

**CTI**



PHOENIX TECHNOLOGY

**OREGON**

PRODUCT CATALOG **2017**

# Ignite Your Imagination



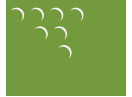
...born in fire  
for strength and  
durability

## INTRODUCING PHOENIX TINE TECHNOLOGY

A thermo-chemical technology that will change the turf industry  
Reduced Grow-in Time    No More Chipped or Broken Tips  
No More Searching for Lost Tips    No More Side-Wear Above a Tip

For years the industry has looked for a metal  
that would be as hard as carbide without  
the problems. Today we have it....





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## PHOENIX TINES

CTI Phoenix technology offers many remarkable benefits to the aerification process. Previously, you had to choose between a long-life, durable carbide tipped coring tine, or a clean efficient cut and core with a standard heat treated tine. Phoenix provides both including significantly reduced 'grow-in' period and rust resistance for longer life. Phoenix tines offer greatly improved cost/longevity benefit ratio. For more info on our Phoenix technology, see *How is Phoenix Better* at [www.ceresturf.com](http://www.ceresturf.com).

## SOLID L-SHAPED TINES

All 'L' tines are made of 4140 alloy steel and heat treated to optimum industry standards.



## SOLID ROUND TINES

Solid round tines are made of 4140 alloy steel and designed to provide the longest life possible for an outstanding value. The individual design of each tine is a result of years of research and customer feedback.



## TALON TINES

*(Cross tines)*

Our Talon tines are designed to maximize surface area and minimize plant trauma to provide the optimum gas and water exchange. There is so little disturbance to the green that it is possible to resume play immediately after an aerification with little or no impact on putting. The 'root severing' action promotes root branching for a stronger, healthier root mass.



## VENT TINES

*(Bayonet or Slicing tines)*

Our Vent tines are a modified Talon design where the hole remains open and continues to provide gas and water exchange. Vent tines offer exceptional plant respiration benefits for up to three weeks. Vent tines promote drainage and prepare surfaces for sodding, hot spots, or as a pre-seeding prep process due to minimal soil disruption. Resume play immediately after an aerification with little or no impact on putting.



## CTI CORING TINES

CTI is the first to use 4140, solid rod alloy steel for its standard coring tines - a far stronger and more durable option than tubular steel. Making tines of solid rod material is more costly but makes it possible to add additional material at wear points for extra strength and longevity. CTI has a new line of top-eject coring tines.



## DEEP CORING TINES

*(Redexim; Toro SR; Wiedennman)*

CTI has improved the Deep Coring tine by using a single piece of solid 4140 alloy steel - unlike other companies who construct tines in a two piece design with a shank and hollow tube (joined by a roll-pin). Solid 4140 steel alloy is a stronger, more durable choice compared to hollow 4130. Our Deep Tines also come in Phoenix options.



# CTI BEDKNIVES



We offer two lines of bedknives, an excellent **Standard** bedknife line and a premium **Phoenix** line for those who want exceptional hardness and durability. Our Standard line is a wonderful product with an unsurpassed price/performance profile. In short, value. We have optimized our production process so we can offer our Standard line, a top quality bedknife, at a bargain price.

But for those who demand the ultimate in durability, hardness, and longevity we have our Phoenix line. Phoenix bedknives have very exacting tolerances. Our Phoenix bedknives are made of a new, super-hardened alloy and are a step-

change product with no equal in the turf industry. Indeed, we invite comparisons! Phoenix bedknives give a cut and longevity profile that is the best available anywhere! They are made of single piece construction so there is no wire or insert to peel off. Phoenix bedknives are especially designed to reduce drag and prevent scraping or scalping. Phoenix bedknives will withstand more sharpening cycles than any other currently available knife. This technology is not easy or inexpensive so Phoenix bedknives command a premium price. Considering the very long life and exceptional cutting qualities our Phoenix line is an excellent value.



# CTI ROTARY BLADES



Ceres Turf is honored to offer the Oregon™ line of rotary mower blades. Oregon rotary blades are the leader in high quality rotary blades with a reputation for durability and re-

liability. There is a quality Oregon blade available for almost any rotary mower.

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# JOHN DEERE® / TORO® (will fit)

JOHN DEERE® / TORO®  
(will fit)



## 3/8" Mount

Part #	Core Diameter	Total Length	Outside Diameter	Wall Thickness	Price
<b>PREMIUM QUAD TINES</b>					
1Q-255037	.266"	5"	.437"	.063"	\$5.50
1Q-375037	.310"	5"	.500"	.072"	\$6.75
1Q-376037	.310"	6"	.500"	.072"	\$8.00
1Q-525037	.418"	5"	.625"	.072"	\$7.75
1Q-526037	.418"	6"	.625"	.072"	\$8.50
1Q-625037	.481"	5"	.688"	.072"	\$7.75
1Q-626037	.481"	6"	.688"	.072"	\$8.50

## PHOENIX QUAD TINES

1QP-255037	.266"	5"	.437"	.063"	\$9.00
1QP-375037	.310"	5"	.500"	.072"	\$11.50
1QP-525037	.418"	5"	.625"	.072"	\$12.50
1QP-526037	.418"	6"	.625"	.072"	\$13.00
1QP-625037	.481"	5"	.688"	.072"	\$13.00
1QP-626037	.481"	6"	.688"	.072"	\$13.50



