

Toro®

TITAN TINES

2012 Catalog



Count on it.

Toro®

TITAN TINES

2012 Catalog



TITAN® Tines

Aeration Catalog

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TURF Aeration Improves CONDITIONS



Aeration keeps your turf looking great. It's important to aerate often, especially when it comes to high traffic areas, and with TITAN® tines on your team you'll know you have the best equipment to meet all of your aeration needs successfully.

Toro's Family Of Tines Are Designed To Meet Your Exact Aeration Need

Tine	Tip	Longevity	Application	Wall Thickness
Toro Classic	Standard durable heat treated tip	Good	Good quality in most turf conditions	Thin wall delivers durability and exceptional performance
TITAN	Sharp heat treated tip for improved hole quality and life	Better	Provides superior performance and long lasting wear in most turf conditions	Thin wall delivers durability and exceptional performance
TITAN Max	Sharp carbide tip for excellent hole quality and life	Best	Provides superior performance and long lasting wear in most conditions	Thin wall delivers durability and exceptional performance
TITAN Fairway	Standard heat treated fairway tip for consistent core removal	Better	Provides quality performance in natural soil conditions	Thicker wall provides good hole quality and maximum strength
TITAN HD Fairway	Enhanced hardened tip for 75% longer life than TITAN Fairway	Best	Provides excellent performance and wear in extreme conditions	Thicker wall provides good hole quality and maximum strength

A Tine To Fit Every Application

Toro® has about every possible tine you can imagine for the changing seasons and your most demanding turf conditions. TITAN® Tines offer superior quality to provide your grounds the best possible care.

Toro TITAN Tines Offer

- Over 150 tines, providing multiple aeration choices
- A wide variety of types meeting your exact aeration requirements
- Higher Productivity: TITAN Max designed with long lasting tungsten carbide blend tip
- Better Performance: TITAN tines last approximately 3-4 times longer than standard tines
- An optimized core, removing more thatch for maximum topdressing
- A superior hole, improving recovery time and maintaining playability
- A tough design, maintaining consistent aeration depth and reducing costly change outs
- 4130/4140 strong alloy combined with unique heat treat process, maximizing strength and resistance to wear
- Durable brazed tip joints for strong bond and resistance to separation and breakage (TITAN Max)



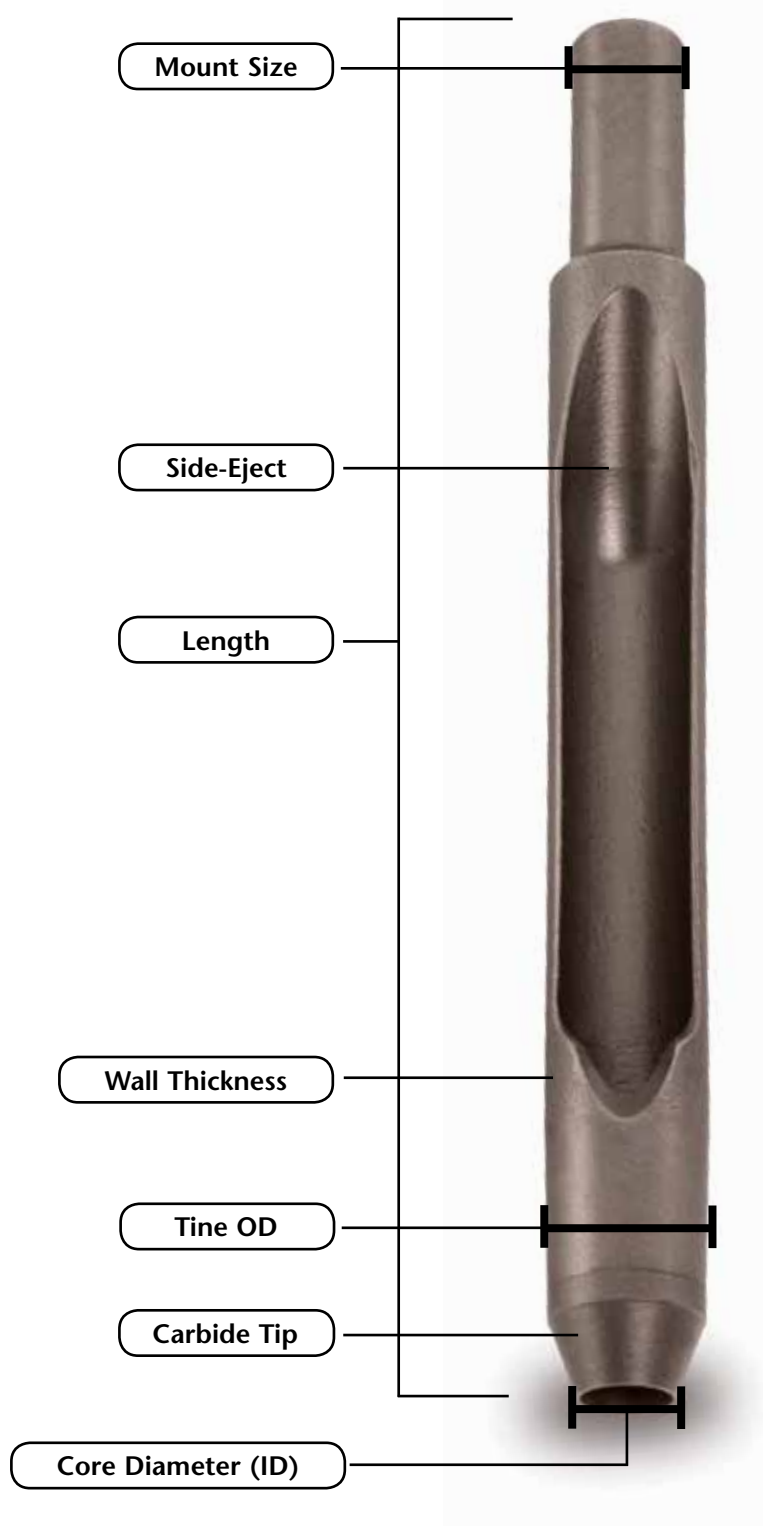
Jump-start your productivity with the TITAN QuickChange™ tine head. The patent-pending taper-lock design makes changing tines a snap. In fact, many users have reduced set-up time by up to 75%. TITAN QuickChange will help you get your aeration done FAST!

CORING TINES



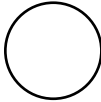
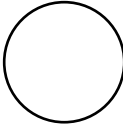
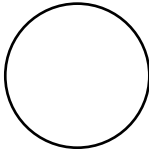
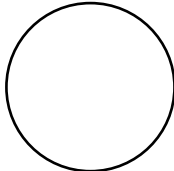
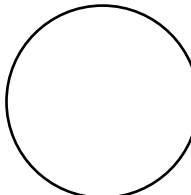
SOLID TINES



SELECTION & MEASUREMENT



Standard Sizes

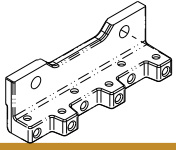
6.3 mm (.250")	
9.5 mm (.375")	
12.7 mm (.500")	
15.9 mm (.625")	
19.0 mm (.750")	
22.2 mm (.875")	
25.4 mm (1.00")	

Titan® tines fit all current and late model Toro® aerators. Standard mount size fits most competitor equipment. Check mounting size to ensure compatibility.

Tine Head Identification Guide

ProCore 648/864/1298 (See pages 12-17, 18-23)

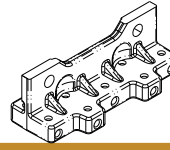
QUAD TINE HEAD (1x6)



Tine Mount 9.5 mm (.375")

Qty. of Tines 6

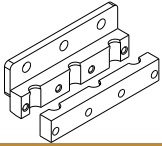
QUAD TINE HEAD (2x5)



Tine Mount 9.5 mm (.375")

Qty. of Tines 10

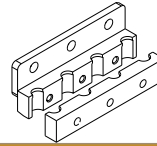
19.0 mm (.750") 3-TINE HEAD



Tine Mount 19.0 mm (.750")

Qty. of Tines 3

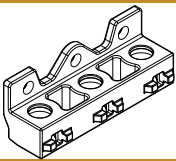
19.0 mm (.750") 4-TINE HEAD



Tine Mount 19.0 mm (.750")

Qty. of Tines 4

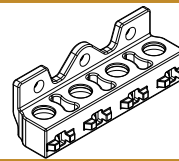
QUICKCHANGE 3-TINE HEAD



Tine Mount 19.0 mm (.750") or 22.2 mm (.875")

Qty. of Tines 3

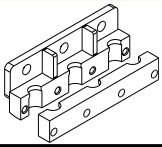
QUICKCHANGE 4-TINE HEAD



Tine Mount 19.0 mm (.750") or 22.2 mm (.875")

Qty. of Tines 4

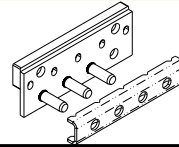
22.2 mm (.875") 3-TINE HD HEAD



Tine Mount 22.2 mm (.875")

Qty. of Tines 3

NEEDLE TINE HEAD

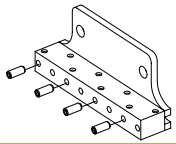


Tine Mount Needle

Qty. of Tines 5

ProCore 440/660/880 (See pages 24-28)

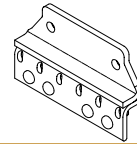
QUAD TINE HEAD (1x6)



Tine Mount 9.5 mm (.375")

Qty. of Tines 8

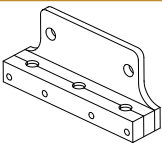
NEEDLE TINE HEAD



Tine Mount Needle

Qty. of Tines 6

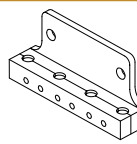
19.0 mm (.750") 3-TINE HEAD



Tine Mount 19.0 mm (.750")

Qty. of Tines 3

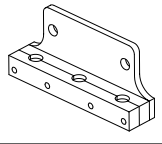
19.0 mm (.750") 4-TINE HEAD



Tine Mount 19.0 mm (.750")

Qty. of Tines 4

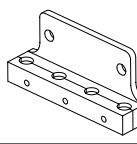
22.2 mm (.875") 3-TINE HEAD



Tine Mount 22.2 mm (.875")

Qty. of Tines 3

22.2 mm (.875") 4-TINE HEAD

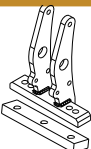


Tine Mount 22.2 mm (.875")

Qty. of Tines 4

ProCore SR Series (See pages 30-39)

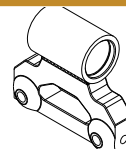
SR54-S / SR70-S



Tine Mount 7.9 mm (.3125") or 12 mm

Qty. of Tines 3

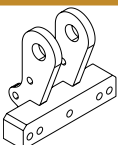
SR75



Tine Mount .875" or 18 mm

Qty. of Tines 2

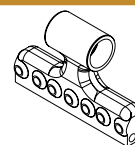
SR54 / SR70



Tine Mount 7.9 mm (.3125") or 12 mm

Qty. of Tines 2 or 3

SR48 / SR72



Tine Mount 12 mm or 18 mm

Qty. of Tines 3 or 4



Quick Results— With The Titan® QuickChange™ Tine Head.

Titan QuickChange™ Tine Head

The New Titan QuickChange tine head provides increased flexibility in the field when tines need to be changed and dramatically reduces the time spent on tine change out. The Titan QuickChange tine head is available in a 3 or 4 tine head model and can accept any 19.0 mm (.750") or 22.2 mm (.875") mount tine depending on which QuickChange Sleeve is used. Both the 3 and 4 tine heads fit Toro ProCore® 648 and the new ProCore 864/1298 aerators.

Part Number	Description
108-6837	19.0 mm (.750") QuickChange Sleeve
108-6838	22.2 mm (.875") QuickChange Sleeve
09711	Titan QuickChange 3 Tine Head (Qty: 2)
09719	Titan QuickChange 4 Tine Head (Qty: 2)
112-5137	QuickChange Tool Kit



19.0 mm (.750")
QuickChange Sleeve



22.2 mm (.875")
QuickChange Sleeve



Titan QuickChange
3 Tine Head



Titan QuickChange
4 Tine Head

Titan® tines fit all current and late model Toro® aerators. Standard mount size fits most competitor equipment. Check mounting size to ensure compatibility. Prices subject to change without notice. Toro® Titan® Tines made in USA. ©2009 The Toro Company.

Aeration Evaluation Guide

Determine the total surface area affected and amount of material removed.

STEP ONE

The first step is to find holes per square metre.

If you know your lateral and forward spacing, find holes per square foot on the **Holes Per Square Metre** table.

EXAMPLE:

Lateral Spacing = 5.1 cm

Forward Spacing = 5.1 cm

Holes Per Square Metre = 384.5

If you are not sure of your forward and lateral spacing, but know your aerator model number go to the **Pick A Model** table and pick your spacing options. This table will also help you determine the proper turf holder based on your tine configuration.

STEP TWO

To determine the total surface area affected and volume of soil removed when aerating, reference the **Percent Surface Area Affected/Volume Removed** table. All you need to know is holes per square metre, core diameter (ID), and the depth* at which you are aerating.

EXAMPLE:

Holes Per Square Metre = 384.5

Core Diameter = 0.8 cm

Depth = 7.6 cm

Percent Surface Area Affected = 1.79%

Volume Removed = 0.133 cubic metres per 100 square metres

* Tine depth can vary based on machine set-up.



Aeration Evaluation Guide

STEP ONE

Holes per Square Metre

All Models	Forward Spacing (cm)									
	2.5	3.8	5.1	6.4	7.6	8.9	10.2	11.4	15.2	
Lateral Spacing (cm)	3.0	1333.3	877.2	653.6	520.8	438.6	374.5	326.8	292.4	-
	3.3	-	797.4	594.2	473.5	398.7	-	-	-	-
	4.1	-	-	-	381.1	-	-	-	-	-
	5.1	784.3	516.0	384.5	306.4	258.0	-	-	-	-
	5.7	-	-	-	274.1	-	-	-	-	-
	6.1	655.7	431.4	321.4	256.1	215.7	184.2	160.7	143.8	-
	6.4	625.0	411.2	306.4	244.1	205.6	-	-	-	-
	8.1	493.8	324.9	242.1	192.9	162.4	138.7	121.0	108.3	-
	8.9	-	-	-	-	147.8	-	-	-	-
	13.3	-	-	-	-	-	-	-	-	49.5

STEP TWO

Percent Of Surface Area Affected And Amount Of Volume Removed

Core Diameter (cm) Depth*	Holes Per Square Meter														
	49.5	108.3	121.0	138.7	143.8	147.8	162.4	184.2	192.9	205.6	215.7	242.1	244.1	256.1	
Determine Surface Area Affected	0.5	0.10%	0.22%	0.25%	0.28%	0.29%	0.30%	0.33%	0.37%	0.39%	0.42%	0.44%	0.49%	0.49%	0.52%
	3.8	0.004	0.008	0.009	0.011	0.011	0.011	0.013	0.014	0.015	0.016	0.017	0.019	0.019	0.020
	5.1	0.005	0.011	1.04	0.014	0.015	0.015	0.017	0.019	0.020	0.021	0.022	0.025	0.025	0.026
	6.4	0.006	0.014	1.31	0.018	0.019	0.019	0.021	0.024	0.025	0.027	0.028	0.031	0.032	0.033
	7.6	0.008	0.017	1.55	0.021	0.022	0.023	0.025	0.028	0.030	0.032	0.033	0.037	0.038	0.039
	8.9	0.009	0.020	1.82	0.025	0.026	0.027	0.029	0.033	0.035	0.037	0.039	0.044	0.044	0.046
	10.2	0.010	0.022	2.09	0.029	0.030	0.031	0.034	0.038	0.040	0.043	0.045	0.050	0.050	0.053
	0.8	0.23%	0.49%	0.55%	0.63%	0.66%	0.67%	0.74%	0.84%	0.88%	0.94%	0.98%	1.10%	1.11%	1.17%
	3.8	0.009	0.019	0.021	0.024	0.025	0.026	0.028	0.032	0.033	0.036	0.037	0.042	0.042	0.044
	5.1	0.012	0.025	0.028	0.032	0.033	0.034	0.038	0.043	0.045	0.048	0.050	0.056	0.057	0.060
	6.4	0.014	0.032	0.035	0.040	0.042	0.043	0.047	0.054	0.056	0.060	0.063	0.071	0.071	0.075
	7.6	0.017	0.038	0.042	0.048	0.050	0.051	0.056	0.064	0.067	0.071	0.075	0.084	0.085	0.089
	8.9	0.020	0.044	0.049	0.056	0.058	0.060	0.066	0.075	0.078	0.083	0.088	0.098	0.099	0.104
	10.2	0.023	0.050	0.056	0.065	0.067	0.069	0.076	0.086	0.090	0.096	0.100	0.113	0.114	0.119
	1.0	0.40%	0.88%	0.98%	1.12%	1.17%	1.20%	1.32%	1.49%	1.56%	1.67%	1.75%	1.96%	1.98%	2.08%
	3.8	0.015	0.033	0.037	0.043	0.044	0.046	0.050	0.057	0.059	0.063	0.066	0.075	0.075	0.079
	5.1	0.020	0.045	0.050	0.057	0.059	0.061	0.067	0.076	0.080	0.085	0.089	0.100	0.101	0.106
	6.4	0.026	0.056	0.063	0.072	0.075	0.077	0.084	0.096	0.100	0.107	0.112	0.126	0.127	0.133
	7.6	0.030	0.067	0.075	0.085	0.089	0.091	0.100	0.113	0.119	0.127	0.133	0.149	0.150	0.158
	8.9	0.036	0.078	0.087	0.100	0.104	0.107	0.117	0.133	0.139	0.148	0.156	0.175	0.176	0.185
	10.2	0.041	0.090	0.100	0.115	0.119	0.122	0.134	0.152	0.160	0.170	0.178	0.200	0.202	0.212
	1.3	0.63%	1.37%	1.53%	1.76%	1.82%	1.87%	2.06%	2.33%	2.44%	2.60%	2.73%	3.07%	3.09%	3.24%
	3.8	0.024	0.052	0.058	0.067	0.069	0.071	0.078	0.089	0.093	0.099	0.104	0.117	0.118	0.123
	5.1	0.032	0.070	0.078	0.090	0.093	0.096	0.105	0.119	0.125	0.133	0.139	0.156	0.158	0.165
	6.4	0.040	0.088	0.098	0.112	0.117	0.120	0.132	0.149	0.156	0.167	0.175	0.196	0.198	0.208
	7.6	0.048	0.104	0.117	0.134	0.138	0.142	0.156	0.177	0.186	0.198	0.208	0.233	0.235	0.247
	8.9	0.056	0.122	0.136	0.156	0.162	0.167	0.183	0.208	0.217	0.232	0.243	0.273	0.275	0.289
	10.2	0.064	0.140	0.156	0.179	0.186	0.191	0.210	0.238	0.249	0.266	0.279	0.313	0.315	0.331
	1.5	0.90%	1.98%	2.21%	2.53%	2.62%	2.70%	2.96%	3.36%	3.52%	3.75%	3.93%	4.42%	4.45%	4.67%
	3.8	0.034	0.075	0.084	0.096	0.100	0.102	0.113	0.128	0.134	0.143	0.150	0.168	0.169	0.178
	5.1	0.046	0.101	0.113	0.129	0.134	0.138	0.151	0.171	0.179	0.191	0.201	0.225	0.227	0.238
	6.4	0.058	0.126	0.141	0.162	0.168	0.173	0.190	0.215	0.225	0.240	0.252	0.283	0.285	0.299
	7.6	0.069	0.150	0.168	0.192	0.199	0.205	0.225	0.255	0.267	0.285	0.299	0.336	0.338	0.355
	8.9	0.080	0.176	0.197	0.225	0.233	0.240	0.264	0.299	0.313	0.334	0.350	0.393	0.396	0.416
	10.2	0.092	0.201	0.225	0.258	0.268	0.275	0.302	0.343	0.359	0.383	0.401	0.450	0.454	0.477
	1.8	1.23%	2.69%	3.01%	3.44%	3.57%	3.67%	4.03%	4.57%	4.79%	5.10%	5.36%	6.01%	6.06%	6.36%
	7.6	0.093	0.204	0.228	0.262	0.271	0.279	0.307	0.348	0.364	0.388	0.407	0.457	0.461	0.483
	8.9	0.109	0.239	0.267	0.307	0.318	0.327	0.359	0.407	0.426	0.454	0.477	0.535	0.539	0.566
	10.2	0.125	0.274	0.307	0.351	0.364	0.374	0.411	0.466	0.489	0.521	0.546	0.613	0.618	0.649
	11.4	0.140	0.307	0.343	0.393	0.407	0.418	0.460	0.521	0.546	0.582	0.611	0.685	0.691	0.725
	12.7	0.156	0.341	0.382	0.437	0.453	0.466	0.512	0.581	0.608	0.648	0.680	0.763	0.770	0.808

* Tine depth can vary based on machine set-up.

