



# 2019-2020 | TORO® TITAN® TINES CATALOG





# PLAN YOUR AERATION SCHEDULE TODAY

Contact Your Local Toro Distributor

# TABLE OF CONTENTS

<b>INTRODUCTION</b> .....	1-2
<b>A TINE TO FIT EVERY APPLICATION</b> .....	2
<b>SELECTION &amp; MEASUREMENT GUIDE</b> .....	3
<b>TINE HEAD IDENTIFICATION GUIDE</b> .....	4
<b>AERATION EVALUATION GUIDE</b> .....	5-8
<b>PROCORE® 648</b> .....	9-13
<b>PROCORE 864/1298</b> .....	14-18
<b>PROCORE 440/660/880</b> .....	19-22
<b>GREENS AERATOR</b> .....	23-25
<b>FAIRWAY AERATOR</b> .....	26-29
<b>TURF AERATOR 686/687</b> .....	30
<b>PROCORE SR SERIES</b> .....	31-39
SR48 .....	32
SR54 .....	33
SR54-S .....	34
SR70 .....	35
SR70-S .....	36
SR72 .....	37
SR75 .....	38-39
<b>TITAN® TINE CONVERSION SLEEVES</b> .....	40
<b>TITAN TINES FOR COMPETITIVE MODELS</b> .....	40-44
<b>QUICK REFERENCE</b> .....	47-50

# EXACT STANDARDS



## AERATION IMPROVES TURF 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
<b>Toro Classic</b>	Standard durable heat treated tip	Good	Good quality in most turf conditions	Thin wall delivers durability and exceptional performance
<b>TITAN</b>	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
<b>TITAN Max</b>	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
<b>TITAN Fairway</b>	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
<b>TITAN HD Fairway</b>	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.

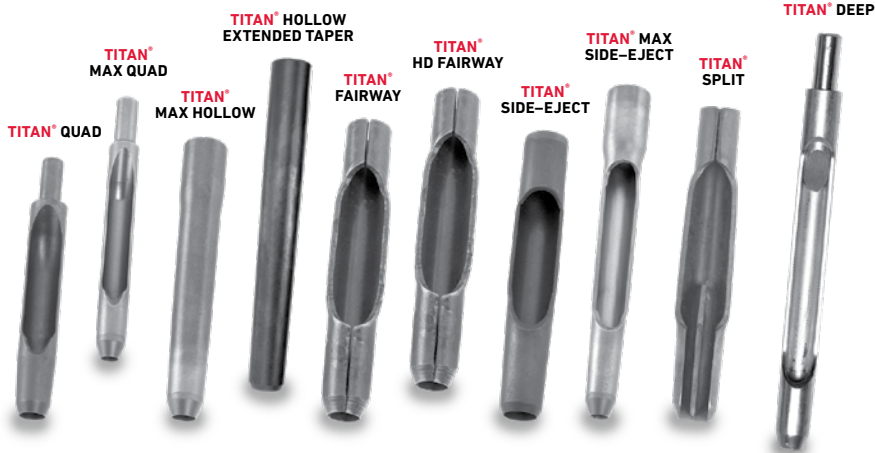
Jump-start your productivity with the TITAN QuickChange™ tine head. The patent-pending taper-lock design makes changing tines a snap. In fact, many users have reduced set-up time by up to 75%. TITAN QuickChange will help you get your aeration done FAST!



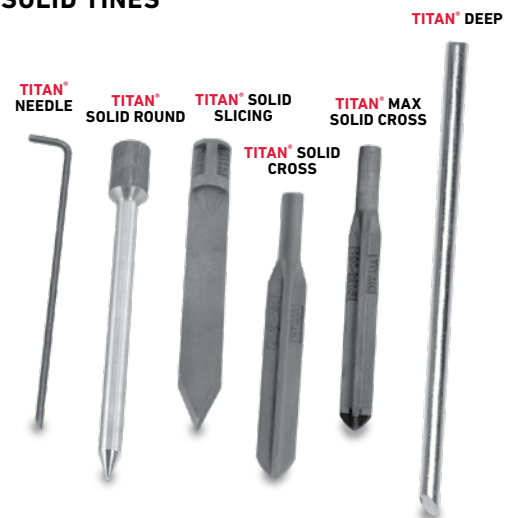
## TORO TITAN TINES OFFER

- 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

## CORING TINES

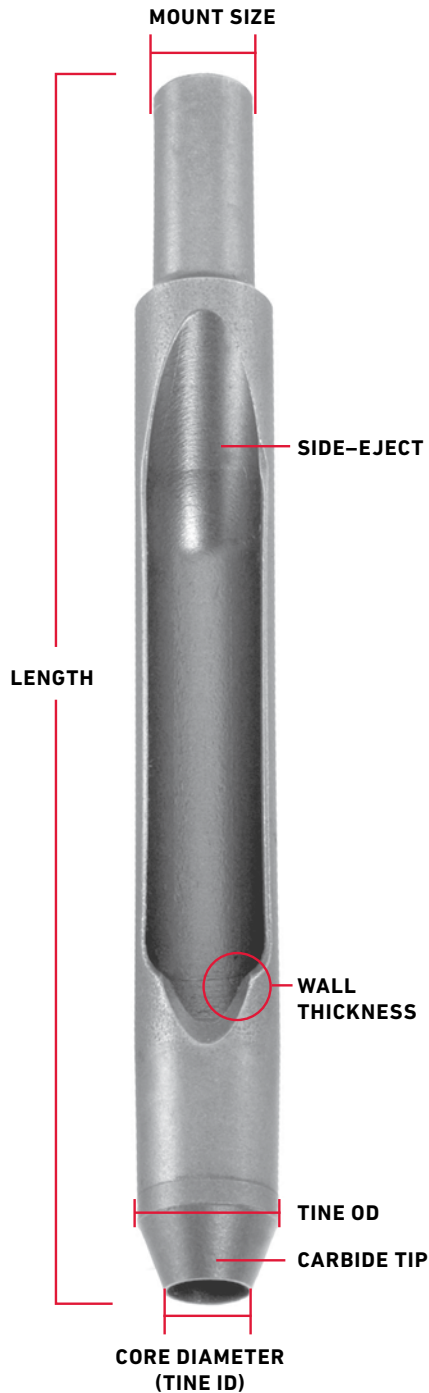


## SOLID TINES



## MEASUREMENT & IDENTIFICATION GUIDE

# SELECTION & MEASUREMENT



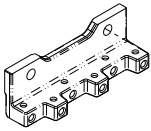
### U.S. STANDARD SIZES

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

TITAN<sup>®</sup> TINES fit all current and late model Toro<sup>®</sup> aerators. Standard mount size fits most competitor equipment. Check mounting size to ensure compatibility. Prices subject to change without notice.

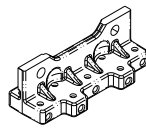
## TINE HEAD IDENTIFICATION GUIDE

### PROCORE 648/864/1298 (See pages 9–18)



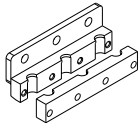
#### QUAD TINE HEAD (1x6)

Tine Mount	9.5 mm (.375")
Qty. of Tines	6



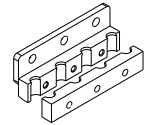
#### QUAD TINE HEAD (2x5)

Tine Mount	9.5 mm (.375")
Qty. of Tines	10



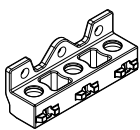
#### 3/4" 3-TINE HEAD

Tine Mount	19.0 mm (.750")
Qty. of Tines	3



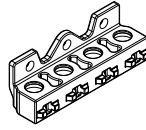
#### 3/4" 4-TINE HEAD

Tine Mount	19.0 mm (.750")
Qty. of Tines	4



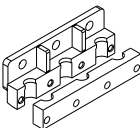
#### QUICKCHANGE 3-TINE HEAD

Tine Mount	19.0 mm (.750") or 22.2 mm (.875")
Qty. of Tines	3



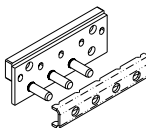
#### QUICKCHANGE 4-TINE HEAD

Tine Mount	19.0 mm (.750") or 22.2 mm (.875")
Qty. of Tines	4



#### 7/8" 3-TINE HD HEAD

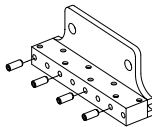
Tine Mount	22.2 mm (.875")
Qty. of Tines	3



#### NEEDLE TINE HEAD

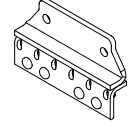
Tine Mount	Needle
Qty. of Tines	5

### PROCORE 440/660/880 (See pages 19–22)



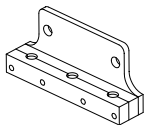
#### QUAD TINE HEAD (1x6)

Tine Mount	9.5 mm (.375")
Qty. of Tines	8



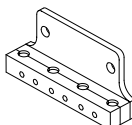
#### NEEDLE TINE HEAD

Tine Mount	Needle
Qty. of Tines	6



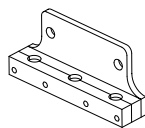
#### 3/4" 3-TINE HEAD

Tine Mount	19.0 mm (.750")
Qty. of Tines	3



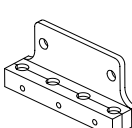
#### 3/4" 4-TINE HEAD

Tine Mount	19.0 mm (.750")
Qty. of Tines	4



#### 7/8" 3-TINE HEAD

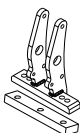
Tine Mount	22.2 mm (.875")
Qty. of Tines	3



#### 7/8" 4-TINE HEAD

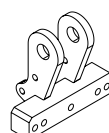
Tine Mount	22.2 mm (.875")
Qty. of Tines	4

### PROCORE SR SERIES (See pages 31–39)



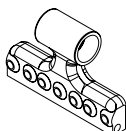
#### SR54-S / SR70-S

Tine Mount	7.9 mm (.3125") or 12.0 mm (.472")
Qty. of Tines	3 or 4



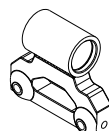
#### SR54 / SR70

Tine Mount	7.9 mm (.3125") or 12.0 mm (.472")
Qty. of Tines	2 or 3



#### SR48 / SR72

Tine Mount	7.9 mm (.3125") or 12.0 mm (.472")
Qty. of Tines	3 or 4



#### SR75

Tine Mount	7.9 mm (.3125") or 12.0 mm (.472")
Qty. of Tines	2 or 3

## AERATION EVALUATION GUIDE WITH TINE SELECTION CHART



### TINE SELECTION CHART:

- Speed and ease of use
- Selection of proper turf guard based on aerator and tine configuration needs.
- Quickly identify the amount of soil removed and the percentage of surface area affected.



# AERATION EVALUATION GUIDE WITH TINE SELECTION CHART

When you're looking to keep your golf course and grounds in top shape, you need a system that helps you quickly choose the right treatment for your turf needs.

Aeration is the key and the tine selection chart offers you fast answers that convey exactly what you need to do to keep your turf looking great.

The tine selection guide makes it easy to choose and understand the right solution for your golf course and ground needs!



## Preparing for Step One: Find Your Model Number

MODEL CONFIGURATION				
Product	Description No.	No.	Lateral Options (cm)	Forward Spacing (cm)
<b>ProCore 648</b> Model 09200 <b>ProCore 864/1298</b> 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
<b>ProCore 440/660/880</b> 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
<b>Toro Greens Aerator</b> 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		
<b>Toro Fairway Aerator</b> Models 09500, 09501, 09502			8,9	7,6; 15,2
			13,3	7,6; 15,2

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

# DETERMINE THE TOTAL SURFACE AREA AFFECTED & AMOUNT OF MATERIAL REMOVED

## STEP ONE FIND HOLES PER SQUARE METRE

If you know your lateral and forward spacing — See the Holes Per Square Metre table.

If you are not sure of your forward and lateral spacing, but know your aerator model number use the Preparing for Step One chart on the previous page and pick your spacing options. This table will also help you determine the proper turf holder based on your tine configuration.

### Step One Example:

- Lateral Spacing = 5,1 cm
- Forward Spacing = 5,1 cm
- Holes Per Square Metre = 384,5

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)	HOLES PER SQUARE METRE								
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

## Percent Of Surface Area Affected And Amount Of Volume Removed

Core Diameter (cm) Depth*	Holes Per													
	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
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	0,014	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	0,018	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	0,021	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	0,025	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	0,029	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.





## STEP TWO

### DETERMINE THE TOTAL SURFACE AREA AFFECTED AND VOLUME OF SOIL REMOVED

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.

#### Step Two 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

-  Volume Removed, Cubic Metres Per 100 Square Metre
-  Risk Of Turf Damage
-  Higher Risk Of Turf Damage
-  Percent Of Surface Area Affected

Square Metre																
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%	1,79%	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	0,286	0,301	0,316	0,378	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	0,667	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.

# PROCORE® 648

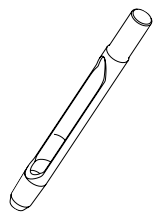


## TINE HEADS & TURF GUARDS

TINE HEADS		TINES REQ'D		TURF GUARDS		
Description	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.
Needle Tine Head	09739	30	120-1047	2	120-1052	1
Quad Tine 3/8" Mount Head, 2 rows of 5	09736	60	120-1047	2	120-1052	1
Quad Tine 3/8" Mount Head, 1 row of 6	09737	36	120-1050	2	120-1053	1
3 Tine, 3/4" Mount Head	09794	18	120-1044	2	110-4358	1
4 Tine, 3/4" Mount Head	09796	24	120-1045	2	120-1046	1
3 Tine HD, 7/8" Mount Head	09797	18	120-1044	2	110-4358	1
3 Tine, Titan 3/4" or 7/8" Mount QuickChange Head	09711	18	120-1044	2	110-4358	1
4 Tine, Titan 3/4" or 7/8" Mount QuickChange Head	09719	24	120-1045	2	120-1046	1

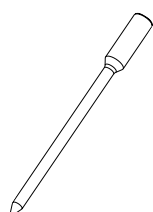
3/8" MOUNT

TITAN QUAD



Length	Core Dia. (ID)	OD	Wall Thickness	Part Number
114,3 mm (4.50")	6,3 mm (.248")	9,1 mm (.360")	1,3 mm (.052")	108-9104
114,3 mm (4.50")	8,1 mm (.318")	11,6 mm (.458")	1,6 mm (.063")	108-9105
114,3 mm (4.50")	10,3 mm (.406")	13,9 mm (.546")	1,6 mm (.063")	108-9106
114,3 mm (4.50")	12,2 mm (.480")	14,7 mm (.580")	1,2 mm (.049")	108-9293
127,0 mm (5.00")	6,3 mm (.248")	9,1 mm (.360")	1,3 mm (.052")	108-9108
127,0 mm (5.00")	8,1 mm (.318")	11,6 mm (.458")	1,6 mm (.063")	108-9109
127,0 mm (5.00")	10,3 mm (.406")	13,9 mm (.546")	1,6 mm (.063")	108-9110
127,0 mm (5.00")	12,2 mm (.480")	14,7 mm (.580")	1,2 mm (.049")	108-9294
139,7 mm (5.50")	10,3 mm (.406")	14,7 mm (.580")	1,6 mm (.063")	108-9290

