Ground-Engaging Tools Parts Reference Manual

Australia and New Zealand, July 2023

CONTENTS

HIT THE GROUND RUNNING

We know time is money. John Deere parts for construction equipment keep your equipment running reliably hour after hour. And our dealers' expertise and access to our extensive parts distribution network helps ensure minimal downtime when you do need to replace a component. Check out what makes us the best choice for ground-engaging construction equipment parts.

1 CUTTING EDGES

31 REPLACEMENT TEETH

Please note: *All part numbers featured in this brochure are subject to change.*

PROTECT YOUR INVESTMENT

Properly managing your machine's cutting-edge system helps improve productivity, reduces machine downtime, and can ultimately lead to higher returns on your investment. John Deere has a full line of cutting-edge products that can be your solution regardless of application. Choose from our line of standard carbon edges or Dura-Max™ when you need to maximize your edge life.

Carbon edges

The standard for cutting edges, these edges are formed from a high carbon rolled steel, made harder by the addition of carbon.

Dura-Max edges

Manufactured with thru-hardened 15B30 boron steel, which is significantly harder than the standard carbon edge. Dura-Max edges are made harder via a heat-treatment process in which the blades are heated to extreme temperatures and then quenched to reach maximum hardness levels.

ROCKWELL C HARDNESS	
CARBON EDGES	25.4–34.7
DURA-MAX EDGES	38–50

Dura-Max and JAGZ™

John Deere warrants all Dura-Max and JAGZ cutting edges against breakage. If a Dura-Max or JAGZ cutting edge should break during use before it wears out, a new edge will be furnished free of charge to the customer. *(Note: Attaching hardware or labor for removal and installation are not included.)*

Warranty

The John Deere Cutting Edge warranty applies to Dura-Max thru-hardened and carbide edges, and warrants against breakage for the lifetime of the edge. This warranty shall not apply to products that have been subjected to misuse, abuse, neglect, or improper storage, handling, or maintenance.

GET

RETURN TO CONTENTS PAGE

THE EDGE.


VERSA
JOHN DEERE

TILE. DURABLE.

AN INNOVATIVE CONCEPT
IN LOADER EDGES

The JAGZ™ interlocking cutting-edge system provides an alternative to conventional, noninterchangeable cutting edges.

More options

JAGZ utilize bolt-on edges common to many buckets and can be mounted in a staggered or straight pattern depending on your application. When mounted in a staggered pattern, you get increased penetration and better bucket fill. The straight pattern leaves a smoother working surface, making it perfect for loading. JAGZ also balance wear by swapping the more quickly worn outside edge with the less worn centers.

More productivity

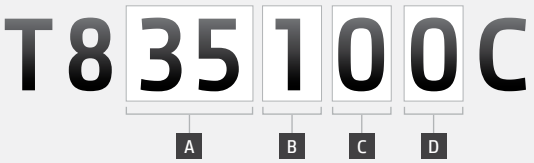
JAGZ maximize usable steel by allowing for up to 90% wear before replacement, compared to 50% usable steel on conventional bolt-on edges. This flexibility is what makes the JAGZ system stand out from the crowd.

More uptime

Easy-to-install JAGZ are guaranteed against breakage and fit any loader models.

JOHN DEERE JAGZ™ CUTTING EDGES

JAGZ PART NUMBER DESCRIPTION



A THICKNESS IN MM

25 mm = 1 in.

35 mm = 1.38 in.

40 mm = 1.57 in.

B BOLT DIAMETER 3-IN. DROP

1 = 1-in. Bolt

2 = 3/4-in. Bolt

3 = 5/8-in. Bolt

C LENGTH IN MM

0 = Universal 454.03mm

1 = Short universal 377.83mm

2 = Long universal 530.23mm

3 = Short universal 301.63mm

D SEGMENT TYPE

0 = Standard 152.4mm (6-in.) wide

1 = Joiner 177.8mm (7-in.) wide

3 = RH end seg. w/ 101.6mm (4-in.) offset

4 = LH end seg. w/ 101.6mm (4-in.) offset

5 = RH end seg. w/ 5-in. offset

6 = LH end seg. w/ 5-in. offset

7 = RH end seg. w/ 7-in. offset

8 = LH end seg. w/ 7-in. offset

JAGZ

Part No.	Description	Size	Bolt Diameter
T825100C	Standard	25.4 mm x 152.4 mm x 454.03 mm (1 in. x 6 in. x 17 7/8 in.)	25.4 mm (1 in.)
T825101C	7-in. Joiner	25.4 mm x 177.8 mm x 454.03 mm (1 in. x 7 in. x 17 7/8 in.)	25.4 mm (1 in.)
T825105C	RH End Segment	25.4 mm x 203.2 mm x 454.03 mm (1 in. x 8 in. x 17 7/8 in.)	25.4 mm (1 in.)
T825106C	LH End Segment	25.4 mm x 203.2 mm x 454.03 mm (1 in. x 8 in. x 17 7/8 in.)	25.4 mm (1 in.)
T825110C	Short Standard	25.4 mm x 152.4 mm x 377.83 mm (1 in. x 6 in. x 14 7/8 in.)	25.4 mm (1 in.)
T825111C	7-in. Joiner, Short	25.4 mm x 177.8 mm x 377.83 mm (1 in. x 7 in. x 14 7/8 in.)	25.4 mm (1 in.)
T825115C	RH End Segment	25.4 mm x 203.2 mm x 377.83 mm (1 in. x 8 in. x 14 7/8 in.)	25.4 mm (1 in.)
T825116C	LH End Segment	25.4 mm x 203.2 mm x 377.83 mm (1 in. x 8 in. x 14 7/8 in.)	25.4 mm (1 in.)
T825230C	Short Standard	25.4 mm x 152.4 mm x 301.63 mm (1 in. x 6 in. x 11 7/8 in.)	19.05 mm (3/4 in.)
T825233C	Short RH End Segment	25.4 mm x 177.8 mm x 301.63 mm (1 in. x 7 in. x 11 7/8 in.)	19.05 mm (3/4 in.)
T825234C	Short LH End Segment	25.4 mm x 177.8 mm x 301.63 mm (1 in. x 7 in. x 11 7/8 in.)	19.05 mm (3/4 in.)
T825330C	Short Standard	25.4 mm x 152.4 mm x 301.63 mm (1 in. x 6 in. x 11 7/8 in.)	15.88 mm (5/8 in.)
T825333C	Short RH End Segment	25.4 mm x 177.8 mm x 301.63 mm (1 in. x 7 in. x 11 7/8 in.)	15.88 mm (5/8 in.)
T825334C	Short LH End Segment	25.4 mm x 177.8 mm x 301.63 mm (1 in. x 7 in. x 11 7/8 in.)	15.88 mm (5/8 in.)
T835100C	Standard	34.93 mm x 152.4 mm x 454.03 mm (1 3/8 in. x 6 in. x 17 7/8 in.)	25.4 mm (1 in.)

RETURN TO CONTENTS PAGE

JAGZ *(continued)*

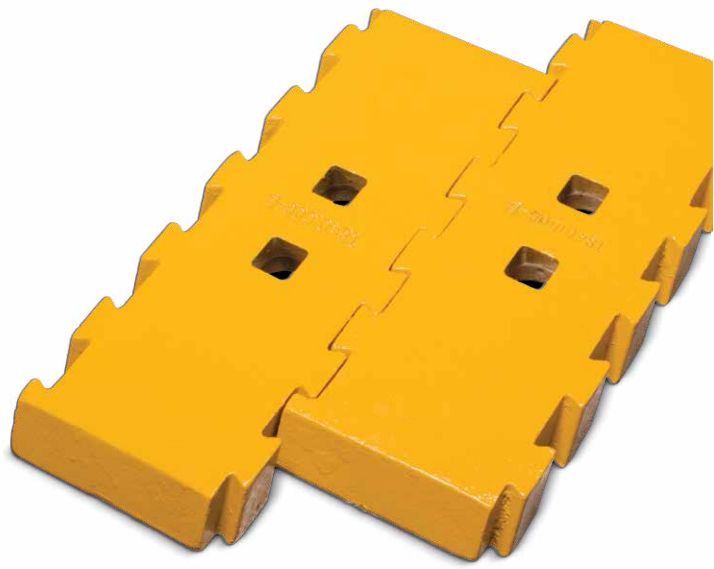
Part No.	Description	Size	Bolt Diameter
T835101C	7-in. Joiner	34.93 mm x 177.8 mm x 454.03 mm (1 3/8 in. x 7 in. x 17 7/8 in.)	25.4 mm (1 in.)
T835105C	RH End Segment	34.93 mm x 203.2 mm x 454.03 mm (1 3/8 in. x 8 in. x 17 7/8 in.)	25.4 mm (1 in.)
T835106C	LH End Segment	34.93 mm x 203.2 mm x 454.03 mm (1 3/8 in. x 8 in. x 17 7/8 in.)	25.4 mm (1 in.)
T835107C	RH End Segment	34.93 mm x 254 mm x 454.03 mm (1 3/8 in. x 10 in. x 17 7/8 in.)	25.4 mm (1 in.)
T835108C	LH End Segment	34.93 mm x 254 mm x 454.03 mm (1 3/8 in. x 10 in. x 17 7/8 in.)	25.4 mm (1 in.)
T840100C	Standard	39.69 mm x 152.4 mm x 454.03 mm (1 9/16 in. x 6 in. x 17 7/8 in.)	25.4 mm (1 in.)
T840101C	7-in. Joiner	39.69 mm x 177.8 mm x 454.03 mm (1 9/16 in. x 7 in. x 17 7/8 in.)	25.4 mm (1 in.)
T840105C	RH End Segment	39.69 mm x 203.2 mm x 454.03 mm (1 9/16 in. x 8 in. x 17 7/8 in.)	25.4 mm (1 in.)
T840106C	LH End Segment	39.69 mm x 203.2 mm x 454.03 mm (1 9/16 in. x 8 in. x 17 7/8 in.)	25.4 mm (1 in.)
T840107C	RH End Segment	39.69 mm x 254 mm x 454.03 mm (1 9/16 in. x 10 in. x 17 7/8 in.)	25.4 mm (1 in.)
T840108C	LH End Segment	39.69 mm x 254 mm x 454.03 mm (1 9/16 in. x 10 in. x 17 7/8 in.)	25.4 mm (1 in.)
T840120C	Long Standard	39.69 mm x 152.4 mm x 530.23 mm (1 9/16 in. x 6 in. x 20 7/8 in.)	25.4 mm (1 in.)
T840121C	7-in. Joiner, Long	39.69 mm x 177.8 mm x 530.23 mm (1 9/16 in. x 7 in. x 20 7/8 in.)	25.4 mm (1 in.)
T840125C	RH End Segment	39.69 mm x 203.2 mm x 530.23 mm (1 9/16 in. x 8 in. x 20 7/8 in.)	25.4 mm (1 in.)
T840126C	LH End Segment	39.69 mm x 203.2 mm x 530.23 mm (1 9/16 in. x 8 in. x 20 7/8 in.)	25.4 mm (1 in.)

JAGZ *(continued)*

Part No.	Description	Size	Bolt Diameter
T840127C	RH End Segment	39.69 mm x 254 mm x 530.23 mm (1 9/16 in. x 10 in. x 20 7/8 in.)	25.4 mm (1 in.)
T840128C	LH End Segment	39.69 mm x 254 mm x 530.23 mm (1 9/16 in. x 10 in. x 20 7/8 in.)	25.4 mm (1 in.)

Special Applications

Part No.	Description	Size	Bolt Diameter
T835000C	Standard – 744J	34.93 mm x 152.4 mm x 454.03 mm (1 3/8 in. x 6 in. x 17 7/8 in.)	31.75 mm (1 1/4 in.)
T835007C	RH End Segment – 744J	34.93 mm x 254 mm x 454.03 mm (1 3/8 in. x 10 in. x 17 7/8 in.)	31.75 mm (1 1/4 in.)
T835008C	LH End Segment – 744J	34.93 mm x 254 mm x 454.03 mm (1 3/8 in. x 10 in. x 17 7/8 in.)	31.75 mm (1 1/4 in.)
T209201C	6 5/16-in. Joiner – 844J	39.69 mm x 160.02 mm x 454.03 mm (1 9/16 in. x 6 5/16 in. x 17 7/8 in.)	31.75 mm (1 1/4 in.)
T209202C	RH End Segment – 844J	39.69 mm x 294.64 mm x 454.03 mm (1 9/16 in. x 11 3/5 in. x 17 7/8 in.)	31.75 mm (1 1/4 in.)
T209203C	LH End Segment – 844J	39.69 mm x 294.64 mm x 454.03 mm (1 9/16 in. x 11 3/5 in. x 17 7/8 in.)	31.75 mm (1 1/4 in.)

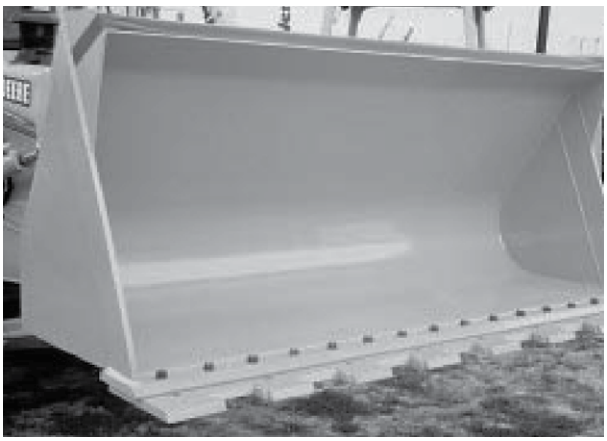


RETURN TO CONTENTS PAGE

JAGZ™ INTERNATIONAL EDGES

General description

The JAGZ interlocking edge system consists of individual bolt-on sections with a unique connecting design. The angled dovetail connections lock the sections together to form a strong, continuous bolt-on edge system. This universal system includes the option of various lengths and shapes to fit the specific applications of loaders, scrapers, and excavators. JAGZ are heat treated and through hardened for extended wear life and guaranteed against breakage.



Backhoe loader bucket equipped with T825330 (25.4mm x 152.4mm x 301.63 mm, *5/8-in. bolts) short standard sections, and T825333 and T825334 end sections.*

Four-wheel-drive loaders

The installation of the proper ground-engaging tool on four-wheel-drive loaders is critical to maximum protection of the bucket base edge and bucket integrity, as well as to provide optimum penetration and breakout force, for maximum machine productivity.

Conventional cutting edges are typically not interchangeable between various four-wheel-drive loader models and are completely different between various manufacturers. This means replacement edges are unique for each machine model.

Wear on a loader cutting edge generally occurs more at the corners and can be accelerated by application or uneven tire wear. With the JAGZ interlocking edge system, the worn end sections can be moved to the center and the centre sections moved to the ends to balance wear and achieve a much higher percentage of usable steel than with a conventional cutting edge.

One of the bolt-on centre sections edges for a CAT® 966 weighs 105.7kg versus 18.6kg for a comparable single section of the JAGZ interlocking edge system. This means that one person can change and/or move JAGZ sections without special lifting devices.

Installing the JAGZ interlocking edge system in a staggered or tooth pattern increases the bucket penetration. A big advantage here is that the bottom of the bucket, and the loading floor, remains flat, unlike conventional tooth adapters, which leave ridges in the loading floor and allow fine materials to slip away under the bucket while loading. And in abrasive materials, ridges can accelerate tire wear.

JAGZ wear pattern — loaders

Installation of the JAGZ interlocking edge system on four-wheel-drive loaders maximizes the usable steel of the bolt-on edge system. Typically, with a conventional cutting edge, only 50% of the bolt-on edge can be used before the edge has to be replaced. With JAGZ, up to 90% of the edge can be used before replacement.

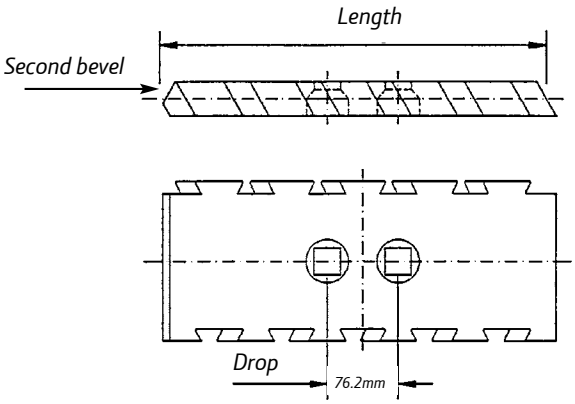
In summary, the JAGZ interlocking edge system on loaders provides:
– The ability to balance wear, corner to center
– Twice the usable steel wear — 90% versus 50%
– Flexibility — tooth pattern or straight edge
– No teeth, adapters, or segments between teeth to buy
– Commonality of parts among makes and models
– No tooth/adapter grooves in work floor
– An edge system that is easily changed by one person without the use of lifting equipment

LOADER PART DEFINITIONS	
UNIVERSAL	*WIDTH 152.4 MM, LENGTH* 454.03 mm
SHORT	*WIDTH 152.4 MM, LENGTH* 377.83 mm
EXTRA SHORT	*WIDTH 152.4 MM, LENGTH* 301.63 mm
LONG	*WIDTH 152.4 MM, LENGTH* 530.23 mm
JOINER	*WIDTH 152.4MM BOLT-HOLES ARE CENTERED*
END	*DOVETAIL LOCKS ON ONE SIDE ONLY*
DROP	*DISTANCE BETWEEN THE BOLT-HOLES IS 76.2MM ON LOADER EDGES*

RETURN TO CONTENTS PAGE

JAGZ™ INTERNATIONAL EDGES (CONTINUED)

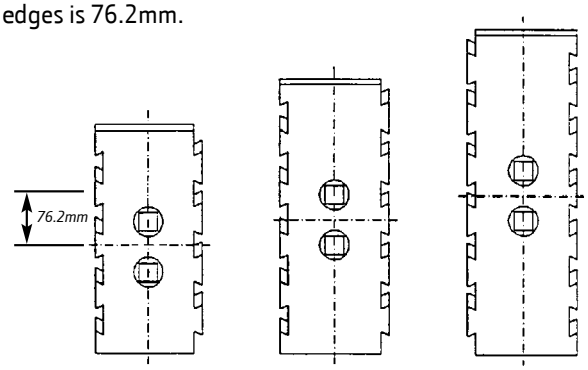
All loader edges include the following:



STANDARD LOADER EDGE

Drop

The lengthwise drop distance between the holes of **loader** edges is 76.2mm.



SHORT, STANDARD, AND LONG LOADER EDGES

Length

STANDARD	*SHORT*	*EXTRA SHORT*	*LONG*
454.03 mm	377.83 mm	301.63 mm	530.23 mm

Thickness

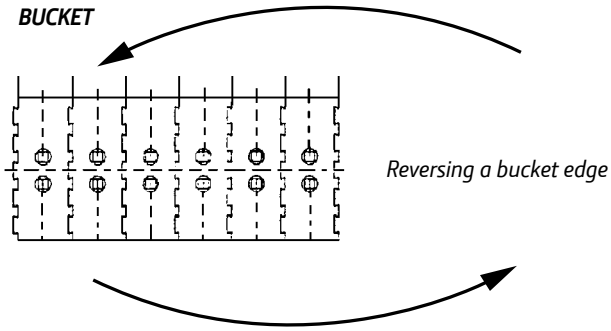
The standard thicknesses are 25 mm (1 in.), 35 mm (1.38 in.), 40 mm (1.57 in.), 45 mm (1.77 in.), and 50 mm (2 in.).

Bolt-hole

Loader edges have one-sided countersunk plow bolt-holes.

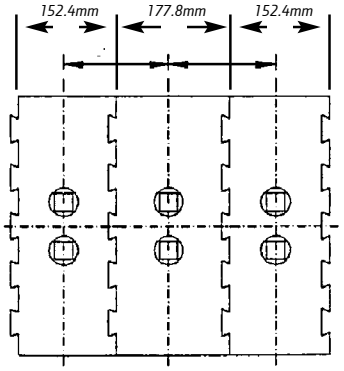
SHORT, STANDARD, AND LONG LOADER EDGES

For reversing a bucket edge, the complete cutting edge has to rotate horizontally 180 deg.



Joiners

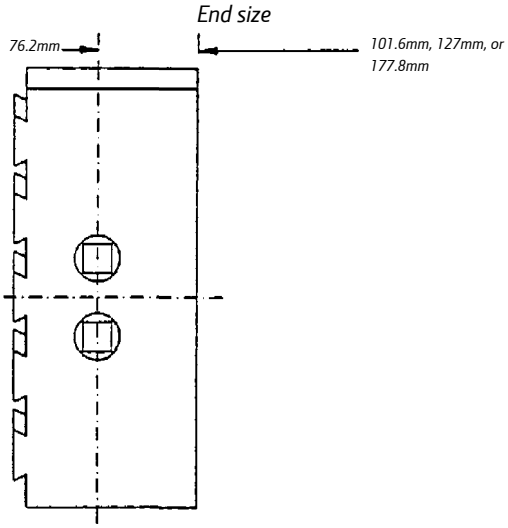
The joiners for loader edges are 177.8mm wide. Left and right are the same. Bolt-holes are located in the middle.



A 7-IN. JOINER WITH 6-IN. SEGMENTS AT BOTH SIDES

End segments

Locks are on one side only. Wider end size can allow for wide side cutters and/or welds at bucket corners. End sizes may be 101.6mm or 127mm., depending on size and application, to yield overall part widths of 177.8mm and 203.2mm.