Volume Removed, Cubic Metres Per 100 Square Metre

Risk Of Turf Damage

Model Configuration

Pick A Model	Product	Description No.	No.	Lateral Options (cm)	Forward Spacing (cm)
	ProCore 648 Model 09200 ProCore 864/1298 Models 09715, 09716	Needle Tine Head	09739	4.1	3.8, 5.1, 6.4
		Quad Tine Head, 2 rows of 5	09736	4.1	6.4
		Quad Tine Head, 1 rows of 6	09737	3.3	3.8, 5.1, 6.4, 7.6
3 Tine, 19.0 mm (.750") Mount Head		09794	6.6	3.8, 5.1, 6.4, 7.6	
4 Tine, 19.0 mm (.750") Mount Head		09796	5.1	3.8, 5.1, 6.4, 7.6	
3 Tine HD, 22.2 mm (.875") Mount Head		09797	6.6	3.8, 5.1, 6.4, 7.6	
4 Tine Titan QuickChange		09719	5.1	3.8, 5.1, 6.4, 7.6	
3 Tine Titan QuickChange	09711	6.6	3.8, 5.1, 6.4, 7.6		
ProCore 440/660/880 Models 09701, 09702	Needle Tine Head 660/880	09720	3.0	3.8, 5.1, 6.4	
	Needle Tine Head 660/880	09720	3.0	3.8, 5.1, 6.4	
	Quad Tine Head	09721	3.0	3.8, 5.1, 6.4	
	3 Tine, 19.0 mm (.750") Mount Head	09722	8.1	5.1, 6.4, 7.6, 8.9, 10.2, 11.4	
	4 Tine, 19.0 mm (.750") Mount Head	09723	6.1	5.1, 6.4, 7.6, 8.9, 10.2, 11.4	
	3 Tine, 22.2 mm (.875") Mount Head	09733	8.1	5.1, 6.4, 7.6, 8.9, 10.2, 11.4	
	4 Tine, 22.2 mm (.875") Mount Head	09734	6.1	5.1, 6.4, 7.6, 8.9, 10.2, 11.4	
Toro Greens Aerator Models 09110, 09120	19.0 mm (.750") Head	59-2500	5.7	6.4	
	22.2 mm (.875") Head	62-4610			
	Needle Head	94-3421			
	9.5 mm (.375") Head	94-3420			
Toro Fairway Aerator Models 09500, 09501, 09502			8.9	7.6, 15.2	
			13.3	7.6, 15.2	

Holes Per Square Meter

274.1	292.4	306.4	321.4	374.5	384.5	411.2	431.4	473.5	493.8	516.0	594.2	625.0	655.7	784.3	877.2	1333.3
0.56%	0.59%	0.62%	0.65%	0.76%	0.78%	0.83%	0.87%	0.96%	1.00%	1.05%	1.20%	1.27%	1.33%	1.59%	1.78%	2.70%
0.021	0.023	0.024	0.025	0.029	0.030	0.032	0.033	0.036	0.038	0.040	0.046	0.048	0.051	0.060	0.068	0.103
0.028	0.030	0.032	0.033	0.039	0.040	0.043	0.045	0.049	0.051	0.053	0.061	0.065	0.068	0.081	0.091	0.138
0.036	0.038	0.040	0.042	0.049	0.050	0.053	0.056	0.061	0.064	0.067	0.077	0.081	0.085	0.102	0.114	0.173
0.042	0.045	0.047	0.050	0.058	0.059	0.063	0.066	0.073	0.076	0.079	0.092	0.096	0.101	0.121	0.135	0.205
0.049	0.053	0.055	0.058	0.068	0.069	0.074	0.078	0.085	0.089	0.093	0.107	0.113	0.118	0.141	0.158	0.241
0.057	0.060	0.063	0.066	0.077	0.079	0.085	0.089	0.098	0.102	0.107	0.123	0.129	0.136	0.162	0.181	0.276
1.25%	1.33%	1.40%	1.47%	1.71%	1.75%	1.88%	1.97%	2.16%	2.25%	2.35%	2.71%	2.85%	2.99%	3.58%	4.00%	6.08%
0.048	0.051	0.053	0.056	0.065	0.067	0.071	0.075	0.082	0.086	0.089	0.103	0.108	0.114	0.136	0.152	0.231
0.064	0.068	0.071	0.075	0.087	0.089	0.096	0.100	0.110	0.115	0.120	0.138	0.145	0.153	0.182	0.204	0.310
0.080	0.085	0.089	0.094	0.109	0.112	0.120	0.126	0.138	0.144	0.151	0.173	0.182	0.191	0.229	0.256	0.389
0.095	0.101	0.106	0.111	0.130	0.133	0.143	0.150	0.164	0.171	0.179	0.206	0.217	0.227	0.272	0.304	0.462
0.111	0.119	0.124	0.130	0.152	0.156	0.167	0.175	0.192	0.200	0.209	0.241	0.254	0.266	0.318	0.356	0.541
0.128	0.136	0.143	0.150	0.174	0.179	0.191	0.201	0.220	0.230	0.240	0.276	0.291	0.305	0.365	0.408	0.620
2.22%	2.37%	2.48%	2.61%	3.04%	3.12%	3.33%	3.50%	3.84%	4.00%	4.18%	4.82%	5.07%	5.32%	6.36%	7.11%	10.81%
0.084	0.090	0.094	0.099	0.115	0.118	0.127	0.133	0.146	0.152	0.159	0.183	0.193	0.202	0.242	0.270	0.411
0.113	0.121	0.127	0.133	0.155	0.159	0.170	0.178	0.196	0.204	0.213	0.246	0.258	0.271	0.324	0.363	0.551
0.142	0.152	0.159	0.167	0.194	0.199	0.213	0.224	0.246	0.256	0.268	0.308	0.324	0.340	0.407	0.455	0.692
0.169	0.180	0.189	0.198	0.231	0.237	0.253	0.266	0.292	0.304	0.318	0.366	0.385	0.404	0.483	0.540	0.822
0.198	0.211	0.221	0.232	0.270	0.277	0.297	0.311	0.342	0.356	0.372	0.429	0.451	0.473	0.566	0.633	0.962
0.227	0.242	0.253	0.266	0.310	0.318	0.340	0.357	0.392	0.408	0.427	0.491	0.517	0.542	0.549	0.725	1.103
3.47%	3.70%	3.88%	4.07%	4.74%	4.87%	5.21%	5.46%	6.00%	6.26%	6.54%	7.53%	7.92%	8.31%	9.94%	11.11%	16.89%
0.132	0.141	0.147	0.155	0.180	0.185	0.198	0.208	0.228	0.238	0.248	0.286	0.301	0.316	0.378	0.422	0.642
0.177	0.189	0.198	0.208	0.242	0.248	0.266	0.279	0.306	0.319	0.333	0.384	0.404	0.424	0.507	0.567	0.861
0.222	0.237	0.248	0.261	0.304	0.312	0.333	0.350	0.384	0.400	0.418	0.482	0.507	0.532	0.636	0.711	1.081
0.264	0.282	0.295	0.309	0.361	0.370	0.396	0.415	0.456	0.475	0.497	0.572	0.602	0.631	0.755	0.845	1.284
0.309	0.330	0.345	0.362	0.422	0.433	0.464	0.486	0.534	0.557	0.582	0.670	0.705	0.739	0.884	0.989	1.503
0.354	0.378	0.396	0.415	0.484	0.497	0.531	0.557	0.612	0.638	0.657	0.768	0.808	0.847	1.013	1.133	1.723
5.00%	5.33%	5.59%	5.86%	6.83%	7.01%	7.50%	7.87%	8.64%	9.01%	9.41%	10.84%	11.40%	11.96%	14.31%	16.00%	24.32%
0.190	0.203	0.212	0.223	0.260	0.267	0.285	0.299	0.328	0.342	0.358	0.412	0.433	0.455	0.544	0.608	0.924
0.255	0.272	0.285	0.299	0.348	0.358	0.383	0.401	0.440	0.459	0.480	0.553	0.581	0.610	0.730	0.816	1.204
0.320	0.341	0.358	0.375	0.437	0.449	0.480	0.504	0.553	0.577	0.602	0.694	0.730	0.766	0.916	1.024	1.557
0.380	0.405	0.425	0.446	0.519	0.533	0.570	0.598	0.656	0.685	0.715	0.824	0.866	0.909	1.087	1.216	1.848
0.445	0.475	0.497	0.522	0.608	0.624	0.668	0.700	0.769	0.802	0.838	0.965	1.015	1.065	1.273	1.424	2.165
0.510	0.544	0.570	0.598	0.697	0.715	0.765	0.803	0.881	0.919	0.960	1.106	1.163	1.220	1.459	1.632	2.481
6.81%	7.26%	7.61%	7.98%	9.30%	9.55%	10.21%	10.71%	11.76%	12.26%	12.81%	14.75%	15.52%	16.28%	19.47%	21.78%	33.10%
0.517	0.552	0.578	0.607	0.707	0.725	0.776	0.814	0.893	0.932	0.974	1.121	1.179	1.237	1.480	1.655	2.516
0.606	0.646	0.677	0.710	0.828	0.850	0.909	0.953	1.046	1.091	1.140	1.313	1.381	1.449	1.733	1.938	2.946
0.694	0.741	0.776	0.814	0.949	0.974	1.041	1.093	1.199	1.251	1.307	1.505	1.583	1.661	1.986	2.222	3.377
0.776	0.828	0.867	0.910	1.060	1.088	1.164	1.221	1.340	1.398	1.461	1.682	1.769	1.856	2.220	2.483	3.774
0.864	0.922	0.966	1.014	1.181	1.212	1.297	1.360	1.493	1.557	1.627	1.874	1.971	2.068	2.473	2.766	4.204

* Tine depth can vary based on machine set-up.

Higher Risk Of Turf Damage

Percent Of Surface Area Affected

FEATURES & BENEFITS

- 122 cm (48 inch) wide aeration swath
- TrueCore™ ground following system
- Wheel placement inside the aeration head
- Precision balanced aeration head drive
- RotaLink™ tine guide mechanism
- Series/Parallel 3-wheel drive

ProCore® 648



The ProCore 648 is an innovative walking aerator from Toro. The rear wheels are within the 122 cm (48") aeration swath of the machine so the tires are not running over the freshly aerated turf. This eliminates the problem of smashing the cores into the holes, preventing topdressing from filling the holes. And easier cleanup produces a savings of time and labor.


TINE HEADS AND TURF GUARDS

Tine Heads			Turf Guards		Turf Guards	
Description	Part No.	Tines Required	Part No.	Qty	Part No.	Qty
Needle Tine Head	09739	30				
Quad Tine 9.5 mm (.375") Mount Head, 2 rows of 5	09736	60	120-1047	2	120-1052	1
Quad Tine 9.5 mm (.375") Mount Head, 1 row of 6	09737	36	110-4369	2	110-4370	1
3 Tine, 19.0 mm (.750") Mount Head	09794	18	120-1044	2	110-4358	1
4 Tine, 19.0 mm (.750") Mount Head	09796	24	110-4361	2	110-4362	1
3 Tine HD 22.2 mm (.875") Mount Head	09797	18	120-1044	2	110-4358	1
3 Tine Titan 19.0 mm (.750") or 22.2 mm (.875") Mount QuickChange Head	09711	18	120-1044	2	110-4358	1
4 Tine Titan 19.0 mm (.750") or 22.2 mm (.875") Mount QuickChange Head	09719	24	110-4361	2	110-4362	1


ProCore 648

9.5 mm (.375") Mounting Size


TITAN MAX

	Length	Core Dia. (ID)	OD	Wall Thickness	Part Number	Part Number	Core Dia. (ID)
TITAN QUAD AND MAX QUAD							
	114.3 mm (4.50")	6.3 mm (.248")	9.1 mm (.360")	1.3 mm (.052")	108-9104	108-9112	5.8 mm (.230")
	114.3 mm (4.50")	8.1 mm (.318")	11.6 mm (.458")	1.6 mm (.063")	108-9105	108-9114	7.1 mm (.280")
	114.3 mm (4.50")	10.3 mm (.406")	13.9 mm (.546")	1.6 mm (.063")	108-9106	108-9116	9.7 mm (.380")
	114.3 mm (4.50")	12.2 mm (.480")	14.7 mm (.580")	1.6 mm (.063")	108-9293		
	127.0 mm (5.00")	6.3 mm (.248")	9.1 mm (.360")	1.3 mm (.052")	108-9108	108-9120	5.8 mm (.230")
	127.0 mm (5.00")	8.1 mm (.318")	11.6 mm (.458")	1.6 mm (.063")	108-9109	108-9122	7.1 mm (.280")
	127.0 mm (5.00")	10.3 mm (.406")	13.9 mm (.546")	1.6 mm (.063")	108-9110	108-9124	9.7 mm (.380")
	127.0 mm (5.00")	12.2 mm (.480")	14.7 mm (.580")	1.6 mm (.063")	108-9294		
	139.7 mm (5.50")	10.3 mm (.406")	14.7 mm (.580")	1.6 mm (.063")	108-9290		

TITAN SOLID ROUND

	114.3 mm (4.50")	N/A	5.1 mm (.200")	N/A	108-9230		
	114.3 mm (4.50")	N/A	6.3 mm (.250")	N/A	108-9231		
	114.3 mm (4.50")	N/A	7.6 mm (.300")	N/A	108-9232		
	114.3 mm (4.50")	N/A	9.7 mm (.380")	N/A	108-9233		
	139.7 mm (5.50")	N/A	5.1 mm (.200")	N/A	108-9234		
	139.7 mm (5.50")	N/A	6.3 mm (.250")	N/A	108-9235		
	139.7 mm (5.50")	N/A	7.6 mm (.300")	N/A	108-9236		
	139.7 mm (5.50")	N/A	9.7 mm (.380")	N/A	108-9237		

TITAN SOLID SLICING

	127.0 mm (5.00")	N/A	15.9 mm (.625")	N/A	108-9238		
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TITAN CROSS AND MAX CROSS

	114.3 mm (4.50")	N/A	9.5 mm (.375")	N/A	108-9215		
	114.3 mm (4.50")	N/A	12.7 mm (.500")	N/A	108-9216	112-1310	12.7 mm (.500")
	114.3 mm (4.50")	N/A	15.9 mm (.625")	N/A	108-9217		
	139.7 mm (5.50")	N/A	9.5 mm (.375")	N/A	108-9218		
	139.7 mm (5.50")	N/A	12.7 mm (.500")	N/A	108-9219	112-1311	12.7 mm (.500")
	139.7 mm (5.50")	N/A	15.9 mm (.625")	N/A	108-9220		

ProCore® 648

ProCore 648

19.0 mm (.750") Mounting Size

TITAN MAX

Length	Core Dia. (ID)	OD	Wall Thickness	Part Number	Part Number	Core Dia. (ID)
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TITAN HOLLOW AND MAX HOLLOW



120.6 mm (4.75")	7.1 mm (.280")	11.7 mm (.460")	1.5 mm (.058")	108-9128	108-9139	7.1 mm (.280")
120.6 mm (4.75")	10.3 mm (.406")	14.2 mm (.560")	1.5 mm (.058")	108-9129	108-9141	9.7 mm (.380")
120.6 mm (4.75")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	108-9130	108-9143	12.2 mm (.480")
146.0 mm (5.75")	7.1 mm (.280")	11.7 mm (.460")	1.5 mm (.058")	108-9132	108-9145	7.1 mm (.280")
146.0 mm (5.75")	10.3 mm (.406")	14.2 mm (.560")	1.5 mm (.058")	108-9133	108-9147	9.7 mm (.380")
146.0 mm (5.75")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	108-9134	108-9149	12.2 mm (.480")
165.1 mm (6.50")	7.1 mm (.280")	11.7 mm (.460")	1.5 mm (.058")	108-9138	108-9135	7.1 mm (.280")
165.1 mm (6.50")	10.3 mm (.406")	14.2 mm (.560")	1.5 mm (.058")	108-9136	108-9151	9.7 mm (.380")
165.1 mm (6.50")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	108-9137	108-9153	12.2 mm (.480")

TITAN HOLLOW - EXTENDED TAPER



146.0 mm (5.75")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	114-0551	114-0553	12.0 mm (.473")
165.1 mm (6.50")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	114-0550	114-0561	12.0 mm (.473")