TITAN SOLID ROUND



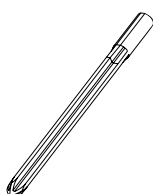
114,3 mm (4.50")	N/A	5,1 mm (.200")	N/A	108-9230
114,3 mm (4.50")	N/A	6,3 mm (.250")	N/A	108-9231
114,3 mm (4.50")	N/A	7,6 mm (.300")	N/A	108-9232
114,3 mm (4.50")	N/A	9,7 mm (.380")	N/A	108-9233
139,7 mm (5.50")	N/A	5,1 mm (.200")	N/A	108-9234
139,7 mm (5.50")	N/A	6,3 mm (.250")	N/A	108-9235
139,7 mm (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
------------------	-----	-----------------	-----	----------

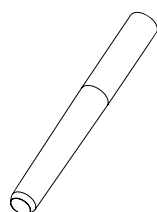
TITAN CROSS



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
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
139,7 mm (5.50")	N/A	15,9 mm (.625")	N/A	108-9220

3/4" MOUNT

TITAN HOLLOW



120,6 mm (4.75")	7,1 mm (.280")	11,7 mm (.460")	1,5 mm (.058")	108-9128
120,6 mm (4.75")	10,3 mm (.406")	14,2 mm (.560")	1,5 mm (.058")	108-9129
120,6 mm (4.75")	13,4 mm (.528")	16,8 mm (.660")	1,5 mm (.058")	108-9130
146,0 mm (5.75")	7,1 mm (.280")	11,7 mm (.460")	1,5 mm (.058")	108-9132
146,0 mm (5.75")	10,3 mm (.406")	14,2 mm (.560")	1,5 mm (.058")	108-9133
146,0 mm (5.75")	13,4 mm (.528")	16,8 mm (.660")	1,5 mm (.058")	108-9134
165,1 mm (6.50")	7,1 mm (.280")	11,7 mm (.460")	1,5 mm (.058")	108-9138
165,1 mm (6.50")	10,3 mm (.406")	14,2 mm (.560")	1,5 mm (.058")	108-9136
165,1 mm (6.50")	13,4 mm (.528")	16,8 mm (.660")	1,5 mm (.058")	108-9137

TITAN HOLLOW EXT. TAPER



146,0 mm (5.75")	13,4 mm (.528")	16,8 mm (.660")	1,5 mm (.058")	114-0551
165,1 mm (6.50")	13,4 mm (.528")	16,8 mm (.660")	1,5 mm (.058")	114-0550

TITAN® Max

Part Number	Titan Max Core ID
108-9112	5,8 mm (.230")
108-9114	7,1 mm (.280")
108-9116	9,7 mm (.380")
-	-
108-9120	5,8 mm (.230")
108-9122	7,1 mm (.280")
108-9124	9,7 mm (.380")
-	-
-	-

-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-

-	-
---	---

CROSS MAX

-	-
112-1310	-
-	-
-	-
112-1311	-
-	-

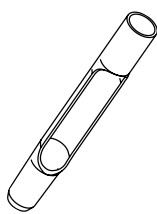
TITAN® Max

Part Number	Titan Max Core ID
108-9139	7,1 mm (.280")
108-9141	9,7 mm (.380")
108-9143	12,2 mm (.480")
-	-
108-9147	9,7 mm (.380")
108-9149	12,2 mm (.480")
108-9135	7,1 mm (.280")
108-9151	9,7 mm (.380")
108-9153	12,2 mm (.480")


HOLLOW EXT. TAPER MAX

114-0553	12,0 mm (.473")
-	-

**3/4" MOUNT – CONTINUED**

	Length	Core Dia. (ID)	OD	Wall Thickness	Part Number
	120,6 mm (4.75")	7,1 mm (.280")	11,7 mm (.460")	1,5 mm (.058")	108-9159
	120,6 mm (4.75")	10,3 mm (.406")	14,2 mm (.560")	1,5 mm (.058")	108-9160
	120,6 mm (4.75")	13,4 mm (.528")	16,8 mm (.660")	1,5 mm (.058")	108-9161
	146,0 mm (5.75")	7,1 mm (.280")	11,7 mm (.460")	1,5 mm (.058")	108-9163
	146,0 mm (5.75")	10,3 mm (.406")	14,2 mm (.560")	1,5 mm (.058")	108-9164
	146,0 mm (5.75")	13,4 mm (.528")	16,8 mm (.660")	1,5 mm (.058")	108-9165
	165,1 mm (6.50")	7,1 mm (.280")	11,7 mm (.460")	1,5 mm (.058")	108-9162
	165,1 mm (6.50")	10,3 mm (.406")	14,2 mm (.560")	1,5 mm (.058")	108-9167
	165,1 mm (6.50")	13,4 mm (.528")	16,8 mm (.660")	1,5 mm (.058")	108-9168


**TITAN SIDE EJECT EXT. TAPER**

	146,0 mm (5.75")	13,4 mm (.528")	16,8 mm (.660")	1,5 mm (.058")	114-0555
	165,1 mm (6.50")	13,4 mm (.528")	16,8 mm (.660")	1,5 mm (.058")	114-0558


**TITAN SPLIT**

	146,0 mm (5.75")	12,9 mm (.509")	22,4 mm (.880")	3,0 mm (.120")	112-5122
---	------------------	-----------------	-----------------	----------------	----------


**TITAN FAIRWAY HD**

	146,0 mm (5.75")	12,95 mm (.510")	19,6 mm (.770")	3,0 mm (.120")	108-9260
	146,0 mm (5.75")	12,95 mm (.510")	22,4 mm (.880")	3,0 mm (.120")	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**

	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")	9,9 mm (.390")	16,8 mm (.660")	1,5 mm (.058")	105-1180

**TITAN® Max**

Part Number	Titan Max Core ID
108-9170	7,1 mm (.280")
108-9172	9,7 mm (.380")
108-9174	12,2 mm (.480")
108-9176	7,1 mm (.280")
108-9178	9,7 mm (.380")
108-9180	12,2 mm (.480")
108-9166	7,1 mm (.280")
108-9182	9,7 mm (.380")
108-9184	12,2 mm (.480")

**SIDE EJECT EXT. TAPER MAX**

114-0557	12,0 mm (.473")
114-0560	12,0 mm (.473")

-	-
---	---


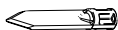
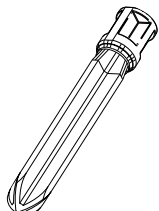
-	-
-	-

-	-
-	-



-	-
-	-
-	-
-	-

3/4" MOUNT – CONTINUED

TITAN® Max

	Length	Core Dia. (ID)	OD	Wall Thickness	Part Number	Part Number	Titan Max Core ID
<b>TITAN SOLID ROUND</b>							
	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	-	-	
<b>TITAN SOLID SLICING</b>							
	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	-	-
<b>TITAN CROSS</b>							
	114,3 mm (4.50")	N/A	12,7 mm (.500")	N/A	108-9221	-	-
	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	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	-	-
<b>CROSS MAX</b>							


7/8" MOUNT

	Length	Core Dia. (ID)	OD	Wall Thickness	Part Number
<b>TITAN HOLLOW</b>					
	120,6 mm (4.75")	13,0 mm (.512")	16,8 mm (.660")	1,5 mm (.058")	108-9190
	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
	146,0 mm (5.75")	16,0 mm (.628")	19,3 mm (.760")	1,5 mm (.058")	108-9193
<b>TITAN SIDE EJECT</b>					
	120,6 mm (4.75")	13,0 mm (.512")	16,8 mm (.660")	1,5 mm (.058")	108-9194
	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
	146,0 mm (5.75")	16,0 mm (.628")	19,3 mm (.760")	1,5 mm (.058")	108-9197
<b>TITAN SPLIT</b>					
	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
<b>CLASSIC</b>					
	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
<b>TITAN FAIRWAY HD</b>					
	146,0 mm (5.75")	16,1 mm (.635")	22,4 mm (.880")	3,1 mm (.122")	108-9264
	146,0 mm (5.75")	16,1 mm (.635")	25,4 mm (1.00")	3,1 mm (.122")	108-9265
<b>TITAN FAIRWAY</b>					
	120,6 mm (4.75")	16,1 mm (.635")	22,4 mm (.880")	3,1 mm (.122")	92-7941
	146,0 mm (5.75")	16,1 mm (.635")	22,4 mm (.880")	3,1 mm (.122")	92-7900
	146,0 mm (5.75")	16,1 mm (.635")	25,4 mm (1.00")	3,0 mm (.120")	104-9877
<b>TITAN SOLID ROUND</b>					
	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
<b>TITAN SOLID SLICING</b>					
	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
<b>TITAN CROSS</b>					
	139,7 mm (5.50")	N/A	22,2 mm (.875")	N/A	108-9259

TITAN® Max

Part Number	Titan Max Core ID
<b>HOLLOW MAX</b>	
-	-
-	-
-	-
<b>SIDE EJECT MAX</b>	
-	-
-	-
108-9188	12,2 mm (.480")
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-

NEEDLE TINE

	Length	Core Dia. (ID)	OD	Wall Thickness	Part Number
	163,3 mm (6.43")	N/A	5,0 mm (.197")	N/A	100-3620
	187,5 mm (7.38")	N/A	8,0 mm (.315")	N/A	100-3621
	137,9 mm (5.43")	N/A	5,0 mm (.197")	N/A	125-3319

Requires Needle Tine Head
Requires Needle Tine Head
Requires Needle Tine Head



# PROCORE® 864 / 1298

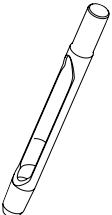


## TINE HEADS & TURF GUARDS


TINE HEADS		TINES REQ'D		TURF GUARDS		
Description	Part No.	Qty. 864	Qty. 1298	Part No.	Qty. 864	Qty. 1298
Quad Tine Head, 2 rows of 5 9,5 mm (.375") Mount	09736	80	120	120-1047 120-1052 110-4367 110-4368	2 - 1 1	4 2 - -
Quad Tine Head, 1 row of 6 9,5 mm (.375") Mount	09737	48	72	120-1050 120-1053 115-2801 115-2802	2 - 1 1	4 2 - -
4 Tine Titan QuickChange 19,0 mm (.750") or 22,2 mm (.875") Sleeve	09719	32	48	120-1045 120-1046 110-4363 110-4364	2 - 1 1	4 2 - -
3 Tine Titan QuickChange 19,0 mm (.750") or 22,2 mm (.875") Sleeve	09711	24	36	120-1044 110-4358 110-4359 110-4360	2 - 1 1	4 2 - -

TINE HEADS		TINES REQ'D		TURF GUARDS		
Description	Part No.	Qty. 864	Qty. 1298	Part No.	Qty. 864	Qty. 1298
Needle Tine Head	09739	40	60	120-1047 120-1052 110-4367 110-4368	2 - 1 1	4 2 - -
3 Tine Head 19,0 mm (.750") Mount	09794	24	36	120-1044 110-4358 115-4359 115-4360	2 - 1 1	4 2 - -
4 Tine Head 19,0 mm (.750") Mount	09796	32	48	120-1045 120-1046 110-4363 110-4364	2 - 1 1	4 2 - -
3 Tine Head HD 22,2 mm (.875") Mount	09797	24	36	120-1044 110-4358 110-4359 110-4360	2 - 1 1	4 2 - -

**3/8" MOUNT**

	Length	Core Dia. (ID)	OD	Wall Thickness	Part Number
	114,3 mm (4.50")	6,3 mm (.248")	9,1 mm (.360")	1,3 mm (.052")	108-9104
	114,3 mm (4.50")	8,1 mm (.318")	11,6 mm (.458")	1,6 mm (.063")	108-9105
	114,3 mm (4.50")	10,3 mm (.406")	13,9 mm (.546")	1,6 mm (.063")	108-9106
	114,3 mm (4.50")	12,2 mm (.480")	14,7 mm (.580")	1,2 mm (.049")	108-9293
	127,0 mm (5.00")	6,3 mm (.248")	9,1 mm (.360")	1,3 mm (.052")	108-9108
	127,0 mm (5.00")	8,1 mm (.318")	11,6 mm (.458")	1,6 mm (.063")	108-9109
	127,0 mm (5.00")	10,3 mm (.406")	13,9 mm (.546")	1,6 mm (.063")	108-9110
	127,0 mm (5.00")	12,2 mm (.480")	14,7 mm (.580")	1,2 mm (.049")	108-9294
	139,7 mm (5.50")	10,3 mm (.406")	13,9 mm (.546")	1,6 mm (.063")	108-9290

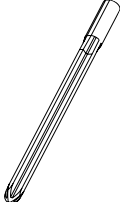
**TITAN SOLID ROUND**

	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

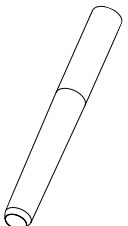
**TITAN SOLID SLICING**

	127,0 mm (5.00")	N/A	15,9 mm (.625")	N/A	108-9238
---	------------------	-----	-----------------	-----	----------

**TITAN 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
	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
	139,7 mm (5.50")	N/A	15,9 mm (.625")	N/A	108-9220

**3/4" MOUNT**

	Length	Core Dia. (ID)	OD	Wall Thickness	Part Number
	120,6 mm (4.75")	7,1 mm (.280")	11,7 mm (.460")	1,5 mm (.058")	108-9128
	120,6 mm (4.75")	10,3 mm (.406")	14,2 mm (.560")	1,5 mm (.058")	108-9129
	120,6 mm (4.75")	13,4 mm (.528")	16,8 mm (.660")	1,5 mm (.058")	108-9130
	146,0 mm (5.75")	7,1 mm (.280")	11,7 mm (.460")	1,5 mm (.058")	108-9132
	146,0 mm (5.75")	10,3 mm (.406")	14,2 mm (.560")	1,5 mm (.058")	108-9133
	146,0 mm (5.75")	13,4 mm (.528")	16,8 mm (.660")	1,5 mm (.058")	108-9134
	165,1 mm (6.50")	7,1 mm (.280")	11,7 mm (.460")	1,5 mm (.058")	108-9138
	165,1 mm (6.50")	10,3 mm (.406")	14,2 mm (.560")	1,5 mm (.058")	108-9136
	165,1 mm (6.50")	13,4 mm (.528")	16,8 mm (.660")	1,5 mm (.058")	108-9137

**TITAN® Max**

Part Number	Titan Max Core ID
<b>QUAD MAX</b>	
108-9112	5,8 mm (.230")
108-9114	7,1 mm (.280")
108-9116	9,7 mm (.380")
-	-
108-9120	5,8 mm (.230")
108-9122	7,1 mm (.280")
108-9124	9,7 mm (.380")
-	-
-	-


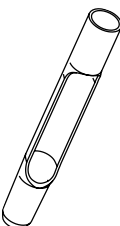




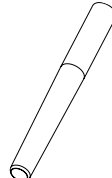
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-