## CARBIDE QUAD TINES

1QC-255037	.250"	5"	.375"	.065"	\$12.75
1QC-375037	.325"	5"	.550"	.065"	\$12.75
1QC-525037	.400"	4.6"	.645"	.065"	\$13.00
1QC-526037	.400"	5.6"	.645"	.065"	\$13.50
1QC-625037	.465"	5.3"	.688"	.072"	\$13.50
1QC-626037	.465"	6"	.688"	.072"	\$14.25

(will fit) **JOHN DEERE® / TORO®**



**JOHN DEERE® / TORO®**  
(will fit)

**Solid L-Shaped Needle Tines**



**Toro**

Part #	Diameter	Length	Price
2E-206520	.1875"	6.5"	\$3.75
2E-317531	.3125"	7.5"	\$3.95

**John Deere**

2E-204920	.1875"	4.875"	\$3.75
2E-314931	.3125"	4.875"	\$3.95

**3/8" Mount**

**Solid Round Tines**



2-204537	.20"	4.5"	\$3.50	
2-205537	.20"	5.5"	\$3.50	
2-254037	.25"	4"	\$3.50	
2-255037	.25"	5"	\$3.50	
<b>2P-255037</b>	.25"	5"	\$8.00	
2-256037	.25"	6"	\$3.50	
<b>2P-256037</b>	.25"	6"	\$8.50	
2-375037	.375"	5"	\$2.95	
<b>2P-375037</b>	.375"	5"	\$9.00	
2-376037	.375"	6"	\$3.50	
<b>2P-376037</b>	.375"	6"	\$9.50	
2-506037	.50"	6"	\$5.25	

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# JOHN DEERE® / TORO® (will fit)

JOHN DEERE® / TORO® (will fit)

## 3/8" Mount (continued)


### Solid Talon Tines



Part #	Diameter	Length	Price	
2T-374737	.375"	4.75"	\$6.00	
2T-376037	.375"	6"	\$6.75	
<b>2TP-376037</b>	.375"	6"	\$11.00	
2T-504737	.5"	4.75"	\$6.50	
2T-506037	.5"	6"	\$6.75	
<b>2TP-506037</b>	.5"	6"	\$12.00	
2T-754737	.75"	4.75"	\$8.00	

### Solid Venting Tines



2V-626037	.625"	6"	\$8.25	
2V-754737	.75"	5"	\$8.75	
2V-756037	.75"	6"	\$10.50	
2V-757037	.75"	7"	\$11.25	
<b>2VP-757037</b>	.75"	7"	\$20.00	



(will fit) **JOHN DEERE® / TORO®**



**JOHN DEERE® / TORO®**  
(will fit)

**3/4" Mount**



Part #	Core Diameter	Total Length	Outside Diameter	Wall Thickness	Price
<b>TUBULAR TOP-EJECT ALLOY CORING TINES</b>					
1-505575	0.400"	5.5"	.580"	.072"	\$5.00
1-625575	0.490"	5.5"	.660"	.072"	\$5.25



**MACHINE ALLOY SIDE-EJECTS CORING TINES**

1S-375075	0.318"	5"	.554"	.072"	\$7.95
1S-505075	0.398"	5"	.644"	.072"	\$6.95
1S-506075	0.398"	6"	.644"	.072"	\$6.95
1S-624575	0.478"	4.5"	.710"	.072"	\$6.95
1S-625075	0.478"	5"	.710"	.072"	\$6.95
1S-626075	0.478"	6"	.710"	.072"	\$6.95
1F-756075	0.521"	6"	.875"	.110"	\$14.00

**PHOENIX CORING TINES**

1SP-505075	0.398"	5"	.644"	.072"	\$14.50
1SP-506075	0.398"	6"	.644"	.072"	\$15.00
1SP-624575	0.478"	4.5"	.710"	.072"	\$15.00
1SP-625075	0.478"	5"	.710"	.072"	\$14.50
1SP-626075	0.478"	6"	.710"	.072"	\$15.00
1FP-756075	0.521"	6"	.875"	.110"	\$25.00



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# JOHN DEERE® / TORO® (will fit)

JOHN DEERE® / TORO® (will fit)

## 3/4" Mount (continued)



Part #	Core Diameter	Total Length	Outside Diameter	Wall Thickness	Price
<b>CARBIDE CORING TINES</b>					
1CS-375075	.270"	5"	.425"	.065"	\$14.25
1CS-376075	.270"	5.75"	.425"	.065"	\$14.75
1CS-505075	.400"	5"	.540"	.065"	\$14.25
1CS-506075	.400"	5.75"	.540"	.065"	\$14.75
1CS-625075	.480"	5"	.630"	.065"	\$14.25
1CS-626075	.480"	5.75"	.630"	.065"	\$14.75
1FCH-816075	.490"	6"	.812"	.105"	\$19.00
1FC-756075	.490"	6"	.812"	.105"	\$22.00



## ECONOMY CORING TINES

1E-755775	.620"	5.75"	.875"	.134"	\$5.20
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(will fit) **JOHN DEERE® / TORO®**