TITAN SIDE EJECT AND MAX SIDE EJECT



120.6 mm (4.75")	7.1 mm (.280")	11.7 mm (.460")	1.4 mm (.055")	108-9159	108-9170	7.1 mm (.280")
120.6 mm (4.75")	10.3 mm (.406")	14.2 mm (.560")	1.5 mm (.058")	108-9160	108-9172	9.7 mm (.380")
120.6 mm (4.75")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	108-9161	108-9174	12.2 mm (.480")
146.0 mm (5.75")	7.1 mm (.280")	11.7 mm (.460")	1.4 mm (.055")	108-9163	108-9176	7.1 mm (.280")
146.0 mm (5.75")	10.3 mm (.406")	14.2 mm (.560")	1.5 mm (.058")	108-9164	108-9178	9.7 mm (.380")
146.0 mm (5.75")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	108-9165	108-9180	12.2 mm (.480")
165.1 mm (6.50")	7.1 mm (.280")	11.7 mm (.460")	1.4 mm (.055")	108-9162	108-9166	7.1 mm (.280")
165.1 mm (6.50")	10.3 mm (.406")	14.2 mm (.560")	1.5 mm (.058")	108-9167	108-9182	9.7 mm (.380")
165.1 mm (6.50")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	108-9168	108-9184	12.2 mm (.480")

TITAN SIDE EJECT - EXTENDED TAPER



146.0 mm (5.75")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	114-0555	114-0557	12.0 mm (.473")
165.1 mm (6.50")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	114-0558	114-0560	12.0 mm (.473")

TITAN SPLIT TINE



146.0 mm (5.75")	12.9 mm (.509")	22.4 mm (.880")	3.0 mm (.120")	112-5122
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ProCore 648

19.0 mm (.750") Mounting Size

TITAN MAX

	Length	Core Dia. (ID)	OD	Wall Thickness	Part Number	Part Number	Core Dia. (ID)
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TITAN HD FAIRWAY



146.0 mm (5.75")	12.95 mm (.510")	17.8 mm (.700")	3.1 mm (.122")	108-9260		
146.0 mm (5.75")	12.95 mm (.510")	20.3 mm (.800")	3.1 mm (.122")	108-9261		

TITAN FAIRWAY



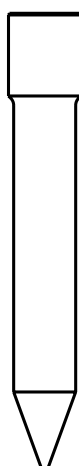
146.0 mm (5.75")	12.95 mm (.510")	19.6 mm (.770")	3.0 mm (.120")	104-9876		
146.0 mm (5.75")	12.95 mm (.510")	22.4 mm (.880")	3.0 mm (.120")	104-9875		

CLASSIC TORO HOLLOW



120.6 mm (4.75")	7.6 mm (.300")	11.1 mm (.438")	0.9 mm (.035")	59-3690		
120.6 mm (4.75")	10.2 mm (.400")	12.7 mm (.500")	1.2 mm (.049")	66-9140		
120.6 mm (4.75")	12.7 mm (.500")	15.9 mm (.625")	1.2 mm (.049")	59-3670		
146.0 mm (5.75")	12.9 mm (.509")	15.9 mm (.625")	1.5 mm (.058")	104-0984		
165.1 mm (6.50")	12.9 mm (.509")	15.9 mm (.625")	1.5 mm (.058")	106-8943		
165.1 mm (6.50")	14.5 mm (.570")	16.8 mm (.660")	1.5 mm (.058")	105-1180		

TITAN SOLID ROUND




114.3 mm (4.50")	N/A	6.3 mm (.250")	N/A	108-9198		
114.3 mm (4.50")	N/A	7.6 mm (.300")	N/A	108-9199		
114.3 mm (4.50")	N/A	8.9 mm (.350")	N/A	108-9200		
114.3 mm (4.50")	N/A	10.2 mm (.400")	N/A	108-9201		
114.3 mm (4.50")	N/A	12.7 mm (.500")	N/A	108-9202		
114.3 mm (4.50")	N/A	15.2 mm (.600")	N/A	108-9203		
139.7 mm (5.50")	N/A	6.3 mm (.250")	N/A	108-9204		
139.7 mm (5.50")	N/A	7.6 mm (.300")	N/A	108-9205		
139.7 mm (5.50")	N/A	8.9 mm (.350")	N/A	108-9206		
139.7 mm (5.50")	N/A	10.2 mm (.400")	N/A	108-9207		
139.7 mm (5.50")	N/A	12.7 mm (.500")	N/A	108-9208		
139.7 mm (5.50")	N/A	15.2 mm (.600")	N/A	108-9209		
139.7 mm (5.50")	N/A	19.0 mm (.750")	N/A	108-9244		
165.1 mm (6.50")	N/A	7.6 mm (.300")	N/A	108-9210		
165.1 mm (6.50")	N/A	8.9 mm (.350")	N/A	108-9211		
165.1 mm (6.50")	N/A	10.2 mm (.400")	N/A	108-9212		
165.1 mm (6.50")	N/A	12.7 mm (.500")	N/A	108-9213		
165.1 mm (6.50")	N/A	15.2 mm (.600")	N/A	108-9214		
165.1 mm (6.50")	N/A	19.0 mm (.750")	N/A	108-9245		

ProCore® 648

ProCore 648

19.0 mm (.750") Mounting Size

TITAN MAX

	Length	Core Dia. (ID)	OD	Wall Thickness	Part Number	Part Number	Core Dia. (ID)
	114.3 mm (4.50")	N/A	19.0 mm (.750")	N/A	108-9239		
	139.7 mm (5.50")	N/A	19.0 mm (.750")	N/A	108-9240		
	165.1 mm (6.50")	N/A	19.0 mm (.750")	N/A	108-9241		

TITAN CROSS AND MAX CROSS

	114.3 mm (4.50")	N/A	12.7 mm (.500")	N/A	108-9221	112-1312	12.7 mm (.500")
	114.3 mm (4.50")	N/A	15.9 mm (.625")	N/A	108-9222		
	114.3 mm (4.50")	N/A	19.0 mm (.750")	N/A	108-9223		
	139.7 mm (5.50")	N/A	12.7 mm (.500")	N/A	108-9224	112-1313	12.7 mm (.500")
	139.7 mm (5.50")	N/A	15.9 mm (.625")	N/A	108-9225		
	139.7 mm (5.50")	N/A	19.0 mm (.750")	N/A	108-9226		
	165.1 mm (6.50")	N/A	12.7 mm (.500")	N/A	108-9227	112-1314	12.7 mm (.500")
	165.1 mm (6.50")	N/A	15.9 mm (.625")	N/A	108-9228		
	165.1 mm (6.50")	N/A	19.0 mm (.750")	N/A	108-9229		

22.2 mm (.875") Mounting Size

TITAN MAX

TITAN HOLLOW AND MAX HOLLOW

	120.6 mm (4.75")	13.0 mm (.512")	16.8 mm (.660")	1.5 mm (.058")	108-9190	108-9155	12.2 mm (.480")
	120.6 mm (4.75")	16.0 mm (.628")	19.3 mm (.760")	1.5 mm (.058")	108-9191		
	146.0 mm (5.75")	13.0 mm (.512")	16.8 mm (.660")	1.5 mm (.058")	108-9192	108-9157	12.2 mm (.480")
	146.0 mm (5.75")	16.0 mm (.628")	19.3 mm (.760")	1.5 mm (.058")	108-9193		

ProCore 648

22.2 mm (.875") Mounting Size

TITAN MAX

Length	Core Dia. (ID)	OD	Wall Thickness	Part Number	Part Number	Core Dia. (ID)
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SIDE EJECT AND MAX SIDE EJECT



120.6 mm (4.75")	13.0 mm (.512")	16.8 mm (.660")	1.5 mm (.058")	108-9194	108-9186	12.2 mm (.480")
120.6 mm (4.75")	16.0 mm (.628")	19.3 mm (.760")	1.5 mm (.058")	108-9195		
146.0 mm (5.75")	13.0 mm (.512")	16.8 mm (.660")	1.5 mm (.058")	108-9196	108-9188	12.2 mm (.480")
146.0 mm (5.75")	16.0 mm (.628")	19.3 mm (.760")	1.5 mm (.058")	108-9197		

TITAN SPLIT TINE



146.0 mm (5.75")	16.1 mm (.635")	22.4 mm (.880")	3.0 mm (.120")	112-5121		
146.0 mm (5.75")	16.1 mm (.635")	23.4 mm (.920")	3.0 mm (.120")	112-5123		

TITAN HD FAIRWAY



146.0 mm (5.75")	16.1 mm (.635")	20.3 mm (.800")	3.1 mm (.122")	108-9264		
146.0 mm (5.75")	16.1 mm (.635")	23.4 mm (.920")	3.1 mm (.122")	108-9265		

TITAN FAIRWAY



120.6 mm (4.75")	16.1 mm (.635")	20.3 mm (.800")	3.1 mm (.122")	92-7941		
146.0 mm (5.75")	16.1 mm (.635")	20.3 mm (.800")	3.1 mm (.122")	92-7900		
146.0 mm (5.75")	16.1 mm (.635")	23.4 mm (.920")	3.0 mm (.120")	104-9877		

CLASSIC TORO HOLLOW



120.6 mm (4.75")	15.2 mm (.600")	19.0 mm (.750")	1.7 mm (.065")	62-4600		
146.0 mm (5.75")	15.2 mm (.600")	19.0 mm (.750")	1.7 mm (.065")	86-9720		

TITAN SOLID ROUND



139.7 mm (5.50")	N/A	19.0 mm (.750")	N/A	108-9246		
139.7 mm (5.50")	N/A	22.2 mm (.875")	N/A	108-9247		
165.1 mm (6.50")	N/A	19.0 mm (.750")	N/A	108-9248		
165.1 mm (6.50")	N/A	22.2 mm (.875")	N/A	108-9249		

TORO SOLID SLICING



139.7 mm (5.50")	N/A	19.0 mm (.750")	N/A	108-9242		
165.1 mm (6.50")	N/A	19.0 mm (.750")	N/A	108-9243		

TITAN CROSS AND MAX CROSS



139.7 mm (5.50")	N/A	22.2 mm (.875")	N/A	108-9259		
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NEEDLE TINE



163.3 mm (6.43")	N/A	5.0 mm	N/A	100-3620	Requires Needle Tine Head	
187.5 mm (7.38")	N/A	8.0 mm	N/A	100-3621	Requires Needle Tine Head	

FEATURES & BENEFITS

- Precision-balanced coring heads
- RotaLink™ tine guide system
- Efficient aeration
- Smooth, quiet, powerful operation
- Impact resistance system

ProCore® 864/1298



The same ground-breaking technology that allowed the ProCore 648 to revolutionize greens aeration is now available for large-area applications in the new ProCore 864 and 1298. Aerate fairways and sports fields in efficient (162.9 cm) 64" and (248.9 cm) 98" swaths with smooth operation and precision performance you demand.


TINE HEADS AND TURF GUARDS

Tine Heads				Turf Guards			Tine Heads				Turf Guards		
Description	Part No.	Tines Required	Tines Required	Part No.	Qty 864	Qty 1298	Description	Part No.	Tines Required	Tines Required	Part No.	Qty 864	Qty 1298
Quad Tine Head, 2 rows of 5 9.5 mm (.375") Mount	09736	80	120	120-1047	2	4	Needle Tine Head	09739	40	60	120-1047	2	4
				120-1052	-	2					120-1052	-	2
				110-4367	1	-					110-4367	1	-
				110-4368	1	-					110-4368	1	-
Quad Tine Head, 1 row of 6 9.5 mm (.375") Mount	09737	48	72	110-4369	2	4	3 Tine Head 19.0 mm (.750") Mount	09794	24	36	120-1044	2	4
				110-4370	-	2					110-4358	-	2
				115-2801	1	-					110-4359	1	-
				115-2802	1	-					110-4360	1	-
4 Tine Titan QuickChange 19.0 mm (.750") or 22.2 mm (.875") Sleeve	09719	32	48	120-1045	2	4	4 Tine Head 19.0 mm (.750") Mount	09796	32	48	120-1045	2	4
				120-1046	-	2					120-1046	-	2
				110-4363	1	-					110-4363	1	-
				110-4364	1	-					110-4364	1	-
3 Tine Titan QuickChange 19.0 mm (.750") or 22.2 mm (.875") Sleeve	09711	24	36	120-1044	2	4	3 Tine Head HD 22.2 mm (.875") Mount	09797	24	36	120-1044	2	4
				110-4358	-	2					110-4358	-	2
				110-4359	1	-					110-4359	1	-
				110-4360	1	-					110-4360	1	-

ProCore 864/1298

9.5 mm (.375") Mounting Size

TITAN MAX

	Length	Core Dia. (ID)	OD	Wall Thickness	Part Number	Part Number	Core Dia. (ID)
	114.3 mm (4.50")	6.3 mm (.248")	9.1 mm (.360")	1.3 mm (.052")	108-9104	108-9112	5.8 mm (.230")
	114.3 mm (4.50")	8.1 mm (.318")	11.6 mm (.458")	1.6 mm (.063")	108-9105	108-9114	7.1 mm (.280")
	114.3 mm (4.50")	10.3 mm (.406")	13.9 mm (.546")	1.6 mm (.063")	108-9106	108-9116	9.7 mm (.380")
	114.3 mm (4.50")	12.2 mm (.480")	14.7 mm (.580")	1.6 mm (.063")	108-9293		
	127.0 mm (5.00")	6.3 mm (.248")	9.1 mm (.360")	1.3 mm (.052")	108-9108	108-9120	5.8 mm (.230")
	127.0 mm (5.00")	8.1 mm (.318")	11.6 mm (.458")	1.6 mm (.063")	108-9109	108-9122	7.1 mm (.280")
	127.0 mm (5.00")	10.3 mm (.406")	13.9 mm (.546")	1.6 mm (.063")	108-9110	108-9124	9.7 mm (.380")
	127.0 mm (5.00")	12.2 mm (.480")	14.7 mm (.580")	1.6 mm (.063")	108-9294		
	139.7 mm (5.50")	10.3 mm (.406")	13.9 mm (.546")	1.6 mm (.063")	108-9290		

TITAN SOLID ROUND

	114.3 mm (4.50")	N/A	5.1 mm (.200")	N/A	108-9230		
	114.3 mm (4.50")	N/A	6.3 mm (.250")	N/A	108-9231		
	114.3 mm (4.50")	N/A	7.6 mm (.300")	N/A	108-9232		
	114.3 mm (4.50")	N/A	9.7 mm (.380")	N/A	108-9233		
	139.7 mm (5.50")	N/A	5.1 mm (.200")	N/A	108-9234		
	139.7 mm (5.50")	N/A	6.3 mm (.250")	N/A	108-9235		
	139.7 mm (5.50")	N/A	7.6 mm (.300")	N/A	108-9236		
	139.7 mm (5.50")	N/A	9.7 mm (.380")	N/A	108-9237		

TITAN SOLID SLICING

	127.0 mm (5.00")	N/A	15.9 mm (.625")	N/A	108-9238		
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TITAN CROSS AND MAX CROSS

	114.3 mm (4.50")	N/A	9.5 mm (.375")	N/A	108-9215		
	114.3 mm (4.50")	N/A	12.7 mm (.500")	N/A	108-9216	112-1310	12.7 mm (.500")
	114.3 mm (4.50")	N/A	15.9 mm (.625")	N/A	108-9217		
	139.7 mm (5.50")	N/A	9.5 mm (.375")	N/A	108-9218		
	139.7 mm (5.50")	N/A	12.7 mm (.500")	N/A	108-9219	112-1311	12.7 mm (.500")
	139.7 mm (5.50")	N/A	15.9 mm (.625")	N/A	108-9220		

ProCore 864/1298

ProCore® 864/1298

ProCore 864/1298

ProCore 864/1298							
19.0 mm (.750") Mounting Size						TITAN MAX	
	Length	Core Dia. (ID)	OD	Wall Thickness	Part Number	Part Number	Core Dia. (ID)
TITAN HOLLOW AND MAX HOLLOW							
	120.6 mm (4.75")	7.1 mm (.280")	11.7 mm (.460")	1.5 mm (.058")	108-9128	108-9139	7.1 mm (.280")
	120.6 mm (4.75")	10.3 mm (.406")	14.2 mm (.560")	1.5 mm (.058")	108-9129	108-9141	9.7 mm (.380")
	120.6 mm (4.75")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	108-9130	108-9143	12.2 mm (.480")
	146.0 mm (5.75")	7.1 mm (.280")	11.7 mm (.460")	1.5 mm (.058")	108-9132	108-9145	7.1 mm (.280")
	146.0 mm (5.75")	10.3 mm (.406")	14.2 mm (.560")	1.5 mm (.058")	108-9133	108-9147	9.7 mm (.380")
	146.0 mm (5.75")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	108-9134	108-9149	12.2 mm (.480")
	165.1 mm (6.50")	7.1 mm (.280")	11.7 mm (.460")	1.5 mm (.058")	108-9138	108-9135	7.1 mm (.280")
	165.1 mm (6.50")	10.3 mm (.406")	14.2 mm (.560")	1.5 mm (.058")	108-9136	108-9151	9.7 mm (.380")
	165.1 mm (6.50")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	108-9137	108-9153	12.2 mm (.480")
TITAN HOLLOW - EXTENDED TAPER							
	146.0 mm (5.75")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	114-0551	114-0553	12.0 mm (.473")
	165.1 mm (6.50")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	114-0550	114-0561	12.0 mm (.473")
TITAN SIDE EJECT AND MAX SIDE EJECT							
	120.6 mm (4.75")	7.1 mm (.280")	11.7 mm (.460")	1.4 mm (.055")	108-9159	108-9170	7.1 mm (.280")
	120.6 mm (4.75")	10.3 mm (.406")	14.2 mm (.560")	1.5 mm (.058")	108-9160	108-9172	9.7 mm (.380")
	120.6 mm (4.75")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	108-9161	108-9174	12.2 mm (.480")
	146.0 mm (5.75")	7.1 mm (.280")	11.7 mm (.460")	1.4 mm (.055")	108-9163	108-9176	7.1 mm (.280")
	146.0 mm (5.75")	10.3 mm (.406")	14.2 mm (.560")	1.5 mm (.058")	108-9164	108-9178	9.7 mm (.380")
	146.0 mm (5.75")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	108-9165	108-9180	12.2 mm (.480")
	165.1 mm (6.50")	7.1 mm (.280")	11.7 mm (.460")	1.4 mm (.055")	108-9162	108-9166	7.1 mm (.280")
	165.1 mm (6.50")	10.3 mm (.406")	14.2 mm (.560")	1.5 mm (.058")	108-9167	108-9182	9.7 mm (.380")
	165.1 mm (6.50")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	108-9168	108-9184	12.2 mm (.480")
TITAN SIDE EJECT - EXTENDED TAPER							
	146.0 mm (5.75")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	114-0555	114-0557	12.0 mm (.473")
	165.1 mm (6.50")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	114-0558	114-0560	12.0 mm (.473")
TITAN SPLIT TINE							
	146.0 mm (5.75")	12.95 mm (.510")	22.4 mm (.880")	3.0 mm (.120")	112-5122		
TITAN HD FAIRWAY							
	146.0 mm (5.75")	12.95 mm (.510")	17.8 mm (.700")	3.1 mm (.122")	108-9260		
	146.0 mm (5.75")	12.95 mm (.510")	20.3 mm (.800")	3.1 mm (.122")	108-9261		