-	-
---	---

Part Number	Titan Max Core ID
<b>CROSS MAX</b>	
-	-
112-1310	-
-	-
-	-
112-1311	-
-	-

Part Number	Titan Max Core ID
<b>HOLLOW MAX</b>	
108-9139	7,1,mm (.280")
108-9141	9,7 mm (.380")
108-9143	12,2 mm (.480")
-	-
108-9147	9,7 mm (.380")
108-9149	12,2 mm (.480")
108-9135	7,1 mm (.280")
108-9151	9,7 mm (.380")
108-9153	12,2 mm (.480")

**3/4" MOUNT – CONTINUED**



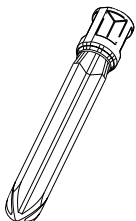
	Length	Core Dia. (ID)	OD	Wall Thickness	Part Number
<b>TITAN HOLLOW EXT. TAPER</b>					
	146,0 mm (5.75")	13,4 mm (.528")	16,8 mm (.660")	1,5 mm (.058")	114-0551
	165,1 mm (6.50")	13,4 mm (.528")	16,8 mm (.660")	1,5 mm (.058")	114-0550
<b>SIDE EJECT</b>					
	120,6 mm (4.75")	7,1 mm (.280")	11,7 mm (.460")	1,5 mm (.058")	108-9159
	120,6 mm (4.75")	10,3 mm (.406")	14,2 mm (.560")	1,5 mm (.058")	108-9160
	120,6 mm (4.75")	13,4 mm (.528")	16,8 mm (.660")	1,5 mm (.058")	108-9161
	146,0 mm (5.75")	7,1 mm (.280")	11,7 mm (.460")	1,5 mm (.058")	108-9163
	146,0 mm (5.75")	10,3 mm (.406")	14,2 mm (.560")	1,5 mm (.058")	108-9164
	146,0 mm (5.75")	13,4 mm (.528")	16,8 mm (.660")	1,5 mm (.058")	108-9165
	165,1 mm (6.50")	7,1 mm (.280")	11,7 mm (.460")	1,5 mm (.058")	108-9162
	165,1 mm (6.50")	10,3 mm (.406")	14,2 mm (.560")	1,5 mm (.058")	108-9167
	165,1 mm (6.50")	13,4 mm (.528")	16,8 mm (.660")	1,5 mm (.058")	108-9168
<b>TITAN SIDE EJECT EXT. TAPER</b>					
	146,0 mm (5.75")	13,4 mm (.528")	16,8 mm (.660")	1,5 mm (.058")	114-0555
	165,1 mm (6.50")	13,4 mm (.528")	16,8 mm (.660")	1,5 mm (.058")	114-0558
<b>TITAN SPLIT</b>					
	146,0 mm (5.75")	12,95 mm (.510")	22,4 mm (.880")	3,0 mm (.120")	112-5122
<b>TITAN FAIRWAY HD</b>					
	146,0 mm (5.75")	12,95 mm (.510")	19,6 mm (.770")	3,0 mm (.120")	108-9260
	146,0 mm (5.75")	12,95 mm (.510")	22,4 mm (.880")	3,0 mm (.120")	108-9261
<b>TITAN FAIRWAY</b>					
	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
<b>CLASSIC</b>					
	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")	9,9 mm (.390")	16,8 mm (.660")	1,5 mm (.058")	105-1180

**TITAN® Max**

Part Number	Titan Max Core ID
<b>HOLLOW EXT. TAPER MAX</b>	
114-0553	12,0 mm (.473")
-	-
<b>SIDE EJECT MAX</b>	
108-9170	7,1 mm (.280")
108-9172	9,7 mm (.380")
108-9174	12,2 mm (.480")
108-9176	7,1 mm (.280")
108-9178	9,7 mm (.380")
108-9180	12,2 mm (.480")
108-9166	7,1 mm (.280")
108-9182	9,7 mm (.380")
108-9184	12,2 mm (.480")
<b>SIDE EJECT EXT. TAPER MAX</b>	
114-0557	12,0 mm (.473")
114-0560	12,0 mm (.473")
-	-
-	-
-	-
-	-
-	-
-	-
-	-

**3/4" MOUNT – CONTINUED**

**TITAN® Max**

	Length	Core Dia. (ID)	OD	Wall Thickness	Part Number	Part Number	Titan Max Core ID
<b>TITAN SOLID ROUND</b>							
	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	-	-	
<b>TITAN SOLID SLICING</b>							
	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	-	-
<b>TITAN CROSS</b>							
	114,3 mm (4.50")	N/A	12,7 mm (.500")	N/A	108-9221	-	-
	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	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	-	-
<b>CROSS MAX</b>							

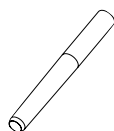
**7/8" MOUNT**

**TITAN® Max**

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

Part Number	Titan Max Core ID
-------------	-------------------

**TITAN HOLLOW**



120,6 mm (4.75")	13,0 mm (.512")	16,8 mm (.660")	1,5 mm (.058")	108-9190
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
146,0 mm (5.75")	16,0 mm (.628")	19,3 mm (.760")	1,5 mm (.058")	108-9193

-	-
-	-
-	-
-	-

**SIDE EJECT**



120,6 mm (4.75")	13,0 mm (.512")	16,8 mm (.660")	1,5 mm (.058")	108-9194
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
146,0 mm (5.75")	16,0 mm (.628")	19,3 mm (.760")	1,5 mm (.058")	108-9197

**SIDE EJECT MAX**

-	-
-	-
108-9188	12,2 mm (.480")
-	-

**TITAN SPLIT**



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 FAIRWAY HD**



146,0 mm (5.75")	16,1 mm (.635")	22,4 mm (.880")	3,1 mm (.122")	108-9264
146,0 mm (5.75")	16,1 mm (.635")	25,4 mm (1.00")	3,1 mm (.122")	108-9265

-	-
-	-

**TITAN FAIRWAY**



120,6 mm (4.75")	16,1 mm (.635")	22,4 mm (.880")	3,1 mm (.122")	92-7941
146,0 mm (5.75")	16,1 mm (.635")	22,4 mm (.880")	3,1 mm (.122")	92-7900
146,0 mm (5.75")	16,1 mm (.635")	25,4 mm (1.00")	3,0 mm (.120")	104-9877

-	-
-	-
-	-

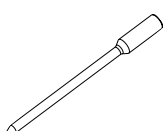
**CLASSIC**



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**



139,7 mm (5.50")	N/A	22,2 mm (.875")	N/A	108-9259
------------------	-----	-----------------	-----	----------

-	-
---	---

**NEEDLE TINE**



Length	Core Dia. (ID)	OD	Wall Thickness	Part Number
163,3 mm (6.43")	N/A	5,0 mm (.197")	N/A	100-3620
187,5 mm (7.38")	N/A	8,0 mm (.315")	N/A	100-3621
137,9 mm (5.43")	N/A	5,0 mm (.197")	N/A	125-3319

# PROCORE<sup>®</sup> 440 / 660 / 880

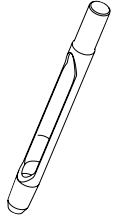


## TINE HEADS & TURF GUARDS

TINE HEADS		TINES REQ'D		TURF GUARDS					
Description	Part No.	Qty. 660	Qty. 880	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

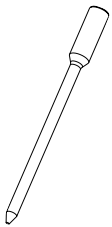
**3/8" MOUNT**

**TITAN QUAD**



Length	Core Dia. (ID)	OD	Wall Thickness	Part Number
114,3 mm (4.50")	6,3 mm (.248")	9,1 mm (.360")	1,3 mm (.052")	108-9104
114,3 mm (4.50")	8,1 mm (.318")	11,6 mm (.458")	1,6 mm (.063")	108-9105
114,3 mm (4.50")	10,3 mm (.406")	13,9 mm (.546")	1,6 mm (.063")	108-9106
114,3 mm (4.50")	12,2 mm (.480")	14,7 mm (.580")	1,2 mm (.049")	108-9293
127,0 mm (5.00")	6,3 mm (.248")	9,1 mm (.360")	1,3 mm (.052")	108-9108
127,0 mm (5.00")	8,1 mm (.318")	11,6 mm (.458")	1,6 mm (.063")	108-9109
127,0 mm (5.00")	10,3 mm (.406")	13,9 mm (.546")	1,6 mm (.063")	108-9110
127,0 mm (5.00")	12,2 mm (.480")	14,7 mm (.580")	1,2 mm (.049")	108-9294
139,7 mm (5.50")	10,3 mm (.406")	13,9 mm (.546")	1,6 mm (.063")	108-9290

**TITAN SOLID ROUND**



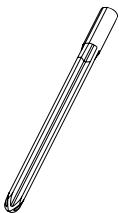
114,3 mm (4.50")	N/A	5,1 mm (.200")	N/A	108-9230
114,3 mm (4.50")	N/A	6,3 mm (.250")	N/A	108-9231
114,3 mm (4.50")	N/A	7,6 mm (.300")	N/A	108-9232
114,3 mm (4.50")	N/A	9,7 mm (.380")	N/A	108-9233
139,7 mm (5.50")	N/A	5,1 mm (.200")	N/A	108-9234
139,7 mm (5.50")	N/A	6,3 mm (.250")	N/A	108-9235
139,7 mm (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
------------------	-----	-----------------	-----	----------

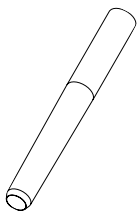
**TITAN CROSS**



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
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
139,7 mm (5.50")	N/A	15,9 mm (.625")	N/A	108-9220

**3/4" MOUNT**

**TITAN HOLLOW**



Length	Core Dia. (ID)	OD	Wall Thickness	Part Number
120,6 mm (4.75")	7,1 mm (.280")	11,7 mm (.460")	1,5 mm (.058")	108-9128
120,6 mm (4.75")	10,3 mm (.406")	14,2 mm (.560")	1,5 mm (.058")	108-9129
120,6 mm (4.75")	13,4 mm (.528")	16,8 mm (.660")	1,5 mm (.058")	108-9130
146,0 mm (5.75")	7,1 mm (.280")	11,7 mm (.460")	1,5 mm (.058")	108-9132
146,0 mm (5.75")	10,3 mm (.406")	14,2 mm (.560")	1,5 mm (.058")	108-9133
146,0 mm (5.75")	13,4 mm (.528")	16,8 mm (.660")	1,5 mm (.058")	108-9134

**TITAN® Max**

Part Number	Titan Max Core ID
108-9112	5,8 mm (.230")
108-9114	7,1 mm (.280")
108-9116	9,7 mm (.380")
-	-
108-9120	5,8 mm (.230")
108-9122	7,1 mm (.280")
108-9124	9,7 mm (.380")
-	-
-	-

-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-

-	-
---	---

**CROSS MAX**


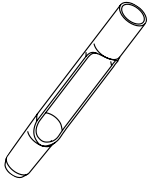







-	-
112-1310	-
-	-
-	-
112-1311	-
-	-

**TITAN® Max**

Part Number	Titan Max Core ID
108-9139	7,1 mm (.280")
108-9141	9,7 mm (.380")
108-9143	12,2 mm (.480")
-	-
108-9147	9,7 mm (.380")
108-9149	12,2 mm (.480")

**HOLLOW MAX**

3/4" MOUNT – CONTINUED

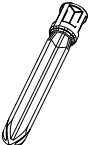
	Length	Core Dia. (ID)	OD	Wall Thickness	Part Number	
<b>TITAN HOLLOW EXT. TAPER</b>						
	146,0 mm (5.75")	13,4 mm (.528")	16,8 mm (.660")	1,5 mm (.058")	114-0551	
<b>TITAN SIDE EJECT</b>						
	120,6 mm (4.75")	7,1 mm (.280")	11,7 mm (.460")	1,5 mm (.058")	108-9159	
	120,6 mm (4.75")	10,3 mm (.406")	14,2 mm (.560")	1,5 mm (.058")	108-9160	
	120,6 mm (4.75")	13,4 mm (.528")	16,8 mm (.660")	1,5 mm (.058")	108-9161	
	146,0 mm (5.75")	7,1 mm (.280")	11,7 mm (.460")	1,5 mm (.058")	108-9163	
	146,0 mm (5.75")	10,3 mm (.406")	14,2 mm (.560")	1,5 mm (.058")	108-9164	
	146,0 mm (5.75")	13,4 mm (.528")	16,8 mm (.660")	1,5 mm (.058")	108-9165	
<b>TITAN SIDE EJECT EXT. TAPER MAX</b>						
	146,0 mm (5.75")	13,4 mm (.528")	16,8 mm (.660")	1,5 mm (.058")	114-0555	
<b>TITAN SPLIT</b>						
	146,0 mm (5.75")	12,95 mm (.510")	22,4 mm (.880")	3,0 mm (.120")	112-5122	
<b>TITAN FAIRWAY HD</b>						
	146,0 mm (5.75")	12,95 mm (.510")	19,6 mm (.770")	3,0 mm (.120")	108-9260	
	146,0 mm (5.75")	12,95 mm (.510")	22,4 mm (.880")	3,0 mm (.120")	108-9261	
<b>TITAN FAIRWAY</b>						
	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	
<b>CLASSIC</b>						
	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	
<b>TITAN SOLID ROUND</b>						
	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	
	<b>TITAN SOLID SLICING</b>					
		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® Max


Part Number	Titan Max Core ID
<b>HOLLOW EXT. TAPER MAX</b>	
114-0553	12,0 mm (.473")
<b>SIDE EJECT MAX</b>	
108-9170	7,1 mm (.280")
108-9172	9,7 mm (.380")
108-9174	12,2 mm (.480")
108-9176	7,1 mm (.280")
108-9178	9,7 mm (.380")
108-9180	12,2 mm (.480")
<b>SIDE EJECT EXT. TAPER MAX</b>	
114-0557	12,0 mm (.473")
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-




**3/4" MOUNT – CONTINUED**

	Length	Core Dia. (ID)	OD	Wall Thickness	Part Number
	114,3 mm (4.50")	N/A	12,7 mm (.500")	N/A	108-9221
	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
	139,7 mm (5.50")	N/A	19,0 mm (.750")	N/A	108-9226


**7/8" MOUNT**

	Length	Core Dia. (ID)	OD	Wall Thickness	Part Number
	120,6 mm (4.75")	13,0 mm (.512")	16,8 mm (.660")	1,5 mm (.058")	108-9190
	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
	146,0 mm (5.75")	16,0 mm (.628")	19,3 mm (.760")	1,5 mm (.058")	108-9193


**TITAN SIDE EJECT**

	120,6 mm (4.75")	13,0 mm (.512")	16,8 mm (.660")	1,5 mm (.058")	108-9194
	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
	146,0 mm (5.75")	16,0 mm (.628")	19,3 mm (.760")	1,5 mm (.058")	108-9197


**TITAN SPLIT**

	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 FAIRWAY HD**

	146,0 mm (5.75")	16,1 mm (.635")	22,4 mm (.880")	3,1 mm (.122")	108-9264
	146,0 mm (5.75")	16,1 mm (.635")	25,4 mm (1.00")	3,1 mm (.122")	108-9265

