BUCKET TEETH & ADAPTERS

Large range of Bucket Teeth for all models of Excavators & Loaders

West-Trak®
UNRIVALLED STRENGTH

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BUCKET TEETH RANGE

WE STOCK THE LARGEST RANGE OF BUCKET TEETH IN NZ! AVAILABLE TO SUIT ALL MAKES AND MODELS OF EXCAVATORS AND LOADERS, WORKING IN CONSTRUCTION AND MINING APPLICATIONS

STARMET TOOTH SYSTEM

The worlds most trusted tooth system with a hammerless pin and self sharpening design. For 20-400 tonne machines

Pg. 3

ESCO STYLE CONICAL TEETH

A range of tooth styles for 1-40 tonne machines

Pg. 34

CAT STYLE TEETH

A range of J-Series tooth styles for 5-50 tonne machines

Pg. 19

HYUNDAI STYLE TEETH

A range of tooth styles for 10-30 tonne machines

Pg. 43

DOOSAN STYLE TEETH

A range of tooth styles for 10-50 tonne machines

Pg. 30

KOMATSU STYLE TEETH

A range of tooth styles for 10-70 tonne machines

Pg. 50

MTG

No limits innovation

Our Premium range of high quality bucket teeth are made by MTG

All teeth are aftermarket brands and are not produced by original equipment manufacturers

STARMET TOOTH SYSTEM

The worlds most trusted Bucket Tooth system

MAXIMISE THE RETURN ON YOUR MACHINE INVESTMENT BY USING THE MOST RELIABLE AND SAFEST, HAMMERLESS TEETH ON YOUR BUCKETS

THE STARMET ADVANTAGE

- Guranteed no loss of Teeth
- Self Sharpening Teeth
- Faster change over times
- No need to weld up adapter noses
- Up to 30% increase in G.E.T wear life
- Increased safety with hammerless pin technology

Over 300 Excavators and Loaders are successfully using this StarMet system in New Zealand

Increase your productivity

ULTIMATE SAFETY

The hammerless twist pin mechanism requires no hammering action to install the pins, greatly reducing the risk of flying metal and accidents. The pins are simply pushed into place by hand and turned 90 degrees with a tool to securely fasten them.

NO LOSS OF TEETH

The hammerless locking system uses the twist pin and an elastomet retainer that has excellent retention. This ensures the teeth can never come loose or fall off.

LONGER SERVICE LIFE

All teeth styles are designed to self sharpen as they wear and do not need to be reversed, therefore reducing machine downtime.

Adapter geometry is designed to protect the welded area from washing.

The teeth auto tighten onto the adapter under impact so there is no movement or wear on the adapter nose. Adapter noses do not need to be built up.

ADAPTER WEAR CAP

A slide-on mechanical wear cap is fitted to the top of each adapter to prevent wear and damage. These are held on by the tooth and can last up to 4 teeth changes before needing to be replaced, depending on the abrasiveness of material.

FASTER TIP CHANGES

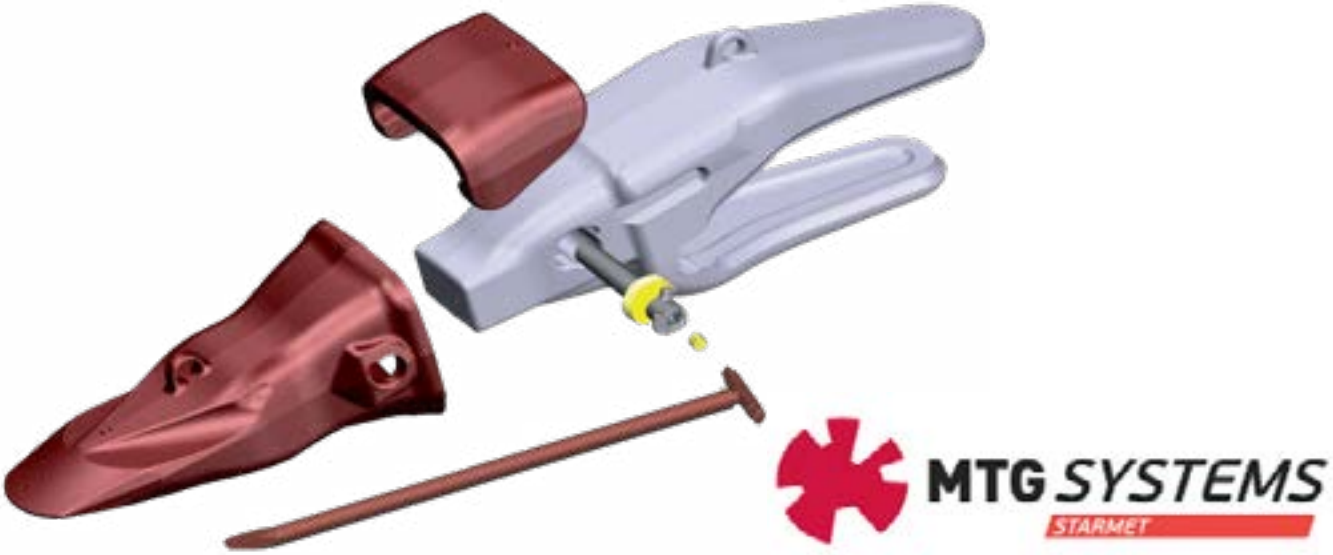
The teeth and wear caps are very quick and easy to replace on-site by only one person.