RETURN TO CONTENTS PAGE

JAGZ™ INTERNATIONAL EDGES (CONTINUED)

Installation of loader edges

The installation of the JAGZ interlocking edge system on loader buckets requires a base edge with a reasonably flat bottom as well as a 152.4mm bolt-hole spacing. Three different situations may exist:

– If the existing hole pattern in the base blade has a 152.4mm bolt-hole spacing, no modification is required.
– If the existing base blade has excessive wear, a new universal base edge with a 152.4mm bolt-hole spacing can be installed. Refer to the Universal Edge section of the John Deere Cutting Edge Catalog for more information.
– The base edge has no bolt-holes or has an existing pattern other than a 152.4mm bolt-hole spacing. Additional holes will have to be added.

Universal base edges (sbf) to use with JAGZ

The following single-bevel flat base edges are available from the John Deere Parts Distribution Center (PDC). All are Dura-Max™ heat treated with holes for 1-in. bolts on a 152.4mm centre; the first hole is 152.4mm. from the end, so trimming will be required.

Part No.	Size	Hole Spacing
T155674	25.4mm x 203.2mm x 3048mm	3 / 6
T155675	25.4mm x 254mm x 3048mm	3 / 6
T147332	31.75mm x 254mm x 3048mm	6 / 6
T152330	38.1mm x 254mm x 3352.8mm	3 / 6
T159620	38.1mm x 254mm x 3657.6mm	6 / 6

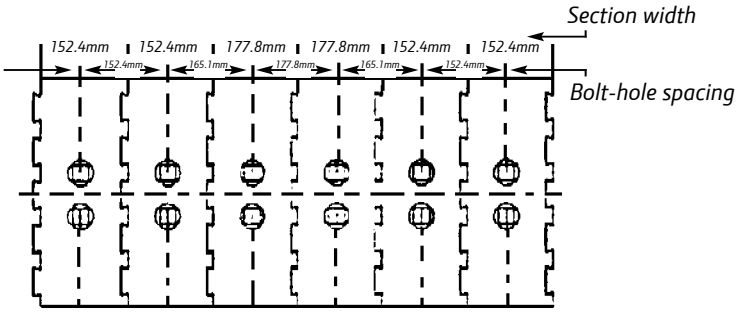
For example, if you have a 966C with a 304.8mm-wide base blade, use T152330. It is 3.35m long. Remove 76.2mm from one end and 228.6mm from the other. The result will be a 3048mm-wide base blade with the first bolt-hole 76.2mm from each end and the remaining bolt-hole spacing 152.4mm — all set up for JAGZ!

Matching JAGZ interlocking edges to bucket width

Universal JAGZ segments have a standard width of 152.4mm. There are two ways to match JAGZ interlocking edges to the bucket width:

– A specific number of standard 152.4mm sections is sufficient to cover the length of the base edge.
– If use of only 152.4mm universal sections doesn't work, it may be necessary to add an even number of 177.8mm joiners as middle pieces. For every 152.4mm standard section that is replaced with a 177.8mm-wide joiner, the OAL of the bolt-on JAGZ will increase by 25.4mm.
– Optional end segments are also available.

Standard 152.4mm-wide sections require bolt-hole spacing to be 152.4mm on center. If 177.8mm joiner sections are used, then the hole spacing at the joiners will change.



TWO 177.8MM WIDE JOINERS WITH TWO 152.4MM WIDE STANDARD SECTIONS ON EACH SIDE

The holes are centered in the loader joiner sections as well as in the standard universal sections. The distance between the bolt-holes on **adjacent** sections can be calculated as follows:

152.4mm standard and 152.4mm standard	152.4mm standard and 177.8mm joiner	177.8mm joiner and 177.8mm joiner
152.4mm + 152.4mm = 304.8mm ÷ 2 = 152.4mm	152.4mm + 177.8mm = 330.2mm ÷ 2 = 165.1mm	177.8mm + 177.8mm = 355.6mm ÷ 2 = 177.8mm
bolt-hole spacing	bolt-hole spacing	bolt-hole spacing

If joiners are used, they should always be installed in the center of the base edge.

Whenever possible, use of 152.4mm-wide sections is recommended for commonality of parts and ease of installation.

For example, consider a 2489.2mm-wide bucket:

Bucket width	No. of 152.4mm standard	No. of 177.8mm joiners
2489.2mm	14 (14 x 152.4mm =2133.6mm)	2 (2 x 177.8mm = 355.6mm)

2133.6mm + 355.6mm = 2489.2mm * + 12.7mm = 2501.9mm

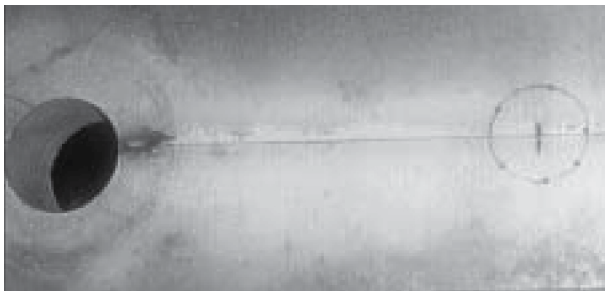
In this case, 16 – 152.4mm sections may also work (16 x 152.4mm = 2438.4mm) (2438.4mm + *12.7mm = 2451.1mm). 19.05mm short on each end may still protect the bucket beyond the corner or side cutters.

**NOTE: The protrusion of the dovetail at each outside end segment adds 6.35mm to each end.*
The total actual length is an additional 12.7mm.

The JAGZ Blade Combinations chart lists suggested combinations of JAGZ sections for various bucket widths. In many cases, use of the offset end sections can allow the all 152.4mm bolt-hole spacing without allowing for any joiners.

RETURN TO CONTENTS PAGE

JAGZ™ INTERNATIONAL EDGES (CONTINUED)



Bucket width	No. of 152.4mm standard	No. of 177.8mm joiners
2.54m	13 (13 x 152.4mm = 1.98m)	3 (3 x 177.8mm = 0.53m)

1.98m + 0.53m = 2.51m *2.53m

Bucket width	No. of 152.4mm standard	No. of 203.2mm end segments
2.54m	14 (14 x 152.4mm = 2.13m)	2 (2 x 203.2mm = 0.41m)

2.13m + 0.41m = 2.54m

Bucket width	No. of 152.4mm standard	No. of 177.8mm joiners
2.84m	15 (15 x 152.4mm = 2.29m)	3 (3 x 177.8mm = 0.53m)

2.29m + 0.53m = 2.82m *2.83m

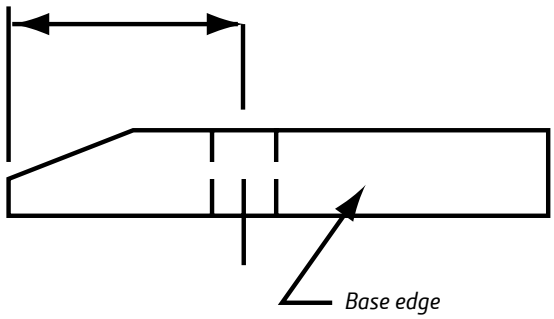
Bucket width	No. of 152.4mm standard	No. of 203.2mm end segments
2.84m	16 (16 x 152.4mm = 2.43m)	2 (2 x 203.2mm = 0.41m)

2.43m + 0.41m = 2.84m

**NOTE: The protrusion of the dovetail at each outside end when using standard sections at the ends adds 6.35mm to each side. The total actual overall length is an additional 12.7mm.*

Basic requirements of bolt-hole pattern

– **Important:** Complete bucket layout and marking bolt-holes before cutting or drilling.
– Every segment uses one bolt-hole.
– The bolt-hole diameter should be 1.59mm larger than the bolt diameter, or 27mm.
– The centerline of the bolt-holes should be approximately 76.2mm to 88.9mm behind the front bevel of the base edge. *L = 76.2mm to 88.9mm*



– Bolt-hole spacing for **standard** sections is 152.4mm
– The distance between the bucket corner, or side cutter, must be 25.4mm to 35mm to allow room for the plow bolt and nut on the end section. The radius of the weld at the corner and the thickness of the side cutter must be taken into consideration.

RETURN TO CONTENTS PAGE

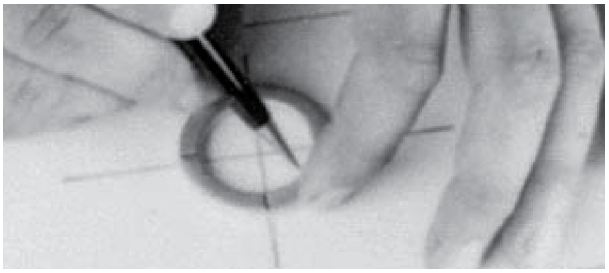
JAGZ™ INTERNATIONAL EDGES (CONTINUED)

Layout Washer (PI7235)

1. Use stringline to establish the centre-line of the bolt-holes to be added.
2. At the center of each bolt-hole to be added, draw a line perpendicular to the centerline.
3. Lay the PI7235* washer over the marks, line up the "crosshairs," and draw a circle on the inside diameter of the washers. The result will be a 27mm-diameter circle.
4. With a center punch, mark the outside diameter of the circle drawn to make it visible when cutting with a torch.

Installing JAGZ on Caterpillar® 980 buckets without adding bolt-holes

JAGZ can be installed on popular CAT® 980C and 980F general-purpose buckets without adding any holes. The following will apply to 980C and 980F 3.32m-wide buckets with a 9V6574 base edge. Edges are punched for edges, teeth, and segments; buckets are punched with a total of 30 holes for 32mm bolts, with 20 used for JAGZ installation.



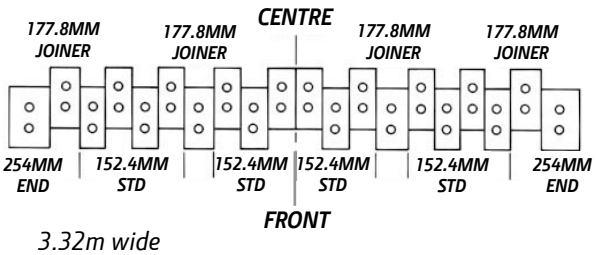
The bucket-assembly numbers are:
– 980C – 6W7800 and 8R6478
– 980F – 6W8564, 9U1275, 9U1287, and 9U1281

The bucket-hole spacing is 154mm ($6^{1}/_{16}$), 160mm ($6^{5}/_{16}$), 168mm ($6^{5}/_{8}$), 155mm ($6^{3}/_{32}$), 160mm ($6^{5}/_{16}$), 155mm ($6^{3}/_{32}$), 155m ($6^{3}/_{32}$), 160mm ($6^{5}/_{16}$), 155mm ($6^{3}/_{32}$), 155mm ($6^{3}/_{32}$), and 160mm ($6^{5}/_{16}$). By using the combination of JAGZ sections listed on the next page and 25.4mm bolts, we are able to cover the bucket width.

JAGZ™ INTERNATIONAL EDGES (CONTINUED)

Schematic drawing for machine model

980C – 6W7800 and 8R6478
980F – 6W8564, 9U1275, 9U1287, and 9U1281
w/ 9V6574 Base Blade



3.32m wide

JAGZ part numbers to use are:

End sections OR End sections	
T840127C (1)	40mm x 254mm x 530mm
T840127C (1)	40mm x 254mm x 530mm
T840128C (1)	40mm x 254mm x 530mm
T840128C (1)	40mm x 254mm x 530mm

Joiners OR Joiners	
T840101C (4)	40mm x 177.8mm x 454mm
T840121C (4)	40mm x 177.8mm x 530mm

Standard OR Standard	
T840100C (14)	40mm x 152.4mm x 454mm
T840120C (14)	40mm x 152.4mm x 530mm

Hardware: (20) PB100375 – 25.4mm plow bolts w/ nuts and (20) T30636 washers.

Note: In high-impact situations, it may be necessary to add one bolt-hole at each end of the bucket so the 254mm-wide end sections can be secured with two bolts to keep from knocking the end sections off.

JAGZ features and benefits

Feature: JAGZ interlocking edges are a revolutionary breakthrough in cutting-edge design that provide the following:

Feature	Advantage
The ability to balance wear from the corner to the center.	You can be assured you are getting the maximum amount of usable ground-engaging steel for the cost.
Flexibility, with a tooth pattern or straight edge on loaders and a level tooth cut or drop center on scrapers.	You can be confident in your ability to match the cutting-edge configuration to the specific job condition.
Commonality of parts among various equipment makes and models.	You don't have to worry about buying or stocking a large assortment of edges to fit different machine makes and models in order to maximize uptime.
An edge system that is easily changed by one person without the use of lifting equipment.	You know potential mishaps are avoided when using easy-to-handle individual JAGZ sections.
No tooth/adapter grooves left in work-area floor in loader applications.	You will not experience excessive tire wear caused by the grooves left by abrasive materials in the work-area floor.
No teeth, adapters, or segments to buy for loaders or tooth/adapter or integral tooth systems to buy for scrapers.	You can be satisfied that you are maximizing expenses by using a single ground-engaging system that offers practical choices for matching the right tool to the job.

RETURN TO CONTENTS PAGE

DOMINATE
THE TERRAIN.

Half-arrow designs offer the benefits of more material in high-wear areas, increased bucket capacity, and enhanced bucket penetration.

Half-Arrow Blades

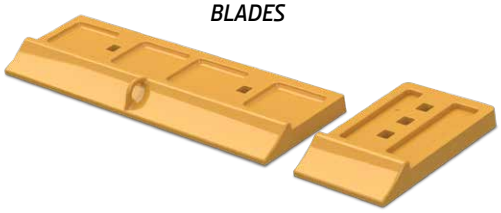
Meet your everyday job solution

Half-arrow edges and segments are built to perform using HighSpec Alloy X14 steel for excellent wear characteristics and superior impact resistance. Half-arrow edges are used to replace the standard double-bevel design commonly used on loaders when no tooth and adapter options are installed. Segments are placed between loader teeth to protect the base edge of the bucket. The half-arrow design offers enhanced protection for the edge and bevel. Combining half-arrow-shaped segments or blades with base-edge covers completely protects the base edge from abrasion.

Get more where you need it

Maximum depth countersinking allows for optimum wear before the bolt head's failure. The sharpened nose design enables excellent penetration capability and enhanced material flow into the bucket. The combination of half-arrow blades and base-edge covers protects the base edge while optimising the flow of material into and out of the bucket. This unique design puts more wear material where it is needed most, on the underside of the bucket where abrasion is highest.

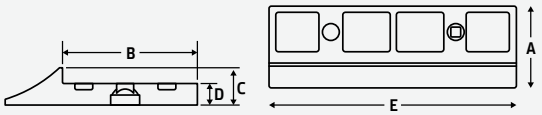
BLADES



COVER PLATES

HALF-ARROW BLADES

BLADE SIZE REFERENCE



Models	Part Number	Name / Description	Qty.	Bucket Width (mm)	Weight (kg)	Number of Holes	Measurements (mm)				
							A	B	C	D	E
644 (J, H)/ 724 (J)	T167829HAR	End RH	1	2921	24.3	3	375	283	60	41	237
	T167828HAN	CTR Blade	3	2921	59.1	2	263	171	60	41	804
	T167829HAL	End LH	1	2921	24.3	3	375	283	60	41	237
	644HA114TPR	Top Cover Plate (right)	1	2921	11.2	2					
	644HA114TP	Top Cover Plate (center)	2	2921	17.0	2			Not Applicable		
	644HA114TPL	Top Cover Plate (left)	1	2921	11.2	2					
	T146933	Bolt	12	2921							
	14H1048	Nut	12	2921					Not Applicable		
644/724 (L, K, J, H)	T167829HAR	End RH	1	3048	24.3	3	375	283	60	41	237
	T171386HANC	CTR Blade	1	3048	61.6	2	263	171	60	41	844
	T171386HAN	CTR Intermediate	2	3048	62.6	2	263	171	60	41	854
	T167829HAL	End LH	1	3048	24.3	3	375	283	60	41	237
	724HA120TPR	Top Cover Plate (right)	1	3048	12.0	2					
	724HA120TP	Top Cover Plate (center)	2	3048	18.1	2			Not Applicable		
	724HA120TPL	Top Cover Plate (left)	1	3048	12.0	2					
	T146933	Bolt	12	3048							
	14H1048	Nut	12	3048					Not Applicable		
744 (J, H)	AT139622HAR	End RH	1	3048	29.4	3	397	305	73	44	242
	T167922HAN	CTR Blade	3	3048	63.4	2	289	197	67	38	843
	AT139622HAL	End LH	1	3048	29.4	3	397	305	73	44	242
	744HA120TPR	Top Cover Plate (right)	1	3048	11.5	2					
	744HA120TP	Top Cover Plate (center)	2	3048	17.8	2			Not Applicable		
	744HA120TPL	Top Cover Plate (left)	1	3048	11.5	2					
	T79002	Bolt	12	3048							
	14H1114	Nut	12	3048					Not Applicable		
744/824 (L, K, J)	AT139622HAR	Half Arrow – Long End Edge (right)	1	3277	29.4	3	397	305	73	44	242
	T156530HANR	Half Arrow – Short Edge (right)	1	3277	70.0	2	289	197	67	38	929
	T156530HANC	Half Arrow – Short Edge (center)	1	3277	68.2	2	289	197	67	38	908
	T156530HANL	Half Arrow – Short Edge (left)	1	3277	70.0	2	289	197	67	38	929
	AT139622HAL	Half Arrow – Long End Edge (left)	1	3277	29.4	3	397	305	73	44	242
	824HA129TPR	Top Cover Plate (right)	1	3277	12.6	2					
	824HA129TP	Top Cover Plate (center)	2	3277	19.2	2			Not Applicable		
	824HA129TPL	Top Cover Plate (left)	1	3277	12.6	2					
	T297644	Bolt	12	3277							
	14H1114	Nut	12	3277					Not Applicable		
844 (L, K, J)	T196455HA	Half Arrow – Short End Edge	2	3454	38.5	3	425	307	80	47	282
	T198126HA	Half Arrow – Long Edge (center)	3	3454	126.7	4	425	307	80	47	954
	844HATPR	Top Cover Plate (right)	1	3454	14.1	2					
	844HATP	Top Cover Plate (center)	2	3454	20.7	2			Not Applicable		
	844HATPL	Top Cover Plate (left)	1	3454	14.1	2					
	T297644	Bolt	18	3454							
	14H1114	Nut	18	3454					Not Applicable		
844AH (L, K-III)	T196455HA	Half Arrow – Short End Edge	2	3658	38.5	3	425	307	80	47	282
	T361235HAN	Half Arrow – Long Edge (center)	3	3658	107.0	4	325	207	80	47	1022
	844AHHATPR	Top Cover Plate (right)	1	3658	14.7	3					
	844AHHATP	Top Cover Plate (center)	2	3658	21.8	4			Not Applicable		
	844AHHATPL	Top Cover Plate (left)	1	3658	14.7	3					
	T297644	Bolt	18	3658							
	14H1114	Nut	18	3658					Not Applicable		

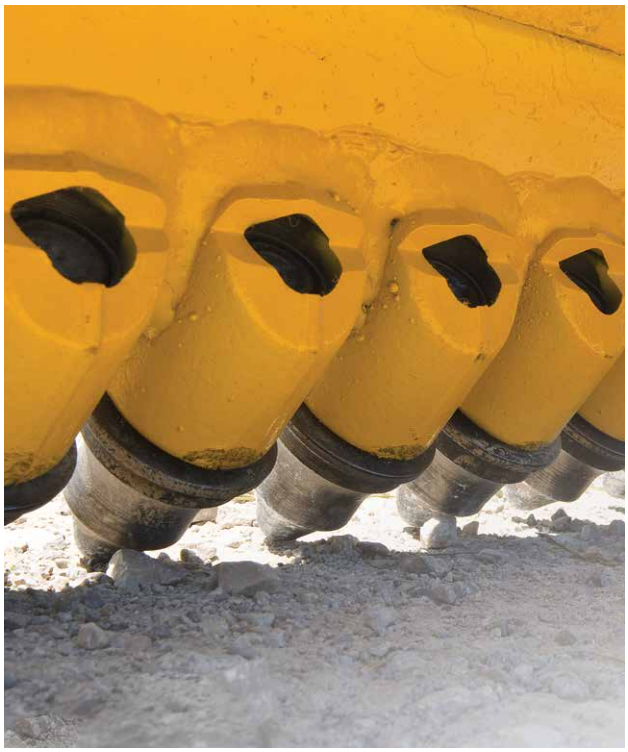
RETURN TO CONTENTS PAGE

MAKING THE C

SMOOTH OUT THE BUMPS IN YOUR BUDGET

John Deere Stinger™ scarifier-style grader edges deliver consistent, reliable performance in a wide range of applications. Stingers eliminate washboarding and potholes, requiring fewer passes than standard grader blades, as well as decreasing the number of passes necessary to properly maintain a road surface.

RETURN TO CONTENTS PAGE



The right tool

These tungsten-carbide-tipped cutting tools are stronger than steel and penetrate hard-packed, gravel, and frozen surfaces easily. Stinger replaceable, rotating, self-sharpening tools wear uniformly and maintain an even cutting height because they can be rotated from position to position.

Ready for duty

Stingers come in over a dozen tool styles and fit universally into three blade strengths for a variety of applications:

STANDARD DUTY: ideal for light-use grading in average conditions

HEAVY DUTY: useful in most grading environments

SEVERE DUTY: best for working in extreme elements

Improved protection

Wear-resistant steel cover blades are available for operating your scarifier system in extremely abrasive conditions or carrying heavy debris loads on the mouldboard. These cover blades provide better protection for the blocks and welds, and easily attach on the blade through existing bolt-holes. End protectors are also available for working in rough conditions. Tough steel, heavy-duty designed end protection bits feature an exclusive combination of ductility and air-hardening steel.