ProCore 864/1298

19.0 mm (.750") Mounting Size

TITAN MAX

Length	Core Dia. (ID)	OD	Wall Thickness	Part Number	Part Number	Core Dia. (ID)
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TITAN FAIRWAY



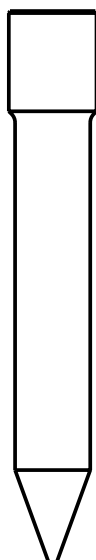
146.0 mm (5.75")	12.95 mm (.510")	19.6 mm (.770")	2.7 mm (.105")	104-9876		
146.0 mm (5.75")	12.95 mm (.510")	22.4 mm (.880")	3.1 mm (.122")	104-9875		

CLASSIC TORO HOLLOW



120.6 mm (4.75")	7.6 mm (.300")	11.1 mm (.438")	0.9 mm (.035")	59-3690		
120.6 mm (4.75")	10.2 mm (.400")	12.7 mm (.500")	1.2 mm (.049")	66-9140		
120.6 mm (4.75")	12.7 mm (.500")	15.9 mm (.625")	1.2 mm (.049")	59-3670		
146.0 mm (5.75")	12.9 mm (.509")	15.9 mm (.625")	1.5 mm (.058")	104-0984		
165.1 mm (6.50")	12.9 mm (.509")	15.9 mm (.625")	1.5 mm (.058")	106-8943		
165.1 mm (6.50")	14.5 mm (.570")	16.8 mm (.660")	1.5 mm (.058")	105-1180		

TITAN SOLID ROUND



114.3 mm (4.50")	N/A	6.3 mm (.250")	N/A	108-9198		
114.3 mm (4.50")	N/A	7.6 mm (.300")	N/A	108-9199		
114.3 mm (4.50")	N/A	8.9 mm (.350")	N/A	108-9200		
114.3 mm (4.50")	N/A	10.2 mm (.400")	N/A	108-9201		
114.3 mm (4.50")	N/A	12.7 mm (.500")	N/A	108-9202		
114.3 mm (4.50")	N/A	15.2 mm (.600")	N/A	108-9203		
139.7 mm (5.50")	N/A	6.3 mm (.250")	N/A	108-9204		
139.7 mm (5.50")	N/A	7.6 mm (.300")	N/A	108-9205		
139.7 mm (5.50")	N/A	8.9 mm (.350")	N/A	108-9206		
139.7 mm (5.50")	N/A	10.2 mm (.400")	N/A	108-9207		
139.7 mm (5.50")	N/A	12.7 mm (.500")	N/A	108-9208		
139.7 mm (5.50")	N/A	15.2 mm (.600")	N/A	108-9209		
139.7 mm (5.50")	N/A	19.0 mm (.750")	N/A	108-9244		
165.1 mm (6.50")	N/A	7.6 mm (.300")	N/A	108-9210		
165.1 mm (6.50")	N/A	8.9 mm (.350")	N/A	108-9211		
165.1 mm (6.50")	N/A	10.2 mm (.400")	N/A	108-9212		
165.1 mm (6.50")	N/A	12.7 mm (.500")	N/A	108-9213		
165.1 mm (6.50")	N/A	15.2 mm (.600")	N/A	108-9214		
165.1 mm (6.50")	N/A	19.0 mm (.750")	N/A	108-9245		

ProCore 864/1298


ProCore® 864/1298

ProCore 864/1298

ProCore 864/1298

19.0 mm (.750") Mounting Size

TITAN MAX

	Length	Core Dia. (ID)	OD	Wall Thickness	Part Number	Part Number	Core Dia. (ID)
	114.3 mm (4.50")	N/A	19.0 mm (.750")	N/A	108-9239		
	139.7 mm (5.50")	N/A	19.0 mm (.750")	N/A	108-9240		
	165.1 mm (6.50")	N/A	19.0 mm (.750")	N/A	108-9241		

TITAN CROSS AND MAX CROSS



114.3 mm (4.50")	N/A	12.7 mm (.500")	N/A	108-9221	112-1312		
114.3 mm (4.50")	N/A	15.9 mm (.625")	N/A	108-9222			
114.3 mm (4.50")	N/A	19.0 mm (.750")	N/A	108-9223			
139.7 mm (5.50")	N/A	12.7 mm (.500")	N/A	108-9224	112-1313		
139.7 mm (5.50")	N/A	15.9 mm (.625")	N/A	108-9225			
139.7 mm (5.50")	N/A	19.0 mm (.750")	N/A	108-9226			
165.1 mm (6.50")	N/A	12.7 mm (.500")	N/A	108-9227	112-1314		
165.1 mm (6.50")	N/A	15.9 mm (.625")	N/A	108-9228			
165.1 mm (6.50")	N/A	19.0 mm (.750")	N/A	108-9229			

22.2 mm (.875") Mounting Size

TITAN MAX

TITAN HOLLOW AND MAX HOLLOW



120.6 mm (4.75")	13.0 mm (.512")	16.8 mm (.660")	1.5 mm (.058")	108-9190	108-9155	12.2 mm (.480")
120.6 mm (4.75")	16.0 mm (.628")	19.3 mm (.760")	1.5 mm (.058")	108-9191		
146.0 mm (5.75")	13.0 mm (.512")	16.8 mm (.660")	1.5 mm (.058")	108-9192	108-9157	12.2 mm (.480")
146.0 mm (5.75")	16.0 mm (.628")	19.3 mm (.760")	1.5 mm (.058")	108-9193		

TITAN SIDE EJECT AND MAX SIDE EJECT











120.6 mm (4.75")	13.0 mm (.512")	16.8 mm (.660")	1.5 mm (.058")	108-9194	108-9186	12.2 mm (.480")
120.6 mm (4.75")	16.0 mm (.628")	19.3 mm (.760")	1.5 mm (.058")	108-9195		
146.0 mm (5.75")	13.0 mm (.512")	16.8 mm (.660")	1.5 mm (.058")	108-9196	108-9188	12.2 mm (.480")
146.0 mm (5.75")	16.0 mm (.628")	19.3 mm (.760")	1.5 mm (.058")	108-9197		

ProCore 864/1298

22.2 mm (.875") Mounting Size

TITAN MAX

	Length	Core Dia. (ID)	OD	Wall Thickness	Part Number	Part Number	Core Dia. (ID)
TITAN SPLIT TINE							
	146.0 mm (5.75")	16.1 mm (.635")	22.4 mm (.880")	3.0 mm (.120")	112-5121		
	146.0 mm (5.75")	16.1 mm (.635")	23.4 mm (.920")	3.0 mm (.120")	112-5123		
TITAN HD FAIRWAY							
	146.0 mm (5.75")	16.1 mm (.635")	20.3 mm (.800")	3.1 mm (.122")	108-9264		
	146.0 mm (5.75")	16.1 mm (.635")	23.4 mm (.920")	3.1 mm (.122")	108-9265		
TITAN FAIRWAY							
	120.6 mm (4.75")	16.1 mm (.635")	20.3 mm (.800")	3.1 mm (.122")	92-7941		
	146.0 mm (5.75")	16.1 mm (.635")	20.3 mm (.800")	3.1 mm (.122")	92-7900		
	146.0 mm (5.75")	16.1 mm (.635")	23.4 mm (.920")	3.0 mm (.120")	104-9877		
CLASSIC TORO HOLLOW							
	120.6 mm (4.75")	15.2 mm (.600")	19.0 mm (.750")	1.7 mm (.065")	62-4600		
	146.0 mm (5.75")	15.2 mm (.600")	19.0 mm (.750")	1.7 mm (.065")	86-9720		
TITAN SOLID ROUND							
	139.7 mm (5.50")	N/A	19.0 mm (.750")	N/A	108-9246		
	139.7 mm (5.50")	N/A	22.2 mm (.875")	N/A	108-9247		
	165.1 mm (6.50")	N/A	19.0 mm (.750")	N/A	108-9248		
	165.1 mm (6.50")	N/A	22.2 mm (.875")	N/A	108-9249		
TITAN SOLID SLICING							
	139.7 mm (5.50")	N/A	19.0 mm (.750")	N/A	108-9242		
	165.1 mm (6.50")	N/A	19.0 mm (.750")	N/A	108-9243		
TITAN CROSS AND MAX CROSS							
	139.7 mm (5.50")	N/A	22.2 mm (.875")	N/A	108-9259		
NEEDLE TINE							
	163.3 mm (6.43")	N/A	5.0 mm	N/A	100-3620	Requires Needle Tine Head	
	187.5 mm (7.38")	N/A	8.0 mm	N/A	100-3621	Requires Needle Tine Head	

ProCore 864/1298

ProCore® 440/660/880



ProCore 440/660/880s were built for cost-effective aeration during any season. They offer performance through the unique Rotalink™ system ensuring proper tine positioning during aeration for consistent and exceptional hole quality. Sizes range from 101.6 cm to 203.2 cm (40" to 80") and can accommodate multiple tine spacing configurations for precise aeration making these models extremely versatile. Their three-position hitch height adjustment and rolling support stand make attaching and storing simple.


TINE HEADS AND TURF GUARDS

Tine Heads							Turf Guards		
Description	Part No.	Tines Required	Tines Required	Part No.	Qty (660)	Qty (880)	Part No.	Qty (660)	Qty (880)
Needle Tine Head 660/880	09720	48	64	100-5418	6	-	100-5415	1	-
				100-5419	-	7			
Quad Tine Head, 9.5 mm (.375") Mount	09721	60	80	100-5420	1	5	100-5421	8	4
3 Tine Head, 19.0 mm (.750") Mount	09722	18	24	100-5414	2	5	100-5415	3	-
4 Tine Head, 19.0 mm (.750") Mount	09723	24	32	100-5416	5	1	100-5417	-	4
3 Tine Head, 22.2 mm (.875") Mount	09733	18	24	100-5414	2	5	100-5415	3	-
4 Tine Head, 22.2 mm (.875") Mount	09734	24	32	100-5416	5	1	100-5417	-	4

ProCore 440/660/880

9.5 mm (.375") Mounting Size


TITAN MAX

	Length	Core Dia. (ID)	OD	Wall Thickness	Part Number	Part Number	Core Dia. (ID)
TITAN QUAD AND MAX QUAD							
	114.3 mm (4.50")	6.3 mm (.248")	9.1 mm (.360")	1.3 mm (.052")	108-9104	108-9112	5.8 mm (.230")
	114.3 mm (4.50")	8.1 mm (.318")	11.6 mm (.458")	1.6 mm (.063")	108-9105	108-9114	7.1 mm (.280")
	114.3 mm (4.50")	10.3 mm (.406")	13.9 mm (.546")	1.6 mm (.063")	108-9106	108-9116	9.7 mm (.380")
	114.3 mm (4.50")	12.2 mm (.480")	14.7 mm (.580")	1.6 mm (.063")	108-9293		
	127.0 mm (5.00")	6.3 mm (.248")	9.1 mm (.360")	1.3 mm (.052")	108-9108	108-9120	5.8 mm (.230")
	127.0 mm (5.00")	8.1 mm (.318")	11.6 mm (.458")	1.6 mm (.063")	108-9109	108-9122	7.1 mm (.280")
	127.0 mm (5.00")	10.3 mm (.406")	13.9 mm (.546")	1.6 mm (.063")	108-9110	108-9124	9.7 mm (.380")
	127.0 mm (5.00")	12.2 mm (.480")	14.7 mm (.580")	1.6 mm (.063")	108-9294		
	139.7 mm (5.50")	10.3 mm (.406")	13.9 mm (.546")	1.6 mm (.063")	108-9290		


TITAN SOLID ROUND

	114.3 mm (4.50")	N/A	5.1 mm (.200")	N/A	108-9230		
	114.3 mm (4.50")	N/A	6.3 mm (.250")	N/A	108-9231		
	114.3 mm (4.50")	N/A	7.6 mm (.300")	N/A	108-9232		
	114.3 mm (4.50")	N/A	9.7 mm (.380")	N/A	108-9233		
	139.7 mm (5.50")	N/A	5.1 mm (.200")	N/A	108-9234		
	139.7 mm (5.50")	N/A	6.3 mm (.250")	N/A	108-9235		
	139.7 mm (5.50")	N/A	7.6 mm (.300")	N/A	108-9236		
	139.7 mm (5.50")	N/A	9.7 mm (.380")	N/A	108-9237		

TITAN SOLID SLICING

	127.0 mm (5.00")	N/A	15.9 mm (.625")	N/A	108-9238		
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TITAN CROSS AND MAX CROSS








	114.3 mm (4.50")	N/A	9.5 mm (.375")	N/A	108-9215		
	114.3 mm (4.50")	N/A	12.7 mm (.500")	N/A	108-9216	112-1310	12.7 mm (.500")
	114.3 mm (4.50")	N/A	15.9 mm (.625")	N/A	108-9217		
	139.7 mm (5.50")	N/A	9.5 mm (.375")	N/A	108-9218		
	139.7 mm (5.50")	N/A	12.7 mm (.500")	N/A	108-9219	112-1311	12.7 mm (.500")
	139.7 mm (5.50")	N/A	15.9 mm (.625")	N/A	108-9220		

ProCore® 440/660/880

ProCore 440/660/880

19.0 mm (.750") Mounting Size

TITAN MAX

	Length	Core Dia. (ID)	OD	Wall Thickness	Part Number	Part Number	Core Dia. (ID)
TITAN HOLLOW AND MAX HOLLOW							
	120.6 mm (4.75")	7.1 mm (.280")	11.7 mm (.460")	1.5 mm (.058")	108-9128	108-9139	7.1 mm (.280")
	120.6 mm (4.75")	10.3 mm (.406")	14.2 mm (.560")	1.5 mm (.058")	108-9129	108-9141	9.7 mm (.380")
	120.6 mm (4.75")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	108-9130	108-9143	12.2 mm (.480")
	146.0 mm (5.75")	7.1 mm (.280")	11.7 mm (.460")	1.5 mm (.058")	108-9132	108-9145	7.1 mm (.280")
	146.0 mm (5.75")	10.3 mm (.406")	14.2 mm (.560")	1.5 mm (.058")	108-9133	108-9147	9.7 mm (.380")
	146.0 mm (5.75")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	108-9134	108-9149	12.2 mm (.480")
TITAN HOLLOW - EXTENDED TAPER							
	146.0 mm (5.75")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	114-0551	114-0553	12.0 mm (.473")
TITAN SIDE EJECT AND MAX SIDE EJECT							
	120.6 mm (4.75")	7.1 mm (.280")	11.7 mm (.460")	1.4 mm (.055")	108-9159	108-9170	7.1 mm (.280")
	120.6 mm (4.75")	10.3 mm (.406")	14.2 mm (.560")	1.5 mm (.058")	108-9160	108-9172	9.7 mm (.380")
	120.6 mm (4.75")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	108-9161	108-9174	12.2 mm (.480")
	146.0 mm (5.75")	7.1 mm (.280")	11.7 mm (.460")	1.4 mm (.055")	108-9163	108-9176	7.1 mm (.280")
	146.0 mm (5.75")	10.3 mm (.406")	14.2 mm (.560")	1.5 mm (.058")	108-9164	108-9178	9.7 mm (.380")
	146.0 mm (5.75")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	108-9165	108-9180	12.2 mm (.480")
TITAN SIDE EJECT - EXTENDED TAPER							
	146.0 mm (5.75")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	114-0555	114-0557	12.0 mm (.473")
TITAN SPLIT TINE							
	146.0 mm (5.75")	12.95 mm (.510")	22.4 mm (.880")	3.0 mm (.120")	112-5122		
TITAN HD FAIRWAY							
	146.0 mm (5.75")	12.95 mm (.510")	17.8 mm (.700")	3.1 mm (.122")	108-9260		
	146.0 mm (5.75")	12.95 mm (.510")	20.3 mm (.800")	3.1 mm (.122")	108-9261		
TITAN FAIRWAY							
	146.0 mm (5.75")	12.95 mm (.510")	19.6 mm (.770")	3.0 mm (.120")	104-9876		
	146.0 mm (5.75")	12.95 mm (.510")	22.4 mm (.880")	3.0 mm (.120")	104-9875		

ProCore 440/660/880

19.0 mm (.750") Mounting Size

TITAN MAX

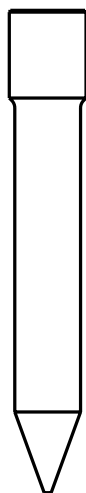
Length	Core Dia. (ID)	OD	Wall Thickness	Part Number	Part Number	Core Dia. (ID)
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CLASSIC TORO HOLLOW



120.6 mm (4.75")	7.6 mm (.300")	11.1 mm (.438")	0.9 mm (.035")	59-3690		
120.6 mm (4.75")	10.2 mm (.400")	12.7 mm (.500")	1.2 mm (.049")	66-9140		
120.6 mm (4.75")	12.7 mm (.500")	15.9 mm (.625")	1.2 mm (.049")	59-3670		
146.0 mm (5.75")	12.9 mm (.509")	15.9 mm (.625")	1.5 mm (.058")	104-0984		

TITAN SOLID ROUND



114.3 mm (4.50")	N/A	6.3 mm (.250")	N/A	108-9198		
114.3 mm (4.50")	N/A	7.6 mm (.300")	N/A	108-9199		
114.3 mm (4.50")	N/A	8.9 mm (.350")	N/A	108-9200		
114.3 mm (4.50")	N/A	10.2 mm (.400")	N/A	108-9201		
114.3 mm (4.50")	N/A	12.7 mm (.500")	N/A	108-9202		
114.3 mm (4.50")	N/A	15.2 mm (.600")	N/A	108-9203		
139.7 mm (5.50")	N/A	6.3 mm (.250")	N/A	108-9204		
139.7 mm (5.50")	N/A	7.6 mm (.300")	N/A	108-9205		
139.7 mm (5.50")	N/A	8.9 mm (.350")	N/A	108-9206		
139.7 mm (5.50")	N/A	10.2 mm (.400")	N/A	108-9207		
139.7 mm (5.50")	N/A	12.7 mm (.500")	N/A	108-9208		
139.7 mm (5.50")	N/A	15.2 mm (.600")	N/A	108-9209		
139.7 mm (5.50")	N/A	19.0 mm (.750")	N/A	108-9244		

TITAN SOLID SLICING



114.3 mm (4.50")	N/A	19.0 mm (.750")	N/A	108-9239		
139.7 mm (5.50")	N/A	19.0 mm (.750")	N/A	108-9240		