WELL PROVEN PRODUCT

This STARMET system has been very well proven, tried and tested in extreme mining applications all over the world. With most large excavators successfully using this system in New Zealand mines and quarries, its the only choice for maximum safety and productivity.

RELIABLE SUPPLY

West-Trak maintain large stock holdings of componentry at all times to ensure exemplary service and reliability of supply.



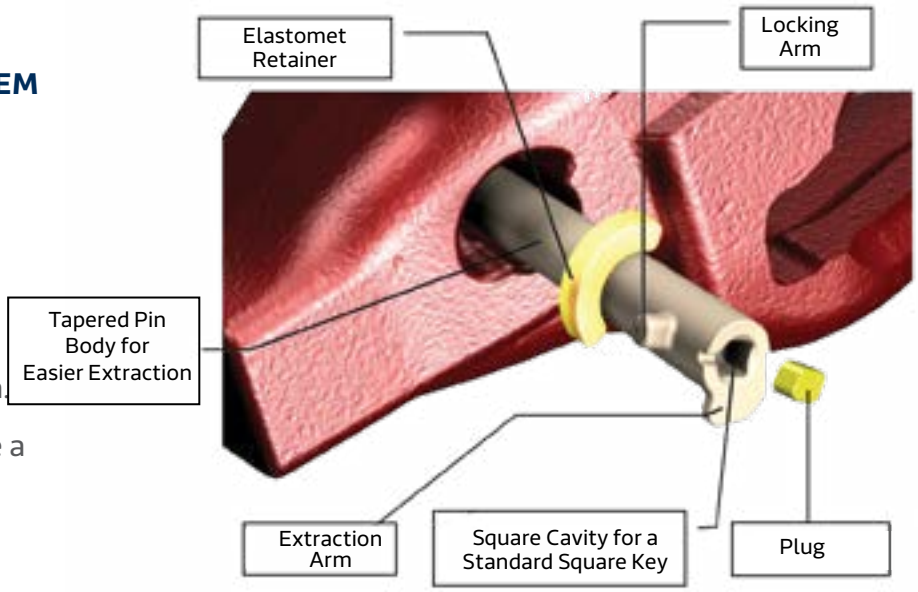
READ OUR CASE STUDIES ONLINE AT WWW.WEST-TRAK.CO.NZ