**3/4" Mount** *(continued)*

**Solid Round Tines**



Part #	Diameter	Length	Price
2-254075	.25"	4"	\$4.75
2-255075	.25"	5"	\$4.95
2-256075	.25"	6"	\$5.75
2-375075	.375"	5"	\$4.20
2-376075	.375"	6"	\$4.70
2-505075	.5"	5"	\$4.20
2-506075	.5"	6"	\$4.45
2-625075	.625"	5"	\$4.20
2-626075	.625"	6"	\$4.20
2-627075	.625"	7"	\$5.00
2-755075	.75"	5"	\$4.20
2-756075	.75"	6"	\$4.65
2-757075	.75"	7"	\$5.10
2-106075	1"	6"	\$8.00

**JOHN DEERE® / TORO®**  
*(will fit)*

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# JOHN DEERE® / TORO® (will fit)

JOHN DEERE® / TORO® (will fit)

## 3/4" Mount (continued)

### Solid Talon Tines



Part #	Diameter	Length	Price
2T-376075	.375"	6"	\$7.75
2T-504775	.5"	4.75"	\$7.00
2T-506075	.5"	6"	\$7.50
<b>2TP-506075</b>	.5"	6"	\$16.00
2T-755075	.75"	5"	\$8.00
2T-756075	.75"	6"	\$8.50
<b>2TP-756075</b>	.75"	6"	\$18.00
2T-106075	1.0"	6"	\$12.80



### Solid Venting Tines



2V-754775	.75"	4.75"	\$8.75
2V-756075	.75"	6"	\$9.50
2V-757075	.75"	7"	\$10.25
<b>2VP-757075</b>	.75"	7"	\$18.00



(will fit) **JOHN DEERE® / TORO®**



**JOHN DEERE® / TORO®**  
(will fit)

**7/8" Mount**



Part #	Core Diameter	Total Length	Outside Diameter	Wall Thickness	Price
<b>PREMIUM CORING TINES</b>					
1F-756087	.521"	6"	.812"	.110"	\$14.50
1F-876087	.600"	6"	1"	.130"	\$16.00

**PHOENIX CORING TINES**

1FP-876087	.600"	6"	1"	.130"	\$27.00
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**CARBIDE CORING TINES**

1FCH-875587	.590"	5.55"	1"	.120"	\$22.50
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**ECONOMY CORING TINES**

1E-755787	.620"	5.75"	.875"	.134"	\$5.50
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**7/8" Mount**

**Solid Round Tines**



Part #	Diameter	Length	Price
2-755087	.75"	5"	\$5.40
2-757087	.75"	7"	\$7.30
2-875087	.875"	5"	\$6.25
2-877087	.875"	7"	\$7.25

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# RYAN GA®(JACOBSEN)(will fit)

RYAN GA®(JACOBSEN)  
(will fit)

## 1/2" Mount



Part #	Core Diameter	Total Length	Outside Diameter	Wall Thickness	Price
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### PREMIUM QUAD TINES

1Q-254050	.266"	4"	.437"	.063"	\$6.50
1Q-374550	.310"	4.5"	.500"	.072"	\$8.00
1Q-524550	.418"	4.5"	.625"	.072"	\$8.75

### CARBIDE QUAD TINES

1QC-254050	.250"	4.12"	.440"	.056"	\$12.00
1QC-374550	.325"	4.63"	.550"	.064"	\$12.50
1QC-524550	.400"	4.63"	.645"	.065"	\$13.00

## 5/8" Mount

### CARBIDE CORING TINES

1CS-374562	.270"	4.5"	.425"	.067"	\$14.00
1CS-504562	.395"	4.5"	.540"	.067"	\$14.00

## 3/4" Mount



### CORING TINES

1S-624575	0.478"	4.5"	.710"	.072"	\$6.95
1SP-624575	0.478"	4.5"	.710"	.072"	\$15.00



(will fit) **RYAN GA® (JACOBSEN)**



**RYAN GA® (JACOBSEN)**  
(will fit)

## 1/2" Mount *(continued)*

### Solid Round Tines



Part #	Diameter	Length	Price
2-255050	.250"	5"	\$4.95
2-375050	.375"	5"	\$4.50

### Solid Talon Tines



2T-374750	.375"	4.75"	\$8.50
2T-504750	.500"	4.75"	\$7.50

### Solid Venting Tines



2V-754750	.750"	4.75"	\$9.50
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## 5/8" Mount

### Solid Venting Tines

2V-754762	.750"	4.75"	\$9.50
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See additional solid tine options with the John Deere and Toro tines



# REDEXIM VERTI-DRAIN® (will fit)

REDEXIM VERTI-DRAIN® (will fit)

## 5/16" Mount



Part #	Core Diameter	Total Length	Tube Length	Outside Diameter	Wall Thickness	Price
<b>PREMIUM CORING TINES</b>						
1D-376031	.266"	6"	5"	.437"	.063"	\$7.00
<b>CARBIDE CORING TINES</b>						
1DC-376031	.240"	6.125"	6.125"	.437"	.060"	\$13.25

## 12mm Mount



<b>PREMIUM CORING TINES</b>						
1D-626247	.390"	6.2"	5"	.625"	.075"	\$12.00
1D-628247	.390"	8.2"	7"	.625"	.075"	\$12.50
1D-817347	.461"	7.2"	6"	.8125"	.105"	\$15.50
1D-819347	.461"	9.2"	8"	.8125"	.105"	\$21.00
1D-8111347	.461"	11.2"	10"	.8125"	.105"	\$25.00
<b>PHOENIX CORING TINES</b>						
1DP-628247	.390"	8.2"	7"	.625"	.075"	\$20.00
1DP-817347	.461"	7.2"	6"	.8125"	.105"	\$25.00
1DP-819347	.461"	9.2"	8"	.8125"	.105"	\$35.00
<b>CARBIDE CORING TINES</b>						
1DC-628247	.395"	9.375"	7.375"	.625"	.070"	\$19.00