JOHN DEERE STINGER™ SCARIFIER-STYLE GRADER EDGES

Tool Holders

Mouldboard, 3.66-m (12 ft.), with 16-mm (5/8 in.) Bolts

Choose a Blade Stength; 72 Tools Required

Blade Strength	Part No.	Length (m)	Qty.
Standard Duty	PBS48625	1.22	3
Heavy Duty	PBS48625HD	1.22	3
Severe Duty	PBS48625SD	1.22	3

Mouldboard, 3.66-m (12 ft.), with 19-mm (3/4 in.) Bolts

Choose a Blade Stength; 72 Tools Required

Blade Strength	Part No.	Length (m)	Qty.
Standard Duty	PBS48750	1.22	3
Heavy Duty	PBS48750HD	1.22	3
Severe Duty	PBS48750SD	1.22	3

Mouldboard, 3.96-m (13 ft.), with 16-mm (5/8 in.) Bolts

Choose a Blade Stength; 78 Tools Required

Blade Strength	Part No.	Length (m)	Qty.
Standard Duty	PBS36625	0.91	3
	PBS48625	1.22	1
Heavy Duty	PBS36625HD	0.91	3
	PBS48625HD	1.22	1
Severe Duty	PBS36625SD	0.91	3
	PBS48625SD	1.22	1

Mouldboard, 3.96-m (13 ft.), with 19-mm (3/4 in.) Bolts

Choose a Blade Stength; 78 Tools Required

Blade Strength	Part No.	Length (m)	Qty.
Standard Duty	PBS36750	0.91	3
	PBS48750	1.22	1
Heavy Duty	PBS36750HD	0.91	3
	PBS48750HD	1.22	1
Severe Duty	PBS36750SD	0.91	3
	PBS48750SD	1.22	1

Mouldboard, 4.27-m (14 ft.), with 16-mm (5/8 in.) Bolts

Choose a Blade Stength; 84 Tools Required

Blade Strength	Part No.	Length (m)	Qty.
Standard Duty	PBS36625	0.91	2
	PBS48625	1.22	2
Heavy Duty	PBS36625HD	0.91	2
	PBS48625HD	1.22	2
Severe Duty	PBS36625SD	0.91	2
	PBS48625SD	1.22	2

Mouldboard, 4.27-m (14 ft.), with 19-mm (3/4 in.) Bolts

Choose a Blade Stength; 84 Tools Required

Blade Strength	Part No.	Length (m)	Qty.
Standard Duty	PBS36750	0.91	2
	PBS48750	1.22	2
Heavy Duty	PBS36750HD	0.91	2
	PBS48750HD	1.22	2
Severe Duty	PBS36750SD	0.91	2
	PBS48750SD	1.22	2

Mouldboard, 4.88-m (16 ft.), with 16-mm (5/8 in.) Bolts

Choose a Blade Stength; 96 Tools Required

Blade Strength	Part No.	Length (m)	Qty.
Standard Duty	PBS48625	1.22	4
Heavy Duty	PBS48625HD	1.22	4
Severe Duty	PBS48625SD	1.22	4

Tool Holders *(continued)*

Mouldboard, 4.88-m (16 ft.), with 19-mm (3/4 in.) Bolts

Choose a Blade Stength; 96 Tools Required

Blade Strength	Part No.	Length (m)	Qty.
Standard Duty	PBS48750	1.22	4
Heavy Duty	PBS48750HD	1.22	4
Severe Duty	PBS48750SD	1.22	4

Tools

For Stinger-Style Grading Edges

Part No.	Qty.	Remarks
TY26331	1	Max-Duty Bit with Superior Rotation
AT164846	50	Max-Duty Bit with Barbed Short Retainer
AT164849	50	Pointed Tip with Barbed Short Retainer
TY25290	1	Pointed Tip, Fits Competitive Systems
AT166866	50	Sharp Pointed with Long Retainer
PMC-87HDRP	1	Blunt Nose Tip with Superior Rotation
PM3386038	50	Blunt Nose Economy-Sized Tip
TY25293	1	Mining-Duty Tip, **only** Fits Competitive Systems

Cover Blades

For Standard and Heavy-Duty Blades

Part No.	Thickness	Width	Length	Bolt Diameter
TY25301	19 mm (0.75 in.)	127 mm (5 in.)	915 mm (36 in.)	16 mm (0.63 in.)
TY25302	19 mm (0.75 in.)	127 mm (5 in.)	1220 mm (48 in.)	16 mm (0.63 in.)
TY25303	19 mm (0.75 in.)	127 mm (5 in.)	915 mm (36 in.)	19 mm (0.75 in.)
TY25304	19 mm (0.75 in.)	127 mm (5 in.)	1220 mm (48 in.)	19 mm (0.75 in.)

For Severe-Duty Blades

Part No.	Thickness	Width	Length	Bolt Diameter
TY25305	19 mm (0.75 in.)	152 mm (6 in.)	915 mm (36 in.)	16 mm (0.63 in.)
TY25306	19 mm (0.75 in.)	152 mm (6 in.)	1220 mm (48 in.)	16 mm (0.63 in.)
TY25307	19 mm (0.75 in.)	152 mm (6 in.)	915 mm (36 in.)	19 mm (0.75 in.)
TY25308	19 mm (0.75 in.)	152 mm (6 in.)	1220 mm (48 in.)	19 mm (0.75 in.)

End Protectors

For Standard and Heavy-Duty Blade Systems

Part No.	Bolt Design	End Protector	Bolt Diameter	Approximate Unit Weight
AT167312	2	RH	16 mm (0.63 in.)	4.5 kg (10 lb.)
AT167313	2	LH	16 mm (0.63 in.)	4.5 kg (10 lb.)
AT168705	2	RH	19 mm (0.75 in.)	4.5 kg (10 lb.)
AT168706	2	LH	19 mm (0.75 in.)	4.5 kg (10 lb.)

For Severe-Duty Blade Systems

Part No.	Bolt Design	End Protector	Bolt Diameter	Approximate Unit Weight
TY25288	2	RH	19 mm (0.75 in.)	9.5 kg (21 lb.)
TY25289	2	LH	19 mm (0.75 in.)	9.5 kg (21 lb.)
PM1821674	3	RH	19 mm (0.75 in.)	9.5 kg (21 lb.)
PM1821679	3	LH	19 mm (0.75 in.)	9.5 kg (21 lb.)

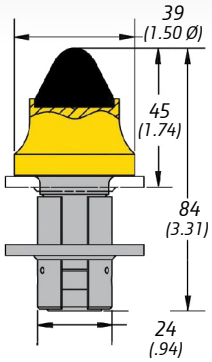
RETURN TO CONTENTS PAGE

JOHN DEERE STINGER™ CUTTING TOOL REFERENCE GUIDE

Part No.	Stinger Blade System	Sandvik Blade System	Description	Applications
TY26331	•		Maximum Duty, Improved Retainer	Maximum life, general purpose. Best all-around value and performance; upgrade replacement for AT164846 tools
AT164846	•		Maximum Duty, Short Barbed Retainer	Maximum life, general purpose.
AT164849	•		Regular Duty, Short Barbed Retainer	Good life, for easier penetration in hard materials but with barbed retainer, for improved retention
TY25290	•	•	Sharp Tip, Smooth Retainer	Good life tip, pointed for penetration, with shank to fit Sandvik or Stinger blades
AT166866	•		Sharp Tip, Long Retainer	Excellent in soft to medium-hard abrasive conditions. Ideal for removing high spots on asphalt-paved roads
PMC-87HDRP	•		Heavy Tip Blunt Style, Full Body, Improved Retainer and Washer	Tip like Sandvik's 2244-28FS but with a shank specifically designed for Stinger blades including our newest/best retention system
PM3386038	•	•	Regular Duty, Blunt Style	Like Sandvik's 2244-28FS. Has same carbide volume but fuller steel body. Economical tip when competing directly on bids
TY25293		•	Large Tip for Sandvik Mining Systems	Specifically for Sandvik mining-duty system

RETURN TO CONTENTS PAGE

TY26331



– Superior wear and rotation.

– Washer blocks debris and improves rotation, for longer bit life and less block wear.

– Full-sleeve retainer protects the inside of the bore, to prevent uneven wear.

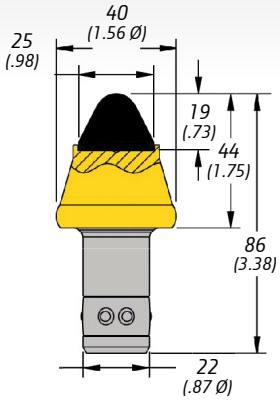
– Washer precompresses the retainer, making it easier to install.

– Retainer grips tighter to prevent bit loss.

Packaging information

PIECES PER CONTAINER	WEIGHT
1	.38 kg (.841 lb.)

AT164846

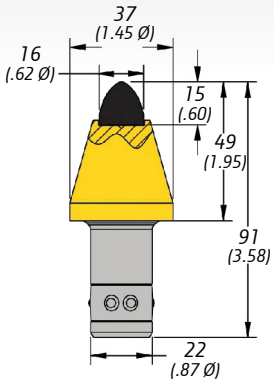


– Same design as AT164848, with added "barbed" short retainer, for improved cutting-tool retention.

Packaging information

PIECES PER CONTAINER	WEIGHT
50	.37 kg (.815 lb.)

AT164849



– Added "barbed" short retainer, for improved retention in block.

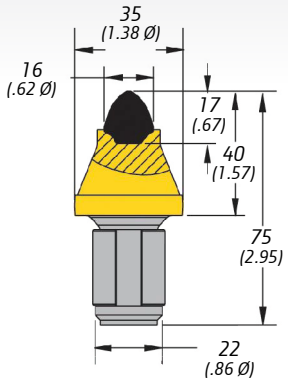
– Larger steel body provides longer wear life.

Packaging information

PIECES PER CONTAINER	WEIGHT
50	.35 kg (.772 lb.)

CUTTING TOOLS AND BLOCKS *(CONTINUED)*

TY25290



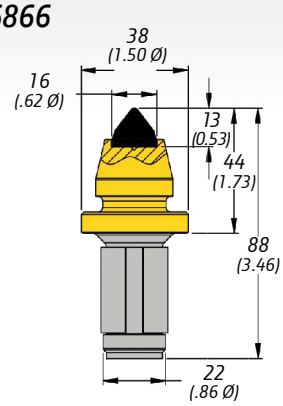
– Sharp carbide tip.

– Also fits competitive blade systems.

Packaging information

PIECES PER CONTAINER	WEIGHT
1	.25 kg (.544 lb.)

AT166866



– Sharp-pointed tip for easy penetration of hard surfaces.

– Excellent in soft to medium-hard abrasive conditions.

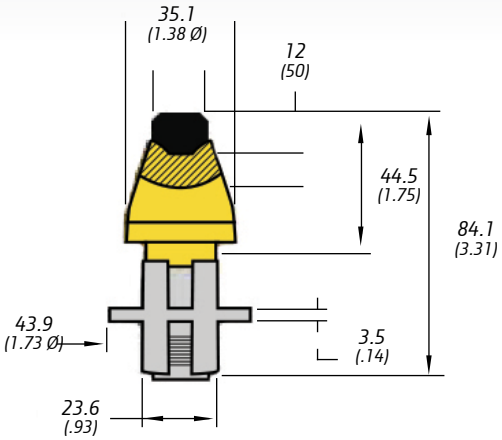
– Specially designed flange protects block face from excessive wear.

– Ideal for removing high spots and washboard effect on asphalt-paved roads.

Packaging information

PIECES PER CONTAINER	WEIGHT
50	.30 kg (.659 lb.)

PMC-87HDRP



– Improves rotation and extends bit wear life.

– Protects the block/toolholder from wear.

– Filters foreign material from entering the toolholder bore.

– Enables more even wear of the toolholder bore.

– Improves retention of the toolholder bit.

– Washer precompresses the retainer, making it easier to install.

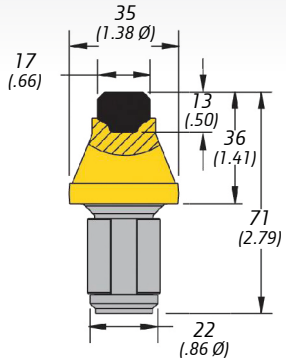
Packaging information

PIECES PER CONTAINER	WEIGHT
1	.34 kg (.756 lb.)

RETURN TO CONTENTS PAGE

CUTTING TOOLS AND BLOCKS (CONTINUED)

PM3386038



– Economy-sized carbide tip.

– Redesigned with 30% stronger braze.

– Additional steel in body style, for added strength and wear life.

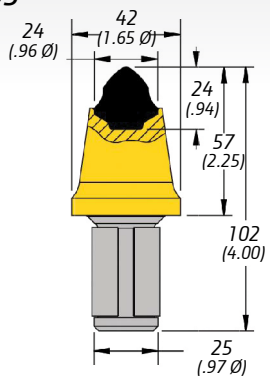
– Also fits competitive blade systems.

– Reliable quality.

Packaging information

PIECES PER CONTAINER	*WEIGHT*
50	*.26 kg (.570 lb.)*

TY25293



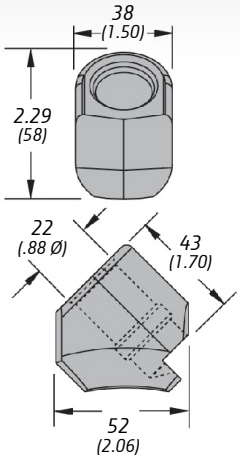
– Specially designed and manufactured for use in competitive mining-duty systems.

– Fits **only** competitive blade designs but contains more carbide than similar competitive designs.

Packaging information

PIECES PER CONTAINER	*WEIGHT*
1	*.54 kg (1.180 lb.)*

T148896



– Replacement toolholder for this line of blade systems (**not** for competitive systems).

– Easily welded with a 7018 or 8018 low-hydrogen rod, with no preheating required.

– Works with all Stinger™ bit-retaining systems.

Packaging information

PIECES PER CONTAINER	*WEIGHT*
1	*.43 kg (.950 lb.)*

RETURN TO CONTENTS PAGE

RETAINERS

PM1011935

– Replacement retainer for use with AT164847, and AT166866 cutting tools.

T150452

– Replacement retainer for use with AT164846 and AT164849 cutting tools.

TY25296

– Replacement retainer for use with AT164848.

TY25295

– Replacement retainer for use with TY25290, TY25291, and PM3386038 cutting tools.

PM1990418

– Replacement retainer for use with TY26331.

PM1104522

– Reduces bolt-hole sizes in blades from 19 mm (.750 in.) to 16 mm (.625 in.).

PM1851733

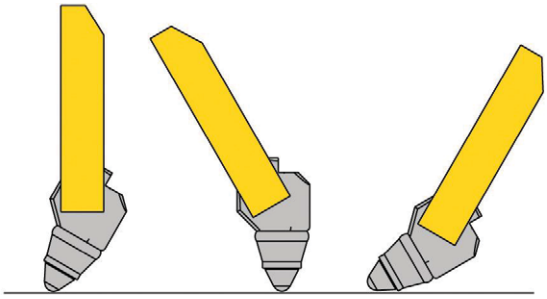
– Replacement retainer for use with TY25293.

RETURN TO CONTENTS PAGE

SCARIFIER BLADES

Maximizing scarifier blade performance

1. It is recommended to use only Grade 8, No. 3 head-plow bolts and matching Grade 8 heavy hex nuts when installing Stinger™ scarifier blades.
2. Position and operate blades at a 90-deg. angle to the road surface so cutting tools are at the proper cutting angle.
3. Carbide-tipped cutting tools should be used to penetrate a depth no greater than 25 mm (1 in.).
4. Inspect the blade and cutting tools daily. Replace lost, worn, or broken cutting tools immediately.
5. These carbide cutting tools are self-rotating and self-sharpening. Inspect them daily by turning them manually to ensure they are rotating properly. Cutting tools that do not turn manually can usually be freed with several light taps from a soft-headed hammer. Clean cutting tools and block assemblies with a solvent cleaner when necessary to ensure their proper rotation. Do not use oil for cleaning as it will cause dirt to adhere to the cutting tool, preventing proper rotation.
6. Stinger blades are intended for scarifying roads to return them to their original aggregate condition. Do not use these blades to remove large rocks or boulders.
7. When transporting scarifier blades fitted with long-retainer cutting tools, be sure to roll the mouldboard backward so the blade is horizontal and the cutting tools are pointed upward. This will prevent the cutting tools from vibrating out of the blade while in transit. (This procedure is not necessary when using short-retainer cutting tools in the blade.)
8. The travel speed of the grader may affect the performance of the blade. When working in heavy-impact applications, use a lower speed such as second gear. This will reduce the risk of cutting-tool breakage or blade damage.
9. Back dragging is not recommended as it increases the risk of breakage or loss of cutting tools, and puts unnecessary stress on the blade, bolts, and mouldboard.
10. Use carbide end protectors in applications such as ditching that subject the side of the blade to wear. End protectors protect the ends of the blade from excessive wear but do not interfere with penetration.



Correct *Incorrect*

Replacing a worn or broken block

1. Cut out the broken block, if necessary, and clean the recess to remove rust and loose material.
2. Align the new block at the appropriate angle and tack the weld into position.
3. Weld around the upper part of the block, first on the front and then the back side of the blade.
4. Use Airco 7018M or equivalent welding material.
5. Use a welding rod (stick) with a maximum 3-mm (.125 in.) diameter or a welding wire with a maximum 1-mm (.052 in.) diameter.
6. Angle the weld gun or rod to run a root pass along the block base where it meets the 13-mm (.5 in.)-wide steel tongue between the blocks. Do not weld back and forth between the blocks. Run one pass on each side of the block in opposite directions to weld it to the blade.

Blade selection guide for various mouldboard lengths

Use the table below to determine the length and number of blades required to equip your grader with a Stinger scarifier system. The length of the mouldboard determines how many 914- or 1219-mm (3 or 4 ft.) blade sections you need.

SIZE AND QUANTITY OF TOOL HOLDER SECTIONS NEEDED FOR (ONE) Mouldboard ASSEMBLY
NOTE: Six cutting tools required per foot

Length of Mouldboard	914-mm (3 ft.) Sections	121-mm (4 ft.) Sections	Number of Cutting Tools Required
3.658 m (12 ft./144 in.)	0	3	72
3.962 m (13 ft./156 in.)	3	1	78
4.267 m (14 ft./168 in.)	2	2	84
4.877 m (16 ft./192 in.)	0	4	96

NOTE: It is recommended to use head-plow bolts and nuts when installing blades.

SCARIFIER BLADES (CONTINUED)

Scarifier blade sizes/ordering information

Upon determining the length and number of scarifier blades required, use this table to determine the specific style of Stinger™ scarifier blade you need — standard, heavy, and/or severe duty. Also use this table to determine the number of cutting tools required.

Thickness	Width	Length	Blade Type	Bolt Diameter	Part No.	Quantity of Cutting Tools Required	Approximate Weight
22 mm (.875 in.)	127 mm (5 in.)	914 mm (36 in.)	Standard duty	16 mm (.625 in.)	PBS36625	18	23 kg (50 lb.)
22 mm (.875 in.)	127 mm (5 in.)	1219 mm (48 in.)	Standard duty	16 mm (.625 in.)	PBS48625	24	32 kg (70 lb.)
22 mm (.875 in.)	127 mm (5 in.)	914 mm (36 in.)	Standard duty	22 mm (.875 in.)	PBS36750	18	23 kg (50 lb.)
22 mm (.875 in.)	127 mm (5 in.)	1219 mm (48 in.)	Standard duty	22 mm (.875 in.)	PBS48750	24	32 kg (70 lb.)
29 mm (1.125 in.)	127 mm (5 in.)	914 mm (36 in.)	Heavy duty	16 mm (.625 in.)	PBS36625HD	18	29 kg (65 lb.)
29 mm (1.125 in.)	127 mm (5 in.)	1219 mm (48 in.)	Heavy duty	16 mm (.625 in.)	PBS48625HD	24	39 kg (86 lb.)
29 mm (1.125 in.)	127 mm (5 in.)	914 mm (36 in.)	Heavy duty	22 mm (.875 in.)	PBS36750HD	18	29 kg (65 lb.)
29 mm (1.125 in.)	127 mm (5 in.)	1219 mm (48 in.)	Heavy duty	22 mm (.875 in.)	PBS48750HD	24	39 kg (86 lb.)
29 mm (1.125 in.)	152 mm (6 in.)	914 mm (36 in.)	Severe duty	16 mm (.625 in.)	PBS36625SD	18	37 kg (81 lb.)
29 mm (1.125 in.)	152 mm (6 in.)	1219 mm (48 in.)	Severe duty	16 mm (.625 in.)	PBS48625SD	24	49 kg (109 lb.)
29 mm (1.125 in.)	152 mm (6 in.)	914 mm (36 in.)	Severe duty	22 mm (.875 in.)	PBS36750SD	18	37 kg (81 lb.)
29 mm (1.125 in.)	152 mm (6 in.)	1219 mm (48 in.)	Severe duty	22 mm (.875 in.)	PBS48750SD	24	49 kg (109 lb.)

NOTE: The above blades feature conical toolholder blocks positioned on 51-mm (2 in.) centers. All blades are punched in a heavy-duty standard highway punch pattern, meaning the last two holes of each blade are on 76-mm (3 in.) centers, with the rest of the holes on 152-mm (6 in.) centers.

