




## ProCore® 648

The most productive walk greens aerator with a 48" swath. Innovative wheels-behind design eliminates crushed cores and hole damage.



PROCORE 648, MODEL 09200																					
<b>ENGINE</b>	Kohler®, 2-cylinder, air-cooled, 23 hp (17.1 kW) gross, 19 hp (14.2 kW) net @ 3000 rpm, 41 cu-in. (674 cc) displacement. Dry, large capacity, replaceable element air filter. External spin-on oil filter, 2-quart (1.9-liter).																				
<b>FUEL CAPACITY</b>	7.5 gallons (28.4 liter), gasoline.																				
<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>	3WD, Series-Parallel hydrostatic, closed loop. Variable displacement piston type pump. High-torque, low-speed wheel motor drive.																				
<b>HYDRAULIC SYSTEM</b>	Remote spin-on filter. 3.0- gallon (13.2 liter), Mobilfluid 424 (std.) or Mobil EAL biodegradable (opt.).																				
<b>CONSTRUCTION</b>	Welded steel frame with cast crank and arm assembly.																				
<b>TIRES</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. Hand actuated parking brake.																				
<b>GROUND SPEED</b>	<table border="0"> <tr> <td><b>Transport:</b></td> <td></td> <td><b>Aerating:</b></td> <td></td> </tr> <tr> <td>Forward:</td> <td>0-3.5 mph (0-6.4 km/h), variable</td> <td>Detent 1:</td> <td>1.5" (3.8 cm) spacing (2 x 1.5" pattern, 4-tine head)</td> </tr> <tr> <td>Reverse:</td> <td>0-2.0 mph (0-3.2 km/h), variable</td> <td>Detent 2:</td> <td>2.0" (5.1 cm) spacing (2 x 2.0" pattern, 4-tine head)</td> </tr> <tr> <td>Aerating:</td> <td>0.77-1.51 mph (1.23-2.42 km/h), variable</td> <td>Detent 3:</td> <td>2.5" (6.4 cm) spacing (2 x 2.5" pattern, 4-tine head)</td> </tr> <tr> <td></td> <td></td> <td>Detent 4:</td> <td>3.0" (7.6 cm) spacing (2 x 3.0" pattern, 4-tine head)</td> </tr> </table>	<b>Transport:</b>		<b>Aerating:</b>		Forward:	0-3.5 mph (0-6.4 km/h), variable	Detent 1:	1.5" (3.8 cm) spacing (2 x 1.5" pattern, 4-tine head)	Reverse:	0-2.0 mph (0-3.2 km/h), variable	Detent 2:	2.0" (5.1 cm) spacing (2 x 2.0" pattern, 4-tine head)	Aerating:	0.77-1.51 mph (1.23-2.42 km/h), variable	Detent 3:	2.5" (6.4 cm) spacing (2 x 2.5" pattern, 4-tine head)			Detent 4:	3.0" (7.6 cm) spacing (2 x 3.0" pattern, 4-tine head)
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<b>INSTRUMENTATION</b>	Hour meter, tachometer.																				
<b>CONTROLS</b>	Hand controlled bail on handle, coring head lifts and de-clutches if control bail is released. Parking brake and transaxle shift on handle. Coring head raise/lower switch on handle console. Side console with ignition, aeration spacing, manual ground follow and system reset. Aeration depth adjustment on coring head. Throttle and choke on engine.																				
<b>INTERLOCKS</b>	Clutch latch, traction neutral, coring head raise/lower.																				
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<b>CERTIFICATION</b>	ANSI B71.4-2017. CE & EU machinery directives.																				
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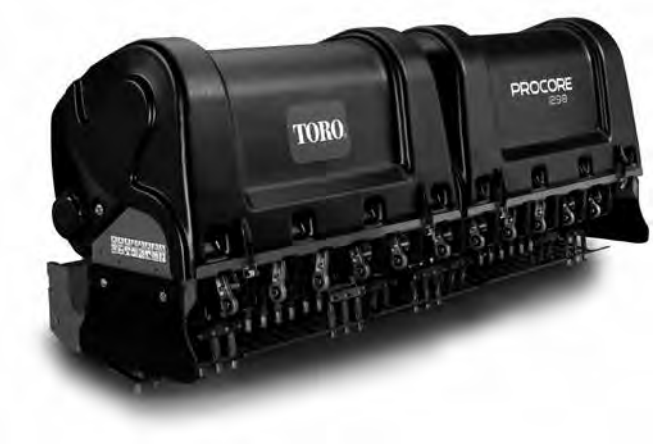
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# ProCore® 864 & 1298