**TITAN FAIRWAY**

	120,6 mm (4.75")	16,1 mm (.635")	22,4 mm (.880")	3,1 mm (.122")	92-7941
	146,0 mm (5.75")	16,1 mm (.635")	22,4 mm (.880")	3,1 mm (.122")	92-7900
	146,0 mm (5.75")	16,1 mm (.635")	25,4 mm (1.00")	3,0 mm (.120")	104-9877

**CLASSIC**

	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**

	139,7 mm (5.50")	N/A	22,2 mm (.875")	N/A	108-9259
---	------------------	-----	-----------------	-----	----------

**NEEDLE TINE**

	Length	Core Dia. (ID)	OD	Wall Thickness	Part Number
	163,3 mm (6.43")	N/A	5,0 mm (.197")	N/A	100-3620
	187,5 mm (7.38")	N/A	8,0 mm (.315")	N/A	100-3621
	137,9 mm (5.43")	N/A	5,0 mm (.197")	N/A	125-3319

<b>TITAN® Max</b>	
Part Number	Titan Max Core ID
<b>CROSS MAX</b>	
-	-
-	-
112-1313	-
-	-

<b>TITAN® Max</b>	
Part Number	Titan Max Core ID
<b>SIDE EJECT MAX</b>	
-	-
-	-
108-9188	12,2 mm (.480")
-	-

-	-
-	-
-	-
-	-
-	-

-	-
-	-
-	-
-	-
-	-

# GREENS AERATOR




## TINE HEADS & TURF GUARDS



TINE HEADS		TINES REQ'D	TURF GUARDS	
Description	Part No.		Part No.	Qty. Req'd
9,5 mm (.375") Needle Tine Head	94-3421 Outboard block 94-6822 Inboard block	12		
12,7 mm (.500") Tine Head	94-3420	12	72-4660 (RH)	1
19,0 mm (.750") Tine Head	59-2500	12	72-4680 (Ctr)	1
22,2 mm (.875") Tine Head	62-4610	12	72-4640 (LH)	1

## GREENS AERATOR


### 3/8" MOUNT

	Length	Core Dia. (ID)	OD	Wall Thickness	Part Number
	114,3 mm (4.50")	6,3 mm (.248")	9,1 mm (.360")	1,3 mm (.052")	108-9104
	114,3 mm (4.50")	8,1 mm (.318")	11,6 mm (.458")	1,6 mm (.063")	108-9105
	114,3 mm (4.50")	10,3 mm (.406")	13,9 mm (.546")	1,6 mm (.063")	108-9106
	114,3 mm (4.50")	12,2 mm (.480")	14,7 mm (.580")	1,2 mm (.049")	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 HOLLOW

	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
	114,3 mm (4.50")	N/A	15,9 mm (.625")	N/A	108-9217

### 3/4" MOUNT

	Length	Core Dia. (ID)	OD	Wall Thickness	Part Number
	120,6 mm (4.75")	7,1 mm (.280")	11,7 mm (.460")	1,5 mm (.058")	108-9128
	120,6 mm (4.75")	10,3 mm (.406")	14,2 mm (.560")	1,5 mm (.058")	108-9129
	120,6 mm (4.75")	13,4 mm (.528")	16,8 mm (.660")	1,5 mm (.058")	108-9130


### TITAN SIDE EJECT

	120,6 mm (4.75")	7,1 mm (.280")	11,7 mm (.460")	1,5 mm (.058")	108-9159
	120,6 mm (4.75")	10,3 mm (.406")	14,2 mm (.560")	1,5 mm (.058")	108-9160
	120,6 mm (4.75")	13,4 mm (.528")	16,8 mm (.660")	1,5 mm (.058")	108-9161

### CLASSIC

	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® Max

Part Number	Titan Max Core ID
<b>QUAD MAX</b>	
108-9112	5.8 mm (.230")
108-9114	7.1 mm (.280")
108-9116	9.7 mm (.380")
-	-

-	-
-	-
-	-
-	-

### HOLLOW MAX

-	-
112-1310	-
-	-

### TITAN® Max

Part Number	Titan Max Core ID
<b>HOLLOW MAX</b>	
108-9139	7.1 mm (.280")
108-9141	9.7 mm (.380")
108-9143	12.2 mm (.480")

### SIDE EJECT MAX

108-9170	7.1 mm (.280")
108-9172	9.7 mm (.380")
108-9174	12.2 mm (.480")



-	-
-	-

### SOLID ROUND MAX

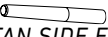



-	-
-	-
-	-
-	-
-	-
-	-

## GREENS AERATOR


### 3/4" MOUNT – CONTINUED

	Length	Core Dia. (ID)	OD	Wall Thickness	Part Number
<b>TITAN SOLID SLICING</b>					
	114,3 mm (4.50")	N/A	19,0 mm (.750")	N/A	108-9239
<b>TITAN CROSS</b>					
	114,3 mm (4.50")	N/A	12,7 mm (.500")	N/A	108-9221
	114,3 mm (4.50")	N/A	19,0 mm (.750")	N/A	108-9223

### 7/8" MOUNT

	Length	Core Dia. (ID)	OD	Wall Thickness	Part Number
<b>TITAN HOLLOW</b>					
	120,6 mm (4.75")	13,0 mm (.512")	16,8 mm (.660")	1,5 mm (.058")	108-9190
	120,6 mm (4.75")	16,0 mm (.628")	19,3 mm (.760")	1,5 mm (.058")	108-9191
<b>TITAN SIDE EJECT</b>					
	120,6 mm (4.75")	13,0 mm (.512")	16,8 mm (.660")	1,5 mm (.058")	108-9194
	120,6 mm (4.75")	16,0 mm (.628")	19,3 mm (.760")	1,5 mm (.058")	108-9195
<b>CLASSIC</b>					
	120,6 mm (4.75")	15,2 mm (.600")	19,0 mm (.750")	1,7 mm (.065")	62-4600
<b>TITAN FAIRWAY</b>					
	120,6 mm (4.75")	16,1 mm (.635")	22,4 mm (.880")	3,1 mm (.122")	92-7941

### NEEDLE TINE

	Length	Core Dia. (ID)	OD	Wall Thickness	Part Number
	163,3 mm (6.43")	N/A	5,0 mm (.197")	N/A	100-3620

# FAIRWAY AERATOR

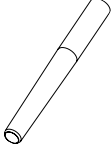
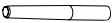
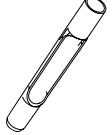




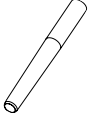


## TINE HEADS & TURF GUARDS

TINE HEADS		TINES REQ'D	TURF GUARDS	
Description	Part No.		Part No.	Qty. Req'd
<b>6-Tine, 19,0 mm (.750") Block</b>		36	70-9430 70-9440	3
Outer	95-3103			
Bridging	95-3104			
Inner	95-3105			
<b>6-Tine, 22,2 mm (.875") Block</b>		12		
Outer	70-9380			
Bridging	70-9390			
Inner	70-9400			

# FAIRWAY AERATOR

## 3/4" MOUNT

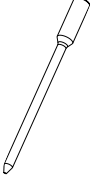
	Length	Core Dia. (ID)	OD	Wall Thickness	Part Number
<b>TITAN HOLLOW</b>					
	120,6 mm (4.75")	7,1 mm (.280")	11,7 mm (.460")	1,5 mm (.058")	108-9128
	120,6 mm (4.75")	10,3 mm (.406")	14,2 mm (.560")	1,5 mm (.058")	108-9129
	120,6 mm (4.75")	13,4 mm (.528")	16,8 mm (.660")	1,5 mm (.058")	108-9130
	146,0 mm (5.75")	7,1 mm (.280")	11,7 mm (.460")	1,5 mm (.058")	108-9132
	146,0 mm (5.75")	10,3 mm (.406")	14,2 mm (.560")	1,5 mm (.058")	108-9133
	146,0 mm (5.75")	13,4 mm (.528")	16,8 mm (.660")	1,5 mm (.058")	108-9134
<b>TITAN HOLLOW EXT. TAPER</b>					
	146,0 mm (5.75")	13,4 mm (.528")	16,8 mm (.660")	1,5 mm (.058")	114-0551
<b>TITAN SIDE EJECT</b>					
	120,6 mm (4.75")	7,1 mm (.280")	11,7 mm (.460")	1,5 mm (.058")	108-9159
	120,6 mm (4.75")	10,3 mm (.406")	14,2 mm (.560")	1,5 mm (.058")	108-9160
	120,6 mm (4.75")	13,4 mm (.528")	16,8 mm (.660")	1,5 mm (.058")	108-9161
	146,0 mm (5.75")	7,1 mm (.280")	11,7 mm (.460")	1,5 mm (.058")	108-9163
	146,0 mm (5.75")	10,3 mm (.406")	14,2 mm (.560")	1,5 mm (.058")	108-9164
	146,0 mm (5.75")	13,4 mm (.528")	16,8 mm (.660")	1,5 mm (.058")	108-9165
<b>TITAN SIDE EJECT EXT. TAPER</b>					
	146,0 mm (5.75")	13,4 mm (.528")	16,8 mm (.660")	1,5 mm (.058")	114-0555
<b>TITAN SPLIT</b>					
	146,0 mm (5.75")	12,95 mm (.510")	22,4 mm (.880")	3,0 mm (.120")	112-5122
<b>TITAN FAIRWAY HD</b>					
	146,0 mm (5.75")	12,95 mm (.510")	19,6 mm (.770")	3,0 mm (.120")	108-9260
	146,0 mm (5.75")	12,95 mm (.510")	22,4 mm (.880")	3,0 mm (.120")	108-9261
<b>TITAN FAIRWAY</b>					
	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
<b>CLASSIC</b>					
	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® Max

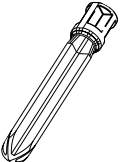
Part Number	Titan Max Core ID
<b>HOLLOW MAX</b>	
108-9139	7,1 mm (.280")
108-9141	9,7 mm (.380")
108-9143	12,2 mm (.480")
-	-
108-9147	9,7 mm (.380")
108-9149	12,2 mm (.480")
<b>HOLLOW EXT. TAPER MAX</b>	
114-0553	12,0 mm (.473")
<b>SIDE EJECT MAX</b>	
108-9170	7,1 mm (.280")
108-9172	9,7 mm (.380")
108-9174	12,2 mm (.480")
108-9176	7,1 mm (.280")
108-9178	9,7 mm (.380")
108-9180	12,2 mm (.480")
<b>SIDE EJECT EXT. TAPER MAX</b>	
114-0557	12,0 mm (.473")
-	-
-	-
-	-
-	-
-	-
-	-

## FAIRWAY AERATOR

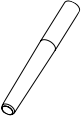


### 3/4" MOUNT – CONTINUED

	Length	Core Dia. (ID)	OD	Wall Thickness	Part Number
<b>TITAN SOLID ROUND</b>					
	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 CROSS

	114,3 mm (4.50")	N/A	12,7 mm (.500")	N/A	108-9221
	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
	139,7 mm (5.50")	N/A	19,0 mm (.750")	N/A	108-9226

### 7/8" MOUNT

	Length	Core Dia. (ID)	OD	Wall Thickness	Part Number
<b>TITAN HOLLOW</b>					
	120,6 mm (4.75")	13,0 mm (.512")	16,8 mm (.660")	1,5 mm (.058")	108-9190
	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
	120,6 mm (4.75")	16,0 mm (.628")	19,3 mm (.760")	1,5 mm (.058")	108-9193
<b>TITAN SIDE EJECT</b>					
	120,6 mm (4.75")	13,0 mm (.512")	16,8 mm (.660")	1,5 mm (.058")	108-9194
	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
	146,0 mm (5.75")	16,0 mm (.628")	19,3 mm (.760")	1,5 mm (.058")	108-9197
<b>TITAN SPLIT</b>					
	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® Max

Part Number	Titan Max Core ID
–	–
–	–
–	–
–	–
–	–
–	–
–	–
–	–
–	–
–	–
–	–
–	–
–	–
–	–

#### HOLLOW MAX







–	–
–	–
112-1313	–
–	–

### TITAN® Max

Part Number	Titan Max Core ID
<b>HOLLOW MAX</b>	
–	–
–	–
108-9157	12.2 mm (.480")
–	–
<b>SIDE EJECT MAX</b>	
–	–
–	–
108-9188	12.2 mm (.480")
–	–
<b>TITAN SPLIT</b>	
–	–
–	–

## FAIRWAY AERATOR

### 7/8" MOUNT – CONTINUED



	Length	Core Dia. (ID)	OD	Wall Thickness	Part Number
<b>TITAN FAIRWAY HD</b>					
	146,0 mm (5.75")	16,1 mm (.635")	22,4 mm (.880")	3,1 mm (.122")	108-9264
	146,0 mm (5.75")	16,1 mm (.635")	25,4 mm (1.00")	3,1 mm (.122")	108-9265
<b>TITAN FAIRWAY</b>					
	120,6 mm (4.75")	16,1 mm (.635")	22,4 mm (.880")	3,1 mm (.122")	92-7941
	146,0 mm (5.75")	16,1 mm (.635")	22,4 mm (.880")	3,1 mm (.122")	92-7900
	146,0 mm (5.75")	16,1 mm (.635")	25,4 mm (1.00")	3,0 mm (.120")	104-9877
<b>CLASSIC</b>					
	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
<b>TITAN SOLID ROUND</b>					
	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
<b>TITAN SOLID SLICING</b>					
	139,7 mm (5.50")	N/A	19,0 mm (.750")	N/A	108-9242
<b>TITAN CROSS</b>					
	139,7 mm (5.50")	N/A	22,2 mm (.875")	N/A	108-9259



# TURF AERATOR 686 / 687



## TURF AERATOR 686/687

	Part Number	Size	Quantity Required
<i>SPOON-OPEN</i>			
	108-9296	12,7 mm (.500")	96 tines
	108-9298	19,0 mm (.750")	96 tines
<i>SPOON-CLOSED</i>			
	108-9297	12,7 mm (.500")	96 tines
	108-9299	19,0 mm (.750")	96 tines

# PROCORE® SR SERIES



The ProCore SR Series provide working widths of 122 – 190 cm (48" – 75"), working depths up to 40.6 cm (16" ) and hole spacing from 6.3 – 15.2 cm (2.5" – 6").