Cover blades

These wear-resistant steel cover blades are recommended for scarifier systems that operate in extremely abrasive conditions or for mouldboards that carry heavy debris loads.

Features:

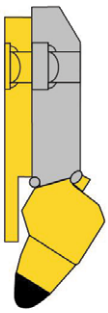
– Improved design provides better protection of blocks and welds.

– Construction includes thicker, more wear-resistant steel.

– Attachment is easy through the existing bolt-holes on the blade.

– Change cover-blade sections without changing the entire scarifier blade.

Bolts that are 19-mm (.75 in.) longer than those used to attach the scarifier blade to the mouldboard are required.



THICKNESS	*WIDTH*	*LENGTH*	*PART NO.*	*BOLT DIAMETER*
For Standard-Duty Blades:				
19 mm (.750 in.)	127 mm (5 in.)	914 mm (36 in.)	TY25301	16 mm (.625 in.)
19 mm (.750 in.)	127 mm (5 in.)	1219 mm (48 in.)	TY25302	16 mm (.625 in.)
19 mm (.750 in.)	127 mm (5 in.)	914 mm (36 in.)	TY25303	19 mm (.750 in.)
19 mm (.750 in.)	127 mm (5 in.)	1219 mm (48 in.)	TY25304	19 mm (.750 in.)
For Severe-Duty Blades:				
19 mm (.750 in.)	152 mm (6 in.)	914 mm (36 in.)	TY25305	16 mm (.625 in.)
19 mm (.750 in.)	152 mm (6 in.)	1219 mm (48 in.)	TY25306	16 mm (.625 in.)
19 mm (.750 in.)	152 mm (6 in.)	914 mm (36 in.)	TY25307	19 mm (.750 in.)
19 mm (.750 in.)	152 mm (6 in.)	1219 mm (48 in.)	TY25308	19 mm (.750 in.)

RETURN TO CONTENTS PAGE

DUAL CARBIDE AND LATTICE EDGES

Dual carbide features, advantages, and benefits:

– Provides maximum wear resistance.

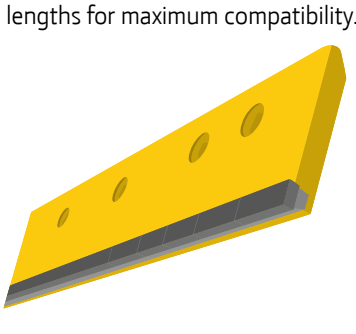
– Features two tungsten carbide inserts, specifically designed for high-abrasion and low-impact applications.

– Exclusive, innovative blade design outlasts imbedded carbide granule-style blades.

– First insert mounted on the front of the blade provides toughness and impact resistance, while the second insert is directly behind and resists wear caused by down pressure.

– Resists "crowning" and maintains a straighter cutting edge throughout the life of the blade.

– Features a universal bolt-hole and a variety of available lengths for maximum compatibility.



Dual Carbide Edges

Part No.	Thickness	Width	Length	Bolt Diameter	Weight
PM1011871	22 mm (0.875 in.)	127 mm (5 in.)	610 mm (24 in.)	16 mm (0.625 in.)	15 kg (32 lb.)
PBC36625	22 mm (0.875 in.)	127 mm (5 in.)	914 mm (36 in.)	16 mm (0.625 in.)	22 kg (48 lb.)
PBC48625	22 mm (0.875 in.)	127 mm (5 in.)	1219 mm (48 in.)	16 mm (0.625 in.)	29 kg (63 lb.)
PM1311238	22 mm (0.875 in.)	127 mm (5 in.)	1524 mm (60 in.)	16 mm (0.625 in.)	35 kg (77 lb.)
PBC48750	22 mm (0.875 in.)	127 mm (5 in.)	1219 mm (48 in.)	19 mm (0.75 in.)	29 kg (63 lb.)

Dual Carbide Cover Blades

Part No.	Thickness	Width	Length	Bolt Diameter	Weight
PM2492564	19 mm (0.75 in.)	102 mm (4 in.)	914 mm (36 in.)	16 mm (0.625 in.)	12 kg (26 lb.)
PM2478681	19 mm (0.75 in.)	102 mm (4 in.)	1219 mm (48 in.)	16 mm (0.625 in.)	15 kg (33 lb.)
PM2872390	19 mm (0.75 in.)	102 mm (4 in.)	914 mm (36 in.)	19 mm (0.75 in.)	12 kg (26 lb.)

Steel End Protectors

Part No.	Bolts	End Protector	Bolt Diameter	Weight
PBC625	16	LH or RH	16 mm (0.625 in.)	4 kg (9 lb.)
PBC750	19	LH or RH	19 mm (0.750 in.)	4 kg (9 lb.)

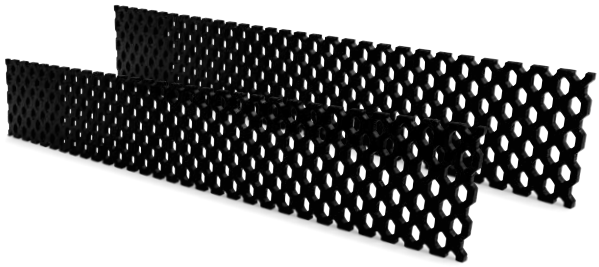
Lattice features, advantages, and benefits:

– Designed to cut into and rough up snow or ice, so sand or salt can stay on the roadway.

– Holes in the edge allow smaller material to filter back onto roadway.

– Fully rotatable and flippable design for maximum use.

– Quick and easy to change-out over conventional blades.



Lattice Edges

Part No.	Thickness	Width	Length	Weight
T401237	13 mm (0.5 in.)	241 mm (11 in.)	914 mm (36 in.)	14 kg (31 lb.)
T401240	13 mm (0.5 in.)	241 mm (11 in.)	1219 mm (48 in.)	20 kg (44 lb.)
T401241	13 mm (0.5 in.)	241 mm (11 in.)	1524 mm (60 in.)	25 kg (55 lb.)

Lattice Edge Adapters

Part No.	Thickness	Width	Length	Bolt Diameter	Weight
T401243	19 mm (0.75 in.)	152 mm (6 in.)	1524 mm (60 in.)	16 mm (0.625 in.)	31 kg (68.2 lb.)
T401245	19 mm (0.75 in.)	152 mm (6 in.)	1829 mm (72 in.)	16 mm (0.625 in.)	37 kg (81.4 lb.)
T401247	19 mm (0.75 in.)	152 mm (6 in.)	2134 mm (84 in.)	16 mm (0.625 in.)	43 kg (94.6 lb.)
T401248	19 mm (0.75 in.)	152 mm (6 in.)	2438 mm (96 in.)	16 mm (0.625 in.)	49 kg (107.8 lb.)
T401244	19 mm (0.75 in.)	152 mm (6 in.)	1524 mm (60 in.)	19 mm (0.75 in.)	31 kg (68.2 lb.)
T401246	19 mm (0.75 in.)	152 mm (6 in.)	1829 mm (72 in.)	19 mm (0.75 in.)	37 kg (81.4 lb.)
T401242	19 mm (0.75 in.)	152 mm (6 in.)	2134 mm (84 in.)	19 mm (0.75 in.)	43 kg (94.6 lb.)
T401249	19 mm (0.75 in.)	152 mm (6 in.)	2438 mm (96 in.)	19 mm (0.75 in.)	49 kg (107.8 lb.)

Lattice Hardware

1 of each needed per 305 mm (12 in.) of Mouldboard	
Part No.	**Description**
T401368	Wedge
T401369	Washer
T401370	Wedge Bolt
09H1776	Bolt
14H1095	Nut

RETURN TO CONTENTS PAGE

SERRATED CUTTING EDGES

Serrated cutting edges

Now available for Compact Construction Equipment products, these bolt-on serrated cutting edges are simple to install on six bucket sizes ranging from 1524 mm to 2286 mm (60 in. to 90 in.). Now you can improve penetration and aggressiveness over smooth-edge options, easily hold cut depth while excavating, and even use the edge for grading and back dragging.

Bolt-On Serrated Edges

Part No.	Thickness	Length	Weight
T394965	16 mm (0.625 in.)	1524 mm (60 in.)	31 kg (68 lb.)
T394966	16 mm (0.625 in.)	1676 mm (66 in.)	34 kg (75 lb.)
T385220	16 mm (0.625 in.)	1829 mm (72 in.)	36 kg (80 lb.)
T385219	16 mm (0.625 in.)	1981 mm (78 in.)	40 kg (88 lb.)
T385218	19 mm (0.75 in.)	2134 mm (84 in.)	52 kg (114 lb.)
T358933	19 mm (0.75 in.)	2286 mm (90 in.)	56 kg (123 lb.)

Bucket Widths

Model	1676 mm (66 in.)	1829 mm (72 in.)	1981 mm (78 in.)	2134 mm (84 in.)
312GR	x			
314G	x			
316GR	x			
317G	x	x		
318G	x	x		
320G	x	x	x	
324G	x	x	x	
325G		x	x	
330G			x	x
331G			x	x
332G			x	x
333G			x	x

BUCKET PROTECTION

Chocky bars and wear buttons

Add additional wear protection to your buckets with your choice of five different wear button size options and seven sizes of chocky bars. They're easily welded to the bucket and contain a mild steel backing — helping protect your assets and extend bucket life.

Chocky Bars

Part No.	Thickness	Width	Length	Weight
T396279	25 mm (0.98 in.)	25 mm (0.98 in.)	240 mm (9.45 in.)	1.0 kg (2.2 lb.)
T396280	25 mm (0.98 in.)	40 mm (1.57 in.)	240 mm (9.45 in.)	1.6 kg (3.5 lb.)
T396281	25 mm (0.98 in.)	50 mm (1.97 in.)	240 mm (9.45 in.)	2.0 kg (4.4 lb.)
T396282	25 mm (0.98 in.)	65 mm (2.56 in.)	240 mm (9.45 in.)	2.7 kg (6 lb.)
T396283	25 mm (0.98 in.)	90 mm (3.54 in.)	240 mm (9.45 in.)	3.5 kg (7.7 lb.)
T396284	25 mm (0.98 in.)	100 mm (3.94 in.)	240 mm (9.45 in.)	4.0 kg (8.8 lb.)
T396285	25 mm (0.98 in.)	130 mm (5.12 in.)	240 mm (9.45 in.)	5.3 kg (11.6 lb.)

Wear Buttons

Part No.	Thickness	Diameter	Weight
T396286	25 mm (0.98 in.)	60 mm (2.36 in.)	0.7 kg (1.57 lb.)
T396287	25 mm (0.98 in.)	75 mm (2.95 in.)	0.9 kg (2.01 lb.)
T396288	30 mm (1.18 in.)	90 mm (3.54 in.)	1.3 kg (2.91 lb.)
T396290	41 mm (1.61 in.)	150 mm (5.91 in.)	5.6 kg (12.32 lb.)

RETURN TO CONTENTS PAGE

JOHN DEERE CUTTING EDGES

MOTOR GRADERS

670G/GP / 672G/GP / 770G/GP / 772G/GP / 870G/GP / 872G/GP

12-ft. Mouldboard, 3.66-m x 686-mm x 25-mm (12 ft. x 27 in. x 1 in.) with 19-mm x 203-mm (3/4 in. x 8 in.) Cutting Edges and 16-mm (5/8 in.) Hardware

Part No.	Part Name	Qty.	Remarks
T202876	Dura-Max™ Cutting Edge	2	Outer
T66703	Dura-Max Cutting Edge	2	Inner

13-ft. Mouldboard, 3.96-m x 686-mm x 25-mm (13 ft. x 27 in. x 1 in.) with 19-mm x 203-mm (3/4 in. x 8 in.) Cutting Edges and 16-mm (5/8 in.) Hardware

Part No.	Part Name	Qty.	Remarks
T202876	Dura-Max Cutting Edge	2	Outer
T66703	Dura-Max Cutting Edge	1	Inner
T66704	Dura-Max Cutting Edge	1	Inner

14-ft. Mouldboard, 4.27-m x 686-mm x 25-mm (14 ft. x 27 in. x 1 in.) with 19-mm x 203-mm (7/8 in. x 8 in.) Cutting Edges and 16-mm (5/8 in.) Hardware

Part No.	Part Name	Qty.	Remarks
T202876	Dura-Max Cutting Edge	2	Outer
T66704	Dura-Max Cutting Edge	2	Inner

14-ft. Mouldboard, 4.27-m x 686-mm x 25-mm (14 ft. x 27 in. x 1 in.) with 19-mm x 203-mm (3/4 in. x 8 in.) Cutting Edges and 19-mm (3/4 in.) Hardware

Part No.	Part Name	Qty.	Remarks
T218922	Dura-Max Cutting Edge	2	Outer
T74772	Dura-Max Cutting Edge	2	Inner

620G/GP / 622G/GP / 670G/GP / 672G/GP / 770G/GP / 772G/GP

12-ft. Mouldboard, 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x 7/8 in.) with 16-mm x 152-mm (5/8 in. x 6 in.) Cutting Edges and 16-mm (5/8 in.) Hardware

Part No.	Part Name	Qty.	Remarks
T202876	Dura-Max Cutting Edge	2	Outer
T66702	Dura-Max Cutting Edge	2	Inner

12-ft. Mouldboard, 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x 7/8 in.) with 19-mm x 203-mm (3/4 in. x 8 in.) Cutting Edges and 16-mm (5/8 in.) Hardware

Part No.	Part Name	Qty.	Remarks
T202876	Dura-Max Cutting Edge	2	Outer
T66703	Dura-Max Cutting Edge	2	Inner

14-ft. Mouldboard, 4.27-m x 610-mm x 22-mm (14 ft. x 24 in. x 7/8 in.) with 16-mm x 152-mm (5/8 in. x 6 in.) Cutting Edges and 16-mm (5/8 in.) Hardware

Part No.	Part Name	Qty.	Remarks
T202876	Dura-Max Cutting Edge	2	Outer
T66707	Dura-Max Cutting Edge	2	Inner

14-ft. Mouldboard, 4.27-m x 610-mm x 22-mm (14 ft. x 24 in. x 7/8 in.) with 19-mm x 203-mm (3/4 in. x 8 in.) Cutting Edges and 16-mm (5/8 in.) Hardware

Part No.	Part Name	Qty.	Remarks
T202876	Dura-Max Cutting Edge	2	Outer
T66704	Dura-Max Cutting Edge	2	Inner

870G/GP / 872G/GP

16-ft. Mouldboard, 4.88-m x 686-mm x 25-mm (16 ft. x 27 in. x 1 in.) with 19-mm x 203-mm (3/4 in. x 8 in.) Cutting Edges and 19-mm (3/4 in.) Hardware

Part No.	Part Name	Qty.	Remarks
T218922	Dura-Max Cutting Edge	2	Outer
T74773	Dura-Max Cutting Edge	2	Inner

MOTOR GRADERS CUTTING EDGES INDEX

Carbon Blades

Part No.	Thickness	Width	Length	Hole Size
T144356	16 mm	203 mm	914 mm	16 mm
T145767	19 mm	203 mm	914 mm	16 mm
T74856	16 mm	203 mm	1220 mm	16 mm
T74840	12.7 mm	152 mm	1520 mm	16 mm
U46287	16 mm	152 mm	1520 mm	16 mm
T74852	12.7 mm	203 mm	1520 mm	16 mm
T74858	16 mm	203 mm	1520 mm	16 mm
T74841	12.7 mm	152 mm	1830 mm	16 mm
U42494	16 mm	152 mm	1830 mm	16 mm
T74853	12.7 mm	203 mm	1830 mm	16 mm
T74860	16 mm	203 mm	1830 mm	16 mm
T74870	19 mm	203 mm	1830 mm	16 mm
T217945	16 mm	152 mm	2130 mm	16 mm
T42277	16 mm	152 mm	2130 mm	16 mm
T74842	12.7 mm	152 mm	2130 mm	16 mm
T74854	12.7 mm	203 mm	2130 mm	16 mm
T74862	16 mm	203 mm	2130 mm	16 mm
T74872	19 mm	203 mm	2130 mm	16 mm
T74843	12.7 mm	152 mm	2440 mm	16 mm
T74855	12.7 mm	203 mm	2440 mm	16 mm
T74864	16 mm	203 mm	2440 mm	16 mm

Dura-Max Blades

Part No.	Thickness	Width	Length	Hole Size
T66702	16 mm	152 mm	1830 mm	16 mm
T74758	19 mm	152 mm	1830 mm	16 mm
T147392	25.4 mm	203 mm	2130 mm	16 mm
T230323	19 mm	203 mm	610 mm	19 mm
T230324	16 mm	152 mm	610 mm	19 mm
T147391	25.4 mm	203 mm	1830 mm	16 mm
T66704	19 mm	203 mm	2130 mm	16 mm
T66705	16 mm	152 mm	2440 mm	16 mm
T66706	19 mm	203 mm	2440 mm	16 mm
T66707	16 mm	152 mm	2130 mm	16 mm
T66708	19 mm	203 mm	610 mm	16 mm
T66709	16 mm	152 mm	610 mm	16 mm
T66703	19 mm	203 mm	1830 mm	16 mm
T71979	16 mm	203 mm	2130 mm	16 mm
T71980	16 mm	203 mm	2440 mm	16 mm
T74751	16 mm	152 mm	1520 mm	16 mm
T71978	16 mm	203 mm	1830 mm	16 mm
T74760	19 mm	152 mm	2130 mm	16 mm
T74772	19 mm	203 mm	2130 mm	19 mm
T74773	19 mm	203 mm	2440 mm	19 mm
T74776	25.4 mm	203 mm	2130 mm	19 mm

Serrated Blades

Part No.	Thickness	Width	Length	Hole Size
T147191	19 mm	203 mm	1830 mm	16 mm
T147192	19 mm	203 mm	2130 mm	16 mm
T148935	19 mm	203 mm	2440 mm	16 mm
T74885	16 mm	152 mm	1830 mm	16 mm

RETURN TO CONTENTS PAGE

JOHN DEERE CUTTING EDGES *(CONTINUED)*

CRAWLER DOZERS

850L / 850K / 850J

Blade, Power-Angle-Tilt (PAT), 3708 mm (146 in.)

Part No.	Part Name	Qty.	Remarks
T187243	Dura-Max Cutting Edge	1	Straight RH End Bit
T216395	Dura-Max Cutting Edge	1	Cupped RH End Bit
T187244	Dura-Max Cutting Edge	1	Straight LH End Bit
T216394	Dura-Max Cutting Edge	1	Cupped LH End Bit
T187987	Dura-Max Cutting Edge	3	Center

Blade, PAT, 4013 mm (158 in.)

Part No.	Part Name	Qty.	Remarks
T187243	Dura-Max Cutting Edge	1	Straight RH End Bit
T216395	Dura-Max Cutting Edge	1	Cupped RH End Bit
T187244	Dura-Max Cutting Edge	1	Straight LH End Bit
T216394	Dura-Max Cutting Edge	1	Cupped LH End Bit
T187987	Dura-Max Cutting Edge	2	Outer Center
T187988	Dura-Max Cutting Edge	1	Inner Center

Blade, PAT, 4267 mm (168 in.)

Part No.	Part Name	Qty.	Remarks
T187243	Dura-Max Cutting Edge	1	Straight RH End Bit
T216395	Dura-Max Cutting Edge	1	Cupped RH End Bit
T187244	Dura-Max Cutting Edge	1	Straight LH End Bit
T216394	Dura-Max Cutting Edge	1	Cupped LH End Bit
T187988	Dura-Max Cutting Edge	1	Inner Center
T187989	Dura-Max Cutting Edge	2	Outer Center

Blade, Semi-U, 3251 mm (128 in.)

Part No.	Part Name	Qty.	Remarks
T162524	Dura-Max Cutting Edge	2	Center
T160425	Dura-Max Cutting Edge	1	Straight RH End Bit
T160575	Dura-Max Cutting Edge	1	Cupped RH End Bit
T160426	Dura-Max Cutting Edge	1	Straight LH End Bit
T160576	Dura-Max Cutting Edge	1	Cupped LH End Bit

Blade, Semi-U, 3556 mm (140 in.)

Part No.	Part Name	Qty.	Remarks
T160421	Dura-Max Cutting Edge	2	Center
T160425	Dura-Max Cutting Edge	1	RH End Bit
T160426	Dura-Max Cutting Edge	1	LH End Bit

Blade, Semi-U, 3861 mm (152 in.)

Part No.	Part Name	Qty.	Remarks
T200600	Dura-Max Cutting Edge	2	Center
T160425	Dura-Max Cutting Edge	1	RH End Bit
T160426	Dura-Max Cutting Edge	1	LH End Bit

950K

Blade, Semi-U

Part No.	Part Name	Qty.	Remarks
T4T2921	Cutting Edge	1	Center
T1U1192	Cutting Edge	2	Outer

Blade, Heavy-Duty, Semi-U

Part No.	Part Name	Qty.	Remarks
T1050577	End Bit	1	RH End Bit
T1050576	End Bit	1	LH End Bit
T9W9794	Cutting Edge	1	Center
T7T6936	Cutting Edge	2	Outer

Blade, Heavy-Duty, Semi-U, LGP

Part No.	Part Name	Qty.	Remarks
T1050577	End Bit	1	RH End Bit
T1050576	End Bit	1	LH End Bit
T347509	Cutting Edge	1	Center
T7T6936	Cutting Edge	2	Outer

Blade, Heavy-Duty, Straight, OSD

Part No.	Part Name	Qty.	Remarks
T1050577	End Bit	1	RH End Bit
T1050576	End Bit	1	LH End Bit
T7T6678	Cutting Edge	4	Inner/Outer

Blade, Mechanical Angle, LGP

Part No.	Part Name	Qty.	Remarks
T4T2921	Cutting Edge	4	Inner/Outer

1050K

Blade, Heavy-Duty, Semi-U

Part No.	Part Name	Qty.	Remarks
T1003139	End Bit	1	RH End Bit
T1003140	End Bit	1	LH End Bit
T7T9126	Cutting Edge	1	Center
T286728	Cutting Edge	2	Outer

RETURN TO CONTENTS PAGE

JOHN DEERE CUTTING EDGES *(CONTINUED)*

FOUR-WHEEL-DRIVE LOADERS

524K / 544K / 624K

Auxiliary Cutting Edge, 2550 mm (100 in.)