The same ground-breaking technology that allowed the ProCore 648 to revolutionize greens aeration is available for large-scale applications in the ProCore 864 and 1298. Aerate fairways and sports fields in efficient 64" and 98" swaths with the smooth operation and precision performance you demand. You've never used a tractor-mounted aerator quite like it.



# ProCore® 864 & 1298 Specifications\*

	PROCORE 864, MODEL 09715	PROCORE 1298, MODEL 09716
<b>AERATION WIDTH</b>	64 inches / 163 cm	98 inches / 249 cm
<b>AERATION DEPTH</b>	5 inches / 12.7 cm maximum**	5 inches / 12.7 cm maximum**
<b>TRACTOR SIZE</b>	30 HP @ PTO minimum 35 HP @ PTO recommended	40 HP @ PTO minimum 50 HP @ PTO recommended
<b>TRACTOR CONNECTION</b>	3-point Category 1 or 2	3-point Category 2
<b>TRACTOR PTO</b>	540 RPM	540 RPM
<b>FORWARD HOLE SPACING (TRACTOR DEPENDENT)</b>	Variable up to 4.5 inches / 11.4 cm	Variable up to 4.5 inches / 11.4 cm
<b>LATERAL HOLE SPACING (TINE HEAD DEPENDENT)</b>	1.3 - 2.6 inches / 3.3 - 6.6 cm	1.3 - 2.6 inches / 3.3 - 6.6 cm
<b>NUMBER OF TINE HEADS</b>	8	12
<b>OVERALL WIDTH</b>	67 inches / 170 cm	101 inches / 256.5 cm
<b>HEIGHT</b>	38.5 inches / 98 cm	38.5 inches / 98 cm
<b>LENGTH</b>	35 inches / 89 cm	35 inches / 89 cm
<b>WEIGHT</b>	1575 lbs / 714 kg	2300 lbs / 1043 kg
<b>CERTIFICATION</b>	ANSI B71.4-2017, CE and EU machinery directives	
<b>WARRANTY</b>	Two-year or 500-hour limited warranty. Refer to Operator's Manual for further details	

## TINE HEADS

Model	Tine Heads:	Lateral Spacing	Mount Diameter
09737	Mini Tine Head (1 row of 6)	1.3"	3/8" (10 mm)
09736	Mini Tine Head (2 rows of 5)	1.6"	3/8" (10 mm)
09739	Needle Tine Head	1.6"	5 mm or 8 mm
09794	3 Tine Head	2.6"	3/4" (19 mm)
09796	4 Tine Head	2.0"	3/4" (19 mm)
09797	3 Tine Head HD	2.6"	7/8" (22 mm)
09719	QuickChange® 4-Tine	2.0" (5.1 cm)	3/4" (19 mm) or 7/8" (22 mm)

## PRODUCTIVITY RATES

Tractor Speed	Spacing	ProCore 864		ProCore 1298	
		sq. ft. / hr.	(sq. m / hr.)	sq. ft. / hr.	(sq. m / hr.)
0.5 (0.8)	1.0" (25 mm)	14,400	(1,338)	22,050	(2,049)
0.8 (1.2)	1.5" (38 mm)	21,600	(2,007)	33,075	(3,073)
1.0 (1.6)	2.0" (51 mm)	28,800	(2,676)	44,100	(4,097)
1.3 (2.1)	2.5" (64 mm)	36,000	(3,345)	55,125	(5,121)
1.5 (2.5)	3.0" (76 mm)	43,200	(4,013)	66,150	(6,146)
1.8 (2.9)	3.5" (89 mm)	50,400	(4,682)	77,175	(7,170)
2.0 (3.3)	4.0" (102 mm)	57,600	(5,351)	88,200	(8,194)
2.3 (3.7)	4.5" (114 mm)	64,800	(6,020)	99,225	(9,218)

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\*\*Hole depths greater than 4 inches can only be achieved with 6.5 inch length tines and with turf holders removed. Some degradation in hole quality may be observed in this configuration.