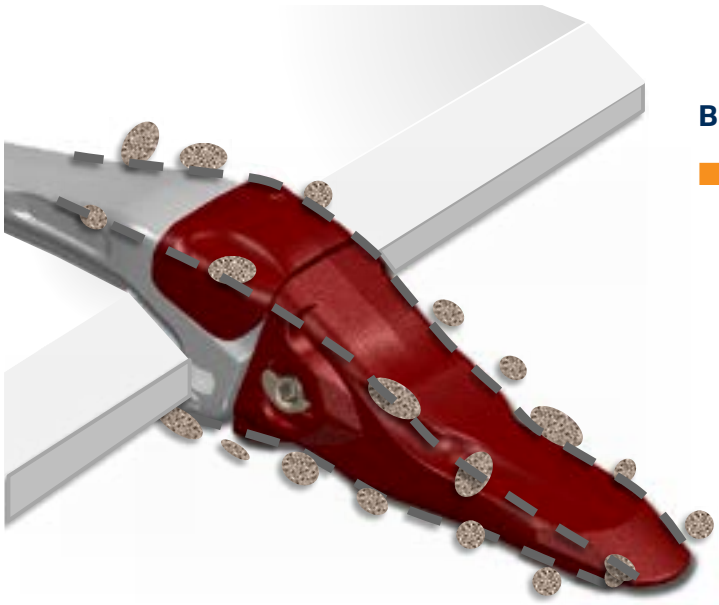
Performance benefits like no other

MANY IMPORTANT FEATURES AND BENEFITS ARE BUILT INTO THE STARMET TOOTH AND ADAPTER SYSTEM TO INCREASE SAFETY, DURABILITY AND MACHINE EFFICIENCY

HAMMERLESS LOCKING SYSTEM

- The innovative twist pin solution ensures quick assembly and disassembly reducing your machine's downtime.
- Safer holding mechanism with excellent pin retention.
- The pin is tapered to ensure a tight fit in the adapter, preventing any movement.





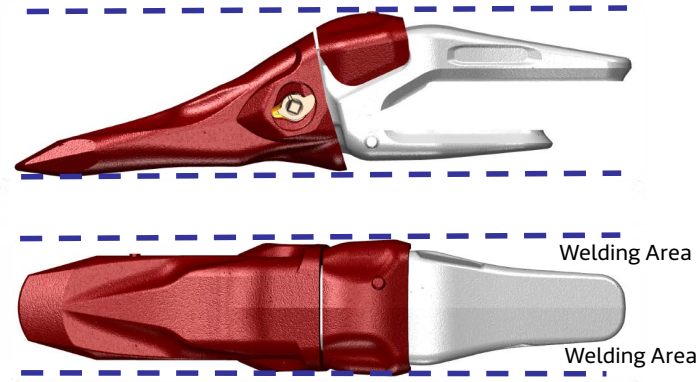
BETTER BUCKET PENETRATION

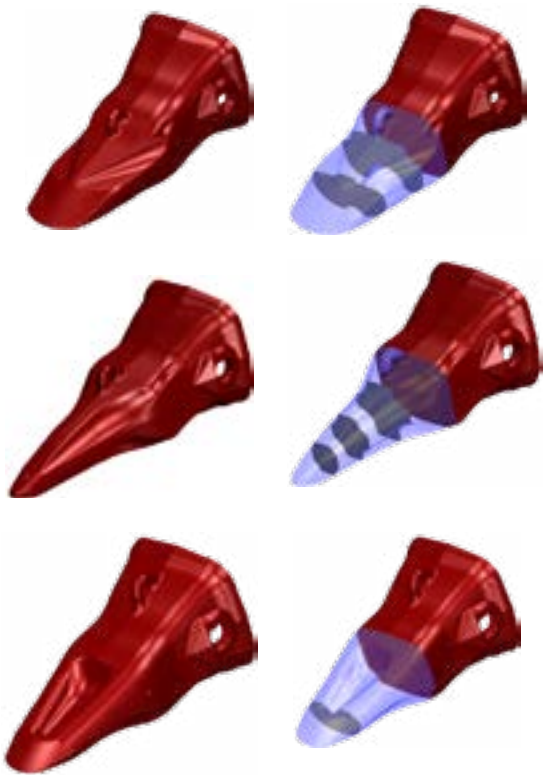
- The streamline integrated geometry of the Tooth, Wear cap, and Adapter allows for good flow of material and improved bucket penetration.

STARMET TOOTH SYSTEM

LONGER ADAPTER LIFE

- The unique design of StarMet adapters mean they will last longer and stay stronger as they wear
- The top of adapters are protected by a slide-on replaceable wear cap to protect it from wear and damage
- The adapter welding areas are protected from excessive wear (one of the primary reasons for adapter breakage)