Part No.	Part Name	Qty.	Remarks
T157311	Dura-Max Cutting Edge	2	Inner
T146672	Cutting Edge	2	Outer
T157282	Dura-Max Cutting Edge	1	Weld-On, Bucket Length

Auxiliary Cutting Edge, 2690 mm (106 in.)

Part No.	Part Name	Qty.	Remarks
T157492	Dura-Max Cutting Edge	2	Inner
T146672	Cutting Edge	2	Outer
T157465	Dura-Max Cutting Edge	1	Weld-On, Bucket Length

644K

Bucket, Pin-On, 3.2 m³ (4.25 cu. yd.)/3.4 m³ (4.5 cu. yd.)

Part No.	Part Name	Qty.	Remarks
T171165	Dura-Max Cutting Edge	1	

644K / 724K

Auxiliary Cutting Edge

Part No.	Part Name	Qty.	Remarks
T167829	Cutting Edge	2	Outer
T209348	Dura-Max Cutting Edge	2	Inner

744K / 824K

Auxiliary Cutting Edge

Part No.	Part Name	Qty.	Remarks
AT139622	Dura-Max Cutting Edge	2	
T209349	Dura-Max Cutting Edge	2	

Bucket Teeth

Part No.	Part Name	Qty.	Remarks
T156132	Cutting Edge	7	

BACKHOE LOADERS

310L / 310SL / 315SL / 310K / 310SK / 315SK / 310J / 310SJ / 315SJ / 310G / 310SG / 315SG

310J/310SJ Loader Bucket and Cutting Edge / 315SJ/310G/310SG/ 315SG Coupler Loader Bucket and Cutting Edge

Part No.	Part Name	Qty.	Remarks
T150487	Cutting Edge	1	0.86-m³ (1.13 cu. yd.), 19-mm (3/4 in.) SBF Welded On
T118768	Cutting Edge	1	1.00-m³ (1.31 cu. yd.), 19-mm (3/4 in.) SBF Welded On
T150517	Cutting Edge	1	0.86-m³ (1.13 cu. yd.), 19-mm (3/4 in.) x 203-mm (8 in.) DBF x 2184-mm (86 in.) Auxiliary
T150517HD	Dura-Max Cutting Edge	1	0.86-m³ (1.13 cu. yd.), 25.4-mm (1 in.) x 203-mm (8 in.) DBF x 2184-mm (86 in.) Auxiliary
T84194	Cutting Edge	1	1.00-m³ (1.31 cu. yd.), 19-mm (3/4 in.) x 203-mm (8 in.) DBF x 2346-mm (92 3/8 in.) Auxiliary
T84194HD	Dura-Max Cutting Edge	1	1.00-m³ (1.31 cu. yd.), 25.4-mm (1 in.) x 203-mm (8 in.) DBF x 2346-mm (92 3/8 in.) Auxiliary

SKID STEERS AND COMPACT TRACK LOADERS

Bolt-On Cutting Edge

Part No.	Part Name	Qty.	Remarks
U16748	Cutting Edge	1	1676 mm (66 in.)
T32742	Cutting Edge	1	1829 mm (72 in.)
T223081	Cutting Edge	1	1930 mm (76 in.)
KV12758	Cutting Edge	1	1981 mm (78 in.)
KV12471	Cutting Edge	1	2134 mm (84 in.)

Buckets, Bolt-On Serrated Edges

Part No.	Part Name	Qty.	Remarks
T394966	Cutting Edge	1	1676 mm (66 in.)
T385220	Cutting Edge	1	1829 mm (72 in.)
T385219	Cutting Edge	1	1981 mm (78 in.)
T385218	Cutting Edge	1	2134 mm (84 in.)
T358933	Cutting Edge	1	2286 mm (90 in.)
KV12471	Cutting Edge	1	2134 mm (84 in.)

Dozer Blade Cutting Edge (DB96)

Part No.	Part Name	Qty.	Remarks
T227240	Cutting Edge	1	

RETURN TO CONTENTS PAGE

JOHN DEERE CUTTING EDGES *(CONTINUED)*

BOLTS

Grade 8 Plow Bolts with Nuts

Part No.	Bolt Size	Qty. Per Package	Box Weight	Caterpillar® No. (Bolt Only)
PB500275	12.7 mm x 69.85 mm (1/2 in. x 2 3/4 in.)	125	9.5 kg (21 lb.)	—
PB500300	12.7 mm x 76.2 mm (1/2 in. x 3 in.)	100	8.6 kg (19 lb.)	—
PB625200	15.88 mm x 50.8 mm (5/8 in. x 2 in.)	100	11.8 kg (26 lb.)	4F3654
PB625225	15.88 mm x 57.15 mm (5/8 in. x 2 1/4 in.)	100	12.7 kg (28 lb.)	3F5108
PB625250	15.88 mm x 63.5 mm (5/8 in. x 2 1/2 in.)	90	11.8 kg (26 lb.)	4F3656
PB625300	15.88 mm x 76.2 mm (5/8 in. x 3 in.)	80	12.7 kg (28 lb.)	4F3658
PB625350	15.88 mm x 88.9 mm (5/8 in. x 3 1/2 in.)	65	11.8 kg (26 lb.)	4F3665
PB625400	15.88 mm x 101.6 mm (5/8 in. x 4 in.)	50	8.6 kg (19 lb.)	4F3671
PB750225	19.05 mm x 57.15 mm (3/4 in. x 2 1/4 in.)	70	13.6 kg (30 lb.)	4F7827
PB750250	19.05 mm x 63.5 mm (3/4 in. x 2 1/2 in.)	60	12.25 kg (27 lb.)	5J4773
PB750275	19.05 mm x 69.85 mm (3/4 in. x 2 3/4 in.)	50	10.9 kg (24 lb.)	5J4771
PB750300*	19.05 mm x 76.2 mm (3/4 in. x 3 in.)	50	11.3 kg (25 lb.)	—
PB750350	19.05 mm x 88.9 mm (3/4 in. x 3 1/2 in.)	40	10.4 kg (23 lb.)	—
PB750400	19.05 mm x 101.6 mm (3/4 in. x 4 in.)	30	9.0 kg (20 lb.)	—
PB875275	22.23 mm x 69.85 mm (7/8 in. x 2 3/4 in.)	40	9.0 kg (20 lb.)	6F0196
PB875300	22.23 mm x 76.2 mm (7/8 in. x 3 in.)	30	10.4 kg (23 lb.)	5J2409
PB875350	22.23 mm x 88.9 mm (7/8 in. x 3 1/2 in.)	25	9.5 kg (21 lb.)	2J2548
PB875375	22.23 mm x 95.25 mm (7/8 in. x 3 3/4 in.)	25	10.0 kg (22 lb.)	—
PB875400	22.23 mm x 101.6 mm (7/8 in. x 4 in.)	25	10.4 kg (23 lb.)	—

Grade 8 Plow Bolts with Nuts *(continued)*

Part No.	Bolt Size	Qty. Per Package	Box Weight	Caterpillar No. (Bolt Only)
PB100275	25.4 mm x 69.85 mm (1 in. x 2 3/4 in.)	30	13.6 kg (30 lb.)	1J5607
PB100300	25.4 mm x 76.2 mm (1 in. x 3 in.)	25	11.3 kg (25 lb.)	4F4042
PB100325	25.4 mm x 82.55 mm (1 in. x 3 1/4 in.)	25	12.25 kg (27 lb.)	4J9058
PB100350	25.4 mm x 88.9 mm (1 in. x 3 1/2 in.)	20	10.4 kg (23 lb.)	4J9208
PB100375	25.4 mm x 95.25 mm (1 in. x 3 3/4 in.)	20	10.9 kg (24 lb.)	—
PB100400	25.4 mm x 101.6 mm (1 in. x 4 in.)	20	11.3 kg (25 lb.)	5P8136
PB100450	25.4 mm x 114.3 mm (1 in. x 4 1/2 in.)	15	9.0 kg (20 lb.)	—
PB125375	31.75 mm x 95.25 mm (1 1/4 in. x 3 3/4 in.)	20	19.0 kg (42 lb.)	626535
PB125400	31.75 mm x 101.6 mm (1 1/4 in. x 4 in.)	20	19.5 kg (43 lb.)	—
PB125450	31.75 mm x 114.3 mm (1 1/4 in. x 4 1/2 in.)	20	21.3 kg (47 lb.)	628360
PB125500	31.75 mm x 127 mm (1 1/4 in. x 5 in.)	15	17.7 kg (39 lb.)	—

**PB750300 equals 19.05-mm (.75 in.) diameter, 76.2-mm (3 in.) length.*

WASHERS

Hardened Flat Washers

Part No.	Bolt Diameter	Qty. Per Package	I.D.	O.D	Thickness
T21242	12.7 mm (1/2 in.)	5	13.46 mm (0.53 in.)	25.4 mm (1.00 in.)	3.05 mm (0.12 in.)
T27795	15.88 mm (5/8 in.)	1	14.22 mm (0.56 in.)	25.4 mm (1.00 in.)	6.35 mm (0.25 in.)
T83426	19.05 mm (3/4 in.)	2	1981 mm (0.78 in.)	35.05 mm (1.38 in.)	6.35 mm (0.25 in.)
T56006	22.23 mm (7/8 in.)	5	23.88 mm (0.94 in.)	44.45 mm (1.75 in.)	6.35 mm (0.25 in.)
T30636	25.4 mm (1 in.)	12	26.16 mm (1.03 in.)	44.45 mm (1.75 in.)	6.35 mm (0.25 in.)
T24510	31.75 mm (1 1/4 in.)	2	33.27 mm (1.31 in.)	57.15 mm (2.25 in.)	4.83 mm (0.19 in.)

RETURN TO CONTENTS PAGE

TEETH FOR ALL YOUR APPLICATIONS.

John Deere is committed to providing high-quality ground-engagement tools that result in lower daily operating costs and increased machine uptime for our customers. To help ensure this requirement, all materials used for John Deere bucket teeth and adapters have been metallurgically tested to verify they meet industry-leading impact and hardness specifications. By meeting these requirements, all John Deere bucket teeth and adapters provide superior wear resistance and impact strength in all applications.


MAXIMUM
STRENGTH.

PUT DOWN THE HAMMER

THE TK SYSTEM HITS EVERY MARK.

WHY IT'S BETTER:

The TK-Series System is engineered to deliver maximum performance, quick and safe replacement, and superior tooth retention.

– Multi-planed nose surfaces and matching pocket surfaces absorb loads from any angle, minimising motion for longer system life.

– Optimised tooth-to-nose-length ratio delivers better penetration and performance.

– Forged pin is never under load except during back dragging, and the rubber locks are not compressed when the pin is locked for long life and the rare need for replacement at change-outs.

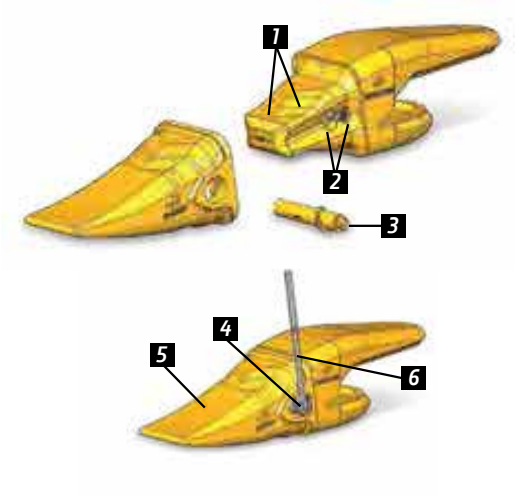
– Rubber locks are held captive when the tooth is retained for security and protection from direct impact.

– Lifetime breakage warranty (contact your local dealer for more information).

JOHN DEERE TK-SERIES TOOTH SYSTEM

The System

1. Symmetrical — nearly parallel — multi-planer nose surfaces for a fully stabilized system
2. Reusable rubber locks — held captive by the tooth — never compressed when the pin is locked for long wear life and very infrequent replacement
3. Reusable retention pin is never loaded[1] for long wear life and very infrequent replacement
4. Pin has both male and female ends that can be inserted from either side
5. Full line of tooth profiles and sizes
6. No hammers or pry bars — a simple socket or breaker bar wrench is all you need



Note: TK-Series teeth installed on new John Deere equipment are painted yellow as shown. Aftermarket TK-Series teeth are black.Two locks are required per adapter.

WHY IT'S BETTER

Performance and Reliability

- No hammers and no pry bars. You just need a socket or breaker bar wrench to install and remove the retention pin for quicker, safer tooth replacement
- Multi-planed nose surfaces and matching pocket surfaces absorb loads from any angle, minimising motion for longer system life
- Optimised tooth-to-nose-length ratio for better penetration and performance
- Symmetrical design allows teeth to be flipped, with pin retention from either side for longer tooth life
- Forged pin is never under load except during back-dragging, and the rubber locks are not compressed when the pin is locked for long life and the rare need for replacement at change-outs
- Rubber locks are held captive when the tooth is retained for security and protection from direct impact

Durability and Strength

- Meets stringent quality specifications for metallurgical composition, toughness, and hardness[1]:
- Metallurgical comparison graph shows TK-Series teeth are very similar to other competitors in the industry
  – TK-Series Rockwell Hardness range: 47–52
  – Charpy V-Notch Toughness at room temperature is >15J
  – Charpy V-Notch Toughness at –40°C/–40°F is 11J-15J
- Nearly five times stronger than older, flex-pin retention systems[2]
- Nearly a 70% consumption ratio[3] means you are getting more for your money
- Over 50% more usage with heavy-duty TK-Series loader teeth[4]
- Less frequent change-outs and more uptime
- Includes a lifetime warranty against breakage*

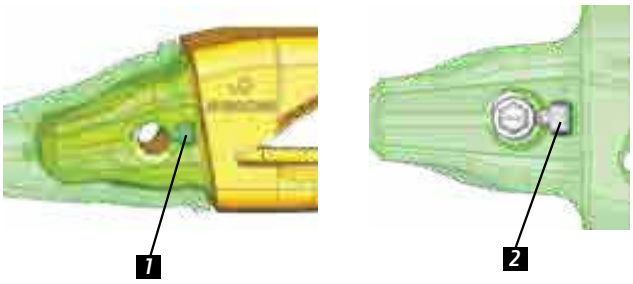
*For more information, **contact your local dealer**.

[1] Material specification comparisons against similar ESCO, MTG, and Hensley tooth products prove that the TK system is a highly competitive system when looking at metallurgy, hardness, and toughness specifications. Results of lab-test comparisons show TK-Series teeth to be equally matched against these competitors for all three composition specifications.

[2] Destructive testing (March 26, 2010) of the TK225FD tooth against the TF23D tooth. The TF system began failing at a load of eight tons with failure of the pin first, followed by plastic deformation of the adapter nose. The TK225 tooth pocket failed at a load of 33.56 tonnes (37 tons) with no failure or deformation of the pin and no deformation of the adapter nose.

[3] Richmond, Virginia, field-test data from August 2012. A set of eight TK550LD teeth and eight TK550LDH teeth on a 81.64 tonne (90-metric-ton) loader loading blasted granite was monitored and weighed at end of life. Data showed an average consumption ratio across all teeth for the LD set to be 67.18%, and 69.29% for the LDH set.

[4] Field-test data from October 2012 showed the TK550LDH (heavy duty) teeth at end of life yielded 550 hours of production compared to an average of 254 hours for two sets of TK550LD (standard duty) teeth tested on the same 81.64 tonne (90-metric-ton) production loader in a blasted granite loading application.



Lock the Turn Kam Pin and it Stays Locked

1. Installed lock is captured by the tooth.
2. The pin is rotated clockwise until the indicator line is horizontal. The rubber lock will relax within the pin recess.

RETURN TO CONTENTS PAGE

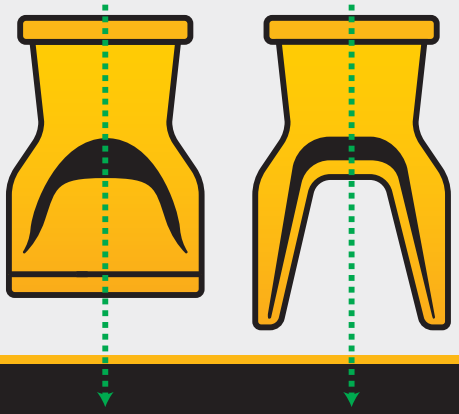
1 SLIP THE TK TOOTH OVER THE ADAPTER NOSE

2 SLIDE THE TURN KAM DETENT PIN INTO THE NOSE

3 ROTATE THE PIN ½ TURN TO LOCK INTO PLACE

FULLY HAMMERLESS

NO HAMMERS OR PRY BARS



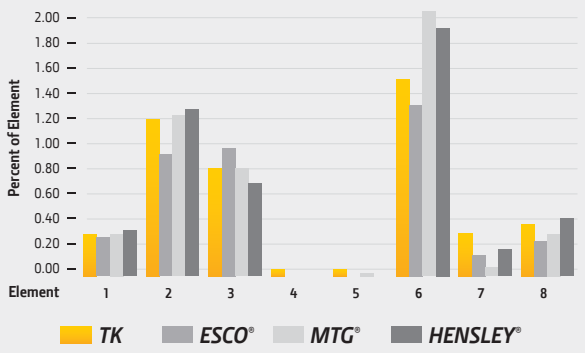
SYMMETRICAL DESIGN

ALLOWS THE TEETH TO BE FLIPPED AND PINS TO BE RETAINED FROM EITHER SIDE

A NEARLY 70-PERCENT CONSUMPTION RATIO MEANS YOU ARE GETTING MORE FOR YOUR MONEY

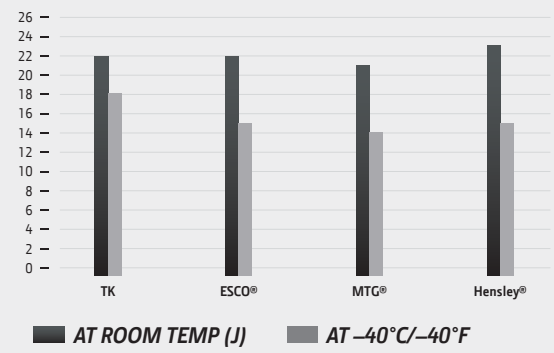
70%

METALLURGICAL COMPARISON GRAPH



TK-SERIES TEETH ARE VERY SIMILAR TO THOSE OF OTHER MAJOR COMPETITORS IN THE INDUSTRY

CHARPY V-NOTCH TOUGHNESS



TK-SERIES MEET OR BEAT TARGET COMPETITORS ON CHARPY V-NOTCH TOUGHNESS COMPARISON.

TK SERIES TOOTH SHAPES

FD — The FD features the proven John Deere Fanggs™ profile, an excellent choice for excavators and backhoes in general-purpose applications. The Fanggs design improves penetration capability through a 22% reduction in required force. The FD features a curved shape for greater strength.

SD — The severe duty (SD) tooth is similar to the John Deere Fanggs profile, but with 20% more material for those tough jobs. This tooth is a great option for excavators in general-purpose applications, but really shines in highly abrasive applications where tooth wear is an issue. Adding more material to the tooth's high-wear areas allows the tooth to continue to perform when a standard tooth may need replacing. This means an increase in tooth life, productivity, and uptime.

CH — The CH, or chisel tooth, is a general application design. It is commonly preferred in rock applications due to good penetration and a self-sharpening, symmetrical profile. The CH provides a good balance between penetration and wear. **NOTE: Not for use on loaders.**

TG — This tooth style, known throughout the industry as a tiger tooth, is designed for excavators and backhoes. The sole purpose of the TG style is maximum penetration through any material. With its symmetrical profile, the reduced area of the body of the tooth makes it an excellent choice for penetrating tightly compacted soils, clay, and even rock.

TT — This tooth is commonly referred to as twin tiger. Having two points rather than a single point, the cut of the TT style is much wider than a single TG tooth. It is commonly used in conjunction with TG teeth fitted to the outside corner positions of excavator and backhoe buckets to maximize clearance during the dig cycle. Like the TG tooth, the symmetrical-profile TT style is designed for optimum penetration.

FR — The symmetrical-profile FR style is referred to as a flare tooth. It is most commonly used in softer soils and applications that require a clean, flat-bottom surface. This tooth has great bucket-fill capability for excavators and backhoes.

LD — This tooth style is specifically designed for loaders. The bottom of the tooth aligns with the bottom of a level loader bucket, resulting in a clean floor. LD teeth wear primarily from the bottom up, so specific placement of tooth mass provides good penetration and long life.

LDH — The LDH is 38% heavier than the comparable-sized LD. With this profile, penetration is maintained while additional wear material is available. This tooth is ideal for high-abrasion loader applications.

Note: TK-Series teeth installed on new John Deere equipment are painted yellow as shown. Aftermarket TK-Series teeth are black.Two locks are required per adapter.