## 18mm Mount



1D-8111770	.461"	11.75"	10"	.8125"	.105"	\$25.00
1D-1011770	.606"	10.75"	9"	1"	.130"	\$28.00



(will fit) **REDEXIM VERTI-DRAIN®**



**REDEXIM VERTI-DRAIN®**  
(will fit)

**Deep Solid Round Tines**



Part #	Diameter	Length	Price
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**5/16" Mount**

2-318031	.3125"	8"	\$2.75
2-319031	.3125"	9"	\$3.00
2-3110031	.3125"	10"	\$3.25
2-3111531	.3125"	11.5"	\$4.00

**12mm Mount**

2-4710047	.500"	10"	\$4.25
2-4712047	.500"	12"	\$4.50
2-4714047	.500"	14"	\$5.00

**18mm Mount**

2-7012770	.750"	12.75"	\$9.00
2-7014870	.750"	14.75"	\$10.00
2-7016870	.750"	16.75"	\$11.00

**24mm Dimple Mount**

2-1014010	1"	14"	\$13.00
2-1016010	1"	16"	\$13.50
2-1018010	1"	18"	\$14.00

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# REDEXIM VERTI-DRAIN® (will fit)

REDEXIM VERTI-DRAIN® (will fit)

## Deep Vent Tines



Part #	Diameter	Length	Price
<b>12mm Mount</b>			
2V-757047	.750"	7"	\$12.50
<b>2VP-757047</b>	.750"	7"	\$20.00
2V-759547	.750"	9.5"	\$15.50



## 18mm Mount

2V-7511070	.750"	11"	\$18.50
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## 12mm Mount

### Deep Talon Tines



2T-506047	.500"	6"	\$7.50
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(will fit) **TORO® SR / SOIL RELIEVER®**



**TORO® SR / SOIL RELIEVER®**  
(will fit)



Deep Coring Tines  
**12mm Mount**



Part #	Core Diameter	Total Length	Tube Length	Outside Diameter	Wall Thickness	Price
<b>PREMIUM CORING TINES</b>						
1D-629047	.390"	9"	7"	.625"	.075"	\$12.75
1D-818047	.461"	8"	6"	.8125"	.105"	\$16.00
<b>PHOENIX CORING TINES</b>						
1DP-629047	.390"	9"	7"	.625"	.075"	\$20.50
1DP-818047	.461"	8"	6"	.8125"	.105"	\$26.00
<b>CARBIDE CORING TINES</b>						
1DC-629047	.395"	9.2"	7.2"	.625"	.070"	\$20.00

**18mm Mount**



1D-1012070	0.609"	10.75"	8.75"	1"	.125"	\$28.50
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# TORO® SR / SOIL RELIEVER® (will fit)

TORO® SR / SOIL RELIEVER® (will fit)

## Deep Solid Round Tines



Part #	Diameter	Length	Price
<b>5/16" Mount</b>			
2-318031	.3125"	8"	\$2.75
2-319031	.3125"	9"	\$3.00
2-3110031	.3125"	10"	\$3.25

## 12mm Mount

2-4710047	.500"	10"	\$4.25
2-4712047	.500"	12"	\$4.50
2-4714047	.500"	14"	\$5.00

## 18mm Mount

2-7012770	.750"	12.75"	\$9.00
2-7014870	.750"	14.75"	\$10.00
2-7016870	.750"	16.75"	\$11.00

## Deep Vent Tines



## 12mm Mount for Soil Reliever

2V-758147	.750"	8.125"	\$13.00
2VP-758147	.750"	8.125"	\$21.00



(will fit)

**WIEDENMANN®**



**WIEDENMANN®**  
(will fit)

## Deep Coring Tines



### Quad Mount

Part #	Core Diameter	Total Length	Tube Length	Outside Diameter	Wall Thickness	Price
<b>PREMIUM CORING TINES</b>						
1DW-376031	.266"	6"	5"	.437"	.063"	\$9.50



### 12mm Dimple Mount

<b>PREMIUM CORING TINES</b>						
1DW-628147	.390"	8.1"	7"	.625"	.075"	\$13.00
1DW-817347	.461"	7.3"	6"	.8125"	.105"	\$16.25
1DW-819347	.461"	9.3"	8"	.8125"	.105"	\$24.00

### PHOENIX CORING TINES

1DPW-628147	.390"	8.1"	7"	.625"	.075"	\$20.00
1DPW-817347	.461"	7.3"	6"	.8125"	.105"	\$25.00
1DPW-819347	.461"	9.3"	8"	.8125"	.105"	\$34.00



### CARBIDE CORING TINES

1DCW-628447	.395"	8.4"	7.2"	.625"	.070"	\$20.50
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### 18mm Screw Mount

<b>PREMIUM CORING TINES</b>						
1DW-8110770	.461"	10.7"	8"	.8125"	.105"	\$24.75
1DW-1012670	.606"	12.7"	10"	1"	.130"	\$29.00