TITAN CROSS AND MAX CROSS



114.3 mm (4.50")	N/A	12.7 mm (.500")	N/A	108-9221	112-1312	12.7 mm (.500")
114.3 mm (4.50")	N/A	15.9 mm (.625")	N/A	108-9222		
114.3 mm (4.50")	N/A	19.0 mm (.750")	N/A	108-9223		
139.7 mm (5.50")	N/A	12.7 mm (.500")	N/A	108-9224	112-1313	12.7 mm (.500")
139.7 mm (5.50")	N/A	15.9 mm (.625")	N/A	108-9225		
139.7 mm (5.50")	N/A	19.0 mm (.750")	N/A	108-9226		


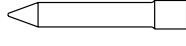
ProCore 440/660/880

ProCore® 440/660/880

ProCore 440/660/880

22.2 mm (.875") Mounting Size

TITAN MAX

	Length	Core Dia. (ID)	OD	Wall Thickness	Part Number	Part Number	Core Dia. (ID)
TITAN HOLLOW AND MAX HOLLOW							
	120.6 mm (4.75")	13.0 mm (.512")	16.8 mm (.660")	1.5 mm (.058")	108-9190	108-9155	12.2 mm (.480")
	120.6 mm (4.75")	16.0 mm (.628")	19.3 mm (.760")	1.5 mm (.058")	108-9191		
	146.0 mm (5.75")	13.0 mm (.512")	16.8 mm (.660")	1.5 mm (.058")	108-9192	108-9157	12.2 mm (.480")
	146.0 mm (5.75")	16.0 mm (.628")	19.3 mm (.760")	1.5 mm (.058")	108-9193		
TITAN SIDE EJECT AND MAX SIDE EJECT							
	120.6 mm (4.75")	13.0 mm (.512")	16.8 mm (.660")	1.5 mm (.058")	108-9194	108-9186	12.2 mm (.480")
	120.6 mm (4.75")	16.0 mm (.628")	19.3 mm (.760")	1.5 mm (.058")	108-9195		
	146.0 mm (5.75")	13.0 mm (.512")	16.8 mm (.660")	1.5 mm (.058")	108-9196	108-9188	12.2 mm (.480")
	146.0 mm (5.75")	16.0 mm (.628")	19.3 mm (.760")	1.5 mm (.058")	108-9197		
TITAN SPLIT TINE							
	146.0 mm (5.75")	16.1 mm (.635")	22.4 mm (.880")	3.0 mm (.120")	112-5121		
	146.0 mm (5.75")	16.1 mm (.635")	23.4 mm (.920")	3.0 mm (.120")	112-5123		
TITAN HD FAIRWAY							
	146.0 mm (5.75")	16.1 mm (.635")	20.3 mm (.800")	3.1 mm (.122")	108-9264		
	146.0 mm (5.75")	16.1 mm (.635")	23.4 mm (.920")	3.1 mm (.122")	108-9265		
TITAN FAIRWAY							
	120.6 mm (4.75")	16.1 mm (.635")	20.3 mm (.800")	3.1 mm (.122")	92-7941		
	146.0 mm (5.75")	16.1 mm (.635")	20.3 mm (.800")	3.1 mm (.122")	92-7900		
	146.0 mm (5.75")	16.1 mm (.635")	23.4 mm (.920")	3.0 mm (.120")	104-9877		
CLASSIC TORO HOLLOW							
	120.6 mm (4.75")	15.2 mm (.600")	19.0 mm (.750")	1.7 mm (.065")	62-4600		
	146.0 mm (5.75")	15.2 mm (.600")	19.0 mm (.750")	1.7 mm (.065")	86-9720		
TITAN SOLID ROUND							
	139.7 mm (5.50")	N/A	19.0 mm (.750")	N/A	108-9246		
	139.7 mm (5.50")	N/A	22.2 mm (.875")	N/A	108-9247		
TITAN SOLID SLICING							
	139.7 mm (5.50")	N/A	19.0 mm (.750")	N/A	108-9242		
TITAN CROSS AND MAX CROSS							
	139.7 mm (5.50")	N/A	22.2 mm (.875")	N/A	108-9259		
NEEDLE TINE							
	163.3 mm (6.43")	N/A	5.0 mm	N/A	100-3620	Requires Needle Tine Head	
	187.5 mm (7.38")	N/A	8.0 mm	N/A	100-3621	Requires Needle Tine Head	

Turf Aerator 686/687



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

ProCore 686/687

SPOON-OPEN

Description	Part Number	Quantity Required
12.7 mm (.500")	108-9296	96

SPOON-Closed

Description	Part Number	Quantity Required
12.7 mm (.500")	108-9297	96
19.0 mm (.750")	108-9299	96

Greens AERATOR



If there was a Hall of Fame for aerators, the Toro® Greens Aerator would definitely be inducted. This powerful and efficient greens aerator was produced for 17 solid years following its introduction in 1986. Although it's officially in retirement, there are many of them around the world still aerating greens as well as they did brand new.




TINE HEADS AND TURF GUARDS

Tine Heads			Turf Guards	
Description	Part No.	Tines Required	Part No.	Qty Required
Needle Tine Head	94-3421	12		
9.5 mm (.375") Tine Head	94-3420	12	72-4660 (RH) 72-4680 (Ctr)	1 1
19.0 mm (.750") Tine Head	59-2500	12	72-4640 (LH)	1
22.2 mm (.875") Tine Head	62-4610	12		

Greens Aerator

9.5 mm (.375") Mounting Size

TITAN MAX







	Length	Core Dia. (ID)	OD	Wall Thickness	Part Number	Part Number	Core Dia. (ID)
TITAN QUAD AND MAX QUAD							
	114.3 mm (4.50")	6.3 mm (.248")	9.1 mm (.360")	1.3 mm (.052")	108-9104	108-9112	5.8 mm (.230")
	114.3 mm (4.50")	8.1 mm (.318")	11.6 mm (.458")	1.6 mm (.063")	108-9105	108-9114	7.1 mm (.280")
	114.3 mm (4.50")	10.3 mm (.406")	13.9 mm (.546")	1.6 mm (.063")	108-9106	108-9116	9.7 mm (.380")
	114.3 mm (4.50")	12.2 mm (.480")	14.7 mm (.580")	1.6 mm (.063")	108-9293		
TITAN SOLID ROUND							
	114.3 mm (4.50")	N/A	5.1 mm (.200")	N/A	108-9230		
	114.3 mm (4.50")	N/A	6.3 mm (.250")	N/A	108-9231		
	114.3 mm (4.50")	N/A	7.6 mm (.300")	N/A	108-9232		
	114.3 mm (4.50")	N/A	9.7 mm (.380")	N/A	108-9233		
TITAN CROSS AND MAX CROSS							
	114.3 mm (4.50")	N/A	9.5 mm (.375")	N/A	108-9215		
	114.3 mm (4.50")	N/A	12.7 mm (.500")	N/A	108-9216	112-1310	12.7 mm (.500")
	114.3 mm (4.50")	N/A	15.9 mm (.625")	N/A	108-9217		






Greens Aerator

Greens Aerator

19.0 mm (.750") Mounting Size

TITAN MAX

	Length	Core Dia. (ID)	OD	Wall Thickness	Part Number	Part Number	Core Dia. (ID)
TITAN HOLLOW							
	120.6 mm (4.75")	7.1 mm (.280")	11.7 mm (.460")	1.5 mm (.058")	108-9128	108-9139	7.1 mm (.280")
	120.6 mm (4.75")	10.3 mm (.406")	14.2 mm (.560")	1.5 mm (.058")	108-9129	108-9141	9.7 mm (.380")
	120.6 mm (4.75")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	108-9130	108-9143	12.2 mm (.480")
TITAN SIDE EJECT							
	120.6 mm (4.75")	7.1 mm (.280")	11.7 mm (.460")	1.4 mm (.055")	108-9159	108-9170	7.1 mm (.280")
	120.6 mm (4.75")	10.3 mm (.406")	14.2 mm (.560")	1.5 mm (.058")	108-9160	108-9172	9.7 mm (.380")
	120.6 mm (4.75")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	108-9161	108-9174	12.2 mm (.480")
CLASSIC							
	120.6 mm (4.75")	7.6 mm (.300")	11.1 mm (.438")	0.9 mm (.035")	59-3690		
	120.6 mm (4.75")	10.2 mm (.400")	12.7 mm (.500")	1.2 mm (.049")	66-9140		
	120.6 mm (4.75")	12.7 mm (.500")	15.9 mm (.625")	1.2 mm (.049")	59-3670		
TITAN SOLID ROUND							
	114.3 mm (4.50")	N/A	6.3 mm (.250")	N/A	108-9198		
	114.3 mm (4.50")	N/A	7.6 mm (.300")	N/A	108-9199		
	114.3 mm (4.50")	N/A	8.9 mm (.350")	N/A	108-9200		
	114.3 mm (4.50")	N/A	10.2 mm (.400")	N/A	108-9201		
	114.3 mm (4.50")	N/A	12.7 mm (.500")	N/A	108-9202		
	114.3 mm (4.50")	N/A	15.2 mm (.600")	N/A	108-9203		
TITAN SOLID SLICING							
	114.3 mm (4.50")	N/A	19.0 mm (.750")	N/A	108-9239		
TITAN CROSS AND MAX CROSS							
	114.3 mm (4.50")	N/A	12.7 mm (.500")	N/A	108-9221	112-1312	12.7 mm (.500")
	114.3 mm (4.50")	N/A	15.9 mm (.625")	N/A	108-9222		
	114.3 mm (4.50")	N/A	19.0 mm (.750")	N/A	108-9223		

Greens Aerator							
22.2 mm (.875") Mounting Size						TITAN MAX	
	Length	Core Dia. (ID)	OD	Wall Thickness	Part Number	Part Number	Core Dia. (ID)
TITAN HOLLOW							
	120.6 mm (4.75")	13.0 mm (.512")	16.8 mm (.660")	1.5 mm (.058")	108-9190	108-9155	12.2 mm (.480")
	120.6 mm (4.75")	16.0 mm (.628")	19.3 mm (.760")	1.5 mm (.058")	108-9191		
TITAN SIDE EJECT =							
	120.6 mm (4.75")	13.0 mm (.512")	16.8 mm (.660")	1.5 mm (.058")	108-9194	108-9186	12.2 mm (.480")
	120.6 mm (4.75")	16.0 mm (.628")	19.3 mm (.760")	1.5 mm (.058")	108-9195		
CLASSIC							
	120.6 mm (4.75")	15.2 mm (.600")	19.0 mm (.750")	1.7 mm (.065")	62-4600		
TITAN FAIRWAY							
	120.6 mm (4.75")	16.1 mm (.635")	20.3 mm (.800")	3.1 mm (.122")	92-7941		
NEEDLE TINE							
	163.3 mm (6.43")	N/A	5.0 mm	N/A	100-3620	Requires Needle Tine Head	



Fairway AERATOR

The Fairway Aerator is a legend. Based on the name, one might assume its sole purpose is fairways. However, this tough aerator performs exceptionally well on sports fields and other turf. Although production ended in 1996, there is still many Fairway Aerators working today that we've added their tine offering back into the catalog.









TINE HEADS AND TURF GUARDS

Tine Heads			Turf Guards	
Description	Part No.	Tines Required	Part No.	Qty Required
	6-Tine, 19.0 mm (.750") Block			
Outer	95-3103			
Bridging	95-3104	36		
Inner	95-3105		70-9430 70-9440	3
	6-Tine, 22.2 mm (.875") Block			
Outer	70-9380			
Bridging	70-9390	12		
Inner	70-9400			

Fairway Aerator

19.0 mm (.750") Mounting Size

TITAN MAX

	Length	Core Dia. (ID)	OD	Wall Thickness	Part Number	Part Number	Core Dia. (ID)
TITAN HOLLOW							
	120.6 mm (4.75")	7.1 mm (.280")	11.7 mm (.460")	1.5 mm (.058")	108-9128	108-9139	7.1 mm (.280")
	120.6 mm (4.75")	10.3 mm (.406")	14.2 mm (.560")	1.5 mm (.058")	108-9129	108-9141	9.7 mm (.380")
	120.6 mm (4.75")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	108-9130	108-9143	12.2 mm (.480")
	146.0 mm (5.75")	7.1 mm (.280")	11.7 mm (.460")	1.5 mm (.058")	108-9132	108-9145	7.1 mm (.280")
	146.0 mm (5.75")	10.3 mm (.406")	14.2 mm (.560")	1.5 mm (.058")	108-9133	108-9147	9.7 mm (.380")
	146.0 mm (5.75")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	108-9134	108-9149	12.2 mm (.480")
TITAN HOLLOW - EXTENDED TAPER							
	146.0 mm (5.75")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	114-0551	114-0553	12.0 mm (.473")
TITAN SIDE EJECT AND MAX SIDE EJECT							
	120.6 mm (4.75")	7.1 mm (.280")	11.7 mm (.460")	1.4 mm (.055")	108-9159	108-9170	7.1 mm (.280")
	120.6 mm (4.75")	10.3 mm (.406")	14.2 mm (.560")	1.5 mm (.058")	108-9160	108-9172	9.7 mm (.380")
	120.6 mm (4.75")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	108-9161	108-9174	12.2 mm (.480")
	146.0 mm (5.75")	7.1 mm (.280")	11.7 mm (.460")	1.4 mm (.055")	108-9163	108-9176	7.1 mm (.280")
	146.0 mm (5.75")	10.3 mm (.406")	14.2 mm (.560")	1.5 mm (.058")	108-9164	108-9178	9.7 mm (.380")
	146.0 mm (5.75")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	108-9165	108-9180	12.2 mm (.480")
TITAN SIDE EJECT - EXTENDED TAPER							
	146.0 mm (5.75")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	114-0555	114-0557	12.0 mm (.473")
TITAN SPLIT TINE							
	146.0 mm (5.75")	12.95 mm (.510")	22.4 mm (.880")	3.0 mm (.120")	112-5121		
TITAN HD FAIRWAY							
	146.0 mm (5.75")	12.95 mm (.510")	17.8 mm (.700")	3.1 mm (.122")	108-9260		
	146.0 mm (5.75")	12.95 mm (.510")	20.3 mm (.800")	3.1 mm (.122")	108-9261		
TITAN FAIRWAY							
	146.0 mm (5.75")	12.95 mm (.510")	19.6 mm (.770")	3.0 mm (.120")	104-9876		
	146.0 mm (5.75")	12.95 mm (.510")	22.4 mm (.880")	3.0 mm (.120")	104-9875		
CLASSIC TORO HOLLOW							
	120.6 mm (4.75")	7.6 mm (.300")	11.1 mm (.438")	0.9 mm (.035")	59-3690		
	120.6 mm (4.75")	10.2 mm (.400")	12.7 mm (.500")	1.2 mm (.049")	66-9140		
	120.6 mm (4.75")	12.7 mm (.500")	15.9 mm (.625")	1.2 mm (.049")	59-3670		
	146.0 mm (5.75")	12.9 mm (.509")	15.9 mm (.625")	1.5 mm (.058")	104-0984		

Fairway Aerator

Fairway Aerator

Fairway Aerator

19.0 mm (.750") Mounting Size

TITAN MAX

Length	Core Dia. (ID)	OD	Wall Thickness	Part Number	Part Number	Core Dia. (ID)
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TITAN SOLID ROUND

114.3 mm (4.50")	N/A	6.3 mm (.250")	N/A	108-9198		
114.3 mm (4.50")	N/A	7.6 mm (.300")	N/A	108-9199		
114.3 mm (4.50")	N/A	8.9 mm (.350")	N/A	108-9200		
114.3 mm (4.50")	N/A	10.2 mm (.400")	N/A	108-9201		
114.3 mm (4.50")	N/A	12.7 mm (.500")	N/A	108-9202		
114.3 mm (4.50")	N/A	15.2 mm (.600")	N/A	108-9203		
139.7 mm (5.50")	N/A	6.3 mm (.250")	N/A	108-9204		
139.7 mm (5.50")	N/A	7.6 mm (.300")	N/A	108-9205		
139.7 mm (5.50")	N/A	8.9 mm (.350")	N/A	108-9206		
139.7 mm (5.50")	N/A	10.2 mm (.400")	N/A	108-9207		
139.7 mm (5.50")	N/A	12.7 mm (.500")	N/A	108-9208		
139.7 mm (5.50")	N/A	15.2 mm (.600")	N/A	108-9209		
139.7 mm (5.50")	N/A	19.0 mm (.750")	N/A	108-9244		
114.3 mm (4.50")	N/A	19.0 mm (.750")	N/A	108-9239		
139.7 mm (5.50")	N/A	19.0 mm (.750")	N/A	108-9240		



TITAN CROSS



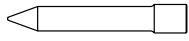
114.3 mm (4.50")	N/A	12.7 mm (.500")	N/A	108-9221	112-1312	12.7 mm (.500")
114.3 mm (4.50")	N/A	15.9 mm (.625")	N/A	108-9222		
114.3 mm (4.50")	N/A	19.0 mm (.750")	N/A	108-9223		
139.7 mm (5.50")	N/A	12.7 mm (.500")	N/A	108-9224	112-1313	12.7 mm (.500")
139.7 mm (5.50")	N/A	15.9 mm (.625")	N/A	108-9225		
139.7 mm (5.50")	N/A	19.0 mm (.750")	N/A	108-9226		



Fairway Aerator

22.2 mm (.875") Mounting Size

TITAN MAX

	Length	Core Dia. (ID)	OD	Wall Thickness	Part Number	Part Number	Core Dia. (ID)
TITAN HOLLOW							
	120.6 mm (4.75")	13.0 mm (.512")	16.8 mm (.660")	1.5 mm (.058")	108-9190	108-9155	12.2 mm (.480")
	120.6 mm (4.75")	16.0 mm (.628")	19.3 mm (.760")	1.5 mm (.058")	108-9191		
	120.6 mm (4.75")	13.0 mm (.512")	16.8 mm (.660")	1.5 mm (.058")	108-9192	108-9157	12.2 mm (.480")
	120.6 mm (4.75")	16.0 mm (.628")	19.3 mm (.760")	1.5 mm (.058")	108-9193		
TITAN SIDE EJECT AND MAX SIDE EJECT							
	120.6 mm (4.75")	13.0 mm (.512")	16.8 mm (.660")	1.5 mm (.058")	108-9194	108-9186	12.2 mm (.480")
	120.6 mm (4.75")	16.0 mm (.628")	19.3 mm (.760")	1.5 mm (.058")	108-9195		
	146.0 mm (5.75")	13.0 mm (.512")	16.8 mm (.660")	1.5 mm (.058")	108-9196	108-9188	12.2 mm (.480")
	146.0 mm (5.75")	16.0 mm (.628")	19.3 mm (.760")	1.5 mm (.058")	108-9197		
TITAN SPLIT TINE							
	146.0 mm (5.75")	16.1 mm (.635")	22.4 mm (.880")	3.0 mm (.120")	112-5121		
	146.0 mm (5.75")	16.1 mm (.635")	23.4 mm (.920")	3.0 mm (.120")	112-5123		
TITAN HD FAIRWAY							
	146.0 mm (5.75")	16.1 mm (.635")	20.3 mm (.800")	3.1 mm (.122")	108-9264		
	146.0 mm (5.75")	16.1 mm (.635")	23.4 mm (.920")	3.1 mm (.122")	108-9265		
TITAN FAIRWAY							
	120.6 mm (4.75")	16.1 mm (.635")	20.3 mm (.800")	3.1 mm (.122")	92-7941		
	146.0 mm (5.75")	16.1 mm (.635")	20.3 mm (.800")	3.1 mm (.122")	92-7900		
	146.0 mm (5.75")	16.1 mm (.635")	23.4 mm (.920")	3.0 mm (.120")	104-9877		
CLASSIC TORO HOLLOW							
	120.6 mm (4.75")	15.2 mm (.600")	19.0 mm (.750")	1.7 mm (.065")	62-4600		
	146.0 mm (5.75")	15.2 mm (.600")	19.0 mm (.750")	1.7 mm (.065")	86-9720		
TITAN SOLID ROUND							
	139.7 mm (5.50")	N/A	19.0 mm (.750")	N/A	108-9246		
	139.7 mm (5.50")	N/A	22.2 mm (.875")	N/A	108-9247		
TITAN SOLID SLICING							
	139.7 mm (5.50")	N/A	19.0 mm (.750")	N/A	108-9242		
TITAN CROSS AND MAX CROSS							
	139.7 mm (5.50")	N/A	22.2 mm (.875")	N/A	108-9259		

Fairway Aerator

FEATURES & BENEFITS

- Heavy-duty design
- Hydraulic remote depth adjustment from the tractor
- Superior punching power
- Multiple coring and solid tines
- Easy hook-up and operation
- Simplified maintenance

ProCore® SR SERIES



The ProCore SR Series provide the versatility you need with working widths of 122 – 190 cm (48” – 75”), working depths up to 40.6 cm (16”) and hole spacing from 63.5 mm – 152.4 mm (2.5” – 6”). From lightweight, precision machines for more sensitive turf to robust heavy-duty machines to break up the soil on even the most compacted surfaces, the ProCore SR Series deep tine aerators are the ultimate choice for performance and quality.