**12MM OR 18MM MOUNT**

Mount	Length	Core Dia. (ID)	OD	Part	Adapter Sleeve	Replacement Tube
<b>CORING TINES</b>						
12,0 mm (.472")	177,8 mm (7.00")	13,2 mm (.520")	17,4 mm (.687")	SGC07625	-	SGT07625
12,0 mm (.472")	177,8 mm (7.00")	14,2 mm (.560")	20,7 mm (.813")	SGC07750	-	SGT07750
12,0 mm (.472")	254,0 mm (10.00")	14,2 mm (.560")	19,0 mm (.750")	SGC10755	-	SGT10750
12,0 mm (.472")	254,0 mm (10.00")	14,2 mm (.560")	20,6 mm (.810")	SGC10813H	-	SGT10813H
18,0 mm (.709")	203,2 mm (8.00")	23,9 mm (.940")	33,3 mm (1.31")	SGC08125	-	SGT08125
18,0 mm (.709")	203,2 mm (8.00")	18,8 mm (.740")	26,9 mm (1.06")	SGC08100H	-	SGT08100H
18,0 mm (.709")	254,0 mm (10.00")	14,2 mm (.560")	19,0 mm (.750")	SGC10750	-	SGT10750
18,0 mm (.709")	254,0 mm (10.00")	18,8 mm (.740")	26,9 mm (1.06")	SGC10100H	-	SGT10100H
18,0 mm (.709")	254,0 mm (10.00")	19,3 mm (.760")	25,4 mm (1.00")	SGC10100S	-	SGT10100S
18,0 mm (.709")	304,8 mm (12.00")	23,9 mm (.940")	33,3 mm (1.31")	SGC12125	-	SGT12125

**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 (.472")	203,2 mm (8.00")	-	12,0 mm (.472")	SGS08500	-	-
12,0 mm (.472")	273,1 mm (10.75")	-	12,0 mm (.472")	SGS10504	-	-
12,0 mm (.472")	311,2 mm (12.25")	-	12,0 mm (.472")	SGS10500	-	-
12,0 mm (.472")	361,9 mm (14.25")	-	12,0 mm (.472")	SGS12500	-	-
12,0 mm (.472")	412,8 mm (16.25")	-	12,0 mm (.472")	SGS14500	-	-
18,0 mm (.709")	311,2 mm (12.25")	-	18,0 mm (.709")	SGS10750	-	-
18,0 mm (.709")	317,5 mm (12.50")	-	22,2 mm (.875")	SGS10875	-	-
18,0 mm (.709")	355,6 mm (14.00")	-	22,2 mm (.875")	SGS12875	-	-
18,0 mm (.709")	361,9 mm (14.25")	-	18,0 mm (.709")	SGS12750	-	-
18,0 mm (.709")	406,4 mm (16.00")	-	22,2 mm (.875")	SGS14875	-	-
18,0 mm (.709")	412,8 mm (16.25")	-	18,0 mm (.709")	SGS14750	-	-

**SR48 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	-	-

**SR48 ADAPTER HEAD KIT 117-7191**

**CORING TINES**

12,0 mm (.472")	177,8 mm (7.00")	13,2 mm (.520")	17,4 mm (.687")	SGC07624	-	SGT07625
12,0 mm (.472")	177,8 mm (7.00")	14,2 mm (.560")	20,7 mm (.813")	SGC07754	-	SGT07750
12,0 mm (.472")	254,0 mm (10.00")	14,2 mm (.560")	19,0 mm (.750")	SGC10754	-	SGT10750

**SOLID TINES**

12,0 mm (.472")	203,2 mm (8.00")	-	12,0 mm (.472")	SGS08500	-	-
12,0 mm (.472")	311,2 mm (12.25")	-	12,0 mm (.472")	SGS10500	-	-
12,0 mm (.472")	361,9 mm (14.25")	-	12,0 mm (.472")	SGS12500	-	-
12,0 mm (.472")	412,8 mm (16.25")	-	12,0 mm (.472")	SGS14500	-	-

## PROCORE® SR SERIES SR54

### 5/16" OR 12MM MOUNT

Mount	Length	Core Dia. (ID)	OD	Part	Adapter Sleeve	Replacement Tube
<b>CORING TINES</b>						
9,5 mm (.375")	139,7 mm (5.50")	9,5 mm (.375")	12,7 mm (.500")	SGC05550*	SGA10375	-
12,0 mm (.472")	177,8 mm (7.00")	13,2 mm (.520")	17,4 mm (.687")	SGC07624	-	SGT07625
12,0 mm (.472")	177,8 mm (7.00")	14,2 mm (.560")	20,7 mm (.813")	SGC07754	-	SGT07750
12,0 mm (.472")	254,0 mm (10.00")	14,2 mm (.560")	19,0 mm (.750")	SGC10754	-	SGT10750
<b>SOLID TINES</b>						
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 (.472")	203,2 mm (8.00")	-	12,0 mm (.472")	SGS08500	-	-
12,0 mm (.472")	273,1 mm (10.75")	-	12,0 mm (.472")	SGS10504	-	-

### SR 54 ADAPTER HEAD KIT 117-7193 (36 TINES)

<b>CORING TINES</b>						
9,5 mm (.375")	139,7 mm (5.50")	9,5 mm (.375")	12,7 mm (.500")	SGC05550	-	SGT05550
<b>SOLID TINES</b>						
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	-

\*Adapter Sleeve is required.

Mount	Length	Core Dia. (ID)	OD	Part	Adapter Sleeve	Replacement Tube
<b>CORING TINES</b>						
12,0 mm (.472")	177,8 mm (7.00")	13,2 mm (.520")	17,4 mm (.687")	SGC07624	–	SGT07625
12,0 mm (.472")	177,8 mm (7.00")	14,2 mm (.560")	20,7 mm (.813")	SGC07754	–	SGT07750
12,0 mm (.472")	254,0 mm (10.00")	14,2 mm (.560")	19,0 mm (.750")	SGC10754	–	SGT10750
<b>SOLID TINES</b>						
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 (.472")	203,2 mm (8.00")	–	12,0 mm (.472")	SGS08500	–	–
12,0 mm (.472")	273,1 mm (10.75")	–	12,0 mm (.472")	SGS10504	–	–

**SR 54-S ADAPTER HEAD KIT 117-7194 (12 TINES)**

<b>SOLID TINES</b>						
18,0 mm (.709")	311,2 mm (12.25")	–	18,0 mm (.709")	SGS10750	–	–

**SR 54-S ADAPTER HEAD KIT 117-7195 (12 TINES)**

<b>CORING TINES</b>						
12,0 mm (.472")	177,8 mm (7.00")	13,2 mm (.520")	17,4 mm (.687")	SGC07624	–	SGT07625
12,0 mm (.472")	177,8 mm (7.00")	14,2 mm (.560")	20,7 mm (.813")	SGC07754	–	SGT07750
12,0 mm (.472")	254,0 mm (10.00")	14,2 mm (.560")	19,0 mm (.750")	SGC10754	–	SGT10750
<b>SOLID TINES</b>						
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 (.472")	203,2 mm (8.00")	–	12,0 mm (.472")	SGS08500	–	–
12,0 mm (.472")	273,1 mm (10.75")	–	12,0 mm (.472")	SGS10504	–	–

**SR 54-S ADAPTER HEAD KIT 117-7196 (24 TINES)**

<b>CORING TINES</b>						
9,5 mm (.375")	139,7 mm (5.50")	9,5 mm (.375")	12,7 mm (.500")	SGC05550	–	SGT05550
<b>SOLID TINES</b>						
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	–	–

**SR 54-S ADAPTER HEAD KIT 117-7199 (48 TINES)**

<b>CORING TINES</b>						
9,5 mm (.375")	139,7 mm (5.50")	9,5 mm (.375")	12,7 mm (.500")	SGC05550	–	SGT05550
<b>SOLID TINES</b>						
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	–	–

## PROCORE® SR SERIES SR70

### 5/16" OR 12MM MOUNT

Mount	Length	Core Dia. (ID)	OD	Part	Adapter Sleeve	Replacement Tube
<b>CORING TINES</b>						
9,5 mm (.375")	139,7 mm (5.50")	9,5 mm (.375")	12,7 mm (.500")	SGC05550	SGA10375	SGT05550
12,0 mm (.472")	177,8 mm (7.00")	13,2 mm (.520")	17,4 mm (.687")	SGC07624	-	SGT07625
12,0 mm (.472")	177,8 mm (7.00")	14,2 mm (.560")	20,7 mm (.813")	SGC07754	-	SGT07750
12,0 mm (.472")	254,0 mm (10.00")	14,2 mm (.560")	19,0 mm (.750")	SGC10754	-	SGT10750
<b>SOLID TINES</b>						
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 (.472")	203,2 mm (8.00")	-	12,0 mm (.472")	SGS08500	-	-
12,0 mm (.472")	273,1 mm (10.75")	-	12,0 mm (.472")	SGS10504	-	-

### SR70 ADAPTER HEAD KIT 117-7193 (48 TINES)

<b>CORING TINES</b>						
9,5 mm (.375")	139,7 mm (5.50")	9,5 mm (.375")	12,7 mm (.500")	SGC05550	-	-
<b>SOLID TINES</b>						
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	-	-

**SR70-S ADAPTER HEAD KIT 117-7194 (16 TINES)**

Mount	Length	Core Dia. (ID)	OD	Part	Adapter Sleeve	Replacement Tube
<b>CORING TINES</b>						
12,0 mm (.472")	177,8 mm (7.00")	13,2 mm (.520")	17,4 mm (.687")	SGC07624	-	SGT07625
12,0 mm (.472")	177,8 mm (7.00")	14,2 mm (.560")	20,7 mm (.813")	SGC07754	-	SGT07750
12,0 mm (.472")	254,0 mm (10.00")	14,2 mm (.560")	19,0 mm (.750")	SGC10754	-	SGT10750
<b>SOLID TINES</b>						
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 (.472")	203,2 mm (8.00")	-	12,0 mm (.472")	SGS08500	-	-
12,0 mm (.472")	273,1 mm (10.75")	-	12,0 mm (.472")	SGS10504	-	-

**SR70-S ADAPTER HEAD KIT 117-7195 (16 TINES)**

<b>SOLID TINES</b>						
18,0 mm (.709")	311,2 mm (12.25")	-	18,0 mm (.709")	SGS10750	-	-

**SR70-S ADAPTER HEAD KIT 117-7196 (32 TINES)**

<b>CORING TINES</b>						
12,0 mm (.472")	177,8 mm (7.00")	13,2 mm (.520")	17,4 mm (.687")	SGC07624	-	SGT07625
12,0 mm (.472")	177,8 mm (7.00")	14,2 mm (.560")	20,7 mm (.813")	SGC07754	-	SGT07750
12,0 mm (.472")	254,0 mm (10.00")	14,2 mm (.560")	19,0 mm (.750")	SGC10754	-	SGT10750
<b>SOLID TINES</b>						
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 (.472")	203,2 mm (8.00")	-	12,0 mm (.472")	SGS08500	-	-
12,0 mm (.472")	273,1 mm (10.75")	-	12,0 mm (.472")	SGS10504	-	-

**SR70-S ADAPTER HEAD KIT 117-7199 (64 TINES)**

<b>CORING TINES</b>						
9,5 mm (.375")	139,7 mm (5.50")	9,5 mm (.375")	12,7 mm (.500")	SGC05550	-	SGT05550
<b>SOLID TINES</b>						
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	-	-
<b>SOLID TINES</b>						
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	-	-

# PROCORE® SR SERIES SR72

## 12MM OR 18MM MOUNT

Mount	Length	Core Dia. (ID)	OD	Part	Adapter Sleeve	Replacement Tube
<b>CORING TINES</b>						
12,0 mm (.472") Long	177,8 mm (7.00")	13,2 mm (.520")	17,4 mm (.687")	SGC07625*	–	SGT07625
12,0 mm (.472") Long	177,8 mm (7.00")	14,2 mm (.560")	20,7 mm (.813")	SGC07750*	–	SGT07750
12,0 mm (.472") Long	254,0 mm (10.00")	14,2 mm (.560")	19,0 mm (.750")	SGC10755*	–	SGT10750
12,0 mm (.472") Long	254,0 mm (10.00")	14,2 mm (.560")	20,6 mm (.810")	SGC10813H	–	SGT10813H
18,0 mm (.709") Long	203,2 mm (8.00")	23,9 mm (.940")	33,3 mm (1.31")	SGC08125	–	SGT10750
18,0 mm (.709") Long	203,2 mm (8.00")	18,8 mm (.740")	26,9 mm (1.06")	SGC08100H	–	SGT08100H
18,0 mm (.709") Long	254,0 mm (10.00")	14,2 mm (.560")	19,0 mm (.750")	SGC10750	–	SGT10100S
18,0 mm (.709") Long	254,0 mm (10.00")	18,8 mm (.740")	26,9 mm (1.06")	SGC10100H	–	SGT10100H
18,0 mm (.709") Long	254,0 mm (10.00")	19,3 mm (.760")	25,4 mm (1.00")	SGC10100S	–	SGT08125
18,0 mm (.709") Long	304,8 mm (12.00")	23,9 mm (.940")	33,3 mm (1.31")	SGC12125	–	SGT12125

## 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 (.472")	203,2 mm (8.00")	–	12,0 mm (.472")	SGS08500	–	–
12,0 mm (.472")	273,1 mm (10.75")	–	12,0 mm (.472")	SGS10504	–	–
12,0 mm (.472")	311,2 mm (12.25")	–	12,0 mm (.472")	SGS10500	–	–
12,0 mm (.472")	361,9 mm (14.25")	–	12,0 mm (.472")	SGS12500	–	–
12,0 mm (.472")	412,8 mm (16.25")	–	12,0 mm (.472")	SGS14500	–	–
18,0 mm (.709")	311,2 mm (12.25")	–	18,0 mm (.709")	SGS10750	–	–
18,0 mm (.709")	317,5 mm (12.50")	–	22,2 mm (.875")	SGS10875	–	–
18,0 mm (.709")	355,6 mm (14.00")	–	22,2 mm (.875")	SGS12875	–	–
18,0 mm (.709")	361,9 mm (14.25")	–	18,0 mm (.709")	SGS12750	–	–
18,0 mm (.709")	406,4 mm (16.00")	–	22,2 mm (.875")	SGS14875	–	–
18,0 mm (.709")	412,8 mm (16.25")	–	18,0 mm (.709")	SGS14750	–	–

## SR72 ADAPTER HEAD KIT 117–7190 (60 TINES)

### 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	–	–

## SR72 ADAPTER HEAD KIT 117–7191 (60 TINES)

### CORING TINES

12,0 mm (.472")	177,8 mm (7.00")	13,2 mm (.520")	17,4 mm (.687")	SGC07624	–	SGT07625
12,0 mm (.472")	177,8 mm (7.00")	14,2 mm (.560")	20,7 mm (.813")	SGC07754	–	SGT07750
12,0 mm (.472")	254,0 mm (10.00")	14,2 mm (.560")	19,0 mm (.750")	SGC10754	–	SGT10750

### SOLID TINES

12,0 mm (.472")	203,2 mm (8.00")	–	12,0 mm (.472")	SGS08500	–	–
12,0 mm (.472")	311,2 mm (12.25")	–	12,0 mm (.472")	SGS10500	–	–
12,0 mm (.472")	361,9 mm (14.25")	–	12,0 mm (.472")	SGS12500	–	–
12,0 mm (.472")	412,8 mm (16.25")	–	12,0 mm (.472")	SGS14500	–	–

\*Longer shank tine.