RETURN TO CONTENTS PAGE

TK-SERIES TEETH, PINS, AND LOCKS

	Fanggs (FD)	Flare (FR)	Tiger (TG)	Twin Tiger (TT)	Rock Chisel (CH)	Loader (LD)	Loader HD (LDH)	Severe Duty (SD)	Pin	Pin Stainless	Lock
Series	**Part No.**	**Part No.**	**Part No.**	**Part No.**	**Part No.**	**Part No.**	**Part No.**	**Part No.**	**Part No.**	**Part No**	**Part No**
TK225	TK225FD	TK225FR	TK225TG	TK225TT	TK225CH	—	—	TK225SD	TK225P	TK225PSS	TK3L
TK250	—	—	—	—	—	TK250LD	—	—	TK250P	TK250PSS	TK3L
TK300	TK300FD	TK300FR	TK300TG	TK300TT	TK300CH	TK300LD	—	TK300SD	TK300P	TK300PSS	TK4L
TK350	TK350FD	TK350FR	TK350TG	TK350TT	TK350CH	TK350LD	—	TK350SD	TK350P	TK350PSS	TK4L
TK400	TK400FD	TK400FR	TK400TG	TK400TT	TK400CH	TK400LD	TK400LDH	TK400SD	TK400P	TK400PSS	TK4L

TK-SERIES ADAPTERS

WELD-ON

BOLT-ON *(CENTER)*

BOLT-ON *(ONE-HOLE END)*

BOLT-ON *(TWO-HOLE END)*

Series	Part No.	Description	Model
TK225	TK225C100	Weld-On Center	50D, 50G, 60D, 60G, 75D, 75G, 190D W, 190E, 190G W, 200C LC, 200D LC, 210G, 210G LD, 220D W, 225D LC, 230C LC, 230G W, 240D LC, 250G LC, 270C LC, 270D LC, 290G LC, 300G LC, 330D LC, 350D LC, 350G LC, 310J, 310K, 310K/EP, 310L, 310L/EP, 310SJ, 310SJ TMC, 310SK, 310SK TC, 310SL, 310SL HL, 315SJ, 315SK, 315SL, 325J, 325K, 325SK, 325SL, 410J, 410K, 410K TC, 410L, 710J, 710K, 710K TC, and 710L
TK250	TK250C100B	Bolt-On Center	444K, 524K, 524K-II, 524L, 544K, 544L, 624K, 624K-II, 624L, and 605K
	TK250E100B	Bolt-On End	444K, 524K, 524K-II, 524L, 544K, 544L, 624K, 624K-II, 624L, and 605K
TK300	TK300C125B	Bolt-On Center	644K, 724K, and 655K
	TK300E125B	Bolt-On End	644K, 724K, and 655K
	TK300C125	Weld-On Center	710J, 710K, 710L, 120D, 130G, 130G LC, 135D, 135G, 160G LC, 180G LC, 644K, 724K, and 655K
TK350	TK350C125B	Bolt-On Center	755K
	TK350E125B2	Bolt-On End	755K
	TK350C150B	Bolt-On Center	744K, 744L, 824K, and 824L
	TK350E150B	Bolt-On End	744K, 744L, 824K, and 824L
	TK350C150	Weld-On Center	160C LC, 160D LC, 160G LC, 180G LC, 190D W, 190G W, 200D LC, 200G, 210G, 210G LC, 220D W, 225D LC, 230G W, 245G LC, 250G LC, 644K, 724K, 744L, 824K, and 824L
TK400	TK400C150B	Bolt-On Center	844K and 844L (GP Straight Edge)
	TK400E150B	Bolt-On End	844K and 844L (GP Straight Edge)
	TK400C175	Weld-On Center	844K and 844L (Rock Spade Nose)
	TK400L175	Weld-On Left	844K and 844L (Rock Spade Nose)
	TK400R175	Weld-On Right	844K and 844L (Rock Spade Nose)

Note: TK-Series teeth installed on new John Deere equipment are painted yellow as shown. Aftermarket TK-Series teeth are black.Two locks are required per adapter.

TK-SERIES REPLACEMENT TEETH

FANGGS

FLARE

TIGER

TWIN TIGER

CHISEL

SEVERE-DUTY

TK225 Series

Description	Part No.
Fanggs Tooth	TK225FD
Flare Tooth	TK225FR
Tiger Tooth	TK225TG
Twin Tiger Tooth	TK225TT
Chisel Tooth	TK225CH
Severe-Duty Tooth	TK225SD
Pin	TK225P
Pin, Stainless	TK225PSS
Lock	TK3L
Adapter, Weld-On Center	TK225C100

TK250 Series

Description	Part No.
Loader Tooth	TK250LD
Pin	TK250P
Pin, Stainless	TK250PSS
Lock	TK3L
Adapter, Bolt-On Center	TK250C100B
Adapter, Bolt-On End	TK250E100B
Adapter, Bolt-On End	TK250E100B2

TK300 Series

Description	Part No.
Fanggs Tooth	TK300FD
Flare Tooth	TK300FR
Tiger Tooth	TK300TG
Twin Tiger Tooth	TK300TT
Chisel Tooth	TK300CH
Loader Tooth	TK300LD
Severe-Duty Tooth	TK300SD
Pin	TK300P
Pin, Stainless	TK300PSS
Lock	TK4L
Adapter, Bolt-On Center	TK300C125B
Adapter, Bolt-On End	TK300E125B
Adapter, Bolt-On End	TK300E125B2
Adapter, Weld-On Center	TK300C125

TK350 Series

Description	Part No.
Fanggs Tooth	TK350FD
Flare Tooth	TK350FR
Tiger Tooth	TK350TG
Twin Tiger Tooth	TK350TT
Chisel Tooth	TK350CH
Loader Tooth	TK350LD
Severe-Duty Tooth	TK350SD
Pin	TK350P
Pin, Stainless	TK350PSS
Lock	TK4L
Adapter, Bolt-On Center	TK350C125B
Adapter, Bolt-On End	TK350E125B2
Adapter, Bolt-On Center	TK350C150B
Adapter, Bolt-On End	TK350E150B
Adapter, Weld-On Center	TK350C150

Continued on next page

RETURN TO CONTENTS PAGE

TK-SERIES REPLACEMENT TEETH
(CONTINUED)

LOADER

HEAVY-DUTY LOADER

TK400 Series	
Description	**Part No.**
Fanggs Tooth	TK400FD
Flare Tooth	TK400FR
Tiger Tooth	TK400TG
Twin Tiger Tooth	TK400TT
Chisel Tooth	TK400CH
Loader Tooth	TK400LD
Loader Tooth HD	TK400LDH
Severe-Duty Tooth	TK400SD
Pin	TK400P
Pin, Stainless	TK400PSS
Lock	TK4L
Adapter, Bolt-On Center	TK400C150B
Adapter, Bolt-On End	TK400E150B
Adapter, Weld-On Center	TK400C175
Adapter, Weld-On Left	TK400L175
Adapter, Weld-On Right	TK400R175
Adapter, Weld-On Center	TK400C200

TOOTH POCKET DIMENSIONS

At times, part number information is not always readable on a worn tooth. There are several ways to identify a design and then a specific part number.

Tooth pocket dimensions

Measure the tooth pocket width and height, and reference the dimensions in the list below to isolate the tooth type (Caterpillar®, H&L, Hensley, etc.) and series. Then look on the following pages, which include photos and part numbers, to establish the tooth needed for the application.

Tooth Pocket Width (measured in mm / in.)	**Tooth Pocket Height** (measured in mm / in.)	**Replacement Section**	**Series**
35.7 (1 13/32)	46.8 (1 27/32)	Caterpillar	20
38.1 (1 1/2)	41.3 (1 5/8)	H&L	23
39.7 (1 9/16)	42.9 (1 11/16)	H&L	—
39.7 (1 9/16)	54 (2 1/8)	H&L	24
41.3 (1 5/8)	41.3 (1 5/8)	Hensley	156
41.3 (1 5/8)	60.3 (2 3/8)	Hensley	160
44.4 (1 3/4)	59.5 (2 11/32)	Caterpillar	22
46 (1 13/16)	38.1 (1 1/2)	ESCO® Conical	18
49.2 (1 15/16)	68.3 (2 11/16)	Caterpillar	25
52.4mm (2 1/16)	54 (2 1/8)	H&L	25
57.1 (2 1/4)	54 (2 1/8)	Hensley	220
60.3 (2 3/8)	77 (3 1/32)	Caterpillar	30
63.5 (2 1/2)	54 (2 1/8)	ESCO Conical	25
68.3 (2 11/16)	84.1 (3 5/16)	Caterpillar	35
73 (2 7/8)	54 (2 1/8)	H&L	27
73 (2 7/8)	68.3 (2 11/16)	Hensley	290
76.2 (3)	54 (2 1/8)	Hensley	310
76.2 (3)	57.1 (2 1/4)	ESCO Conical	30
80.2 (3 5/32)	92.9 (3 21/32)	Caterpillar	40
86.5 (3 13/32)	81 (3 3/16)	Hensley	330
88.9 (3 1/2)	66.7 (2 5/8)	ESCO Conical	35
88.9 (3 1/2)	73 (2 7/8)	Hensley	350
89.7 (3 17/32)	99.2 (3 29/32)	Caterpillar	45
101.6 (4)	73 (2 7/8)	Hensley	400
101.6 (4)	76.2 (3)	ESCO Conical	40
110 (4 5/16)	110 (4 11/32)	Caterpillar	55
114.3 (4 1/2)	82.55 (3 1/4)	ESCO Conical	45
120.6 (4 3/4)	88.9 (3 1/2)	Hensley	475
123.8 (4 7/8)	139.7 (5 1/2)	Caterpillar	45 Abrasion (Standard)
152.4 (6)	150 (5 29/32)	Caterpillar	70

RETURN TO CONTENTS PAGE

TK-SERIES SPECIFICATIONS

TK-SERIES SIZE COMPARISON CHART

John Deere	Caterpillar®		ESCO®				Komatsu		Hensley		MTG	H&L	Volvo
TK Series	J-Series	K-Series	Conical	Super V®	Helilok®/ Vertalok®	Ultralok®	Side Pin	K-Max	Para-bolic	XS	KingMet	Side Flex Pin	
			18	V13						04	MG5	2AF	5
TK200	J200		22	V17-V18	17	U20	W8		X156	05	MG8	230	8
TK225	J220		25	V19	19	U25			X160/X162	10	MG10	240	10
TK250	J250		30	V23	21	U30		15	X220/V225	15	MG15	250	15
TK300	J300	K80	35	V29	27	U35	200	20	X290/C310	20	MG20	270	20
TK350	J350	K90	40	V33		U40		25	X330	25	MG30	31	30
TK400	J400	K100	45	V39	37	U45	300	30	X370/X400	30	MG40		40

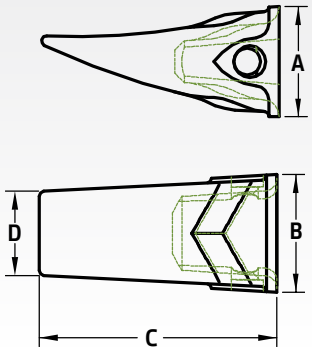
TOOTH CROSSOVER BY MACHINE WEIGHT

Machine Weight (1,000 lb.)	1 to 10	10 to 20	20 to 30	30 to 40	40 to 50	50 to 60	60 to 80	80 to 100
John Deere		**TK200**	**TK225**	**TK250**	**TK300**	**TK350**	**TK400**	**TK450**
CAT® J-Series		J200	J225	J250	J300	J350	J400	J460
CAT K-Series					K80	K90	K100	K110
Komatsu Side Pin		WB (20X)			200 (205)		300 (207)	400 (208)
Komatsu K-Max				15	20	25	30	40
Hensley Original			X162	X225	X130		X400	
Hensley O Series	X156		X160	X220	X290	X330	X370	X410
Hensley 5 Series		135		235	295	335	385	435
Hensley 6 Series								406
Hensley XS	04	05	10	15	20	25	30	40
ESCO Super V	V13	V17-18	V19	V23	V29	V33	V39	V43
ESCO Helilok/Vertalok		17	19	21	27		37	47
ESCO Conical		18	25	30	35	40	45	50
ESCO Ultralok		U20	U25	U30	U35	U40	U45	
Volvo	5	8	10	15	20	30	40	55
MTG Kingmet	5	8	10	15	20	30	40	55

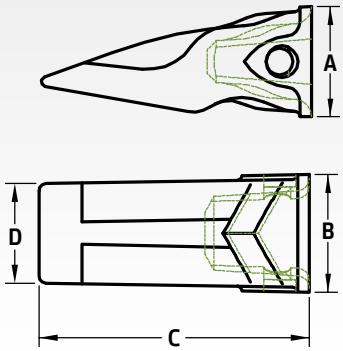
RETURN TO CONTENTS PAGE

TK-SERIES BUCKET TEETH DIMENSIONS

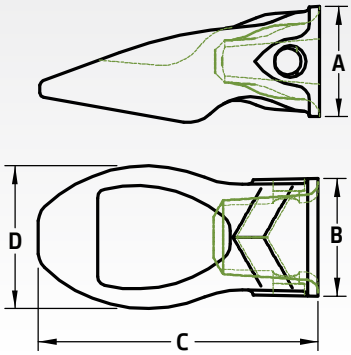
(FD) FANGGS



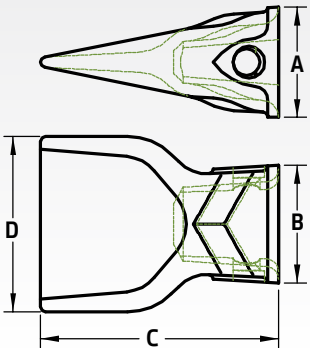
(LD) LOADER



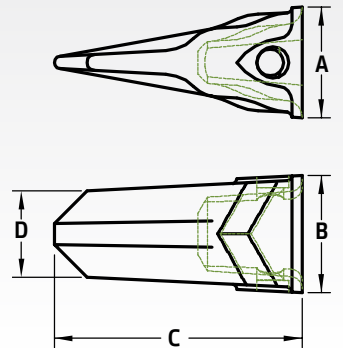
(LDH) LOADER



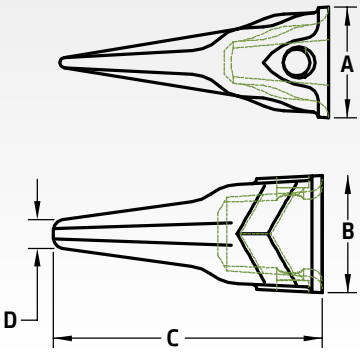
(FR) FLARE



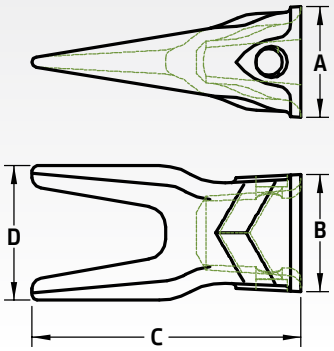
(CH) CHISEL



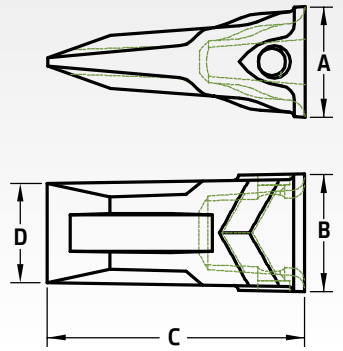
(TG) TIGER



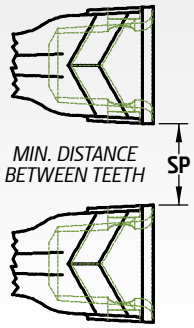
(TT) TWIN TIGER



(SD) SEVERE DUTY



(SP) SPACING



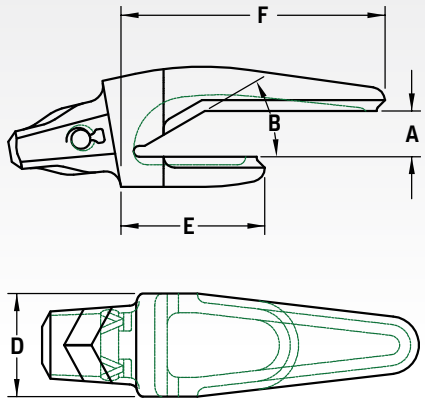
RETURN TO CONTENTS PAGE

Part No.	Dim. A (mm / in)	Dim. B (mm / in)	Dim. C (mm / in)	Dim. D (mm / in)	Weight	Spacing (SP) (mm / in)
TK225FD	70.18 (2.763)	74.42 (2.930)	151.09 (5.948)	49.22 (1.938)	1.60 kg (3.53 lb.)	57.15 (2.250)
TK225FR	70.18 (2.763)	74.42 (2.930)	151.09 (5.948)	111.67 (4.397)	1.70 kg (3.75 lb.)	57.15 (2.250)
TK225CH	70.18 (2.763)	74.42 (2.930)	157.66 (6.207)	52.49 (2.066)	1.50 kg (3.20 lb.)	57.15 (2.250)
TK225TG	70.18 (2.763)	74.42 (2.930)	170.79 (6.724)	16.42 (.647)	1.49 kg (2.87 lb.)	57.15 (2.250)
TK225TT	70.18 (2.763)	74.42 (2.930)	170.79 (6.724)	85.40 (3.362)	1.51 kg (3.31 lb.)	57.15 (2.250)
TK225SD	70.18 (2.763)	74.42 (2.930)	162.58 (6.401)	62.89 (2.476)	2.04 kg (4.50 lb.)	57.15 (2.250)
TK250LD	81.98 (3.228)	86.92 (3.422)	200.35 (7.888)	73.84 (2.907)	3.52 kg (7.76 lb.)	66.68 (2.625)
TK300FD	93.69 (3.689)	99.34 (3.911)	202.51 (7.973)	70.87 (2.790)	3.70 kg (8.16 lb.)	76.20 (3.000)
TK300LD	93.69 (3.689)	99.34 (3.911)	228.97 (9.014)	84.39 (3.322)	5.20 kg (11.46 lb.)	76.20 (3.000)
TK300FR	93.69 (3.689)	99.34 (3.911)	201.45 (7.931)	148.90 (5.862)	4.40 kg (9.70 lb.)	76.20 (3.000)
TK300CH	3.689 (93.69)	99.34 (3.911)	210.21 (8.276)	69.98 (2.755)	3.50 kg (7.72 lb.)	76.20 (3.000)
TK300TG	93.69 (3.689)	99.34 (3.911)	227.72 (8.966)	21.90 (.862)	3.10 kg (6.83 lb.)	76.20 (3.000)
TK300TT	93.69 (3.689)	99.34 (3.911)	227.72 (8.966)	113.86 (4.483)	3.80 kg (8.38 lb.)	76.20 (3.000)
TK300SD	93.69 (3.689)	99.34 (3.911)	216.76 (8.534)	84.39 (3.322)	3.80 kg (8.38 lb.)	76.20 (3.000)
TK350FD	107.75 (4.242)	114.24 (4.498)	231.67 (9.121)	81.50 (3.209)	6.20 kg (13.67 lb.)	88.90 (3.500)
TK350LD	107.75 (4.242)	114.24 (4.498)	263.31 (10.367)	96.79 (3.811)	8.10 kg (17.86 lb.)	88.90 (3.500)
TK350FR	107.75 (4.242)	114.24 (4.498)	231.67 (9.121)	171.23 (6.741)	6.80 kg (14.99 lb.)	88.90 (3.500)
TK350CH	107.75 (4.242)	114.24 (4.498)	241.74 (9.517)	80.48 (3.168)	5.40 kg (11.90 lb.)	88.90 (3.500)
TK350TG	107.75 (4.242)	114.24 (4.498)	261.88 (10.310)	25.18 (.991)	4.80 kg (10.58 lb.)	88.90 (3.500)
TK350TT	107.75 (4.242)	114.24 (4.498)	261.88 (10.310)	130.94 (5.155)	5.70 kg (12.57 lb.)	88.90 (3.500)
TK350SD	107.75 (4.242)	114.24 (4.498)	249.30 (9.815)	96.79 (3.811)	7.48 kg (16.50 lb.)	88.90 (3.500)
TK400FD	121.66 (4.790)	129.00 (5.079)	261.88 (10.310)	92.13 (3.627)	8.50 kg (18.75 lb.)	101.60 (4.000)
TK400LD	121.66 (4.790)	129.00 (5.079)	297.66 (11.719)	109.70 (4.319)	11.80 kg (26.01 lb.)	101.60 (4.000)
TK400LDH	121.66 (4.790)	129.00 (5.079)	307.98 (12.125)	157.08 (6.184)	16.80 kg (37.10 lb.)	101.60 (4.000)
TK400FR	121.66 (4.790)	129.00 (5.079)	261.88 (10.310)	193.57 (7.621)	9.70 kg (21.38 lb.)	101.60 (4.000)
TK400CH	121.66 (4.790)	129.00 (5.079)	273.27 (10.759)	90.97 (3.582)	7.70 kg (16.98 lb.)	101.60 (4.000)
TK400TG	121.66 (4.790)	129.00 (5.079)	296.04 (11.655)	28.47 (1.121)	6.70 kg (14.77 lb.)	101.60 (4.000)
TK400TT	121.66 (4.790)	129.00 (5.079)	296.04 (11.655)	148.02 (5.828)	8.10 kg (17.86 lb.)	101.60 (4.000)
TK400SD	121.66 (4.790)	129.00 (5.079)	281.81 (11.095)	109.70 (4.319)	10.98 kg (24.20 lb.)	101.60 (4.000)