Tine Heads

Description	Part Number	Quantity Required
SR54-S/SR70-S, 12 mm or 7.9 mm (.3125") Mount	SGH08704-03	SR54-S: 18 SR72-S: 24
SR54/SR70, 12 mm or 7.9 mm (.3125") Mount	SG407054-03	SR54: 12 or 18 SR70: 16 or 24
SR72, 12 mm or 18 mm Mount	SG404010-03	SR48: 8 to 16 SR72: 12 to 24
SR75HD, 12mm or 18 mm Mount	SG321111-03	SR75HD: 12

ProCore® SR48

Head SG404010-03

This head comes installed on the ProCore SR48. See adapter head kit section for additional tine configuration options.

Mount	Length	Core Dia. (ID)	OD	Part Number	Adapter Sleeve	Replacement Tube
SOLID TINES						
7.9 mm (.3125")	215.9 mm (8.50")	-	7.9 mm (.3125")	SGS07313*	SGA08313	
7.9 mm (.3125")	254.0 mm (10.00")	-	7.9 mm (.3125")	SGS08313*	SGA08313	
9.5 mm (.375")	228.6 mm (9.00")	-	9.5 mm (.375")	SGS08375*	SGA12375	
9.5 mm (.375")	273.1 mm (10.75")	-	9.5 mm (.375")	SGS10374*	SGA12375	
9.5 mm (.375")	311.2 mm (12.25")	-	9.5 mm (.375")	SGS10375*	SGA12375	
12.0 mm	203.2 mm (8.00")	-	12.0 mm	SGS08500		
12.0 mm	273.1 mm (10.75")	-	12.0 mm	SGS10504		
12.0 mm	311.2 mm (12.25")	-	12.0 mm	SGS10500		
12.0 mm	361.9 mm (14.25")	-	12.0 mm	SGS12500		
12.0 mm	412.8 mm (16.25")	-	12.0 mm	SGS14500		
18.0 mm	311.2 mm (12.25")	-	18.0 mm	SGS10750		
18.0 mm	361.9 mm (14.25")	-	18.0 mm	SGS12750		
18.0 mm	412.8 mm (16.25")	-	18.0 mm	SGS14750		
18.0 mm	317.5 mm (12.50")	-	22.2 mm (.875")	SGS10875		
18.0 mm	355.6 mm (14.00")	-	22.2 mm (.875")	SGS12875		
18.0 mm	406.4 mm (16.00")	-	22.2 mm (.875")	SGS14875		

CORING TINES

12.0 mm	177.8 mm (7.00")	13.2 mm (.520")	17.4 mm (.687")	SGC07625		SGT07625
12.0 mm	177.8 mm (7.00")	14.2 mm (.560")	20.7 mm (.813")	SGC07750		SGT07750
12.0 mm	254.0 mm (10.00")	14.2 mm (.560")	19.0 mm (.750")	SGC10755		SGT10750
12.0 mm	254.0 mm (10.00")	14.2 mm (.560")	20.6 mm (.810")	SGC10813H		SGT10813H
18.0 mm	254.0 mm (10.00")	14.2 mm (.560")	19.0 mm (.750")	SGC10750		SGT10750
18.0 mm	203.2 mm (8.00")	18.8 mm (.740")	26.9 mm (1.06")	SGC08100H		SGT08100H
18.0 mm	254.0 mm (10.00")	19.3 mm (.760")	25.4 mm (1.00")	SGC10100S		SGT10100S
18.0 mm	254.0 mm (10.00")	18.8 mm (.740")	26.9 mm (1.06")	SGC10100H		SGT10100H
18.0 mm	203.2 mm (8.00")	23.9 mm (.940")	33.3 mm (1.31")	SGC08125		SGT08125
18.0 mm	304.8 mm (12.00")	23.9 mm (.940")	33.3 mm (1.31")	SGC12125		SGT12125

*Adapter Sleeve is required.

Adapter Head Kit 117-7190

SOLID TINES

7.9 mm (.3125")	215.9 mm (8.50")	-	7.9 mm (.3125")	SGS07313		
7.9 mm (.3125")	254.0 mm (10.00")	-	7.9 mm (.3125")	SGS08313		

ProCore® SR Series

ProCore SR48 (continued)

Mount	Length	Core Dia. (ID)	OD	Part Number	Adapter Sleeve	Replacement Tube
Adapter Head Kit 117-7191						
SOLID TINES						
12.0 mm	203.2 mm (8.00")	-	12.0 mm	SGS08500		
12.0 mm	311.2 mm (12.25")	-	12.0 mm	SGS10500		
12.0 mm	361.9 mm (14.25")	-	12.0 mm	SGS12500		
12.0 mm	412.8 mm (16.25")	-	12.0 mm	SGS14500		
CORING TINES						
12.0 mm	177.8 mm (7.00")	13.2 mm (.520")	17.4 mm (.687")	SGC07624		SGT07625
12.0 mm	177.8 mm (7.00")	14.2 mm (.560")	20.7 mm (.813")	SGC07754		SGT07750
12.0 mm	254.0 mm (10.00")	14.2 mm (.560")	19.0 mm (.750")	SGC10754		SGT10750

ProCore SR54

Head SG407054-03 This head comes installed on the ProCore SR54. See adapter head kit section for additional tine configuration options.

SOLID TINES

7.9 mm (.3125")	215.9 mm (8.50")	-	7.9 mm (.3125")	SGS07313		
7.9 mm (.3125")	254.0 mm (10.00")	-	7.9 mm (.3125")	SGS08313		
9.5 mm (.375")	228.6 mm (9.00")	-	9.5 mm (.375")	SGS08375*	SGA10375	
9.5 mm (.375")	273.1 mm (10.75")	-	9.5 mm (.375")	SGS10374*	SGA10375	
12.0 mm	203.2 mm (8.00")	-	12.0 mm	SGS08500		
12.0 mm	273.1 mm (10.75")	-	12.0 mm	SGS10504		

CORING TINES

9.5 mm (.375")	139.7 mm (5.50")	9.5 mm (.375")	12.7 mm (.500")	SGC05550*	SGA10375	
12.0 mm	177.8 mm (7.00")	13.2 mm (.520")	17.4 mm (.687")	SGC07624		SGT07625
12.0 mm	177.8 mm (7.00")	14.2 mm (.560")	20.7 mm (.813")	SGC07754		SGT07750
12.0 mm	254.0 mm (10.00")	14.2 mm (.560")	19.0 mm (.750")	SGC10754		SGT10750

Adapter Head Kit 117-7193

SOLID TINES

7.9 mm (.3125")	215.9 mm (8.50")	-	7.9 mm (.3125")	SGS07313		
7.9 mm (.3125")	254.0 mm (10.00")	-	7.9 mm (.3125")	SGS08313		
9.5 mm (.375")	228.6 mm (9.00")	-	9.5 mm (.375")	SGS08375		SGA10375
9.5 mm (.375")	273.1 mm (10.75")	-	9.5 mm (.375")	SGS10374		SGA10375
9.5 mm (.375")	311.2 mm (12.25")	-	9.5 mm (.375")	SGS10375		SGA10375

CORING TINES

9.5 mm (.375")	139.7 mm (5.50")	9.5 mm (.375")	12.7 mm (.500")	SGC05550		SGT05550
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*Adapter Sleeve is required.

ProCore® SR54-S

Head SGH08704-03

This head comes installed on the ProCore SR54-S. See adapter head kit section for additional tine configuration options.

Mount	Length	Core Dia. (ID)	OD	Part Number	Adapter Sleeve	Replacement Tube
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SOLID TINES

7.9 mm (.3125")	215.9 mm (8.50")	-	7.9 mm (.3125")	SGS07313		
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7.9 mm (.3125")	254.0 mm (10.00")	-	7.9 mm (.3125")	SGS08313		
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12.0 mm	203.2 mm (8.00")	-	12.0 mm	SGS08500		
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12.0 mm	273.1 mm (10.75")	-	12.0 mm	SGS10504		
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CORING TINES

12.0 mm	177.8 mm (7.00")	13.2 mm (.520")	17.4 mm (.687")	SGC07624		SGT07625
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12.0 mm	177.8 mm (7.00")	14.2 mm (.560")	20.7 mm (.813")	SGC07754		SGT07750
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12.0 mm	254.0 mm (10.00")	14.2 mm (.560")	19.0 mm (.750")	SGC10754		SGT10750
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Adapter Head Kit 117-7194

SOLID TINES

18.0 mm	311.2 mm (12.25")	-	18 mm	SGS10750		
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Adapter Head Kit 117-7195

SOLID TINES

7.9 mm (.3125")	215.9 mm (8.50")	-	7.9 mm (.3125")	SGS07313		
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7.9 mm (.3125")	254.0 mm (10.00")	-	7.9 mm (.3125")	SGS08313		
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12.0 mm	203.2 mm (8.00")	-	12.0 mm	SGS08500		
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12.0 mm	273.1 mm (10.75")	-	12.0 mm	SGS10504		
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CORING TINES

12.0 mm	177.8 mm (7.00")	13.2 mm (.520")	17.4 mm (.687")	SGC07624		SGT07625
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12.0 mm	177.8 mm (7.00")	14.2 mm (.560")	20.7 mm (.813")	SGC07754		SGT07750
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12.0 mm	254.0 mm (10.00")	14.2 mm (.560")	19.0 mm (.750")	SGC10754		SGT10750
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Adapter Head Kit 117-7196

SOLID TINES

7.9 mm (.3125")	215.9 mm (8.50")	-	7.9 mm (.3125")	SGS07313		
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7.9 mm (.3125")	254.0 mm (10.00")	-	7.9 mm (.3125")	SGS08313		
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9.5 mm (.375")	228.6 mm (9.00")	-	9.5 mm (.375")	SGS08375		
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9.5 mm (.375")	273.1 mm (10.75")	-	9.5 mm (.375")	SGS10374		
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CORING TINES

9.5 mm (.375")	139.7 mm (5.50")	9.5 mm (.375")	12.7 mm (.500")	SGC05550		SGT05550
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Adapter Head Kit 117-7199

SOLID TINES

9.5 mm (.375")	228.6 mm (9.00")	-	9.5 mm (.375")	SGS08375		
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9.5 mm (.375")	273.1 mm (10.75")	-	9.5 mm (.375")	SGS10374		
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CORING TINES

9.5 mm (.375")	139.7 mm (5.50")	9.5 mm (.375")	12.7 mm (.500")	SGC05550		SGT05550
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ProCore® SR Series

ProCore SR70

Head SG407054-03

This head comes installed on the ProCore SR70. See adapter head kit section for additional tine configuration options.

Mount	Length	Core Dia. (ID)	OD	Part Number	Adapter Sleeve	Replacement Tube
SOLID TINES						
7.9 mm (.3125")	215.9 mm (8.50")	-	7.9 mm (.3125")	SGS07313		
7.9 mm (.3125")	254.0 mm (10.00")	-	7.9 mm (.3125")	SGS08313		
9.5 mm (.375")	228.6 mm (9.00")	-	9.5 mm (.375")	SGS08375*	SGA10375	
9.5 mm (.375")	273.1 mm (10.75")	-	9.5 mm (.375")	SGS10374*	SGA10375	
12.0 mm	203.2 mm (8.00")	-	12.0 mm	SGS08500		
12.0 mm	273.1 mm (10.75")	-	12.0 mm	SGS10504		

CORING TINES

9.5 mm (.375")	139.7 mm (5.50")	9.5 mm (.375")	12.7 mm (.500")	SGC05550*	SGA10375	SGT05550
12.0 mm	177.8 mm (7.00")	13.2 mm (.520")	17.4 mm (.687")	SGC07624		SGT07625
12.0 mm	177.8 mm (7.00")	14.2 mm (.560")	20.7 mm (.813")	SGC07754		SGT07750
12.0 mm	254.0 mm (10.00")	14.2 mm (.560")	19.0 mm (.750")	SGC10754		SGT10750

Adapter Head Kit 117-7193

SOLID TINES

7.9 mm (.3125")	215.9 mm (8.50")	-	7.9 mm (.3125")	SGS07313		
7.9 mm (.3125")	254.0 mm (10.00")	-	7.9 mm (.3125")	SGS08313		
9.5 mm (.375")	228.6 mm (9.00")	-	9.5 mm (.375")	SGS08375		
9.5 mm (.375")	273.1 mm (10.75")	-	9.5 mm (.375")	SGS10374		
9.5 mm (.375")	311.2 mm (12.25")	-	9.5 mm (.375")	SGS10375		

CORING TINES

9.5 mm (.375")	139.7 mm (5.50")	9.5 mm (.375")	12.7 mm (.500")	SGC05550		SGT05550
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*Adapter Sleeve is required.

ProCore® SR70-S

Head SGH08704-03

This head comes installed on the ProCore SR70. See adapter head kit section for additional tine configuration options.

Mount	Length	Core Dia. (ID)	OD	Part Number	Adapter Sleeve	Replacement Tube
SOLID TINES						
7.9 mm (.3125")	215.9 mm (8.50")	-	7.9 mm (.3125")	SGS07313		
7.9 mm (.3125")	254.0 mm (10.00")	-	7.9 mm (.3125")	SGS08313		
12.0 mm	203.2 mm (8.00")	-	12.0 mm	SGS08500		
12.0 mm	273.1 mm (10.75")	-	12.0 mm	SGS10504		

CORING TINES

12.0 mm	177.8 mm (7.00")	13.2 mm (.520")	17.4 mm (.687")	SGC07624		SGT07625
12.0 mm	177.8 mm (7.00")	14.2 mm (.560")	20.7 mm (.813")	SGC07754		SGT07750
12.0 mm	254.0 mm (10.00")	14.2 mm (.560")	19.0 mm (.750")	SGC10754		SGT10750

Adapter Head Kit 117-7194

SOLID TINES

18.0 mm	311.2 mm (12.25")	-	18.0 mm	SGS10750		
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Adapter Head Kit 117-7191

SOLID TINES

7.9 mm (.3125")	215.9 mm (8.50")	-	7.9 mm (.3125")	SGS07313		
7.9 mm (.3125")	254.0 mm (10.00")	-	7.9 mm (.3125")	SGS08313		
12.0 mm	203.2 mm (8.00")	-	12.0 mm	SGS08500		
12.0 mm	273.1 mm (10.75")	-	12.0 mm	SGS10504		

CORING TINES

12.0 mm	177.8 mm (7.00")	13.2 mm (.520")	17.4 mm (.687")	SGC07624		SGT07625
12.0 mm	177.8 mm (7.00")	14.2 mm (.560")	20.7 mm (.813")	SGC07754		SGT07750
12.0 mm	254.0 mm (10.00")	14.2 mm (.560")	19.0 mm (.750")	SGC10754		SGT10750

Adapter Head Kit 117-7196

SOLID TINES

7.9 mm (.3125")	215.9 mm (8.50")	-	7.9 mm (.3125")	SGS07313		
7.9 mm (.3125")	254.0 mm (10.00")	-	7.9 mm (.3125")	SGS08313		
9.5 mm (.375")	228.6 mm (9.00")	-	9.5 mm (.375")	SGS08375		
9.5 mm (.375")	273.1 mm (10.75")	-	9.5 mm (.375")	SGS10374		

CORING TINES

9.5 mm (.375")	139.7 mm (5.50")	9.5 mm (.375")	12.7 mm (.500")	SGC05550		SGT05550
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Adapter Head Kit 117-7199

SOLID TINES

9.5 mm (.375")	228.6 mm (9.00")	-	9.5 mm (.375")	SGS08375		
9.5 mm (.375")	273.1 mm (10.75")	-	9.5 mm (.375")	SGS10374		

SOLID TINES

9.5 mm (.375")	139.7 mm (5.50")	9.5 mm (.375")	12.7 mm (.500")	SGC05550		SGT05550
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ProCore® SR Series

ProCore SR72

Head SG404010-03

This head comes installed on the ProCore® SR72. See adapter head kit section for additional tine configuration options.