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# WIEDENMANN® (will fit)

**WIEDENMANN®**  
(will fit)

## Solid Tines



### 5/16" Dimple Mount

Part #	Diameter	Length	Price
2W-319031	.3125"	9"	\$3.75
2W-3111031	.3125"	11"	\$4.25

### 12mm Dimple Mount

2W-4710047	.500"	10"	\$4.50
2W-4712047	.500"	12"	\$5.00
2W-4714047	.500"	14"	\$5.50

### 18mm Screw Mount

2W-7010870	.750"	10.75"	\$9.50
2W-7013370	.750"	13.25"	\$10.00
2W-1013370	1"	13.25"	\$11.75
2W-1016370	1"	16.25"	\$14.00

## Deep Vent Tines



### 12mm Dimple Mount

2WV-759547	.750"	9.5"	\$15.00
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# SPECIALTY PARTS



SPECIALTY PARTS

## No-Snag Rake Prong

Part #	Number	Price
4-175A	27/set	\$11.45 ea



## Closed Spoon Tines



Part #	Description	Length	ID	OD	Wall	Price
1E-757575	1 bolt mount	7.5"	.550"	1"	0.120"	\$5.00
1E-108510	2 bolt mount	8.5"	.550"	1"	0.120"	\$5.00

## Carbide Verticutting Blade



Part #	Description	Size	Thickness	Price
4-35134	Carbide Verticutting Blade for Wiedenmann with Carbide Tip	3.5 x 1.3"	4mm	\$17.00

## Star Verti-Cut Blade



4-SVCB2	Star Verti-Cut Blade for John Deere & Toro	5" w/ 1.125" Hex Hole	1mm	\$3.50
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# TORO® BEDKNIVES (will fit)

TORO® BEDKNIVES (will fit)

Description	Part #	Holes	Min. Cut Height	OEM P/N	Works On	Price
<b>GREENS BEDKNIVES</b>						
18" Micro Cut	32-261	11	0.115"	98-7261	Greensmaster 800, Flex 18/1800, eFlex 1800	\$32.50
21" High Cut	32-396	7	0.135"	94-6396	Greensmaster 3000-Series 4-Bolt Cutting Unit	\$29.50
<b>Phoenix Super Micro Cut</b>	32P-261	13	0.098"	NA		\$49.20
<b>Phoenix Micro Cut</b>	32P-262	13	0.098"	93-4262		\$40.15
<b>Phoenix Extended Micro Cut</b>	32P-303	13	0.098"	108-4303		\$38.50
21" Micro-Cut	32-262	13	0.115"	93-4262	Greensmaster 1000/2000, Flex 21/2100, eFlex 2100, Greensmaster 3000, 3100, 3200 Series SPA and DPA Cutting Units,	\$32.95
<b>Phoenix Tournament Cut</b>	32P-263	13	0.115"	93-4263	Greensmaster 3300/3320/3400/3420 Tri Flex DPA Cutting Units	\$35.35
21" Tournament	32-263	13	0.125"	93-4263		\$28.95
<b>Phoenix Low Cut</b>	32P-264	13	0.135"	93-4264		\$34.75
21" Low-Cut	32-264	13	0.135"	93-4264		\$28.95
26" Low Cut	32-015	16	0.125"	93-9015	Greensmaster 1600/2600	\$38.00



(will fit) **TORO® BEDKNIVES**



**TORO® BEDKNIVES**  
(will fit)

Description	Part #	Holes	Min. Cut Height	OEM P/N	Works On	Price
<b>FAIRWAY BEDKNIVES</b>						
21" Fairway Cut	32-610	7	0.250"	63-8610	Reelmaster 223D/5100D/5200D/ 5300D/5400D	\$29.50
21" High Cut "Heavy Duty"	32-350	7	0.375"	100-3350		\$32.95
Phoenix Fairway Low Cut	32P-096	8	0.250"	108-9096	Reelmaster 5210/5410/5510/5610, 5500D/6500D/6700D SPA Cutting Unit- sand 6500D/6700D DPA Cutting Units	\$39.75
22" Fairway Cut	32-096	8	0.375"	108-9096		\$34.50
30" Fairway Cut	32-890	10	0.375"	72-0480/ 59-5890	Reelmaster 335/3500D/450D/ 4000D/4500D	\$34.25
32" Low Cut	32-079	12	0.375"	94-5079	Reelmaster 216/216D/2000D/230 OD/2600D/3100D and Grounds Pro 2000/2000D; SPA Cutting Units	\$37.00
100 Bedknife Screws	32-4910			M57-4910		\$30.00
Reel for Toro	32-R001				Toro GM1000/2000 Mowers, 11 blade	\$285

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# JOHN DEERE® BEDKNIVES (will fit)

JOHN DEERE® BEDKNIVES (will fit)