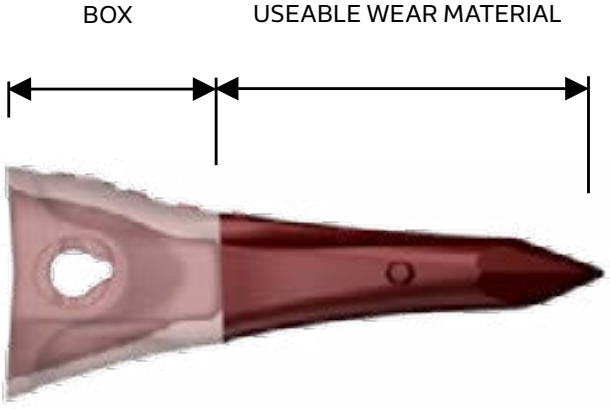




SELF SHARPENING TEETH

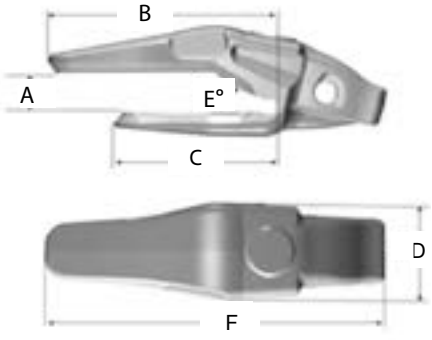
- All teeth styles are designed to self sharpen as they wear, providing excellent penetration, long service life and less fuel consumption
- Every StarMet tooth is designed to have the maximum usable wear material
- Teeth are available in a range of different styles for all types of applications

“StarMet teeth have the most amount of usable wear material than any other brand of tooth"



STARMET ADAPTERS

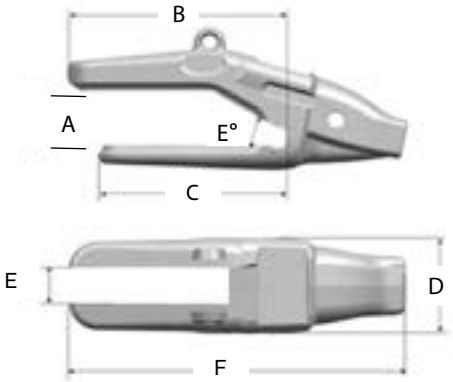
2-STRAP ADAPTERS



Part No	A	B	C	D	E	F	KG	Machine Size
1MA40WC45	45mm	266	198	114	30	409	14	20 - 30 Tonne
1MA50WC50	50mm	297	213	127	30	441	19	35 - 40 Tonne
1MA60WC60	60mm	314	206	145	30	486	29	45 - 55 Tonne
1MA120WC80	80mm	433	326	208	30	678	55	60 - 110 Tonne
1MA180WC100	100mm	445	337	200	30	717	76	120 - 140 Tonne
1MA240WC100	100mm	566	421	218	30	877	125	140 - 220 Tonne
1MA240WC120	120mm	566	421	218	30	877	119	140 - 220 Tonne
1MA500WC120	120mm	582	508	246	30	930	177	240 - 400 Tonne
1MA500WC140	140mm	582	508	246	30	930	172	240 - 400 Tonne

Dimensions in mm

2-STRAP STRADDLE ADAPTERS



Part No	A	B	C	D	E	F	G	KG	Machine Size
1MA180WS90	90 mm	444	341	198	30	720	75	78	120-140 Tonne
1MA240WS100	100mm	574	427	224	30	876	75	125	140 - 220 Tonne
1MA240WS120	120mm	574	427	224	30	876	75	120	140 - 220 Tonne
1MA500WS120	120mm	576	506	245	30	920	90	166	240 - 400 Tonne
1MA500WS140	140mm	576	506	245	30	920	90	172	240 - 400 Tonne