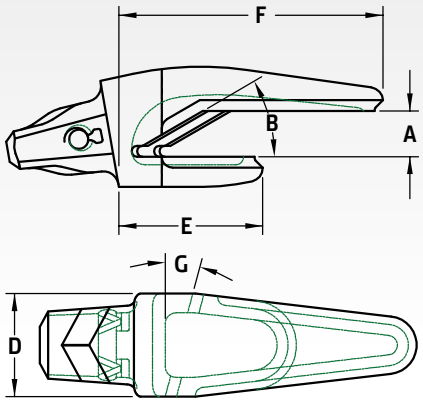
RETURN TO CONTENTS PAGE

TK-SERIES ADAPTER DIMENSIONS

(C) CENTER WELD ON



(R OR L) RIGHT OR LEFT WELD ON



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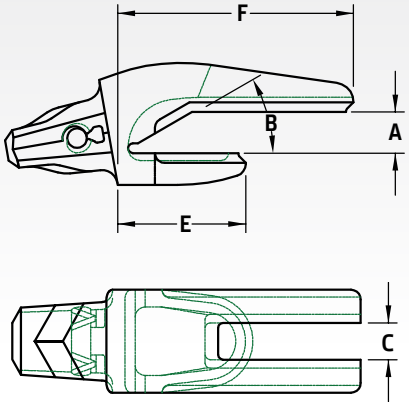

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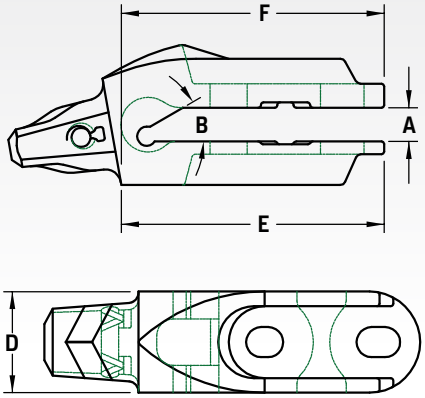
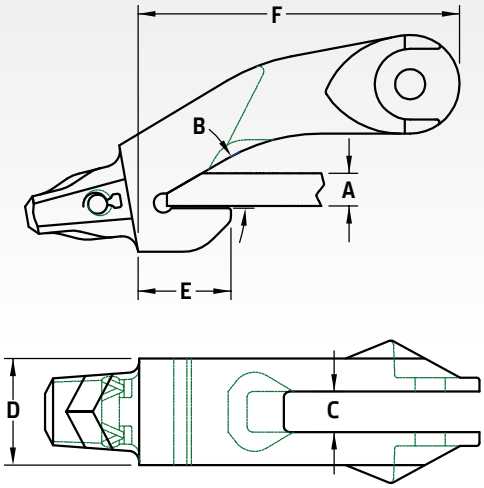
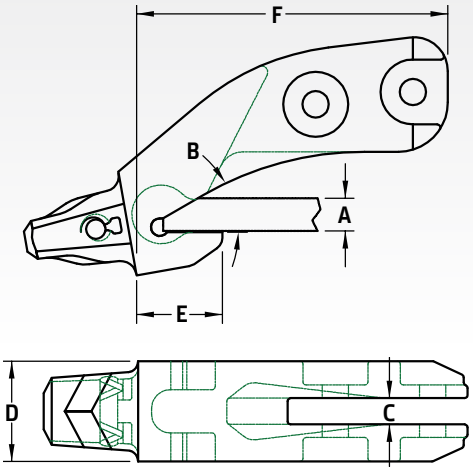


(EB) END BOLT ON



(EB2) END BOLT ON TWO BOLTS



RETURN TO CONTENTS PAGE

Part No.	Fits A Lip Thk (mm / in)	Lip Bevel B	Fits C Side Thk (mm / in)	Dim. D (mm / in)	Dim. E (mm / in)	Dim. F (mm / in)	Angle G	Weight	Lip Holes
TK225C100	25.40 (1.000)	22°	N/A	53.98 (2.125)	44.07 (1.735)	113.32 (4.461)	N/A	1.90 kg (4.19 lb.)	N/A
TK250C100B	25.40 (1.000)	30°	N/A	88.00 (3.465)	191.84 (7.553)	191.84 (7.553)	N/A	7.30 kg (16.09 lb.)	Fig. 1
TK250E100B	25.40 (1.000)	30°	19.05 (0.750)	88.00 (3.465)	84.70 (3.335)	249.63 (9.828)	N/A	9.50 kg (20.94 lb.)	Fig. 1
TK250E100B2	25.40 (1.000)	30°	19.05 (0.750)	88.00 (3.465)	84.70 (3.335)	249.63 (9.828)	N/A	9.50 kg (20.94 lb.)	Fig. 1
TK300C125	31.75 (1.250)	30°	N/A	91.99 (3.622)	128.42 (5.056)	235.86 (9.286)	N/A	6.00 kg (13.23 lb.)	N/A
TK300C125B	31.75 (1.250)	30°	N/A	96.84 (3.813)	251.13 (9.887)	251.13 (9.887)	N/A	11.40 kg (25.13 lb.)	Fig. 2
TK300E125B	31.75 (1.250)	30°	25.40 (1.000)	88.00 (3.465)	100.63 (3.962)	257.60 (10.142)	N/A	10.40 kg (22.93 lb.)	Fig. 2
TK300E125B2	31.75 (1.250)	30°	25.40 (1.000)	88.00 (3.465)	100.63 (3.962)	294.77 (11.605)	N/A	12.60 kg (22.78 lb.)	Fig. 3
TK350C150	38.10 (1.500)	30°	N/A	104.78 (4.125)	103.74 (4.084)	214.55 (8.447)	N/A	9.70 kg (21.38 lb.)	N/A
TK350C125B	31.75 (1.250)	30°	N/A	105.76 (4.164)	255.59 (10.063)	255.59 (10.063)	N/A	18.30 kg (40.34 lb.)	Fig. 4
TK350E125B2	31.75 (1.250)	30°	25.40 (1.000)	103.19 (4.063)	88.11 (3.469)	319.88 (12.594)	N/A	23.80 kg (52.47 lb.)	Fig. 4
TK350C150B	38.10 (1.500)	30°	N/A	114.30 (4.500)	306.66 (12.073)	306.66 (12.073)	N/A	21.30 kg (46.96 lb.)	Fig. 5
TK350E150B	38.10 (1.500)	30°	31.75 (1.250)	114.30 (4.500)	109.51 (4.312)	374.97 (14.762)	N/A	29.20 kg (64.37 lb.)	Fig. 5
TK400C200	50.80 (2.000)	30°	N/A	119.58 (4.708)	166.95 (6.573)	306.61 (12.071)	N/A	18.40 kg (40.56 lb.)	N/A
TK400C150B	38.10 (1.500)	30°	N/A	117.60 (4.630)	305.18 (12.015)	305.18 (12.015)	N/A	25.00 kg (55.11 lb.)	Fig. 6
TK400E150B	38.10 (1.500)	30°	44.45 (1.750)	123.83 (4.875)	108.03 (4.253)	373.48 (14.704)	N/A	32.10 kg (70.77 lb.)	Fig. 6
TK400C175	44.45 (1.750)	23°	N/A	119.58 (4.708)	194.32 (7.650)	270.52 (10.650)	N/A	20.20 kg (44.53 lb.)	N/A
TK400R175	44.45 (1.750)	23°	N/A	119.58 (4.708)	194.32 (7.650)	270.52 (10.650)	15°	21.20 kg (46.74 lb.)	N/A
TK400L175	44.45 (1.750)	23°	N/A	119.58 (4.708)	194.32 (7.650)	270.52 (10.650)	15°	21.20 kg (46.74 lb.)	N/A

Socket Dimensions

Series	Socket Size		Square-End Female
	Metric	Inch	Inch
TK225	10 mm	3/8	1/4
TK250	11 mm	7/16	1/4
TK300	11 mm	7/16	1/4
TJ350	14 mm	9/16	3/8
TK400	16 mm	5/8	3/8

RETURN TO CONTENTS PAGE

RUGGED TEETH

FOR MOST BRANDS OF MACHINES.

Think about the different teeth and adapters used on backhoes, excavators, and loaders. So many different applications to accommodate, so many different ground conditions to consider. It takes an incredible variety to keep so many machines productive. John Deere has just the selection for you.

JOHN DEERE "ORIGINAL LINE" TEETH

FANGGS *(10 L SERIES)*

FANGGS *(11 L SERIES)*

FANGGS *(13 L SERIES)*

FANGGS WITH CARBIDE
(33 L SERIES)

STANDARD *(10 L SERIES)*

STANDARD *(11 L SERIES)*

STANDARD *(13 L SERIES)*

STANDARD *(33 L SERIES)*

CHISEL *(10 L SERIES)*

CHISEL *(33 L SERIES)*

10 L Series	
Description	**Part No.**
Fanggs Tooth	TF10L
Chisel Tooth	T105690
Pin, Long	TF10P
Pin, Long	T112195
Retainer	T112196
Adapter, Bolt-On Center	T105692
Adapter, Bolt-On Center	T103190
Adapter, Bolt-On Corner	T103191
Adapter, Bolt-On Corner	T112163
Adapter, Bolt-On Corner	T112164

11 L Series	
Description	**Part No.**
Fanggs Tooth	TF11L
Standard Tooth	T29887
Pin, Long	TP160L
Pin	TP160
Adapter, Bolt-On	T29886
Adapter, Bolt-On	T35385
Adapter, Bolt-On	T38783
Adapter, Bolt-On	U16864

13 L Series	
Description	**Part No.**
Fanggs Tooth	TF13
Standard Tooth	U13449
Pin, Long	TF13P
Pin, Long	34M7070
Adapter, Bolt-On	U41344

33 L Series	
Description	**Part No.**
Fanggs Tooth	TF33L
Fanggs Tooth with Carbide	TF33LC
Chisel Tooth	T69647
Standard Tooth	T79008
Pin	T9J2308
Retainer	T3G9609
Adapter, Bolt-On Corner	T79006
Adapter, Bolt-On Corner	T104673
Adapter, Bolt-On Corner	T104674
Adapter, Bolt-On Corner	T123077

Miscellaneous	
Description	**Part No.**
Left/Right Tooth	T100
Center Tooth	T100C

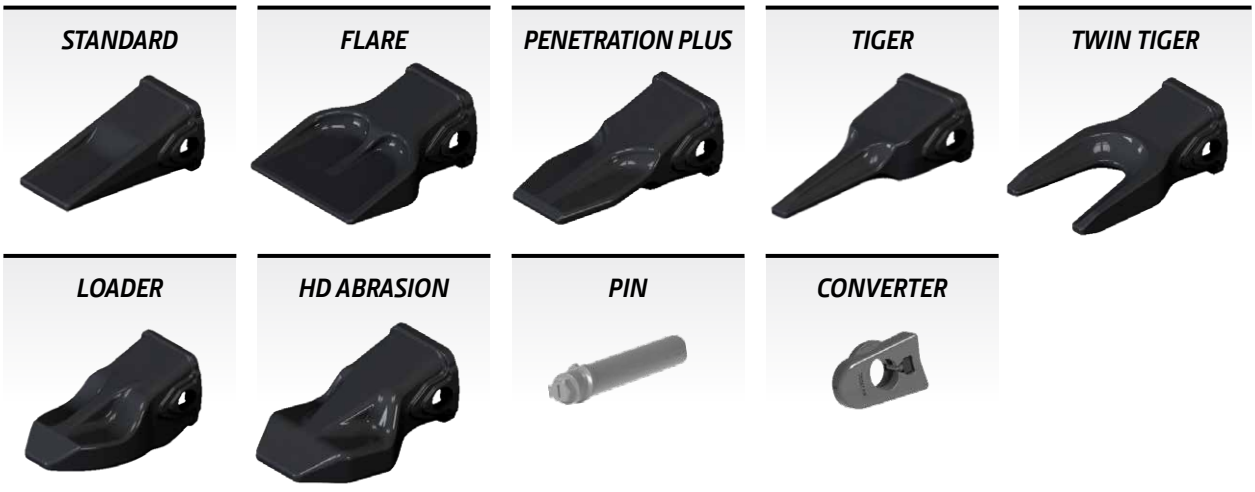
RETURN TO CONTENTS PAGE

A NEW TWIST

ON OLD TECHNOLOGY.

The RVJ Bucket Tooth System is engineered to deliver hammerless technology to existing J-Series adapters through a converter and helical pin design. The converter is secured between the existing J-Series adapter and the RVJ tooth. The helical pin is placed in the tooth's nose, where it is rotated 180 deg. with a common socket wrench and tightly secured. Convert to a fully hammerless system without changing adapters!

RVJ REPLACEMENT TEETH



J350 Series	
Description	**Part No.**
Standard Tooth	RVJ350S
Flare Tooth	RVJ350F
Penetration Plus Tooth	RVJ350PP
Tiger Tooth	RVJ350T
Twin Tiger Tooth	RVJ350TT
Loader Tooth	RVJ350LD
HD Abrasion Tooth	RVJ350HDAL
Pin	RVJ350P
Converter	RVJ350C

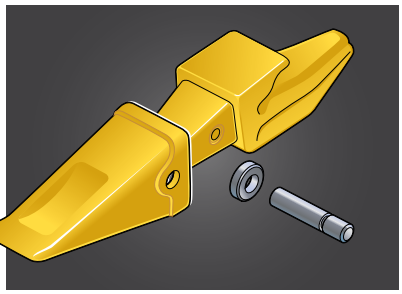
J400 Series	
Description	**Part No.**
Standard Tooth	RVJ400S
Flare Tooth	RVJ400F
Penetration Plus Tooth	RVJ400PP
Tiger Tooth	RVJ400T
Twin Tiger Tooth	RVJ400TT
Loader Tooth	RVJ400LD
HD Abrasion Tooth	RVJ400HDAL
Pin	RVJ400P
Converter	RVJ400C

J450 Series	
Description	**Part No.**
Standard Tooth	RVJ450S
Flare Tooth	RVJ450F
Penetration Plus Tooth	RVJ450PP
Tiger Tooth	RVJ450T
Twin Tiger Tooth	RVJ450TT
Loader Tooth	RVJ450LD
HD Abrasion Tooth	RVJ450HDAL
Pin	RVJ460P
Converter	RVJ460C

J550 Series	
Description	**Part No.**
Standard Tooth	RVJ550S
Flare Tooth	RVJ550F
Penetration Plus Tooth	RVJ550PP
Tiger Tooth	RVJ550T
Twin Tiger Tooth	RVJ550TT
Loader Tooth	RVJ550LD
HD Abrasion Tooth	RVJ550HDAL
Pin	RVJ550P
Converter	RVJ550C

RETURN TO CONTENTS PAGE

CATERPILLAR® REPLACEMENT TEETH



Design

The oversized pocket characteristics of these teeth with the extended adapter nosepiece provide a nose fit between the tooth and adapter, which results in strong impact resistance but a loose fit in the ramps.

Retention

Replacement teeth for Caterpillar equipment use a two-piece retention method, which makes tooth removal and installation fast and easy. Both the pin and the washer are reusable. The original style and "E" style are available.

SHORT

FANGGS DIG

FLARE

LONG

PENETRATOR

LONG H-D

ABRASION

ABRASION H-D

TWIN TIGER

TIGER

ROCK CHISEL

ROCK PENETRATOR

20 Series	
Description	**Part No.**
Fanggs Dig	TF1U3202D
Flare	T109-9200
Long	T1U3202
Tiger	TT1U3202
Twin Tiger	TX1U3202WT
Original Pin	TF1U3202P
E-Type Pin	T8E6208
Original Washer	T4T0001
E-Type Washer	T8E6209
Adapter, Weld-On Center	T8J7525

22 Series	
Description	**Part No.**
Long	T6Y3222
E-Type Pin	T6Y3228
E-Type Washer	T8E6259

25 Series	
Description	**Part No.**
Fanggs Dig	TF1U3252D
Fanggs Load	TF1U3252L
Abrasion	T4T2253
Flare	T3G8250
Long	T1U3252

RETURN TO CONTENTS PAGE

25 Series *(continued)*

Description	Part No.
Long H-D	T9N4252
Penetrator	T9J4259
Tiger	TT1U3252
Twin Tiger	TX1U3252WT
Original Pin	T9J2258
E-Type Pin	T8E6258
Original Washer	T3G9609
E-Type Washer	T8E6259
Adapter (2 Bolt)	T1U0257
Adapter, Bolt-On Center	T25CA
Adapter, Bolt-On End	T25EA

30 Series

Description	Part No.
Fanggs Dig	TF1U3302D
Fanggs Load	TF1U3302L
Short	T1U3301
Long	T1U3302
Long H-D	T9N4302
Flare	T107-3300
Tiger	TT1U3302
Twin Tiger	TX1U3302WT
Penetrator	T9J4309
Abrasion	T4T2303
Abrasion H-D	T9N4303
Original Pin	T9J2308
Original Washer	T3G9609
Adapter Bolt-On (2 Bolt)	T1U0307
Adapter, Double-Strap Center	T3G6304
Adapter, Bolt-On Center	T30CA
Adapter, Bolt-On End	T30EA

35 Series

Description	Part No.
Fanggs Dig	TF1U3352D
Original Pin	T9J2358
E-Type Pin	T8E6358
Penetrator	T9J4359
Short	T1U3351
Long	T1U3352
Long H-D	T9N4352
Flare	T107-3350
Tiger	TT1U3352
Twin Tiger	TX1U3352WT
Abrasion	T4T2353
Abrasion H-D	T9N4353
Original Washer	T3G9549
E-Type Washer	T8E6359
Adapter, Center	T3G8354
Adapter (2 Bolt)	T3G3357
Adapter, Bolt-On	T3G7357

40 Series

Description	Part No.
Fanggs Dig	TF7T3402D
Long	T7T3402
Long H-D	T8E4402
Abrasion	T7T3403RP2
Abrasion, H-D	T40HDAL
Original Pin	T7T3408
E-Type Pin	T8E0468
Original Washer	T3G9549
E-Type Washer	T8E8469
Original Washer	T7T3409
Washer	T8E8409
Adapter, Center	T1258404
Adapter, RH	T1258405
Adapter, LH	T1258406
Adapter, Corner	T215303

45 Series

Description	Part No.
Fanggs Dig	TF9W8452D
Penetrator	T9W8459
Long	T9W8452
Long H-D	T9N4452
Flare	T107-3450
Original Pin	T1U1458
E-Type Pin	T9W8559
Original Washer	T3G9549
E-Type Washer	T8E8469
Adapter, Weld-On	T8E6464

55 Series

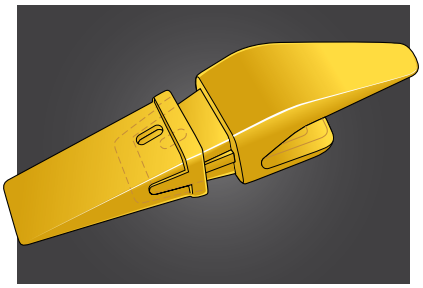
Description	Part No.
Long	T1U3552
Penetrator	T9W8559
E-Type Pin	T6Y8558
Original Pin	T1U1558
Original Washer	T3G9559
E-Type Washer	T8E5559

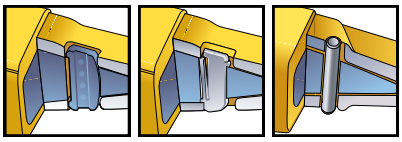
60 Series

Description	Part No.
Pin	T6I6608
Washer	T6I6609

RETURN TO CONTENTS PAGE

HENSLEY REPLACEMENT TEETH





Design

The parabolic (dished-out) design creates a wedging and self-tightening fit. A recessed channel on the inside sidewall of the tooth matches a tapered extension on the adapter nosepiece, forming a locking fit. The design absorbs impact loads.

Retention

A roll pin is used on the 156, 160, 220, and 310 Series. Smaller series teeth are retained with a vertical roll pin, allowing easy removal and installation. The 350, 400, and 475 Series use a vertical flex pin made of two hardened steel forgings with vulcanized neoprene between. The flex pin provides a four-way locking support. A steel key retains the 290, 330, 370, 410, 500, and 550 Series. This key provides outstanding retention in all types of applications. It is not reusable.