## ProCore® SR Series

With its fast, efficient performance, Toro's deep-tine aeration line relieves pressure-packed soil with unsurpassed hole quality. The deep-tine aerators vary in width from 48" to 75" and varies in depth capability from 1" to 16" allowing you to perform any aeration task.





# ProCore® SR Series Specifications\*

	PROCORE SR54 MODEL 09931	PROCORE SR54-S MODEL 09932	PROCORE SR70 MODEL 09933	PROCORE SR70-S MODEL 09934	PROCORE SR72 MODEL 09935
<b>WEIGHT WITH PTO &amp; TOP LINK</b>	1,165 lbs. (528 kg)	1,250 lbs. (567 kg)	1,500 lbs. (681 kg)	1,655 lbs. (750 kg)	2,091 lbs. (945 kg)
<b>WORKING WIDTH</b>	54" (1.37 m)	54" (1.37 m)	73" (1.85 m)	73" (1.85 m)	72" (1.83 m)
<b>WORKING DEPTH (ADJUSTABLE)</b>	1" - 10" (25-250 mm)	1" - 10" (25-250 mm)	1" - 10" (25-250 mm)	1" - 10" (25-250 mm)	1" - 16" (25-406 mm)
<b>HOLE SPACING</b>	2.5" - 4" (64-102 mm)	2.5" - 4" (64-102 mm)	2.5" - 4" (64-102 mm)	2.5" - 4" (64-102 mm)	3" - 6" (75-150 mm)
<b>PRODUCTIVITY</b>	36,000 sq.ft./hr. (3,345 sq. m/hr.)	36,000 sq.ft./hr. (3,345 sq. m/hr.)	48,000 sq.ft./hr. (4,460 sq. m/hr.)	48,000 sq.ft./hr. (4,460 sq. m/hr.)	38,000 sq.ft./hr. (3,530 sq. m/hr.)
<b>RECOMMENDED TRACTOR SIZE</b>	16-18 HP	18 HP	25-35 HP	25-35 HP	45 HP
<b>RECOMMENDED LIFT CAPACITY</b>	1,200 lbs. (682 kg)	1,500 lbs. (682 kg)	1,700 lbs. (773 kg)	1,800 lbs. (817 kg)	2,800 lbs. (1,270 kg)
<b>RECOMMENDED COUNTER WEIGHT</b>	150 lbs. (70 kg)	150 lbs. (70 kg)	250 lbs. (115 kg)	250 lbs. (115 kg)	300-500 lbs. (135-225 kg)
<b>RECOMMENDED PTO SPEED</b>	400-500 rpm	400-500 rpm	400-500 rpm	400-500 rpm	400-500 rpm
<b>ACTUAL WORKING SPEED @ 400 PTO RPM (VARIES WITH HOLE SPACING)</b>	1.5 -2.5 mph (2.41 - 4.02 kph)	1.5 -2.5 mph (2.41 - 4.02 kph)	1.5 -2.5 mph (2.41 - 4.02 kph)	1.5 -2.5 mph (2.41 - 4.02 kph)	0.8 -1.5 mph (1.29 - 2.41 kph)
<b>LIFT SYSTEM</b>	Std. 3-point	Std. 3-point	Std. 3-point	Std. 3-point	Std. 3-point
<b>CERTIFICATION</b>	ISO 4254-5:2008. CE and EU machinery directives				
<b>WARRANTY</b>	Two-year or 500-hour limited warranty. Refer to Operator's Manual for further details				

PROCORE SR SERIES ACCESSORIES	
REAR ROLLER OPTIONS	
<b>09952</b>	Rear Roller Kit for ProCore SR54 / SR54S
<b>09953</b>	Rear Roller Kit for ProCore SR70 / SR70S
<b>09954</b>	Rear Roller Kit for ProCore SR72

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## Turf Aerators 686 & 687

The 686 and 687 Turf Aerators give excellent depth performance and follow ground contours, vertically and horizontally, like no other aerator available.