Description	Part #	Holes	Min. Cut Height	OEM P/N	Works On	Price	
Phoenix 18" Super Tournament	30P-944	11	0.098"	MT6944	180 A / B / C / SL Walking Greens Mower and 18" QA5	\$39.15	
18" Tournament	30-846	11	0.115"	MT4846		\$31.20	
Phoenix 22" Super Tournament	30P-869	13	0.098"	ET4869	220 A/B/C/SL Walk-behind Greensmower, 2243 and 2500 Professional Greensmower, 3215A and 3235A Lightweight Fairway Mower, 7500 and 8500 Fairway Mower	\$41.25	
Phoenix 22" Super Micro Cut Low Clearance	30P-351	13	0.098"	MT7351		\$42.30	
Phoenix 22" Tournament Cut	30P-534	13	0.115"	ET17534		\$37.00	
22" Tournament	30-534	13	0.115"	ET17534		\$30.50	
22" Standard	30-533	13	0.125"	ET17533		\$29.10	
22" Fairway, Lo-Cut	30-532	13	0.135"	ET17532		\$27.00	
22" Fairway, Hi-Cut	30-767	13	0.275"	ET17767		\$30.50	
Phoenix 22" Standard Cut Fairway	30P-928	9	0.240"	MT1928		3215A, 3235A, 3225C Lightweight Fairway Mower, 7700, 8700 Fairway Mower	\$39.40
22" Standard	30-751	9	0.375"	ET17751			\$32.50
26" Standard Bedknife	30-947	15	0.125"	MT6947	260B/C Walk-Behind Greensmower	\$34.00	
26" Fairway	30-946	15	0.189"	MT6946		\$31.00	
26" Standard Fairway	30-752	10	0.375"	ET17752	2653/2653A Professional Utility Mower	\$34.00	
100 Bedknife Screws	30-7194			M21-7194		\$22.00	
25 Bedknife Screws w/ Nut	30-5055				Fairway mower screw and nut for 30P-928, 30-751 & 30-752	\$32.50	
Reel for series 220 mowers	30-R001				John Deere 220 Mower, 11 blade, replaces AMT2886	\$285	

# JACOBSEN® BEDKNIVES (will fit)



JACOBSEN® BEDKNIVES (will fit)

Description	Part #	Holes	Min. Cut Height	OEM P/N	Works On	Price
18" Medium Section	31-902	11	0.250"	4118902	Eclipse 118/118F, GK518, SLF-1880	\$31.25
18" Super Tournament	31-888	11	0.125"	5002888		\$34.40
19" Tournament	31-476	11	0.125"	503476	PGM 19	\$32.50
19" Super Tournament	31-984	11	0.115"	2810984		\$32.50
22" Phoenix Super Tournament	31P-887	13	0.098"	5002887		\$43.00
22" Super Tournament	31-887	13	0.115"	5002887		\$31.95
22" Phoenix Tournament	31P-479	13	0.115"	53479	Eclipse 122/122F; PGM22, GK522, E-Walk, GKIV (+), Eclipse 322, GKV, GKVI, GP400, G-Plex III	\$40.94
22" Tournament	31-479	13	0.125"	503479		\$30.60
22" Low Profile	31-478	13	0.135"	503478		\$30.60
22" High Profile	31-477	13	0.175"	503477		\$29.95
22" Heavy Section	31-460	13	0.325"	503460	GKV, GKVI, LF-128, LF-135, LF-550, LF-570, LF3400, LF3800, LF4675, LF4677	\$34.95
26" Low Profile	31-413	11	0.135"	5000413	Eclipse 126, GK526	\$34.25
30" Heavy Section	31-550	13	0.250"	503550	Tri King 30"	\$37.00
100 Bedknife Screws	31-9138					\$22.00

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# ROTARY MOWER BLADES



ROTARY MOWER BLADES

OEM	Oregon #	Machine	Length	Arbor	Price
<b>TORO® MACHINES</b>					
100-5754-03	94-052	Toro 3500/4500/4700	27"	.500"	\$21.00
107-0235-03	96-741	Toro 3500D/4500D/4700D	26 15/16"	.500"	\$21.60
92-5608-03	94-045	Toro 4000D/4100D/4110D	21 11/16"	.500"	\$20.35
107-0214-03	96-708	Toro 4000D/4100D/4110D	21 11/16"	.500"	\$21.60
105-7718	94-055	Toro (60" cut) Hi-Flow Model #74942	20 1/2"	5/8"	\$19.00
108-4081	96-374	Toro 40" Cut, Turbo Force Deck	14"	5/8"	\$17.56
106-2247	94-068	Toro 42" cut, Mulcher, Recycler, Time Cutter Z	21 9/16"	5/8"	\$15.63
106-7166	96-701	Toro 455D	19"	1/2"	\$24.10
112-9759-03	94-063	Toro 50" cut, Time Cutter Z	17 1/2"	5/8"	\$11.95
115-4999	96-803	Toro 54" Cut for Titan ZX5400, ZX5420	18 2/4"	5/8"	\$14.90
105-7715-03	96-319	Toro 60" High Lift Turbo Force Deck	20 1/2"	5/8"	\$13.93
29-5530	94-011	Toro 72" cut Left-hand cut heavy duty Groundsmaster	25"	3/4"	\$23.38
85-6040	94-040	Toro 72" cut, Recycler, Groundsmaster	25 3/16"	1/2"	\$20.85
85-6040	96-705	Toro 72" cut, Recycler, Groundsmaster	25 3/16"	1/2"	\$26.50
110-0621-03	94-074	Toro Groundsmaster 3280-D3320	24 1/2"	1/2"	\$17.56
69-6920	94-620	Toro Groundsmaster 580D	20 1/64"	5/8"	\$26.65

Mulching Blades

Made by Oregon, Portland, OR USA



# ROTARY MOWER BLADES



ROTARY MOWER BLADES

OEM	Oregon #	Machine	Length	Arbor	Price
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## TORO® MACHINES *(continued)*