FANGGS DIG

STANDARD

TIGER

TWIN TIGER

FLARE

ABRASION

156 Series (Top Mount)	
Description	**Part No.**
Fanggs Dig	TF156
Standard	TX156
Tiger	TT156
Twin Tiger	TX156WT
Pin	TF13P
Pin	TP156
Adapter, Weld-On	T834X156

160 Series (Top Mount)	
Description	**Part No.**
Fanggs Dig	TF160
Standard	TX160
Flare	TX160F
Tiger	TT160
Twin Tiger	TX160WT
Pin	TP160
Adapter, Weld-On	T658X160

220 Series (Top Mount)	
Description	**Part No.**
Fanggs Dig	TF220
Abrasion	TX220AP
Standard	TX220
Flare	TX220F
Tiger	TT220
Twin Tiger	TX220WT
Pin	TP160
Adapter, Weld-On	T109X220

RETURN TO CONTENTS PAGE

290 Series (Top Mount)	
Description	**Part No.**
Fanggs Dig	TF290
Standard	TX290
Flare	TX290F
Tiger	TT290
Twin Tiger	TX290WT
Abrasion	TX290AP
Steel Pin	TK290
Adapter, Weld-On	T158X290
Adapter, Weld-On	T127X290

310 Series (Top Mount)	
Description	**Part No.**
Fanggs Dig	TF310
Standard	TX310
Flare	TX310F
Tiger	TT310
Twin Tiger	TX310WT
Abrasion	TX310AP
Pin, Long	TP160L
Pin	TP160
Adapter, Weld-On	T153X310

330 Series (Top Mount)	
Description	**Part No.**
Fanggs Dig	TF330
Standard	TX330
Flare	TX330F
Tiger	TT330
Twin Tiger	TX330WT
Abrasion	TX330AP
Steel Pin	TK330
Adapter, Weld-On	T158X330

350 Series (Top Mount)	
Description	**Part No.**
Pin	TP400HD

370 Series (Top Mount)	
Description	**Part No.**
Fanggs Dig	TF370
Standard	TX370
Tiger	TT370
Twin Tiger	TX370WT
Pin	TK370
Adapter, Weld-On	T940X370

400 Series (Top Mount)	
Description	**Part No.**
Fanggs Dig	TF400
Standard	TX400
Flare	TX400F
Tiger	TT400
Twin Tiger	TX400WT
Abrasion	TX400AP
Pin	TP400HD
Adapter, Weld-On	T802X400

410 Series (Top Mount)	
Description	**Part No.**
Fanggs Dig	TF410
Standard	TX410
Tiger	TT410
Twin Tiger	TX410WT
Pin	TK410
Adapter, Weld-On	T940X410

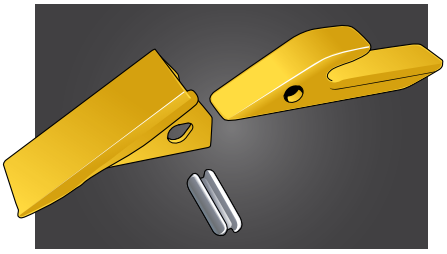
450 Series (Top Mount)	
Description	**Part No.**
Flex Pin	TP450

475 Series (Top Mount)	
Description	**Part No.**
Fanggs Dig	TF475
Standard	TX475
Flare	TX475F
Tiger	TT475
Twin Tiger	TX475WT
Flex Pin	TP475HD
Adapter, Weld-On	T303X475

500 Series (Top Mount)	
Description	**Part No.**
Standard	TX500
Tiger	TT500
Twin Tiger	TX500WT
Abrasion	TX500AP
Flex Pin	TP500
Steel Key Pin	TK500R
Adapter, Weld-On	T806X500

RETURN TO CONTENTS PAGE

H&L REPLACEMENT TEETH

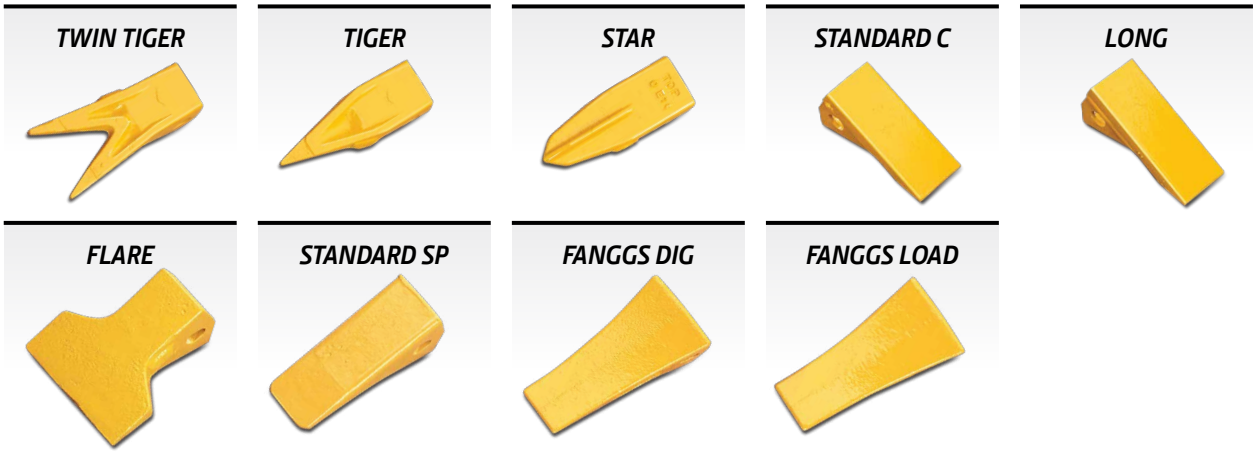


Design

H&L-style teeth are designed for backhoes and excavators. They are available in a multitude of shapes offering superb performance and reliability in all digging conditions.

Retention

The H&L tooth is attached with a horizontal flex pin. The flex pin consists of two steel pin halves with rubber sandwiched between. This pin design withstands shock and can take up small amounts of adapter wear in order to provide the tight fit necessary between tooth and adapter.



2 Series	
Description	**Part No.**
Standard	T2A
Long	T2AR
Adapter, Weld On	T716X2A

3 Series	
Description	**Part No.**
Long	T3CR
Flare	T3CF
Standard	T3C
Adapter, Weld On	T716X3C

23 Series	
Description	**Part No.**
Fanggs Dig	TF23D
Fanggs Load	TF23L
Standard	T230SP
Standard	T23C
Tiger	TT230L
Twin Tiger	T230WTL
Flare	T230F
Star	T230ST
Long Rock, Fabricated	T23R
Swamper, Tooth	T230SWPR
Pin	T23P
Pin	TF23P
Adapter, Weld-On	T417X230
Adapter, Weld-On	T728X230
Adapter, Weld-On	U43792
Adapter, Weld-On	T875X230
Adapter, Bolt-On	T221X230

23 Series *(continued)*	
Description	**Part No.**
Adapter, Weld-On	T625X230
Adapter, Weld-On	T750X230
Adapter, Weld-On, Center	T760X230
Adapter, Weld-On, End	T760X230E

24 Series	
Description	**Part No.**
Standard	T240
Tiger	TT240
Twin Tiger	T240WT
Pin	T24P
Adapter, Weld-On	T427X240

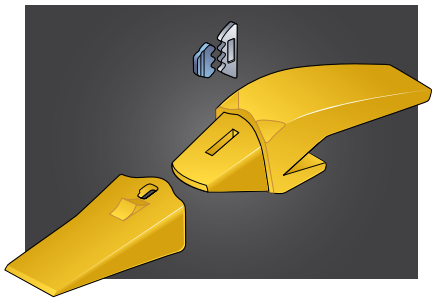
25 Series	
Description	**Part No.**
Fanggs Dig	TF252
Standard	T252
Flare, 5-in.	T252F
Star	T252ST
Pin	TF25P
Pin	T25P
Adapter, Weld-On	T440X252

26 Series	
Description	**Part No.**
Standard	T260
Pin	T25P

27 Series	
Description	**Part No.**
Standard	T270SP
Pin	T27P

RETURN TO CONTENTS PAGE

ESCO® CONICAL REPLACEMENT TEETH



Design

The "conical design" mating system between tooth and adapter creates self-tightening action. The raised center area on the top and bottom of the adapter nose-piece fits tightly into the formed area on the top and bottom of the tooth pocket. The design reduces tooth movement.

Retention

All Deere replacement teeth for ESCO conical products are retained with a pin and lock. Once the pin and lock are installed, a snug fit gives this attaching system little to no movement and provides great strength throughout the life of the tooth.

SHARP

TIGER

TWIN TIGER

FLARE

25 Series Conical	
Description	**Part No.**
Sharp	T25S
Standard Pin	T2530PN
Ratchet Pin	T2530PNR
Standard Retainer	T2530LK
Ratchet Retainer	T2530LKR

30 Series Conical	
Description	**Part No.**
Sharp	T30S
Tiger	T30VIP
Standard Pin	T2530PN
Ratchet Pin	T2530PNR
Standard Retainer	T2530LK
Ratchet Retainer	T2530LKR
Adapter, Weld-On	4606717

35 Series Conical	
Description	**Part No.**
Sharp	T35S
Tiger	T35VIPA
Twin Tiger	T35TVIPA
Standard Pin	T35PN
Ratchet Pin	T35PNR
Standard Retainer	T3540LK
Ratchet Retainer	T3540LKR

40 Series Conical	
Description	**Part No.**
Ratchet Pin	T40PNR
Standard Pin	T40PN
Standard Retainer	T3540LK
Ratchet Retainer	T3540LKR
Adapter, Weld-On	4045168

45 Series Conical	
Description	**Part No.**
Standard Pin	T45PN
Ratchet Pin	T45PNR
Standard Retainer	T45LK
Ratchet Retainer	T45LKR
Adapter, Weld-On	4613845

ESCO ULTRALOK®

Design

The Ultralok tooth and adapter design provide improved penetration through smooth adapter to tooth point transitions and all-new, streamlined profile shapes. A unique triangular nose shape provides stabilized mating flats to absorb load.

Retention

The Ultralok system is hammerless — integrating the locking mechanism into the tooth point. The integrated locking device makes the Ultralok system two pieces, unlike a traditional three-piece (tooth, pin, and adapter) system. The system is locked and unlocked using a pry bar. The placement of the lock reduces wear and loading of the locking mechanism.

U20 Series	
Description	**Part No.**
Chisel	EU20C
Standard	EU20S
Flare	EU20F
Twin Tiger	EU20T
Tiger	EU20P
Adapter	E5854U20
Adapter	E833U20

U25 Series	
Description	**Part No.**
Chisel	EU25C
Standard	EU25S
Flare	EU25F
Twin Tiger	EU25T
Tiger	EU25P
Adapter	E5849U25
Adapter	E5854U25
Locks (box of 10)	EU2025L

U30 Series	
Description	**Part No.**
Chisel	EU30C
Standard	EU30S
Flare	EU30F
Twin Tiger	EU30T
Tiger	EU30P
Adapter	E5850U30
Adapter	E5849U30
Locks (box of 10)	EU30L

U35 Series	
Description	**Part No.**
Chisel	EU35C
Standard	EU35S
Flare	EU35F
Twin Tiger	EU35T
Tiger	EU35P
Adapter	E5855U35
Adapter	E3810BU35
Locks (box of 10)	EU35L

U40 Series	
Description	**Part No.**
Chisel	EU40C
Standard	EU40S
Flare	EU40F
Twin Tiger	EU40T
Tiger	EU40P
Adapter	E5856U40
Adapter	E3810BU40
Locks (box of 10)	EU40L

U45 Series	
Description	**Part No.**
Chisel	EU45C
Standard	EU45S
Flare	EU45F
Twin Tiger	EU45T
Tiger	EU45P
Adapter	E5856U45
Adapter	E1810U45
Adapter	E1810LU45
Adapter	E1810RU45
Locks (box of 10)	EU45L

U55 Series	
Description	**Part No.**
Chisel	EU55C
Standard	EU55S
Flare	EU55F
Twin Tiger	EU55T
Tiger	EU55P
Adapter	E5857AU55
Adapter	E8801AU55
Adapter	E3811AU55
Adapter	E3858AU55
Locks (box of 10)	EU55L

U60 Series	
Description	**Part No.**
Chisel	EU60C
Standard	EU60S
Flare	EU60F
Twin Tiger	EU60T
Tiger	EU60P
Adapter	EU5898AU60
Locks (box of 10)	EU60L

RETURN TO CONTENTS PAGE

HELILOK®/VERTALOK® REPLACEMENT TEETH

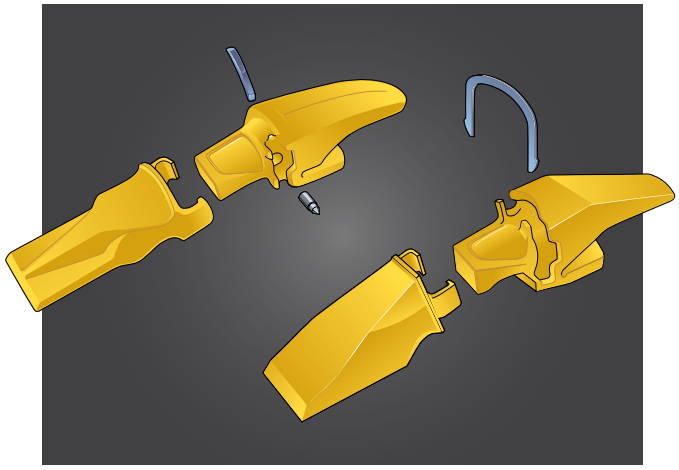
Design

Helilok/Vertalok teeth mount on both the Vertalok and Helilok adapters with a quarter turn and "butt" up against the adapter nose to take thrust loads head-on. The helical threads and large stabilizing flats at the end of the nose deliver maximum resistance to severe breakout forces.

Retention

Teeth are held on to Helilok adapters by a drive-on, one-piece Quadrilok™ retainer (reusable). With the Quadrilok, the helical threads create a locknut force that tightens under load and resists rotation under the most severe impact.

Teeth are securely fastened to Vertalok adapters with a drive-through pin, which provides maximum holding power and virtually eliminates tooth loss. The pin is held in place by a spring-loaded plug that fits snugly into a cavity in the side of the adapter nose. Both are reusable.



STANDARD

TIGER

TWIN TIGER

FLARE

CHISEL

ROCK

RETURN TO CONTENTS PAGE

HELILOK®/VERTALOK® REPLACEMENT TEETH (CONTINUED)

17 Series	
Description	**Part No.**
Standard Tooth	EX17TL

21 Series	
Description	**Part No.**
Adapter	EX5759-21

27 Series	
Description	**Part No.**
Plug	EX27VPL
Pin	EX27VPN

37 Series	
Description	**Part No.**
Tiger, Centerline	EX37VX
Plug	EX37VPL
Pin	EX37VPN

47 Series	
Description	**Part No.**
Plug	EX47VPL
Pin	EX47VPN

57 Series	
Description	**Part No.**
Abrasion, Centerline	EX57LP
Chisel	EX57SD
Rock	EX57R
Plug	EX57VPL
Pin	EX57VPN
Pin & Plug Kit	57V/KIT

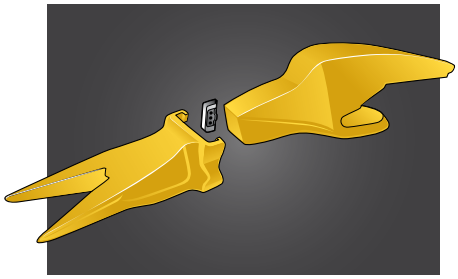
61 Series	
Description	**Part No.**
Plug	EX61VPLA
Pin	EX61VPNA

67 Series	
Description	**Part No.**
Standard	EX67RL
Tiger	67VY

Quadrilok Removal Tools	
Description	**Part No.**
Tool, 21–27 Series	EX21-27QRT
Tool, 37–47–57 Series	EX3-4-57QRT

RETURN TO CONTENTS PAGE

SUPER V® REPLACEMENT TEETH



Design

The Super V tooth design provides a slimmer profile for increased penetration, better loading, reduced fuel consumption, and lower maintenance requirements. Broad stabilizing flats and a large load-bearing area reduce the chance for breakage and tooth loss. The tooth twists a quarter turn onto the adapter and "butts up" against the adapter nose to match breakout forces more closely.

Retention

A vertical one-piece pin provides a quick and safe tooth change-out. The unique pin design delivers a positive and secure lock, yet is easily installed or removed. The pin locks to the point ear independent of the nose and is fully covered by the point ear for reduced wear.

STANDARD

TIGER

TWIN TIGER

FLARE

17 Series	
Description	**Part No.**
Standard	EV17TYL
Pin	EV13-17PN
Adapter, Weld-On	EV833V17
Adapter, Weld-On	EV8841V17
Adapter, Weld-On	EV8806V17
Adapter, Weld-On	EV8842V17

19 Series	
Description	**Part No.**
Standard, Long	EV19SYL
Tiger	EV19VY
Twin Tiger	EV19TVY
Flare	EV19TF
Standard	EV19TY
Pin	EV23PN
Adapter	EV5854-V19

23 Series	
Description	**Part No.**
Standard	EV23SYL
Tiger	EV23VY
Twin Tiger	EV23TVY
Flare	EV23S5F
Pin	EV23PN

29 Series	
Description	**Part No.**
Standard	EV29SYL
Tiger	EV29VY
Twin Tiger	EV29TVY
Flare	EV29S6F
Point, Rock	EV29SDX
Tiger, H-D	EV29VYH
Twin Tiger, H-D	EV29TVYH

RETURN TO CONTENTS PAGE

SUPER V® REPLACEMENT TEETH (CONTINUED)

29 Series *(continued)*

Description	Part No.
Penetration Abrasion	V29SHV
Abrasion	EV29AR
Pin	EV29PN

33 Series

Description	Part No.
Standard	EV33SYL
Tiger	EV33VY
Twin Tiger	EV33TVY
Flare	EV33S7F
Point, Super V	EV33SDX
Pin	EV33PN

39 Series

Description	Part No.
Standard	EV39SYL
Tiger	EV39VY
Twin Tiger	EV39TVY
Flare	EV39S8F
Penetration Abrasion, Centerline	V39SHV
Penetration Abrasion, Non-Centerline	EV39AD
Abrasion Rock, Non-Centerline	EV39AR
Point, Rock	EV39SDX
Pin	EV39PN
Adapter, Bolt-On	EV7712V39
Adapter, Bolt-On	EV7711V39R
Adapter, Bolt-On	EV7711V39L

43 Series

Description	Part No.
Standard, Long	EV43SYL
Tiger	EV43VY
Twin Tiger	EV43TVY
Flare	EV43S9F
Point, Rock	EV43SDX
Tiger, H-D	EV43VYH
Twin Tiger, H-D	EV43TVYH
Penetration Abrasion, Centerline	V43SHV
Penetration Abrasion, Non-Centerline	EV43AD
Standard	EV43TYL
Pin	EV43PN
Adapter, Horn Style	EV129AV43
Adapter, Weld-On Nose	EVWNV43
Adapter, Weld-On	EV1829BV43

51 Series

Description	Part No.
Standard	EV51SYL
Tiger	EV51VY
Standard Rock	EV51RYL
Twin Tiger	EV51TVY
Flare	EV51S10F
Tiger, H-D	EV51VYH

51 Series *(continued)*

Description	Part No.
Twin Tiger, H-D	EV51TVYH
Abrasion Rock Heavy	EV51ARH
Abrasion Rock	EV51AR
Abrasion Penetration	EV51AD
Chisel, H-D	EV51SDX
Pin	EV51PN
Pin, Hot Slag	EV51HPN

59 Series

Description	Part No.
Standard	EV59SYL
Abrasion Penetration	EV59AD
Chisel, H-D	EV59SDX
Twin Tiger	EV59TVY
Tiger	EV59VY
Pin	EV59PN
Adapter	EV3858V59

61 Series

Description	Part No.
Standard	EV61SYL
Impact Abrasion	EV61RY
Abrasion Rock Long	EV61ARL
Chisel	EV61SD
Twin Tiger	EV61TVP
Tiger	EV61VX
Pin	EV61PNA

69 Series

Description	Part No.
Standard	EV69SYL
Standard Rock	EV69RYL
Adapter	EV3858V69
Tiger	EV69VX
Abrasion Rock Long	EV69ARL
Pin	EV69PN
Pin, Hot Slag	EV69HPNA
Adapter	EV5898V69

71 Series

Description	Part No.
Standard	EV71SYL
Standard Rock	EV71RYL
Tiger	EV71VX
Chisel	EV71SD
Pin	EV71PN

81 Series

Description	Part No.
Standard	EV81SYL
Standard Rock	EV81RYL
Tiger	EV81VX
Chisel	EV81SD
Pin	EV81PN

RETURN TO CONTENTS PAGE

RIPPER/SCARIFIER REPLACEMENT TEETH

STANDARD *(CRIMP-ON)*

STANDARD

RIPPER TOOTH

PENETRATION

LONG

RIPPER TOOTH

Deere	
Description	**Part No.**
Ripper Tooth	U15517
Scarifier Tooth	T6Y5230
Shank	T66192
Lock	U17204
Leaf Spring	U40130
Ripper Shank	T211749
Scarifier Shank	T114792
Scarifier Tooth	T034
Pin, Groove	U15522
Adapter, Bolt-On for Scraper Edge	U16087

CAT®	
Description	**Part No.**
Standard	T6Y5230
Long	T1U3202
Retainer	T8E6209
Retainer	T8E6259
Penetration	T9J4259
Long/Penetration	T6Y0309
Intermediate	T9W2452
Short	T9W2451
Pin	T9W2668
Pin	T8E6258
Pin	T8E6358
Pin	T8E6208
Washer	T8E6359
Shank Guard	T8E1848
Shank Tip	T8E8418

CAT *(continued)*	
Description	**Part No.**
Scarifier Shank	T9F5124
Penetration	T9J8920
Standard	T1140453

H&L 18, 20, 21, 22, and 23 Series	
Description	**Part No.**
Standard, Crimp-On	T1L
Standard	T260
Standard Pin	T25P

Miscellaneous	
Description	**Part No.**
Side Cutter	T1156A
Side Cutter	T1157A
Grapple Tooth	T151947

ESCO 22, 25, 35, and 39 Series	
Description	**Part No.**
Standard	EX25R12
Bushing	EX25RBG
Ripper	T356R15
Pin	EX25RPG
Ripper Tooth	T35-5R15
Ripper Shroud	T35-5RSLB
Ripper Tooth	T35R14
Ripper Tooth	T35R16
Retainer, Bushing	T35RBS
Spacer, Ring	T35RLKSR
Shank Guard	T356RSL
Shank Tip	T356RWNS
Ripper Nose, Weld-On	T35RNSEF
Ripper Nose, Weld-On	T35RNSPF

RETURN TO CONTENTS PAGE

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