(Turf Aerator 686 shown)

	TURF AERATOR 686, MODEL 44856	TURF AERATOR 687, MODEL 44867
<b>CAST WHEELS</b>	3 sets of 4, each set moves independently. 70 lbs. (32 kg), 13" (33 cm) diameter.	
<b>AERATING SWATH</b>	78" (198 cm)	78" (198 cm)
<b>TINES</b>	Choice of 1/2" (12.7 mm) or 3/4" (19 mm) open or closed tines. 4" (10 cm) and 6" (15 cm) slicing blades.	
<b>PATTERN</b>	6" (15 cm) forward. 3" (8 cm) lateral	
<b>HITCH</b>	Drop pin, tow type with hydraulic cylinder for lift, hand pump standard.	3 pt., Category 1.
<b>OPERATING SPEED</b>	1-10 mph (1.6-16.1 km/h)	1-10 mph (1.6-16.1 km/h)
<b>LENGTH</b>	78" (198 cm)	48" (122 cm)
<b>WIDTH</b>	90" (229 cm)	82" (208 cm)
<b>HEIGHT</b>	Approx. 40" (102 cm)	Approx. 40" (102 cm)
<b>OPTIONS</b>	Weights: 35 lbs. (16 kg) each, 2 maximum per coring head. Tractor Remote Kit, Model 68-608-3521. <b>Note:</b> Includes weights, but additional weights can be added.	Weights: 35 lbs. (16 kg) each, 2 maximum per coring head; set of 3. <b>Note:</b> Includes weights, but additional weights can be added.
<b>SHIPPING WEIGHT</b>	1,420 lbs. (644 kg)	1,300 lbs. (590 kg)
<b>WARRANTY</b>	Two-year limited warranty; Refer to the Operator's Manual for further details.	

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# Aerothatch 83 & Seeder 93

Provides relief from troublesome thatch and compaction and slit seeds all in one pass.



(Aerothatch 83 and Seeder 93 shown)

AEROHATCH 83, MODEL 44830	
<b>SWATH</b>	48" (122 cm), 45" (114 cm) blade tip to blade tip.
<b>SPACING</b>	Model 44830: 3" (7.6 cm)
<b>HITCH</b>	Standard 3 point hitch, Category 1.
<b>DRIVE</b>	Std. 13/8" splined Ag. type drive shaft. PTO to gearbox, sealed bearing and sprocket, #H80 chain to blade shaft.
<b>GEARBOX</b>	Heavy duty 1:1 right angle reversible gearbox.
<b>BLADES</b>	(16) 12 ga./10 pt. (Optional: 7 ga. & 10 ga./10 pt.).
<b>BLADE SHAFT</b>	1.5" (38 mm) square high carbon steel.
<b>BLADE DEPTH</b>	0-3" (7.6 cm) in 1/4" (6.3 mm) increments.
<b>FRAME</b>	All welded steel construction.
<b>ROLLER</b>	Full width, 3.5" (8.9 cm) dia. roller with sealed bearings. Roller is integral with the skid shoes and spring loaded wiper for full width of roller.
<b>DIMENSIONS</b>	Height: 36" (91 cm) (with 3 pt. hitch). Length: 57" (145 cm). Width: 60" (152 cm).
<b>SHIPPING WEIGHT</b>	550 lbs. (250 kg)

SEEDER 93, MODEL 44835[1]	
<b>DRIVE</b>	Ground powered.
<b>SEED HOPPER</b>	100 lbs. (45.4 kg) capacity.
<b>HOPPER AUGER</b>	Metal cogs on a steel shaft.
<b>SEED SHUT OFF</b>	Remote from the operator's position.
<b>SEED TUBES</b>	Delivers seed to 16 discs.
<b>FEED OPENINGS</b>	Adjustable to the desired rate.
<b>DIMENSIONS</b>	Height: 33" (84 cm). Length: 13" (33 cm) Width: 56" (142 cm)
<b>SHIPPING WEIGHT</b>	300 lbs. (136 kg)
<b>OPTIONAL</b>	Drag Mat, 72-002-0021.

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[1] Must be used with 44830 Aerothatch.