**7/8" MOUNT**

Mount	Length	Core Dia. (ID)	OD	Part	Adapter Sleeve	Replacement Tube
<b>CORING TINES</b>						
18,0 mm (.709") Long	203,2 mm (8.00")	23,9 mm (.940")	33,3 mm (1.31")	SGC08125	SG715802	SGT08125
18,0 mm (.709") Long	203,2 mm (8.00")	18,8 mm (.740")	26,9 mm (1.06")	SGC08100H	SG715802	SGT08100H
18,0 mm (.709") Long	254,0 mm (10.00")	14,2 mm (.560")	19,0 mm (.750")	SGC10750*	SG715802	SGT10750
18,0 mm (.709") Long	254,0 mm (10.00")	18,8 mm (.740")	26,9 mm (1.06")	SGC10100H	SG715802	SGT10100H
18,0 mm (.709") Long	254,0 mm (10.00")	19,3 mm (.760")	25,4 mm (1.00")	SGC10100S	SG715802	SGT10100S
18,0 mm (.709") Long	304,8 mm (12.00")	23,9 mm (.940")	33,3 mm (1.31")	SGC12125	SG715802	SGT12125
22,2 mm (.875") Long	203,2 mm (8.00")	23,9 mm (.940")	33,3 mm (1.31")	SGC08123	-	SGT08125
22,2 mm (.875") Long	304,8 mm (12.00")	23,9 mm (.940")	33,3 mm (1.31")	SGC12123	-	SGT12125

<b>SOLID TINES</b>						
18,0 mm (.709")	311,2 mm (12.25")	-	18,0 mm (.709")	SGS10750	SG715802	-
18,0 mm (.709")	317,5 mm (12.50")	-	22,2 mm (.875")	SGS10875	SG715802	-
18,0 mm (.709")	355,6 mm (14.00")	-	22,2 mm (.875")	SGS12875	SG715802	-
18,0 mm (.709")	361,9 mm (14.25")	-	18,0 mm (.709")	SGS12750	SG715802	-
18,0 mm (.709")	406,4 mm (16.00")	-	22,2 mm (.875")	SGS14875	SG715802	-
18,0 mm (.709")	412,8 mm (16.25")	-	18,0 mm (.709")	SGS14750	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")	454,2 mm (17.88")	-	25,4 mm (1.00")	SGS16100	-	-

**SR75 ADAPTER HEAD KIT 117-7198 (4X12MM = 24 TINES OR 3X18MM = 18 TINES)**

<b>CORING TINES</b>						
12,0 mm (.472") Long	177,8 mm (7.00")	13,2 mm (.520")	17,4 mm (.687")	SGC07625	-	SGT07625
12,0 mm (.472") Long	177,8 mm (7.00")	14,2 mm (.560")	20,7 mm (.813")	SGC07750	-	SGT07750
12,0 mm (.472") Long	254,0 mm (10.00")	14,2 mm (.560")	20,6 mm (.810")	SGC10813H	-	SGT10813H
12,0 mm (.472") Long	254,0 mm (10.00")	14,2 mm (.560")	19,0 mm (.750")	SGC10755*	-	SGT10750
18,0 mm (.709") Long	203,2 mm (8.00")	18,8 mm (.740")	26,9 mm (1.06")	SGC08100H	-	SGT08100H
18,0 mm (.709") Long	203,2 mm (8.00")	23,9 mm (.940")	33,3 mm (1.31")	SGC08125	-	SGT08125
18,0 mm (.709") Long	254,0 mm (10.00")	14,2 mm (.560")	19,0 mm (.750")	SGC10750	-	SGT07625
18,0 mm (.709") Long	254,0 mm (10.00")	19,3 mm (.760")	25,4 mm (1.00")	SGC10100S	-	SGT10100S
18,0 mm (.709") Long	254,0 mm (10.00")	18,8 mm (.740")	26,9 mm (1.06")	SGC10100H	-	SGT10100H
18,0 mm (.709") Long	304,8 mm (12.00")	23,9 mm (.940")	33,3 mm (1.31")	SGC12125	-	SGT12125

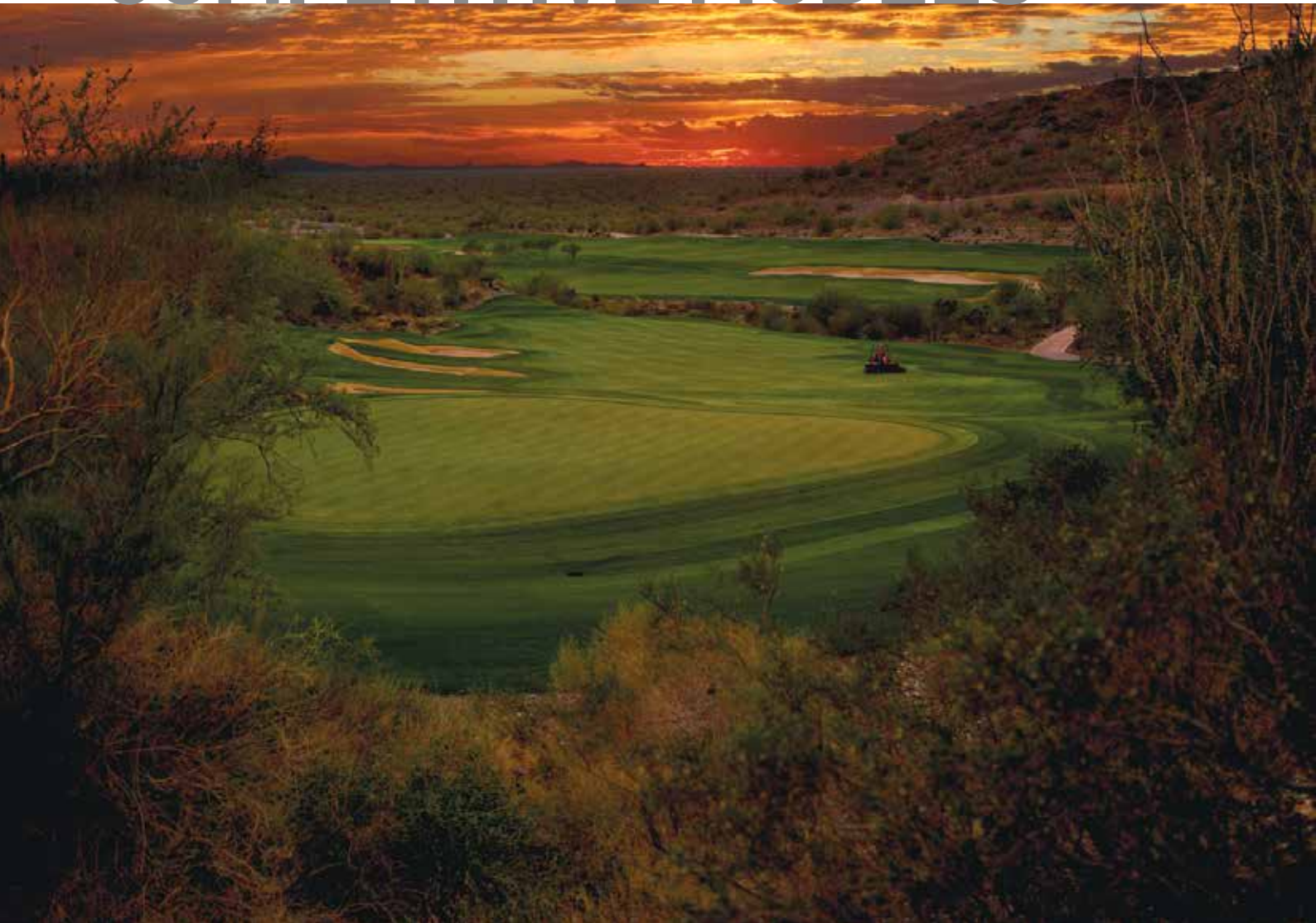
\*Longer shank tine.

**PROCORE® SR SERIES SR75**

**ADAPTER HEAD KIT 117-7198 – CONTINUED**

Mount	Length	Core Dia. (ID)	OD	Part	Adapter Sleeve	Replacement Tube
<i>SOLID TINES</i>						
12,0 mm (.472")	203,2 mm (8.00")	–	12,0 mm (.472")	SGS08500	–	–
12,0 mm (.472")	273,1 mm (10.75")	–	12,0 mm (.472")	SGS10504	–	–
12,0 mm (.472")	311,2 mm (12.25")	–	12,0 mm (.472")	SGS10500	–	–
12,0 mm (.472")	361,9 mm (14.25")	–	12,0 mm (.472")	SGS12500	–	–
12,0 mm (.472")	412,8 mm (16.25")	–	12,0 mm (.472")	SGS14500	–	–
18,0 mm (.709")	311,2 mm (12.25")	–	18,0 mm (.709")	SGS10750	–	–
18,0 mm (.709")	317,5 mm (12.50")	–	22,2 mm (.875")	SGS10875	–	–
18,0 mm (.709")	355,6 mm (14.00")	–	22,2 mm (.875")	SGS12875	–	–
18,0 mm (.709")	361,9 mm (14.25")	–	18,0 mm (.709")	SGS12750	–	–
18,0 mm (.709")	406,4 mm (16.00")	–	22,2 mm (.875")	SGS14875	–	–
18,0 mm (.709")	412,8 mm (16.25")	–	18,0 mm (.709")	SGS14750	–	–

# COMPETITIVE MODELS



## TITAN® Conversion Sleeves

Part Number	Description	Mount
112-1300	Sleeve	12,7 mm (.500")
112-1301	Sleeve	15,9 mm (.625")

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.

## TITAN® TINES COMPETITIVE MODELS

3/8" MOUNT					TITAN® Max		Competitive Model	
Length	Core Dia. (ID)	OD	Part Number	Wall	Part Number	Core Dia. (ID)	Ryan® GA 24/30/60	John Deere®
<b>TITAN QUAD</b>					<b>QUAD MAX</b>			
114,3 mm (4.50")	6,3 mm (.248")	9,1 mm (.360")	108-9104	1,3 mm (.052")	108-9112	5,8 mm (.230")	X	X
114,3 mm (4.50")	8,1 mm (.318")	11,6 mm (.458")	108-9105	1,6 mm (.063")	108-9114	7,1 mm (.280")	X	X
114,3 mm (4.50")	10,3 mm (.406")	13,9 mm (.546")	108-9106	1,6 mm (.063")	108-9116	9,7 mm (.380")	X	X
114,3 mm (4.50")	12,2 mm (.480")	14,7 mm (.580")	108-9293	1,2 mm (.049")	-	-	X	X
127,0 mm (5.00")	6,3 mm (.248")	9,1 mm (.360")	108-9108	1,3 mm (.052")	108-9120	5,8 mm (.230")	X	X
127,0 mm (5.00")	8,1 mm (.318")	11,6 mm (.458")	108-9109	1,6 mm (.063")	108-9122	7,1 mm (.280")	X	X
127,0 mm (5.00")	10,3 mm (.406")	13,9 mm (.546")	108-9110	1,6 mm (.063")	108-9124	9,7 mm (.380")	X	X
127,0 mm (5.00")	12,2 mm (.480")	14,7 mm (.580")	108-9294	1,2 mm (.049")			X	X
<b>TITAN SOLID ROUND</b>								
114,3 mm (4.50")	-	5,1 mm (.200")	108-9230	-	-	-	X	X
114,3 mm (4.50")	-	6,3 mm (.250")	108-9231	-	-	-	X	X
114,3 mm (4.50")	-	7,6 mm (.300")	108-9232	-	-	-	X	X
114,3 mm (4.50")	-	8,9 mm (.350")	108-9233	-	-	-	X	X
139,7 mm (5.50")	-	5,1 mm (.200")	108-9234	-	-	-	X	X
139,7 mm (5.50")	-	6,3 mm (.250")	108-9235	-	-	-	X	X
139,7 mm (5.50")	-	7,6 mm (.300")	108-9236	-	-	-	X	X
139,7 mm (5.50")	-	8,9 mm (.350")	108-9237	-	-	-	X	X
<b>TITAN SOLID SLICING</b>								
127,0 mm (5.00")	-	15,9 mm (.625")	108-9238	-	-	-	X	X
<b>TITAN CROSS</b>					<b>CROSS MAX</b>			
114,3 mm (4.50")	-	9,5 mm (.375")	108-9215	-	-	-	X	X
114,3 mm (4.50")	-	12,7 mm (.500")	108-9216	-	112-1310	-	X	X
114,3 mm (4.50")	-	15,9 mm (.625")	108-9217	-	-	-	X	X
139,7 mm (5.50")	-	9,5 mm (.375")	108-9218	-	-	-	X*	X
139,7 mm (5.50")	-	12,7 mm (.500")	108-9219	-	112-1311	-	X*	X
139,7 mm (5.50")	-	15,9 mm (.625")	108-9220	-			X*	X

\*Only available on GA 30/60 models

## TITAN® TINES COMPETITIVE MODELS

1/2" MOUNT					TITAN® Max		Competitive Model	
Length	Core Dia. (ID)	OD	Part Number	Wall	Part Number	Core Dia. (ID)	Ryan® GA 24/30/60	John Deere®
<b>TITAN QUAD</b>					<b>QUAD MAX</b>			
114,3 mm (4.50")	8,3 mm (.325")	11,6 mm (.458")	112-1316	1,6 mm (.063")	112-1322	7,1 mm (.280")	X	-
<b>TITAN SOLID ROUND</b>								
114,3 mm (4.50")	-	12,7 mm (.500")	112-1347	N/A	-	-	X	-
139,7 mm (5.50")	-	6,3 mm (.250")	112-1329	N/A	-	-	X	-
<b>TITAN SOLID SLICING</b>								
127,0 mm (5.00")	-	15,9 mm (.625")	112-5102	N/A	-	-	X	-
<b>TITAN QUAD</b>					<b>QUAD MAX</b>			
114,3 mm (4.50")	8,3 mm (.325")	14,7 mm (.580")	112-1316	1,4 mm (.055")	112-1322	7,1 mm (.280")	X	-
5/8" MOUNT					TITAN® Max		Competitive Model	
Length	Core Dia. (ID)	OD	Part Number	Wall	Part Number	Core Dia. (ID)	Ryan® GA 24/30/60	John Deere®
<b>TITAN SIDE EJECT</b>								
114,3 mm (4.50")	10,9 mm (.430")	14,2 mm (.560")	112-1303	1,5 mm (.058")	-	-	-	-
<b>TITAN SOLID ROUND</b>								
114,3 mm (4.50")	-	15,9 mm (.625")	112-1348	-	-	-	X	-
<b>TITAN SOLID SLICING</b>								
127,0 mm (5.00")	-	15,9 mm (.625")	112-5103	-	-	-	X	-