Mount	Length	Core Dia. (ID)	OD	Part Number	Adapter Sleeve	Replacement Tube
SOLID TINES						
7.9 mm (.3125")	215.9 mm (8.50")	-	7.9 mm (.3125")	SGS07313*	SGA08313	
7.9 mm (.3125")	254.0 mm (10.00")	-	7.9 mm (.3125")	SGS08313*	SGA08313	
9.5 mm (.375")	228.6 mm (9.00")	-	9.5 mm (.375")	SGS08375*	SGA12375	
9.5 mm (.375")	273.1 mm (10.75")	-	9.5 mm (.375")	SGS10374*	SGA12375	
9.5 mm (.375")	311.2 mm (12.25")	-	9.5 mm (.375")	SGS10375*	SGA12375	
12.0 mm	203.2 mm (8.00")	-	12.0 mm	SGS08500		
12.0 mm	273.1 mm (10.75")	-	12.0 mm	SGS10504		
12.0 mm	311.2 mm (12.25")	-	12.0 mm	SGS10500		
12.0 mm	361.9 mm (14.25")	-	12.0 mm	SGS12500		
12.0 mm	412.8 mm (16.25")	-	12.0 mm	SGS14500		
18.0 mm	311.2 mm (12.25")	-	18.0 mm	SGS10750		
18.0 mm	361.9 mm (14.25")	-	18.0 mm	SGS12750		
18.0 mm	412.8 mm (16.25")	-	18.0 mm	SGS14750		
18.0 mm	317.5 mm (12.50")	-	22.2 mm (.875")	SGS10875		
18.0 mm	355.6 mm (14.00")	-	22.2 mm (.875")	SGS12875		
18.0 mm	406.4 mm (16.00")	-	22.2 mm (.875")	SGS14875		
CORING TINES						
12.0 mm	177.8 mm (7.00")	13.2 mm (.520")	17.4 mm (.687")	SGC07625		SGT07625
12.0 mm	177.8 mm (7.00")	14.2 mm (.560")	20.7 mm (.813")	SGC07750		SGT07750
12.0 mm	254.0 mm (10.00")	14.2 mm (.560")	19.0 mm (.750")	SGC10755		SGT10750
12.0 mm	254.0 mm (10.00")	14.2 mm (.560")	20.6 mm (.810")	SGC10813H		SGT10813H
18.0 mm	254.0 mm (10.00")	14.2 mm (.560")	19.0 mm (.750")	SGC10750		SGT10750
18.0 mm	203.2 mm (8.00")	18.8 mm (.740")	26.9 mm (1.06")	SGC08100H		SGT08100H
18.0 mm	254.0 mm (10.00")	19.3 mm (.760")	25.4 mm (1.00")	SGC10100S		SGT10100S
18.0 mm	254.0 mm (10.00")	18.8 mm (.740")	26.9 mm (1.06")	SGC10100H		SGT10100H
18.0 mm	203.2 mm (8.00")	23.9 mm (.940")	33.3 mm (1.31")	SGC08125		SGT08125
18.0 mm	304.8 mm (12.00")	23.9 mm (.940")	33.3 mm (1.31")	SGC12125		SGT12125

ProCore SR72 (continued)

Mount	Length	Core Dia. (ID)	OD	Part Number	Adapter Sleeve	Replacement Tube
Adapter Head Kit 117-7190						
SOLID TINES						
7.9 mm (.3125")	215.9 mm (8.50")	-	7.9 mm (.3125")	SGS07313		
7.9 mm (.3125")	254.0 mm (10.00")	-	7.9 mm (.3125")	SGS08313		
Adapter Head Kit 117-7191						
SOLID TINES						
12.0 mm	203.2 mm (8.00")	-	12.0 mm	SGS08500		
12.0 mm	311.2 mm (12.25")	-	12.0 mm	SGS10500		
12.0 mm	361.9 mm (14.25")	-	12.0 mm	SGS12500		
12.0 mm	412.8 mm (16.25")	-	12.0 mm	SGS14500		
Adapter Head Kit 117-7190						
CORING TINES						
12.0 mm	177.8 mm (7.00")	13.2 mm (.520")	17.4 mm (.687")	SGC07624		SGT07625
12.0 mm	177.8 mm (7.00")	14.2 mm (.560")	20.7 mm (.813")	SGC07754		SGT07750
12.0 mm	254.0 mm (10.00")	14.2 mm (.560")	19.0 mm (.750")	SGC10754		SGT10750

ProCore® SR Series

ProCore SR75 HD

Head SG322111-03

This head comes installed on the ProCore SR75 HD. See adapter head kit section for additional tine configuration options.

Mount	Length	Core Dia. (ID)	OD	Part Number	Adapter Sleeve	Replacement Tube
SOLID TINES						
18.0 mm	311.2 mm (12.25")	-	18.0 mm	SGS10750*	SG715802	
18.0 mm	361.9 mm (14.25")	-	18.0 mm	SGS12750*	SG715802	
18.0 mm	412.8 mm (16.25")	-	18.0 mm	SGS14750*	SG715802	
18.0 mm	317.5 mm (12.50")	-	22.2 mm (.875")	SGS10875*	SG715802	
18.0 mm	355.6 mm (14.00")	-	22.2 mm (.875")	SGS12875*	SG715802	
18.0 mm	406.4 mm (16.00")	-	22.2 mm (.875")	SGS14875*	SG715802	
22.2 mm (.875")	317.5 mm (12.50")	-	22.2 mm (.875")	SGS10876		
22.2 mm (.875")	355.6 mm (14.00")	-	22.2 mm (.875")	SGS12876		
22.2 mm (.875")	400.0 mm (15.75")	-	22.2 mm (.875")	SGS14876		
22.2 mm (.875")	454.2 mm (17.88")	-	25.4 mm (1.00")	SGS16100		
CORING TINES						
18.0 mm	254.0 mm (10.00")	14.2 mm (.560")	19.0 mm (.750")	SGC10750*	SG715802	SGT10750
18.0 mm	203.2 mm (8.00")	18.8 mm (.740")	26.9 mm (1.06")	SGC08100H	SG715802	SGT08100H
18.0 mm	254.0 mm (10.00")	19.3 mm (.760")	25.4 mm (1.00")	SGC10100S	SG715802	SGT10100S
18.0 mm	254.0 mm (10.00")	18.8 mm (.740")	26.9 mm (1.06")	SGC10100H	SG715802	SGT10100H
18.0 mm	203.2 mm (8.00")	23.9 mm (.940")	33.3 mm (1.31")	SGC08125	SG715802	SGT08125
18.0 mm	304.8 mm (12.00")	23.9 mm (.940")	33.3 mm (1.31")	SGC12125	SG715802	SGT12125
22.2 mm (.875")	203.2 mm (8.00")	23.9 mm (.940")	33.3 mm (1.31")	SGC08123		SGT08125
22.2 mm (.875")	304.8 mm (12.00")	23.9 mm (.940")	33.3 mm (1.31")	SGC12123		SGT12125

*Adapter Sleeve is required.

ProCore SR75 HD (continued)

Mount	Length	Core Dia. (ID)	OD	Part Number	Adapter Sleeve	Replacement Tube
Adapter Head Kit 117-7198						
SOLID TINES						
12.0 mm	203.2 mm (8.00")	-	12.0 mm	SGS08500		
12.0 mm	273.1 mm (10.75")	-	12.0 mm	SGS10504		
12.0 mm	311.2 mm (12.25")	-	12.0 mm	SGS10500		
12.0 mm	361.9 mm (14.25")	-	12.0 mm	SGS12500		
12.0 mm	412.8 mm (16.25")	-	12.0 mm	SGS14500		
18.0 mm	311.2 mm (12.25")	-	18.0 mm	SGS10750		
18.0 mm	361.9 mm (14.25")	-	18.0 mm	SGS12750		
18.0 mm	412.8 mm (16.25")	-	18.0 mm	SGS14750		
18.0 mm	317.5 mm (12.50")	-	22.2 mm (.875")	SGS10875		
18.0 mm	355.6 mm (14.00")	-	22.2 mm (.875")	SGS12875		
18.0 mm	406.4 mm (16.00")	-	22.2 mm (.875")	SGS14875		
CORING TINES						
12.0 mm	177.8 mm (7.00")	13.2 mm (.520")	17.4 mm (.687")	SGC07625		SGT07625
12.0 mm	177.8 mm (7.00")	14.2 mm (.560")	20.7 mm (.813")	SGC07750		SGT07750
12.0 mm	254.0 mm (10.00")	14.2 mm (.560")	19.0 mm (.750")	SGC10755		SGT10750
12.0 mm	254.0 mm (10.00")	14.2 mm (.560")	20.6 mm (.810")	SGC10813H		SGT10813H
18.0 mm	254.0 mm (10.00")	14.2 mm (.560")	19.0 mm (.750")	SGC10750		SGT07625
18.0 mm	203.2 mm (8.00")	18.8 mm (.740")	26.9 mm (1.06")	SGC08100H		SGT08100H
18.0 mm	254.0 mm (10.00")	19.3 mm (.760")	25.4 mm (1.00")	SGC10100S		SGT10100S
18.0 mm	254.0 mm (10.00")	18.8 mm (.740")	26.9 mm (1.06")	SGC10100H		SGT10100H
18.0 mm	203.2 mm (8.00")	23.9 mm (.940")	33.3 mm (1.31")	SGC08125		SGT08125
18.0 mm	304.8 mm (12.00")	23.9 mm (.940")	33.3 mm (1.31")	SGC12125		SGT12125

Titan® Tines for Competitive Models

Easily Converts Titan Tines to 12.7 mm (.500") and 15.9 mm (.625") Mount

Toro conversion sleeves allow the complete selection of Toro tines to fit on most competitive equipment. The conversion sleeve slides onto a 9.5 mm (.375") mount Toro tine to create a 12.7 mm (.500") mount or 15.9 mm (.625") mount.

Part Number	Description	Mount
112-1300	Sleeve	12.7 mm (.500")
112-1301	Sleeve	15.9 mm (.625")

Competitive Models

9.5 mm (.375") Mounting Size					TITAN MAX		Ryan® GA 24/30/60	John Deere®
Length	Core Dia. (ID)	OD	Wall Thickness	Part Number	Part Number	Core Dia. (ID)		
TITAN QUAD AND MAX QUAD								
114.3 mm (4.50")	6.3 mm (.248")	9.1 mm (.360")	1.3 mm (.052")	108-9104	108-9112	5.8 mm (.230")	X	X
114.3 mm (4.50")	8.1 mm (.318")	11.6 mm (.458")	1.6 mm (.063")	108-9105	108-9114	7.1 mm (.280")	X	X
114.3 mm (4.50")	10.3 mm (.406")	13.9 mm (.546")	1.6 mm (.063")	108-9106	108-9116	9.7 mm (.380")	X	X
114.3 mm (4.50")	12.2 mm (.480")	14.7 mm (.580")	1.6 mm (.063")	108-9293			X	X
127.0 mm (5.00")	6.3 mm (.248")	9.1 mm (.360")	1.3 mm (.052")	108-9108	108-9120	5.8 mm (.230")	X	X
127.0 mm (5.00")	8.1 mm (.318")	11.6 mm (.458")	1.6 mm (.063")	108-9109	108-9122	7.1 mm (.280")	X	X
127.0 mm (5.00")	10.3 mm (.406")	13.9 mm (.546")	1.6 mm (.063")	108-9110	108-9124	9.7 mm (.380")	X	X
127.0 mm (5.00")	12.2 mm (.480")	14.7 mm (.580")	1.6 mm (.063")	108-9294			X	X
TITAN SOLID ROUND								
114.3 mm (4.50")	N/A	5.1 mm (.200")	N/A	108-9230			X	X
114.3 mm (4.50")	N/A	6.3 mm (.250")	N/A	108-9231			X	X
114.3 mm (4.50")	N/A	7.6 mm (.300")	N/A	108-9232			X	X
114.3 mm (4.50")	N/A	8.9 mm (.350")	N/A	108-9233			X	X
139.7 mm (5.50")	N/A	5.1 mm (.200")	N/A	108-9234			X	X
139.7 mm (5.50")	N/A	6.3 mm (.250")	N/A	108-9235			X	X
139.7 mm (5.50")	N/A	7.6 mm (.300")	N/A	108-9236			X	X
139.7 mm (5.50")	N/A	8.9 mm (.350")	N/A	108-9237			X	X
TITAN SOLID SLICING								
127.0 mm (5.00")	N/A	15.9 mm (.625")	N/A	108-9238			X	X
TITAN CROSS AND MAX CROSS								
114.3 mm (4.50")	N/A	9.5 mm (.375")	N/A	108-9215			X	X
114.3 mm (4.50")	N/A	12.7 mm (.500")	N/A	108-9216	112-1310		X	X
114.3 mm (4.50")	N/A	15.9 mm (.625")	N/A	108-9217			X	X

* Only available on GA 30/60 models

Titan® Conversion Sleeves

GENUINE TORO® PARTS

9.5 mm (.375") Mounting Size					TITAN MAX		Ryan® GA 24/30/60	John Deere®
Length	Core Dia. (ID)	OD	Wall Thickness	Part Number	Part Number	Core Dia. (ID)		
TITAN QUAD AND MAX QUAD								
139.7 mm (5.50")	N/A	9.5 mm (.375")	N/A	108-9218			X*	X
139.7 mm (5.50")	N/A	12.7 mm (.500")	N/A	108-9219	112-1311		X*	X
139.7 mm (5.50")	N/A	15.9 mm (.625")	N/A	108-9220			X*	X
12.7 mm (.500") Mounting Size								
TITAN QUAD AND MAX QUAD								
114.3 mm (4.50")	8.3 mm (.325")	11.6 mm (.458")	1.6 mm (.063")	112-1316	112-1322	7.1 mm (.280")	X	
TITAN SOLID ROUND								
114.3 mm (4.50")	N/A	12.7 mm (.500")	N/A	112-1347			X	
139.7 mm (5.50")	N/A	6.3 mm (.250")	N/A	112-1329			X	
139.7 mm (5.50")	N/A	9.7 mm (.380")	N/A	112-1330			X	
TITAN SOLID CROSS								
114.3 mm (4.50")	N/A	12.7 mm (.500")	N/A	112-5104			X	
139.7 mm (5.50")	N/A	12.7 mm (.500")	N/A	112-5105			X*	
TITAN SOLID SLICING								
127.0 mm (5.00")	N/A	15.9 mm (.625")	N/A	112-5102			X	
15.9 mm (.625") Mounting Size								
TITAN QUAD AND MAX QUAD								
114.3 mm (4.50")	8.3 mm (.325")	14.7 mm (.580")	1.4 mm (.055")	112-1316	112-1322	7.1 mm (.280")	X	
TITAN HOLLOW AND MAX HOLLOW								
114.3 mm (4.50")	10.9 mm (.430")	14.2 mm (.560")	1.5 mm (.058")	112-1306	112-1307	9.7 mm (.380")	X	
TITAN SIDE EJECT AND MAX SIDE EJECT								
114.3 mm (4.50")	10.9 mm (.430")	14.2 mm (.560")	1.5 mm (.058")	112-1303	112-1304	9.7 mm (.380")	X	
TITAN SOLID ROUND								
114.3 mm (4.50")	N/A	15.9 mm (.625")	N/A	112-1348		9.7 mm (.380")	X	

* Only available on GA 30/60 models

Competitive Models

Titan® Tines for Competitive Models

15.9 mm (.625") Mounting Size					TITAN MAX		Ryan® GA 24/30/60	John Deere®
Length	Core Dia. (ID)	OD	Wall Thickness	Part Number	Part Number	Core Dia. (ID)		
TITAN SOLID CROSS								
114.3 mm (4.50")	N/A	12.7 mm (.500")	N/A	112-5106			X	
139.7 mm (5.50")	N/A	12.7 mm (.500")	N/A	112-5107			X*	
TITAN SOLID SLICING								
127.0 mm (5.00")	N/A	15.9 mm (.625")	N/A	112-5103			X	
19.0 mm (.750") Mounting Size								
TITAN HOLLOW AND MAX HOLLOW								
120.6 mm (4.75")	7.1 mm (.280")	11.7 mm (.460")	1.5 mm (.058")	108-9128	108-9139	7.1 mm (.280")	X	X
120.6 mm (4.75")	10.3 mm (.406")	14.2 mm (.560")	1.5 mm (.058")	108-9129	108-9141	9.7 mm (.380")	X	X
120.6 mm (4.75")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	108-9130	108-9143	12.2 mm (.480")	X	X
146.0 mm (5.75")	7.1 mm (.280")	11.7 mm (.460")	1.5 mm (.058")	108-9132	108-9145	7.1 mm (.280")	X*	X
146.0 mm (5.75")	10.3 mm (.406")	14.2 mm (.560")	1.5 mm (.058")	108-9133	108-9147	9.7 mm (.380")	X*	X
146.0 mm (5.75")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	108-9134	108-9149	12.2 mm (.480")	X*	X
TITAN HOLLOW - EXTENDED TAPER								
146.0 mm (5.75")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	114-0551	114-0553	12.0 mm (.473")	X*	X
TITAN SIDE EJECT AND MAX SIDE EJECT								
120.6 mm (4.75")	7.1 mm (.280")	11.7 mm (.460")	1.4 mm (.055")	108-9159	108-9170	7.1 mm (.280")	X	
120.6 mm (4.75")	10.3 mm (.406")	14.2 mm (.560")	1.5 mm (.058")	108-9160	108-9172	9.7 mm (.380")	X	
120.6 mm (4.75")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	108-9161	108-9174	12.2 mm (.480")	X	
146.0 mm (5.75")	7.1 mm (.280")	11.7 mm (.460")	1.4 mm (.055")	108-9163	108-9176	7.1 mm (.280")		X
146.0 mm (5.75")	10.3 mm (.406")	14.2 mm (.560")	1.5 mm (.058")	108-9164	108-9178	9.7 mm (.380")		X
146.0 mm (5.75")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	108-9165	108-9180	12.2 mm (.480")		X
TITAN SIDE EJECT - EXTENDED TAPER								
146.0 mm (5.75")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	114-0555	114-0557	12.0 mm (.473")		X
TITAN HD FAIRWAY								
146.0 mm (5.75")	12.95 mm (.510")	17.8 mm (.700")	3.1 mm (.122")	108-9260			X*	X
146.0 mm (5.75")	12.95 mm (.510")	20.3 mm (.800")	3.1 mm (.122")	108-9261			X*	X
TITAN FAIRWAY								
146.0 mm (5.75")	15.9 mm (.625")	19.6 mm (.770")	3.0 mm (.120")	104-9876				X
146.0 mm (5.75")	19.0 mm (.750")	22.4 mm (.880")	3.0 mm (.120")	104-9875				X