69-6920	96-720	Toro Groundsmaster 580D - Magnum Blade	20 1/64"	5/8"	\$27.45
110-5948-03	96-802	Toro Groundsmaster 5900/5910	20"	.500"	\$21.10
110-4701-03	96-801	Toro Groundsmaster 7200 Zero Turn 60" Deck	20 1/2"	1/2"	\$16.46
110-0624-03	94-071	Toro Groundsmaster 3280D/ 72" cut Model # 74944	24 1/2"	.500"	\$22.20
105-7711-03	396-764	Toro Turbo Force Deck 72" Cut	24 1/2"	5/8"	\$29.96
46999	396-740	Dixie Chopper Gator G6 Blade	20 1/2"	5/8"	\$24.50

## JOHN DEERE® MACHINES

TCU27876	580820	John Deere 7400	27"	7/8"	\$27.20
TCU27401	580823	John Deere 7400	27"	7/8"	\$17.62
GC00344	580819	John Deere 8800, 3245 Series	20.675"	3/8"	\$20.54
GC00175	96-811	John Deere 8800, 3245 Series	20.675"	3/8"	\$28.42
M144935	396-710	John Deere	21 7/8"	7/8"	\$19.94
M141786	91-395	John Deere (72" cut) 72/172/272	24 15/16"	7/8"	\$27.55
GX21784	92-104	John Deere 100 Series 48" Cut	17"	7 Pt Star	\$12.20
TCU15882	396-743	John Deere 1453 72" cut, 7-Iron deck	24 15/16"	7/8"	\$20.00
M142514	92-114	John Deere 1453 72" cut, 7-Iron deck	24 7/8"	7/8"	\$23.50
M144297	596-722	John Deere 1600 Wide Area Mower	21 7/8"	7/8"	\$16.97

Mulching Blades

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# ROTARY MOWER BLADES



ROTARY MOWER BLADES

OEM	Oregon #	Machine	Length	Arbor	Price
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## JOHN DEERE® MACHINES *(continued)*

TCU51118	92-120	John Deere 1600 Wide Area Mower	21 7/8"	7/8"	\$18.83
M127500	91-445	John Deere 48" cut new style deck, LT166	17 1/16"	13/16"	\$14.50
TCU14939	396-770	John Deere 48" cut, 7-Iron deck	17 1/16"	7/8"	\$18.66
TCU14939	91-079	John Deere 48" cut, 7-Iron deck	17 1/16"	7/8"	\$17.50
M136195 & TCU30316	91-138	John Deere 54" Cut, 7-Iron Deck, Z Track, Signature Series	19 1/16"	7/8"	\$17.48
M144652, M164016, TCU30317	92-118	John Deere 54" Cut, High Lift, Z Track, Signature Series	19 1/16"	7/8"	\$22.38
M141786	396-775	John Deere 777 (72" cut)	24 15/16"	7/8"	\$27.50
	91-078	John Deere all 60" cut, Extended Cut 7-Iron decks	20 7/8"	7/8"	\$23.52
TCU15881	92-113	John Deere all 60" cut, high lift 7-Iron decks	20 15/16"	7/8"	\$24.10
	396-730	John Deere High Cut 7 Iron Deck 60" Cut	21 1/16"	7/8"	\$24.15

## JACOBSEN® MACHINES

390665	396-726	Jacobsen 52" Cut for Ransomes	18"	5/8"	\$21.34
112243-03	396-702	Jacobsen AR-5	21"	.625"	\$22.60
112243-03	596-702	Jacobsen AR-5	21"	5/8"	\$22.50
112111-04	93-025	Jacobsen Bobcat (1-hole)	24 15/16"	5/8"	\$19.50
42139B/P848	396-731	Jacobsen Bobcat (1-hole)/Lastec	25"	5/8"	\$27.96

Mulching Blades

Made by Oregon, Portland, OR USA



# ROTARY MOWER BLADES



ROTARY MOWER BLADES

OEM	Oregon #	Machine	Length	Arbor	Price
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## JACOBSEN® MACHINES *(continued)*

JT391039	96-696	Jacobsen HR 5111 (Left-hand blade)	23"	1/2"	\$29.10
JT391040	96-795	Jacobsen HR 5111 (Right-hand blade)	23"	1/2"	\$30.25
3007759	92-013	Jacobsen HR 9016 Turbo	20 13/16"	1/2"	\$14.35
112243-03	93-013	Jacobsen HR6010/Turfcut 628D	21"	5/8"	\$19.55
390515	396-736	Jacobsen Turfcut 72 will fit 3-hole machine)	24 15/16"	7/16"	\$31.45
390515	91-352	Jacobsen Turfcut 72" cut (3-hole)	24 15/16"	7/16"	\$24.15
4137186	391-591	Jacobsen AR-5/522	22"	1/2"	\$19.71
4137186	91-591	Jacobsen AR-5/522	22"	1/2"	\$14.15

## PROGRESSIVE® MACHINES

522372	91-593	Progressive Pro-Flex 120/120R (Left Hand) (4 to a set)	27"	1.00"	\$18.81
522374	91-592	Progressive Pro-Flex 120/120R (Right Hand) (1 to a set)	27"	1.00"	\$18.81