\*Only available on GA 30/60 models

# TITAN® TINES COMPETITIVE MODELS

3/4" MOUNT					TITAN® Max		Competitive Model	
Length	Core Dia. (ID)	OD	Part Number	Wall	Part Number	Core Dia. (ID)	Ryan® GA 24/30/60	John Deere®
<b>TITAN HOLLOW</b>					<b>HOLLOW MAX</b>			
120,6 mm (4.75")	7,1 mm (.280")	11,7 mm (.460")	108-9128	1,5 mm (.058")	108-9139	7,1 mm (.280")	X	X
120,6 mm (4.75")	10,3 mm (.406")	14,2 mm (.560")	108-9129	1,5 mm (.058")	108-9141	9,7 mm (.380")	X	X
120,6 mm (4.75")	13,4 mm (.528")	16,8 mm (.660")	108-9130	1,5 mm (.058")	108-9143	12,2 mm (.480")	X	X
146,0 mm (5.75")	7,1 mm (.280")	11,7 mm (.460")	108-9132	1,5 mm (.058")	-	-	-	-
146,0 mm (5.75")	10,3 mm (.406")	14,2 mm (.560")	108-9133	1,5 mm (.058")	108-9147	9,7 mm (.380")	X*	X
146,0 mm (5.75")	13,4 mm (.528")	16,8 mm (.660")	108-9134	1,5 mm (.058")	108-9149	12,2 mm (.480")	X*	X
<b>TITAN HOLLOW EXT. TAPER</b>					<b>HOLLOW EXT. TAPER MAX</b>			
146,0 mm (5.75")	13,4 mm (.528")	16,8 mm (.660")	114-0551	1,5 mm (.058")	114-0553	12,0 mm (.473")	X*	X
<b>TITAN SIDE EJECT</b>					<b>SIDE EJECT MAX</b>			
120,6 mm (4.75")	7,1 mm (.280")	11,7 mm (.460")	108-9159	1,5 mm (.058")	108-9170	7,1 mm (.280")	X	-
120,6 mm (4.75")	10,3 mm (.406")	14,2 mm (.560")	108-9160	1,5 mm (.058")	108-9172	9,7 mm (.380")	X	-
120,6 mm (4.75")	13,4 mm (.528")	16,8 mm (.660")	108-9161	1,5 mm (.058")	108-9174	12,2 mm (.480")	X	-
146,0 mm (5.75")	7,1 mm (.280")	11,7 mm (.460")	108-9163	1,5 mm (.058")	108-9176	7,1 mm (.280")	-	X
146,0 mm (5.75")	10,3 mm (.406")	14,2 mm (.560")	108-9164	1,5 mm (.058")	108-9178	9,7 mm (.380")	-	X
146,0 mm (5.75")	13,4 mm (.528")	16,8 mm (.660")	108-9165	1,5 mm (.058")	108-9180	12,2 mm (.480")	-	X
<b>TITAN SIDE EJECT EXT. TAPER</b>					<b>SIDE EJECT EXT. TAPER MAX</b>			
146,0 mm (5.75")	13,4 mm (.528")	16,8 mm (.660")	114-0555	1,5 mm (.058")	114-0557	12,0 mm (.473")		X
<b>TITAN FAIRWAY HD</b>								
146,0 mm (5.75")	12,95 mm (.510")	19,6 mm (.770")	108-9260	3,0 mm (.120")	-	-	X*	X
146,0 mm (5.75")	12,95 mm (.510")	22,4 mm (.880")	108-9261	3,0 mm (.120")	-	-	X*	X
<b>TITAN FAIRWAY</b>								
146,0 mm (5.75")	15,9 mm (.625")	19,6 mm (.770")	104-9876	3,0 mm (.120")	-	-		X
146,0 mm (5.75")	19,0 mm (.750")	22,4 mm (.880")	104-9875	3,0 mm (.120")	-	-		X
<b>CLASSIC</b>								
120,6 mm (4.75")	10,2 mm (.400")	12,7 mm (.500")	66-9140	1,2 mm (.049")	-	-	X	X
120,6 mm (4.75")	12,7 mm (.500")	15,9 mm (.625")	59-3670	1,2 mm (.049")	-	-	X	X
146,0 mm (5.75")	12,9 mm (.509")	15,9 mm (.625")	104-0984	1,5 mm (.058")	-	-	X*	X
<b>TITAN SOLID ROUND</b>								
114,3 mm (4.50")	N/A	6,3 mm (.250")	108-9198	N/A	-	-	X	X
114,3 mm (4.50")	N/A	7,6 mm (.300")	108-9199	N/A	-	-	X	X
114,3 mm (4.50")	N/A	8,9 mm (.350")	108-9200	N/A	-	-	X	X
114,3 mm (4.50")	N/A	10,2 mm (.400")	108-9201	N/A	-	-	X	X
114,3 mm (4.50")	N/A	12,7 mm (.500")	108-9202	N/A	-	-	X	X
114,3 mm (4.50")	N/A	15,2 mm (.600")	108-9203	N/A	-	-	X	X
139,7 mm (5.50")	N/A	6,3 mm (.250")	108-9204	N/A	-	-	X*	X
139,7 mm (5.50")	N/A	7,6 mm (.300")	108-9205	N/A	-	-	X*	X
139,7 mm (5.50")	N/A	8,9 mm (.350")	108-9206	N/A	-	-	X*	X
139,7 mm (5.50")	N/A	10,2 mm (.400")	108-9207	N/A	-	-	X*	X
139,7 mm (5.50")	N/A	12,7 mm (.500")	108-9208	N/A	-	-	X*	X
139,7 mm (5.50")	N/A	15,2 mm (.600")	108-9209	N/A	-	-	X*	X
139,7 mm (5.50")	N/A	19,0 mm (.750")	108-9244	N/A	-	-	X*	X

\*Only available on GA 30/60 models

## TITAN® TINES COMPETITIVE MODELS

### 3/4" MOUNT – CONTINUED

### TITAN® Max

### Competitive Model

Length	Core Dia. (ID)	OD	Part Number	Wall	Part Number	Core Dia. (ID)	Competitive Model	
							Ryan® GA 24/30/60	John Deere®
<b>TITAN SOLID SLICING</b>								
114,3 mm (4.50")	N/A	19,0 mm (.750")	108-9239	N/A	-	-	X	X
139,7 mm (5.50")	N/A	19,0 mm (.750")	108-9240	N/A	-	-	X*	X
<b>TITAN CROSS</b>					<b>CROSS MAX</b>			
114,3 mm (4.50")	N/A	12,7 mm (.500")	108-9221	N/A	-	-	X	X
114,3 mm (4.50")	N/A	19,0 mm (.750")	108-9223	N/A	-	-	X	X
139,7 mm (5.50")	N/A	12,7 mm (.500")	108-9224	N/A	112-1313	-	X*	X
139,7 mm (5.50")	N/A	19,0 mm (.750")	108-9226	N/A	-	-	X*	X

\*Only available on GA 30/60 models







## QUICK REFERENCE

Mount	Length	ID	OD	Wall Thickness	Part Number	Titan® Max Part Number
<b>TITAN Quad and Max Quad</b>						
12,7 mm (.500")	114,3 mm (4.50")	8,3 mm (.325")	11,6 mm (.458")	1,6 mm (.063")	112-1316	-
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
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
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
9,5 mm (.375")	114,3 mm (4.50")	12,2 mm (.480")	14,7 mm (.580")	1,2 mm (.049")	108-9293	-
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
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
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
9,5 mm (.375")	127,0 mm (5.00")	12,2 mm (.480")	14,7 mm (.580")	1,2 mm (.049")	108-9294	-
9,5 mm (.375")	139,7 mm (5.50")	10,3 mm (.406")	14,7 mm (.580")	1,6 mm (.063")	108-9290	-
15,9 mm (.625")	114,3 mm (4.50")	8,1 mm (.32")	11,6 mm (.46")	1,6 mm (.063")	112-1332	112-1338
<b>TITAN Hollow and Max Hollow</b>						
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
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
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
19,0 mm (.750")	146,0 mm (5.75")	7,1 mm (.280")	11,7 mm (.460")	1,4 mm (.055")	108-9132	-
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
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
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
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
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
22,2 mm (.875")	120,6 mm (4.75")	13,0 mm (.512")	16,8 mm (.660")	1,5 mm (.058")	108-9190	-
22,2 mm (.875")	120,6 mm (4.75")	16,0 mm (.628")	19,3 mm (.760")	1,5 mm (.058")	108-9191	-
22,2 mm (.875")	146,0 mm (5.75")	13,0 mm (.512")	16,8 mm (.660")	1,5 mm (.058")	108-9192	-
22,2 mm (.875")	146,0 mm (5.75")	16,0 mm (.628")	19,3 mm (.760")	1,5 mm (.058")	108-9193	-
<b>TITAN Hollow Extended Taper and Max Extended Taper</b>						
19,0 mm (.750")	146,0 mm (5.75")	11,9 mm (.470")	17,3 mm (.680")	1,5 mm (.058")	114-0553	-
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
19,0 mm (.750")	165,1 mm (6.50")	13,4 mm (.528")	16,8 mm (.660")	1,5 mm (.058")	114-0550	-
<b>TITAN Side Eject and Max Side Eject</b>						
19,0 mm (.750")	120,6 mm (4.75")	7,1 mm (.280")	11,7 mm (.460")	1,5 mm (.058")	108-9159	108-9170
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
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
19,0 mm (.750")	146,0 mm (5.75")	7,1 mm (.280")	11,7 mm (.460")	1,5 mm (.058")	108-9163	108-9176
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
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
19,0 mm (.750")	165,1 mm (6.50")	7,1 mm (.280")	11,7 mm (.460")	1,5 mm (.058")	108-9162	108-9166
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
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
15,9 mm (.625")	114,3 mm (4.50")	12,7 mm (.500")	14,2 mm (.560")	1,5 mm (.058")	112-1303	-
22,2 mm (.875")	120,6 mm (4.75")	13,0 mm (.512")	16,8 mm (.660")	1,5 mm (.058")	108-9194	-
22,2 mm (.875")	120,6 mm (4.75")	16,0 mm (.628")	19,3 mm (.760")	1,5 mm (.058")	108-9195	-
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
22,2 mm (.875")	146,0 mm (5.75")	16,0 mm (.628")	19,3 mm (.760")	1,5 mm (.058")	108-9197	-
<b>TITAN Side Eject Extended Taper and Extended Taper Max</b>						
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
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

## QUICK REFERENCE

Mount	Length	ID	OD	Wall Thickness	Part Number	Titan® Max Part Number
<i>Toro Classic Hollow</i>						
19,0 mm (.750")	120,6 mm (4.75")	10,2 mm (.400")	12,7 mm (.500")	1,2 mm (.049")	66-9140	-
19,0 mm (.750")	120,6 mm (4.75")	12,7 mm (.500")	15,9 mm (.625")	1,2 mm (.049")	59-3670	-
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
19,0 mm (.750")	146,0 mm (5.75")	12,9 mm (.509")	15,9 mm (.625")	1,5 mm (.058")	104-0984	-
19,0 mm (.750")	165,1 mm (6.50")	9,9 mm (.390")	12,7 mm (.500")	1,5 mm (.058")	105-1180	-
22,2 mm (.875")	120,6 mm (4.75")	15,2 mm (.600")	19,0 mm (.750")	1,7 mm (.065")	62-4600	-
22,2 mm (.875")	146,0 mm (5.75")	15,2 mm (.600")	19,0 mm (.750")	1,7 mm (.065")	86-9720	-
<i>TITAN Fairway</i>						
19,0 mm (.750")	146,0 mm (5.75")	15,9 mm (.625")	17,8 mm (.700")	2,7 mm (.105")	104-9876	-
19,0 mm (.750")	146,0 mm (5.75")	19,0 mm (.750")	20,3 mm (.800")	3,1 mm (.122")	104-9875	-
22,2 mm (.875")	120,6 mm (4.75")	16,1 mm (.635")	22,4 mm (.880")	3,1 mm (.122")	92-7941	-
22,2 mm (.875")	146,0 mm (5.75")	19,0 mm (.750")	22,4 mm (.880")	3,1 mm (.122")	92-7900	-
22,2 mm (.875")	146,0 mm (5.75")	22,2 mm (.875")	25,4 mm (1.00")	3,1 mm (.122")	104-9877	-
<i>TITAN HD Fairway</i>						
19,0 mm (.750")	146,0 mm (5.75")	12,95 mm (.510")	19,6 mm (.770")	3,0 mm (.120")	108-9260	-
19,0 mm (.750")	146,0 mm (5.75")	12,95 mm (.510")	22,4 mm (.880")	3,0 mm (.120")	108-9261	-
22,2 mm (.875")	146,0 mm (5.75")	19,0 mm (.750")	22,4 mm (.880")	3,1 mm (.122")	108-9264	-
22,2 mm (.875")	146,0 mm (5.75")	22,2 mm (.875")	25,4 mm (1.00")	3,1 mm (.122")	108-9265	-
<i>TITAN Split Tine</i>						
19,0 mm (.750")	146,0 mm (5.75")	16,1 mm (.635")	22,4 mm (.880")	3,0 mm (.120")	112-5121	-
22,2 mm (.875")	146,0 mm (5.75")	15,2 mm (.600")	22,4 mm (.880")	3,0 mm (.120")	112-5122	-
22,2 mm (.875")	146,0 mm (5.75")	17,8 mm (.700")	25,4 mm (1.00")	3,0 mm (.120")	112-5123	-
<i>TITAN Solid Round</i>						
12,7 mm (.500")	114,3 mm (4.50")	-	12,7 mm (.500")	-	112-1347	-
12,7 mm (.500")	127,0 mm (5.00")	-	6,3 mm (.250")	-	112-1329	-
19,0 mm (.750")	114,3 mm (4.50")	-	6,3 mm (.250")	-	108-9198	-
19,0 mm (.750")	114,3 mm (4.50")	-	7,6 mm (.300")	-	108-9199	-
19,0 mm (.750")	114,3 mm (4.50")	-	8,9 mm (.350")	-	108-9200	-
19,0 mm (.750")	114,3 mm (4.50")	-	10,2 mm (.400")	-	108-9201	-
19,0 mm (.750")	114,3 mm (4.50")	-	12,7 mm (.500")	-	108-9202	-
19,0 mm (.750")	114,3 mm (4.50")	-	15,2 mm (.600")	-	108-9203	-
19,0 mm (.750")	139,7 mm (5.50")	-	6,3 mm (.250")	-	108-9204	-
19,0 mm (.750")	139,7 mm (5.50")	-	7,6 mm (.300")	-	108-9205	-
19,0 mm (.750")	139,7 mm (5.50")	-	8,9 mm (.350")	-	108-9206	-
19,0 mm (.750")	139,7 mm (5.50")	-	10,2 mm (.400")	-	108-9207	-
19,0 mm (.750")	139,7 mm (5.50")	-	12,7 mm (.500")	-	108-9208	-
19,0 mm (.750")	139,7 mm (5.50")	-	15,2 mm (.600")	-	108-9209	-
19,0 mm (.750")	139,7 mm (5.50")	-	19,0 mm (.750")	-	108-9244	-
19,0 mm (.750")	165,1 mm (6.50")	-	7,6 mm (.300")	-	108-9210	-
19,0 mm (.750")	165,1 mm (6.50")	-	8,9 mm (.350")	-	108-9211	-
19,0 mm (.750")	165,1 mm (6.50")	-	10,2 mm (.400")	-	108-9212	-
19,0 mm (.750")	165,1 mm (6.50")	-	12,7 mm (.500")	-	108-9213	-
19,0 mm (.750")	165,1 mm (6.50")	-	15,2 mm (.600")	-	108-9214	-
19,0 mm (.750")	165,1 mm (6.50")	-	19,0 mm (.750")	-	108-9245	-
9,5 mm (.375")	114,3 mm (4.50")	-	5,1 mm (.200")	-	108-9230	-
9,5 mm (.375")	114,3 mm (4.50")	-	6,3 mm (.250")	-	108-9231	-
9,5 mm (.375")	114,3 mm (4.50")	-	7,6 mm (.300")	-	108-9232	-
9,5 mm (.375")	114,3 mm (4.50")	-	8,9 mm (.350")	-	108-9233	-
9,5 mm (.375")	139,7 mm (5.50")	-	5,1 mm (.200")	-	108-9234	-
9,5 mm (.375")	139,7 mm (5.50")	-	6,3 mm (.250")	-	108-9235	-
9,5 mm (.375")	139,7 mm (5.50")	-	7,6 mm (.300")	-	108-9236	-
9,5 mm (.375")	139,7 mm (5.50")	-	8,9 mm (.350")	-	108-9237	-
15,9 mm (.625")	114,3 mm (4.50")	-	15,9 mm (.625")	-	112-1348	-
22,2 mm (.875")	139,7 mm (5.50")	-	19,0 mm (.750")	-	108-9246	-
22,2 mm (.875")	139,7 mm (5.50")	-	22,2 mm (.875")	-	108-9247	-
22,2 mm (.875")	165,1 mm (6.50")	-	19,0 mm (.750")	-	108-9248	-
22,2 mm (.875")	165,1 mm (6.50")	-	22,2 mm (.875")	-	108-9249	-