* Only available on GA 30/60 models

19.0 mm (.750") Mounting Size					TITAN MAX		Ryan® GA 24/30/60	John Deere®
Length	Core Dia. (ID)	OD	Wall Thickness	Part Number	Part Number	Core Dia. (ID)		
CLASSIC TORO HOLLOW								
120.6 mm (4.75")	7.6 mm (.300")	11.1 mm (.438")	0.9 mm (.035")	59-3690			X	X
120.6 mm (4.75")	10.2 mm (.400")	12.7 mm (.500")	1.2 mm (.049")	66-9140			X	X
120.6 mm (4.75")	12.7 mm (.500")	15.9 mm (.625")	1.2 mm (.049")	59-3670			X	X
146.0 mm (5.75")	12.9 mm (.509")	15.9 mm (.625")	1.5 mm (.058")	104-0984			X*	X
TITAN SOLID ROUND								
114.3 mm (4.50")	N/A	6.3 mm (.250")	N/A	108-9198			X	X
114.3 mm (4.50")	N/A	7.6 mm (.300")	N/A	108-9199			X	X
114.3 mm (4.50")	N/A	8.9 mm (.350")	N/A	108-9200			X	X
114.3 mm (4.50")	N/A	10.2 mm (.400")	N/A	108-9201			X	X
114.3 mm (4.50")	N/A	12.7 mm (.500")	N/A	108-9202			X	X
114.3 mm (4.50")	N/A	15.2 mm (.600")	N/A	108-9203			X	X
139.7 mm (5.50")	N/A	6.3 mm (.250")	N/A	108-9204			X*	X
139.7 mm (5.50")	N/A	7.6 mm (.300")	N/A	108-9205			X*	X
139.7 mm (5.50")	N/A	8.9 mm (.350")	N/A	108-9206			X*	X
139.7 mm (5.50")	N/A	10.2 mm (.400")	N/A	108-9207			X*	X
139.7 mm (5.50")	N/A	12.7 mm (.500")	N/A	108-9208			X*	X
139.7 mm (5.50")	N/A	15.2 mm (.600")	N/A	108-9209			X*	X
139.7 mm (5.50")	N/A	19.0 mm (.750")	N/A	108-9244			X*	X
TORO SOLID SLICING								
114.3 mm (4.50")	N/A	19.0 mm (.750")	N/A	108-9239			X	X
139.7 mm (5.50")	N/A	19.0 mm (.750")	N/A	108-9240			X*	X
TITAN CROSS AND MAX CROSS								
114.3 mm (4.50")	N/A	12.7 mm (.500")	N/A	108-9221	112-1312		X	X
114.3 mm (4.50")	N/A	15.9 mm (.625")	N/A	108-9222			X	X
114.3 mm (4.50")	N/A	19.0 mm (.750")	N/A	108-9223			X	X
139.7 mm (5.50")	N/A	12.7 mm (.500")	N/A	108-9224	112-1313		X*	X
139.7 mm (5.50")	N/A	15.9 mm (.625")	N/A	108-9225			X*	X
139.7 mm (5.50")	N/A	19.0 mm (.750")	N/A	108-9226			X*	X

* Only available on GA 30/60 models

Competitive Models

Titan® Tines for Competitive Models

22.2 mm (.875") Mounting Size					TITAN MAX		Ryan® GA 24/30/60	John Deere®
Length	Core Dia. (ID)	OD	Wall Thickness	Part Number	Part Number	Core Dia. (ID)		
TITAN HOLLOW AND MAX HOLLOW								
120.6 mm (4.75")	13.0 mm (.512")	16.8 mm (.660")	1.5 mm (.058")	108-9190	108-9155	12.2 mm (.480")	X*	X
120.6 mm (4.75")	16.0 mm (.628")	19.3 mm (.760")	1.5 mm (.058")	108-9191			X*	X
146.0 mm (5.75")	13.0 mm (.512")	16.8 mm (.660")	1.5 mm (.058")	108-9192	108-9157	12.2 mm (.480")	X*	X
146.0 mm (5.75")	16.0 mm (.628")	19.3 mm (.760")	1.5 mm (.058")	108-9193			X*	X
TITAN SIDE EJECT AND MAX SIDE EJECT								
120.6 mm (4.75")	13.0 mm (.512")	16.8 mm (.660")	1.5 mm (.058")	108-9194	108-9186	12.2 mm (.480")	X*	X
120.6 mm (4.75")	16.0 mm (.628")	19.3 mm (.760")	1.5 mm (.058")	108-9195			X*	X
146.0 mm (5.75")	13.0 mm (.512")	16.8 mm (.660")	1.5 mm (.058")	108-9196	108-9188	12.2 mm (.480")	X*	X
146.0 mm (5.75")	16.0 mm (.628")	19.3 mm (.760")	1.5 mm (.058")	108-9197			X*	X
TITAN HD FAIRWAY								
146.0 mm (5.75")	16.3 mm (.640")	20.3 mm (.800")	3.1 mm (.122")	108-9264			X*	X
146.0 mm (5.75")	16.3 mm (.640")	23.4 mm (.920")	3.1 mm (.122")	108-9265			X*	X
TITAN FAIRWAY								
120.6 mm (4.75")	16.3 mm (.640")	20.3 mm (.800")	3.1 mm (.122")	92-7941			X	X
146.0 mm (5.75")	16.3 mm (.640")	20.3 mm (.800")	3.1 mm (.122")	92-7900			X*	X
146.0 mm (5.75")	16.3 mm (.640")	23.4 mm (.920")	3.0 mm (.120")	104-9877			X*	X
CLASSIC TORO HOLLOW								
120.6 mm (4.75")	15.2 mm (.600")	19.0 mm (.750")	1.7 mm (.065")	62-4600			X*	X
146.0 mm (5.75")	15.2 mm (.600")	19.0 mm (.750")	1.7 mm (.065")	86-9720			X*	X
TITAN SOLID ROUND								
139.7 mm (5.50")	N/A	19.0 mm (.750")	N/A	108-9246			X*	X
139.7 mm (5.50")	N/A	22.2 mm (.875")	N/A	108-9247			X*	X
TORO SOLID SLICING								
139.7 mm (5.50")	N/A	19.0 mm (.750")	N/A	108-9242			X*	X
TITAN CROSS AND MAX CROSS								
139.7 mm (5.50")	N/A	22.2 mm (.875")	N/A	108-9259			X*	X

* Only available on GA 30/60 models

Mount	Length	ID	OD	Wall Thickness	Part Number	Titan Max Part Number	Page Number
TITAN Quad and Max Quad							
12.7 mm (.500")	114.3 mm (4.50")	8.3 mm (.325")	11.6 mm (.458")	1.6 mm (.063")	112-1316	112-1322	49
9.5 mm (.375")	114.3 mm (4.50")	8.1 mm (.318")	11.6 mm (.458")	1.6 mm (.063")	108-9105	108-9114	13, 19, 25, 31, 48
9.5 mm (.375")	114.3 mm (4.50")	12.2 mm (.480")	14.7 mm (.580")	1.2 mm (.049")	108-9293		13, 19, 25, 31, 48
9.5 mm (.375")	114.3 mm (4.50")	6.3 mm (.248")	9.1 mm (.360")	1.3 mm (.052")	108-9104	108-9112	13, 19, 25, 31, 48
9.5 mm (.375")	114.3 mm (4.50")	10.3 mm (.406")	13.9 mm (.546")	1.5 mm (.058")	108-9106	108-9116	13, 19, 25, 31, 48
9.5 mm (.375")	127.0 mm (5.00")	8.1 mm (.318")	11.6 mm (.458")	1.4 mm (.055")	108-9109	108-9122	13, 19, 25, 48
9.5 mm (.375")	127.0 mm (5.00")	6.3 mm (.248")	9.1 mm (.360")	1.3 mm (.052")	108-9108	108-9120	13, 19, 25, 48
9.5 mm (.375")	127.0 mm (5.00")	10.3 mm (.406")	13.9 mm (.546")	1.5 mm (.058")	108-9110	108-9124	13, 19, 25, 48
9.5 mm (.375")	127.0 mm (5.00")	12.2 mm (.480")	14.7 mm (.580")	1.6 mm (.063")	108-9294		13, 19, 25, 48
9.5 mm (.375")	139.7 mm (5.50")	10.3 mm (.406")	14.7 mm (.580")	1.6 mm (.063")	108-9290		13, 19, 25, 48
TITAN Hollow and Max Hollow							
19.0 mm (.750")	120.6 mm (4.75")	7.1 mm (.280")	11.7 mm (.460")	1.5 mm (.058")	108-9128	108-9139	14, 20, 26, 32, 35, 50
19.0 mm (.750")	120.6 mm (4.75")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	108-9130	108-9143	14, 20, 26, 32, 35, 50
19.0 mm (.750")	120.6 mm (4.75")	10.3 mm (.406")	14.2 mm (.560")	1.5 mm (.058")	108-9129	108-9141	14, 20, 26, 32, 35, 50
19.0 mm (.750")	146.0 mm (5.75")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	108-9134	108-9149	14, 20, 26, 35, 50
19.0 mm (.750")	146.0 mm (5.75")	10.3 mm (.406")	14.2 mm (.560")	1.5 mm (.058")	108-9133	108-9147	14, 20, 26, 35, 50
19.0 mm (.750")	146.0 mm (5.75")	7.1 mm (.280")	11.7 mm (.460")	1.4 mm (.055")	108-9132	108-9145	14, 20, 26, 35, 50
19.0 mm (.750")	165.1 mm (6.50")	10.3 mm (.406")	14.2 mm (.560")	1.5 mm (.058")	108-9136	108-9151	14, 20
19.0 mm (.750")	165.1 mm (6.50")	7.1 mm (.280")	11.7 mm (.460")	1.5 mm (.058")	108-9138	108-9135	14, 20
19.0 mm (.750")	165.1 mm (6.50")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	108-9137	108-9153	14, 20
15.9 mm (.625")	114.3 mm (4.50")	12.7 mm (.500")	14.2 mm (.560")	1.5 mm (.058")	112-1306	112-1307	49
22.2 mm (.875")	120.6 mm (4.75")	13.0 mm (.512")	16.8 mm (.660")	1.5 mm (.058")	108-9190	108-9155	16, 22, 28, 33, 37, 52
22.2 mm (.875")	120.6 mm (4.75")	16.0 mm (.628")	19.3 mm (.760")	1.5 mm (.058")	108-9191		16, 22, 28, 33, 37, 52
22.2 mm (.875")	146.0 mm (5.75")	13.0 mm (.512")	16.8 mm (.660")	1.5 mm (.058")	108-9192	108-9157	16, 22, 28, 37, 52
22.2 mm (.875")	146.0 mm (5.75")	16.0 mm (.628")	19.3 mm (.760")	1.5 mm (.058")	108-9193		16, 22, 28, 37, 52
Toro Classic Hollow							
19.0 mm (.750")	120.6 mm (4.75")	10.2 mm (.400")	12.7 mm (.500")	1.2 mm (.049")	66-9140		15, 21, 27, 32, 35, 51
19.0 mm (.750")	120.6 mm (4.75")	7.6 mm (.300")	11.1 mm (.438")	0.9 mm (.035")	59-3690		15, 21, 27, 32, 35, 51
19.0 mm (.750")	120.6 mm (4.75")	12.7 mm (.500")	15.9 mm (.625")	1.2 mm (.049")	59-3670		15, 21, 27, 32, 35, 51
19.0 mm (.750")	139.7 mm (5.50")	10.2 mm (.400")	14.2 mm (.560")	1.2 mm (.049")	100-3634	108-9133	15, 21, 27, 51
19.0 mm (.750")	146.0 mm (5.75")	12.9 mm (.509")	15.9 mm (.625")	1.5 mm (.058")	104-0984		15, 21, 27, 35, 51
19.0 mm (.750")	165.1 mm (6.50")	9.8 mm (.384")	12.7 mm (.500")	1.5 mm (.058")	105-1180		15, 21
19.0 mm (.750")	165.1 mm (6.50")	12.9 mm (.509")	15.9 mm (.625")	1.5 mm (.058")	106-8943		15, 21
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19.0 mm (.750")	146.0 mm (5.75")	11.9 mm (.470")	17.3 mm (.680")	1.5 mm (.058")	114-0553		14, 20, 26, 35, 50
19.0 mm (.750")	146.0 mm (5.75")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	114-0551	114-0553	14, 20, 26, 35, 50
19.0 mm (.750")	165.1 mm (6.50")	11.9 mm (.470")	17.3 mm (.680")	1.5 mm (.058")	114-0561		14, 20
19.0 mm (.750")	165.1 mm (6.50")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	114-0550	114-0561	14, 20
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19.0 mm (.750")	120.6 mm (4.75")	7.1 mm (.280")	11.7 mm (.460")	1.4 mm (.055")	108-9159	108-9170	14, 20, 26, 32, 35, 50
19.0 mm (.750")	120.6 mm (4.75")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	108-9161	108-9174	14, 20, 26, 32, 35, 50
19.0 mm (.750")	120.6 mm (4.75")	10.3 mm (.406")	14.2 mm (.560")	1.5 mm (.058")	108-9160	108-9172	14, 20, 26, 32, 35, 50
19.0 mm (.750")	146.0 mm (5.75")	7.1 mm (.280")	11.7 mm (.460")	1.4 mm (.055")	108-9163	108-9176	14, 20, 26, 35, 50
19.0 mm (.750")	146.0 mm (5.75")	10.3 mm (.406")	14.2 mm (.560")	1.5 mm (.058")	108-9164	108-9178	14, 20, 26, 35, 50
19.0 mm (.750")	146.0 mm (5.75")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	108-9165	108-9180	14, 20, 26, 35, 50
19.0 mm (.750")	165.1 mm (6.50")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	108-9168	108-9184	14, 20
19.0 mm (.750")	165.1 mm (6.50")	7.1 mm (.280")	11.7 mm (.460")	1.4 mm (.055")	108-9162	108-9166	14, 20
19.0 mm (.750")	165.1 mm (6.50")	10.3 mm (.406")	14.2 mm (.560")	1.5 mm (.058")	108-9167	108-9182	14, 20
15.9 mm (.625")	114.3 mm (4.50")	12.7 mm (.500")	14.2 mm (.560")	1.5 mm (.058")	112-1303	112-1304	49
22.2 mm (.875")	120.6 mm (4.75")	13.0 mm (.512")	16.8 mm (.660")	1.5 mm (.058")	108-9194	108-9186	17, 22, 28, 33, 37, 52
22.2 mm (.875")	120.6 mm (4.75")	16.0 mm (.628")	19.3 mm (.760")	1.5 mm (.058")	108-9195		17, 22, 28, 33, 37, 52
22.2 mm (.875")	146.0 mm (5.75")	13.0 mm (.512")	16.8 mm (.660")	1.5 mm (.058")	108-9196	108-9188	17, 22, 28, 37, 52
22.2 mm (.875")	146.0 mm (5.75")	16.0 mm (.628")	19.3 mm (.760")	1.5 mm (.058")	108-9197		17, 22, 28, 37, 52
TITAN Side Eject Extended Taper and Extended Taper Max							
19.0 mm (.750")	146.0 mm (5.75")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	114-0555	114-0557	14, 20, 26, 35, 50
19.0 mm (.750")	165.1 mm (6.50")	13.4 mm (.528")	16.8 mm (.660")	1.5 mm (.058")	114-0558	114-0560	14, 20
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19.0 mm (.750")	146.0 mm (5.75")	19.0 mm (.750")	20.3 mm (.800")	3.1 mm (.122")	104-9875		15, 21, 26, 35, 50
19.0 mm (.750")	146.0 mm (5.75")	15.9 mm (.625")	17.8 mm (.700")	2.7 mm (.105")	104-9876		15, 21, 26, 35, 50
22.2 mm (.875")	120.6 mm (4.75")	16.1 mm (.635")	20.3 mm (.800")	3.1 mm (.122")	92-7941		17, 23, 28, 33, 37, 52
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22.2 mm (.875")	146.0 mm (5.75")	19.0 mm (.750")	20.3 mm (.800")	3.1 mm (.122")	92-7900		17, 23, 28, 37, 52
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19.0 mm (.750")	146.0 mm (5.75")	12.95 mm (.510")	20.3 mm (.800")	3.1 mm (.122")	108-9261		15, 20, 26, 35, 50
22.2 mm (.875")	146.0 mm (5.75")	19.0 mm (.750")	20.3 mm (.800")	3.1 mm (.122")	108-9264		17, 23, 37, 52
22.2 mm (.875")	146.0 mm (5.75")	22.2 mm (.875")	23.4 mm (.920")	3.1 mm (.122")	108-9265		17, 23, 37, 52

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9.5 mm (.375")	114.3 mm (4.50")	-	12.7 mm (.500")	-	108-9216	112-1310	13, 19, 25, 31, 48
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9.5 mm (.375")	273.1 mm (10.75")	-	9.5 mm (.375")	SGS10374	SGA12375		39, 40, 41, 42, 43, 44
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18.0 mm Long	254.0 mm (10.00")	25.4 mm (1.00")	25.4 mm (1.00")	SGC10100S		SGT10100S	39, 44, 46, 47
18.0 mm Long	254.0 mm (10.00")	25.4 mm (1.00")	26.9 mm (1.06")	SGC10100H		SGT10100H	39, 44, 46, 47
18.0 mm Long	304.8 mm (12.00")	33.3 mm (1.31")	31.7 mm (1.25")	SGC12125		SGT12125	39, 44, 46, 47
18.0 mm Long	203.2 mm (8.00")	25.4 mm (1.00")	26.9 mm (1.06")	SGC08100H		SGT08100H	39, 44, 46, 47
18.0 mm Long	203.2 mm (8.00")	33.3 mm (1.31")	31.7 mm (1.25")	SGC08125		SGT08125	39, 44, 46, 47
18.0 mm	311.2 mm (12.25")	-	18.0 mm	SGS10750			39, 44, 46, 47
18.0 mm	317.5 mm (12.50")	-	22.2 mm (.875")	SGS10875			39, 44, 46, 47
18.0 mm	355.6 mm (14.00")	-	22.2 mm (.875")	SGS12875			39, 44, 46, 47
18.0 mm	361.9 mm (14.25")	-	18.0 mm	SGS12750			39, 44, 46, 47
18.0 mm	406.4 mm (16.00")	-	22.2 mm (.875")	SGS14875			39, 44, 46, 47
18.0 mm	412.8 mm (16.25")	-	18.0 mm	SGS14750			39, 44, 46, 47
22.2 mm (.875")	304.8 mm (12.00")	33.3 mm (1.31")	31.7 mm (1.25")	SGC12123		SGT12125	46
22.2 mm (.875")	203.2 mm (8.00")	33.3 mm (1.31")	31.7 mm (1.25")	SGC08123		SGT08125	46
22.2 mm (.875")	317.5 mm (12.50")	-	22.2 mm (.875")	SGS10876			46
22.2 mm (.875")	355.6 mm (14.00")	-	22.2 mm (.875")	SGS12876			46
22.2 mm (.875")	400.0 mm (15.75")	-	22.2 mm (.875")	SGS14876			46
22.2 mm (.875")	454.2 mm (17.88")	-	25.4 mm (1.00")	SGS16100			46

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