air-cooled, 17.1 kW (23 hp) gross, 14.2 kW (19 hp) net @ 3000 rpm, 674 cc (41 cu-in.) displacement. Dry, large capacity, replaceable element air filter. External spin-on oil filter, 1.9-litre (2-quart).																																			
<b>FUEL CAPACITY</b>	28.4 litre (7.5 gallons), petrol.																																			
<b>ELECTRICAL</b>	12-volt, 15 amp regulated charging alternator/generator. BCI Group No.: U1 battery, 300 cold cranking amps @ 0°F. Micro-processor logic control.																																			
<b>DRIVETRAIN</b>	Series-Parallel, closed loop, hydrostatic drive. 3WD, except 2WD while traveling in forward direction in aeration mode with coring head raised. Electronically controlled variable displacement piston type pump. High-torque, low-speed wheel motor drive.																																			
<b>HYDRAULIC SYSTEM</b>	Remote spin-on filter. 11.35 litre (3.0- gallon) capacity, Toro PX Extended Life hydraulic fluid.																																			
<b>CONSTRUCTION</b>	Welded steel frame with cast crank and arm assembly.																																			
<b>TYRES</b>	20 x 10-10, 2-ply rated, smooth tread, tubeless, inflated to 12 psi, de-mountable rims.																																			
<b>BRAKES</b>	Dynamic braking through hydrostatic transmission. Parking brake actuated when steering handle is raised into storage position.																																			
<b>GROUND SPEED</b>	<table border="0" style="width: 100%;"> <tr> <td><b>Transport Mode:</b></td> <td><b>Aeration Mode:</b></td> <td><b>Aeration Forward Spacing:</b></td> </tr> <tr> <td>Forward: 0-7.2 km/h (0-4.5 mph), variable</td> <td>Forward: 0-4.0 km/h (0-2.5 mph), variable</td> <td><b>2.5-11.4 cm (1-4.5") in 6.35mm (0.25") increments</b></td> </tr> <tr> <td>Reverse: 0-3.2 km/h (0-2.0 mph), variable</td> <td>Reverse: 0-3.2 km/h (0-2.0 mph), variable</td> <td>2.5 cm (1") spacing: 0.8 km/h (0.5 mph)</td> </tr> <tr> <td></td> <td></td> <td>5.0 cm (2") spacing: 1.65 km/h (1.03 mph)</td> </tr> <tr> <td></td> <td></td> <td>7.6 cm (3") spacing: 2.46 km/h (1.53 mph)</td> </tr> <tr> <td></td> <td></td> <td>10.0 cm (4") spacing: 3.30 km/h (2.06 mph)</td> </tr> </table>	<b>Transport Mode:</b>	<b>Aeration Mode:</b>	<b>Aeration Forward Spacing:</b>	Forward: 0-7.2 km/h (0-4.5 mph), variable	Forward: 0-4.0 km/h (0-2.5 mph), variable	<b>2.5-11.4 cm (1-4.5") in 6.35mm (0.25") increments</b>	Reverse: 0-3.2 km/h (0-2.0 mph), variable	Reverse: 0-3.2 km/h (0-2.0 mph), variable	2.5 cm (1") spacing: 0.8 km/h (0.5 mph)			5.0 cm (2") spacing: 1.65 km/h (1.03 mph)			7.6 cm (3") spacing: 2.46 km/h (1.53 mph)			10.0 cm (4") spacing: 3.30 km/h (2.06 mph)																	
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<b>INSTRUMENTATION</b>	InfoCenter™, tachometer.																																			
<b>CONTROLS</b>	Redundant operator presence bails, aeration start/stop bails and traction speed thumb wheels on handle. Tine length calibration, tine depth and forward hole spacing set and saved in InfoCenter. Bump stop, delayed or immediate drop switch, cruise control on/set/off switch, aerate or transport switch and optional LED light kit switch located on operator console. Ignition, tachometer on side console. Throttle and choke on engine.																																			
<b>INTERLOCKS</b>	Operator presence, clutch latch, traction neutral, coring head raise/lower.																																			
<b>DIMENSIONS</b>	<table border="0" style="width: 100%;"> <tr> <td style="text-align: center;"><b>Length</b></td> <td style="text-align: center;"><b>Width</b></td> <td style="text-align: center;"><b>Height</b></td> <td style="text-align: center;"><b>Wheelbase</b></td> <td style="text-align: center;"><b>Track Width</b></td> <td style="text-align: center;"><b>Weight (dry)</b></td> <td style="text-align: center;"><b>Ground Clearance</b></td> </tr> <tr> <td>Handle Down: 295.4 cm (116.3")</td> <td>127.3 cm (50.12")</td> <td>Head Raised 114.3 cm (45")</td> <td>113 cm (44.5")</td> <td>97.3 cm (38.3")</td> <td>744.7 kg (1,642 lbs)</td> <td>12.1 cm (4.75")</td> </tr> <tr> <td>Handle Raised: 233.2 cm (91.8")</td> <td></td> <td>Head Lowered 92.7 cm (36.5")</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Handle Raised: 154 cm (60.7")</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Handle Lowered: 120.6 cm (47.5")</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	<b>Length</b>	<b>Width</b>	<b>Height</b>	<b>Wheelbase</b>	<b>Track Width</b>	<b>Weight (dry)</b>	<b>Ground Clearance</b>	Handle Down: 295.4 cm (116.3")	127.3 cm (50.12")	Head Raised 114.3 cm (45")	113 cm (44.5")	97.3 cm (38.3")	744.7 kg (1,642 lbs)	12.1 cm (4.75")	Handle Raised: 233.2 cm (91.8")		Head Lowered 92.7 cm (36.5")							Handle Raised: 154 cm (60.7")							Handle Lowered: 120.6 cm (47.5")				
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<b>CERTIFICATION</b>	ANSI B71.4-2017. CE & EU machinery directives.																																			
<b>WARRANTY</b>	Two-year or 500 hour limited warranty. Refer to the Operator's Manual for further details.																																			

## PROCORE® 648S ACCESSORIES\*

TINE HEADS		
Description	Lateral Spacing	Mount Diameter
Needle Tine	4 cm (1.6")	N/A
Mini-Tine (2 rows of 5)	4 cm (1.6")	3/8"
Mini-Tine (1 row of 6)	3.3 cm (1.3")	3/8"
3 Tine 3/4"	6.6 cm (2.6")	3/4"
4 Tine 3/4"	5.1 cm (2")	3/4"
3 Tine 7/8"	6.6 cm (2.6")	7/8"
QuickChange® 4-Tine	5.1 cm (2")	3/4" OR 7/8"
ACCESSORIES		
LED Light Kit, ProCore 648s	Rear Roller Kit	
Windrower Kit	QuickCharge® Tool	
Tyre Scraper	Wireless Hour Meter	
TINES		
Over 100 Titan Tines in multiple varieties available from Toro. See the Toro Titan Tines Catalogue.		

\*Specifications and design subject to change without notice. Products depicted in this literature are for demonstration purposes only. Actual products offered for sale may vary in use, design, required attachments and safety features. See distributor for details on all warranties.

The ProCore 648s is manufactured in Tomah, WI ISO 9002 Certified Plant.



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**Count on it.**