## QUICK REFERENCE

Mount	Length	ID	OD	Wall Thickness	Part Number	Titan® Max Part Number
<i>TITAN Solid Slicing</i>						
	12,7 mm (.500")	127,0 mm (5.00")	-	15,9 mm (.625")	-	112-5102
	19,0 mm (.750")	114,3 mm (4.50")	-	19,0 mm (.750")	-	108-9239
	19,0 mm (.750")	139,7 mm (5.50")	-	19,0 mm (.750")	-	108-9240
	19,0 mm (.750")	165,1 mm (6.50")	-	19,0 mm (.750")	-	108-9241
	9,5 mm (.375")	127,0 mm (5.00")	-	15,9 mm (.625")	-	108-9238
	15,9 mm (.625")	127,0 mm (5.00")	-	15,9 mm (.625")	-	112-5103
	22,2 mm (.875")	139,7 mm (5.50")	-	19,0 mm (.750")	-	108-9242
	22,2 mm (.875")	165,1 mm (6.50")	-	19,0 mm (.750")	-	108-9243
<i>TITAN Cross and Max Cross</i>						
	9,5 mm (.375")	139,7 mm (5.50")	-	15,9 mm (.625")	-	108-9220
	19,0 mm (.750")	114,3 mm (4.50")	-	12,7 mm (.500")	-	108-9221
	19,0 mm (.750")	114,3 mm (4.50")	-	19,0 mm (.750")	-	108-9223
	19,0 mm (.750")	139,7 mm (5.50")	-	12,7 mm (.500")	-	108-9224
	19,0 mm (.750")	139,7 mm (5.50")	-	19,0 mm (.750")	-	108-9226
	19,0 mm (.750")	165,1 mm (6.50")	-	12,7 mm (.500")	-	108-9227
	19,0 mm (.750")	165,1 mm (6.50")	-	15,9 mm (.625")	-	108-9228
	19,0 mm (.750")	165,1 mm (6.50")	-	19,0 mm (.750")	-	108-9229
	9,5 mm (.375")	114,3 mm (4.50")	-	9,5 mm (.375")	-	108-9215
	9,5 mm (.375")	114,3 mm (4.50")	-	12,7 mm (.500")	-	108-9216
	9,5 mm (.375")	114,3 mm (4.50")	-	15,9 mm (.625")	-	108-9217
	9,5 mm (.375")	139,7 mm (5.50")	-	9,5 mm (.375")	-	108-9218
	9,5 mm (.375")	139,7 mm (5.50")	-	12,7 mm (.500")	-	108-9219
	9,5 mm (.375")	139,7 mm (5.50")	-	15,9 mm (.625")	-	108-9220
	22,2 mm (.875")	139,7 mm (5.50")	-	22,2 mm (.875")	-	108-9259
<i>TITAN Needle</i>						
Needle	163,3 mm (6.43")	-	5,0 mm (.197")	-	100-3620	-
Needle	127,0 mm (5.00")	-	8,0 mm (.315")	-	100-3621	-
Needle	137,9 mm (5.43")	-	5,0 mm (.197")	-	100-3319	-

## QUICK REFERENCE

Mount	Length	ID	OD	Wall Thickness	Part Number	Titan® Max Part Number
<i>ProCore SR Series Deep Tine Aerators</i>						
7,9 mm (.3125")	254,0 mm (10.00")	-	7,9 mm (.3125")	SGS08313	SGA08313	-
7,9 mm (.3125")	215,9 mm (8.50")	-	7,9 mm (.3125")	SGS07313	SGA08313	-
9,5 mm (.375")	273,1 mm (10.75")	-	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	-
9,5 mm (.375")	139,7 mm (5.50")	9,5 mm (.375")	12,7 mm (.500")	SGC05550	SGA10375	-
12,0 mm (.472") Long	254,0 mm (10.00")	19,0 mm (.750")	19,0 mm (.750")	SGC10755	-	SGT10750
12,0 mm (.472") Long	254,0 mm (10.00")	19,0 mm (.750")	20,6 mm (.810")	SGC10813H	-	SGT10813H
12,0 mm (.472") Long	177,8 mm (7.00")	15,9 mm (.625")	17,4 mm (.687")	SGC07625	-	SGT07625
12,0 mm (.472") Long	177,8 mm (7.00")	19,0 mm (.750")	20,7 mm (.813")	SGC07750	-	SGT07750
12,0 mm (.472")	273,1 mm (10.75")	-	12,0 mm (.472")	SGS10504	-	-
12,0 mm (.472")	311,2 mm (12.25")	-	12,0 mm (.472")	SGS10500	-	-
12,0 mm (.472")	361,9 mm (14.25")	-	12,0 mm (.472")	SGS12500	-	-
12,0 mm (.472")	412,8 mm (16.25")	-	12,0 mm (.472")	SGS14500	-	-
12,0 mm (.472")	203,2 mm (8.00")	-	12,0 mm (.472")	SGS08500	-	-
12,0 mm (.472")	254,0 mm (10.00")	19,0 mm (.750")	19,0 mm (.750")	SGC10754	-	SGT10750
12,0 mm (.472")	177,8 mm (7.00")	12,7 mm (.500")	17,4 mm (.687")	SGC07624	-	SGT07625
12,0 mm (.472")	177,8 mm (7.00")	19,0 mm (.750")	20,7 mm (.813")	SGC07754	-	SGT07750
18,0 mm (.709") Long	254,0 mm (10.00")	19,0 mm (.750")	19,0 mm (.750")	SGC10750	-	SGT10750
18,0 mm (.709") Long	254,0 mm (10.00")	25,4 mm (1.00")	25,4 mm (1.00")	SGC10100S	-	SGT10100S
18,0 mm (.709") Long	254,0 mm (10.00")	25,4 mm (1.00")	26,9 mm (1.06")	SGC10100H	-	SGT10100H
18,0 mm (.709") Long	304,8 mm (12.00")	33,3 mm (1.31")	31,7 mm (1.25")	SGC12125	-	SGT12125
18,0 mm (.709") Long	203,2 mm (8.00")	25,4 mm (1.00")	26,9 mm (1.06")	SGC08100H	-	SGT08100H
18,0 mm (.709") Long	203,2 mm (8.00")	33,3 mm (1.31")	31,7 mm (1.25")	SGC08125	-	SGT08125
18,0 mm (.709")	311,2 mm (12.25")	-	18,0 mm (.709")	SGS10750	-	-
18,0 mm (.709")	317,5 mm (12.50")	-	22,2 mm (.875")	SGS10875	-	-
18,0 mm (.709")	355,6 mm (14.00")	-	22,2 mm (.875")	SGS12875	-	-
18,0 mm (.709")	361,9 mm (14.25")	-	18,0 mm (.709")	SGS12750	-	-
18,0 mm (.709")	406,4 mm (16.00")	-	22,2 mm (.875")	SGS14875	-	-
18,0 mm (.709")	412,8 mm (16.25")	-	18,0 mm (.709")	SGS14750	-	-
22,2 mm (.875")	304,8 mm (12.00")	33,3 mm (1.31")	31,7 mm (1.25")	SGC12123	-	SGT12125
22,2 mm (.875")	203,2 mm (8.00")	33,3 mm (1.31")	31,7 mm (1.25")	SGC08123	-	SGT08125
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")	454,2 mm (17.88")	-	25,4 mm (1.00")	SGS16100	-	-



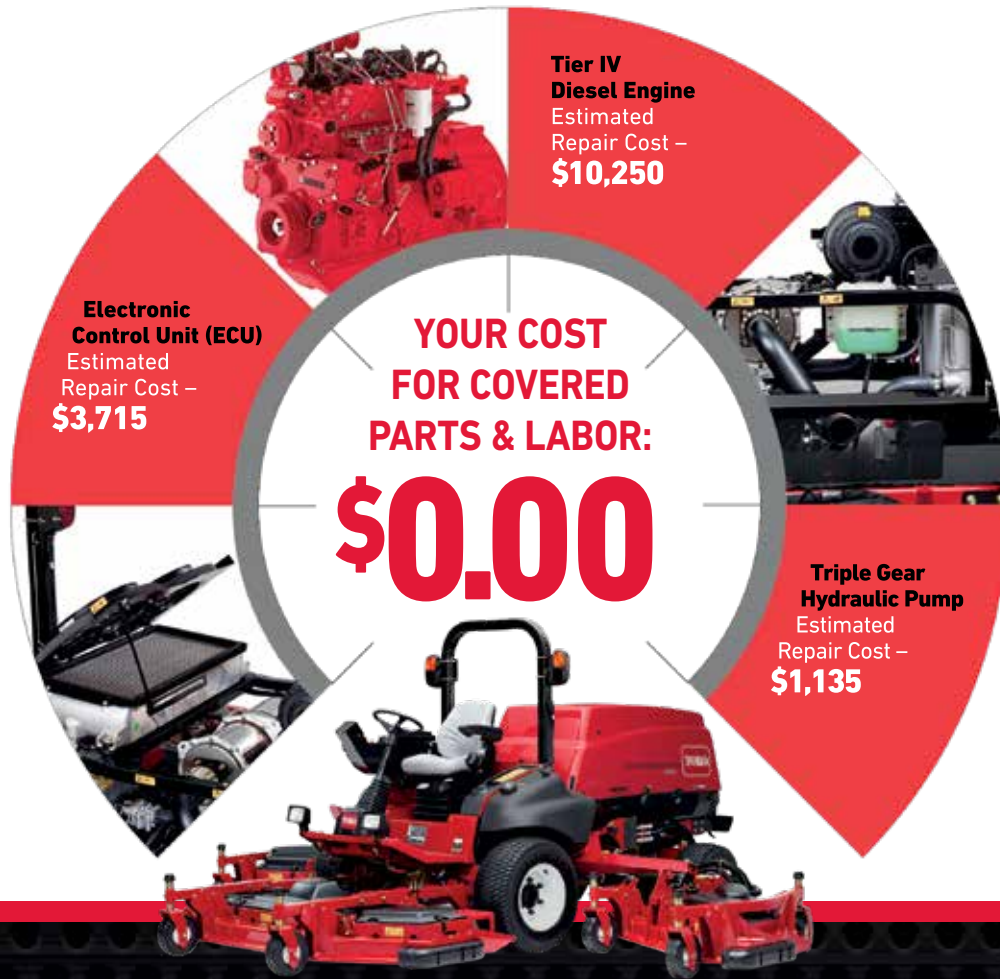
# PROTECT YOUR INVESTMENT. KEEP IT 100% TORO®.

## OUR PROMISE TO YOU

To best protect your investment and maintain optimal performance of your turf equipment, count on Toro genuine parts. When it comes to reliability, Toro delivers replacement parts designed to the exact engineering specifications of our equipment. For peace of mind, insist on Toro genuine parts.

## TORO PROVIDES:

- **Industry Leading Fill Rates** – Your local channel partner, supported by Toro's parts network, offers the parts you need when you need them.
- **Part Availability** – Most local channel partners deliver parts within 24 hours. Toro backs this promise with 48-hour delivery support.
- **Competitive Pricing** – Toro parts are comparable to will-fit providers.
- **Quality** – Genuine Toro service parts are the same parts used on the original equipment, ensuring maximum performance with less downtime.
- **Unparalleled Customer Service** – Count on dedicated support for your Toro parts needs.
- **Peace of Mind** – With genuine Toro parts, you get the right part with the correct specifications. There's no need to wonder if the part will work.



# TORO PROTECTION PLUS™

## EXTENDED PROTECTION PLAN

Run Your Maintenance Budget at Peak Efficiency

The Toro Protection Plus™ (TPP) Extended Protection Plan eliminates the hit your maintenance budget can take when the unforeseen happens. Coverage is available for new equipment, pre-owned equipment, and most Toro attachments and accessories. Just choose the plan that fits your needs.

\$0 deductible for parts & labor on covered repairs | Remaining coverage is transferrable if ownership changes



Learn More: [toro.com/tpp](https://toro.com/tpp)



## WHEN WE SAY COUNT ON IT, WE MEAN IT

Every product that carries the Toro brand is backed by over 100 years of history, innovation and timeless dependability. We never stop investing in research and development to give our customers the latest features. That's why Toro is one of the best-known, most trusted brands in the business. We also stand behind our products with a global network of knowledgeable dealers for parts and service support. **Real People. Real Support.**

**Smart Features. Proven Dependability.**



**Count on it.**



toro.com  
Worldwide Headquarters  
The Toro Company  
8111 Lyndale Ave. So.  
Bloomington, MN 55420 U.S.A.  
Phone: (1) 952 888 8801  
Fax: (1) 952 887 8258

©2019 The Toro Company.  
All Rights Reserved.  
Printed in the USA

**19-804-GB**

*Products depicted in this literature are for demonstration purposes only. Actual products offered for sale may vary in use, design, required attachments and safety features. We reserve the right to improve our products and make changes in specifications, design and standard equipment without notice and without incurring obligation. See your distributor for details on all our warranties.*



facebook.com  
twitter.com/TheToroCompany  
youtube.com/ToroCompanyEurope