## HUSQVARNA® MACHINES

	95-615	Husqvarna 22" Walk Behind Star Center Hole	21 15/16"	5Pt Star	\$9.86
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## LASTEC® MACHINES

P-322/P-246	396-727	Lastec 61" cut	21"	5/8"	\$24.55
P-322	96-347	Lastec 721XR	21"	5/8"	\$20.03
21538	93-008	Lastec Blade	21"	5/8"	\$18.83

Mulching Blades

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# ISTRC / DISPLACEMENT CHART

## INTERNATIONAL SPORT TURF RESEARCH CENTER Aerification Displacement Chart

ISTRC / WARRANTY

Tine Size	1.25" x 1.25" Centers	1.5" x 1.5" Centers	2.0" x 2.0" Centers	2.5" x 2.5" Centers	5" x 5" Centers
¼" Hollow Tines	3.14%	2.18%	1.23%	0.79%	
3/8" Hollow Tines	7.07%	4.91%	2.76%	1.77%	
½" Hollow Tines	12.57%	8.73%	4.91%	3.14%	
5/8" Hollow Tines		13.64%	7.67%	4.91%	
5/8" Hollow Vertidrain					1.23%
¾" Hollow Tines				7.07%	1.77%
¾" Hollow Vertidrain					1.77%
1" Hollow Tines					3.14%
1" Hollow Vertidrain					3.14%
7/8" Drill & Fill (7" Ctrs)					1.23%
Graden Verticutter (15 Blades @ 1" Spacings)	1mm Blade 3.93%	2mm Blade 7.87%	3mm Blade 11.81%		

Note: 1/4" Quadlines remove as much material as Regular 1/2" Hollow Tines  
 3/8" minimum for ease of topdressing fill if replacement of material is required  
 For double aerification make two passes at approx. 37° (slightly less than 45°) to minimize overlap

## WARRANTY

**If a warranty issue is suspected, the first step is to save all the parts and packaging and then notify either the Ceres Turf Dealer or Distributor who sold you the parts or contact us directly at 1-866-929-9916 or 1-910-256-8974.**

1. DO NOT try to return anything without an RA number! We will likely ask you to return the defective parts (and any unused parts) for testing. You must first receive a **RETURN AUTHORIZATION NUMBER** which must be displayed clearly on the outside of the box. If the part(s) are judged defective a full refund will be issued.
2. Save all packaging material.
3. Protect the suspect parts from any additional damage after use.
4. DO NOT RETURN ANY PARTS TO CTI WITHOUT an RA NUMBER!

Please refer to our full Warranty Policy at: <http://www.ceresturf.com/product-warranty>





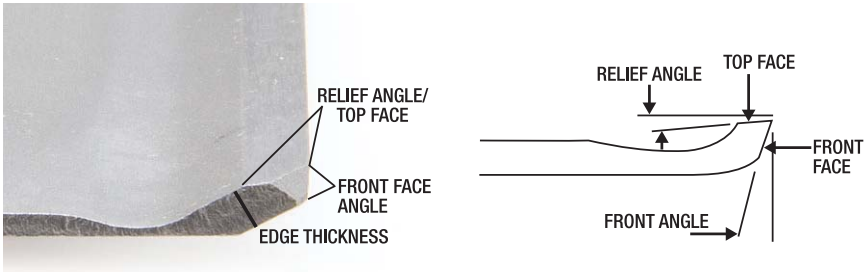


# BEDKNIVES



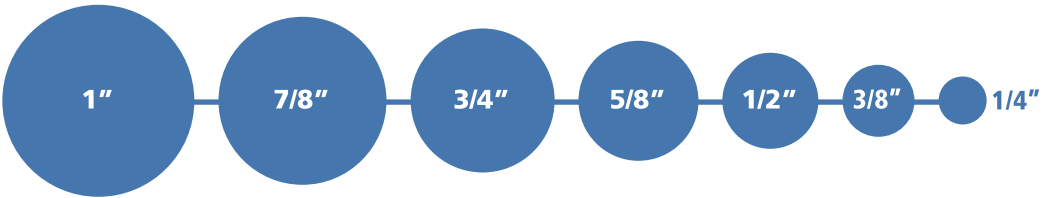
## BEDKNIVES

CTI Bedknives are made of high quality alloy steel to very exacting tolerances. In terms of 'flatness,' we maintain less than a +/- 0.006" variance end to end. - as good as any competitive bedknife available today. CTI bedknives are consistently 'flat' and ready to use with little or no prep-grinding. They are generally used as replacements for the equivalent OEM blades with comparable design angles and is often a much superior product.

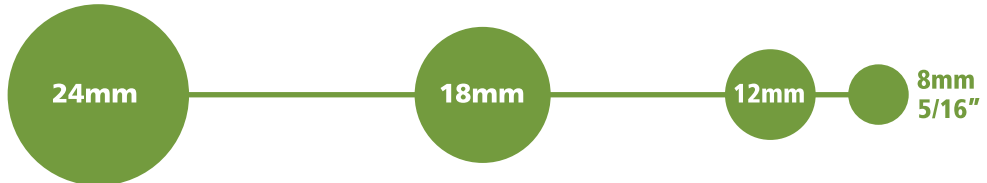


## TINE MEASUREMENT

### US Standard Sizes



### Metric Sizes Deep Tine Mounts



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[www.CeresTurf.com](http://www.CeresTurf.com)

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