Dimensions in mm

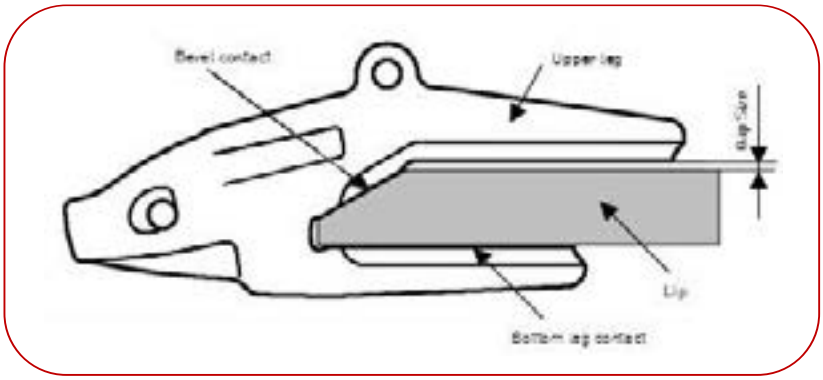
STARMET ADAPTER WELDING

WELDING INSTRUCTIONS FOR MTG ADAPTERS

WELDING UNALLOYED & LOW ALLOYED FILLER CONSUMABLES		
Process	**EN Class**	**AWS Class**
SMAW	EN ISO 2560-A E42X	E70X according to A5.1 or equivalent under A5.5
GMAW	EN ISO 14341-A G42X EN ISO 14341-A G46X	E70C-X according to A5.18 or equivalent under A5.28
		ER70S-X according to A5.18 or equivalent under A5.28
FCAW	EN ISO 16834-A T42X	E7XT-X according to A5.20 or equivalent under A5.29

WELDING AUSTENITIC STAINLESS FILLER CONSUMABLES	
Process	**AWS Class**
SMAW	E307-X according to A5.4
GMAW	E307T-X according to A5.22
	ER307 according to A5.9
FCAW	307X according to A5.22

Note that "X" may stand for one or several characters



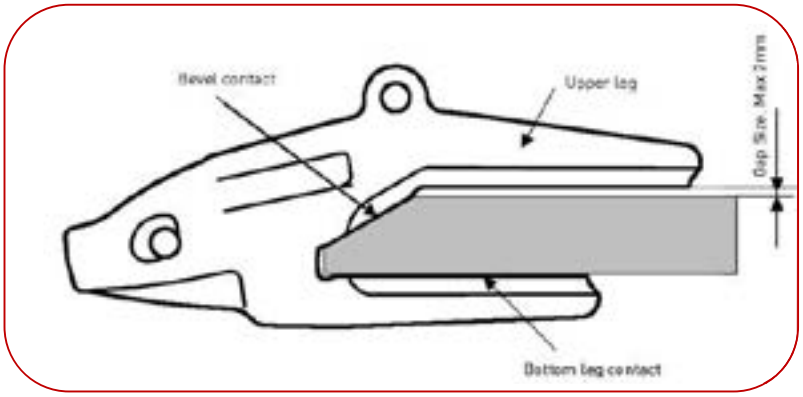
STARMET ADAPTER WELDING

STEP 1:

All mill scale, rust, paint, oil grease, arc air slag or moisture shall be removed from the surfaces within 12.5 mm / 0.5 in. of any weld location. The surfaces must be sufficiently clean so that there is nothing that might contain moisture or hydrocarbons, which break down in the heat of the arc producing hydrogen, which can be absorbed in the weld and cause cracks. Removal may be accomplished by shot blasting, sand blasting, grinding or machining. Any porosity, burned-in sand or other defects visible on the weld prep surfaces must be removed by grinding or arc air gouging.

STEP 2:

Place adapter on lip plate per desired location from side to side. Bottom leg and bevel angle should be in full contact as show in figure below:



STEP 3:

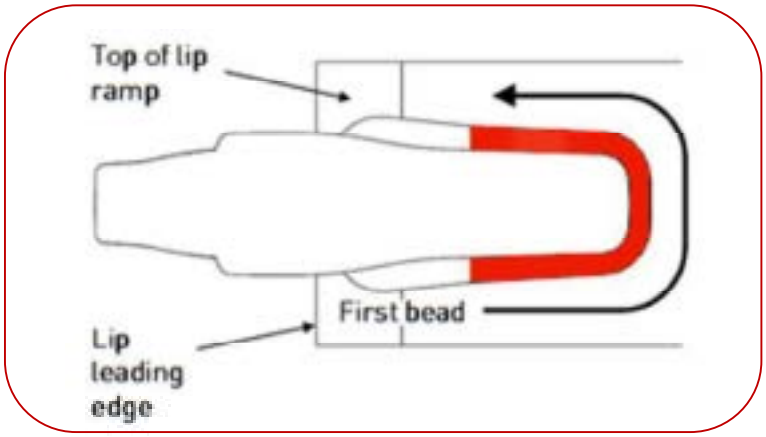
Preheat adapter and lip to a temperature between 150°C and 180°C (302°F and 356°F) within an offset of 100mm / 4in all around according to what is exposed on the document entitled "General welding recommendations". Do not overpass 250°C / 482°F.

STEP 4:

Apply one 25mm / 1.00 in. long tack weld at the root of the weld groove on each side of the top leg, midway between the end of the leg and the trailing edge of the lip bevel.

STEP 5:

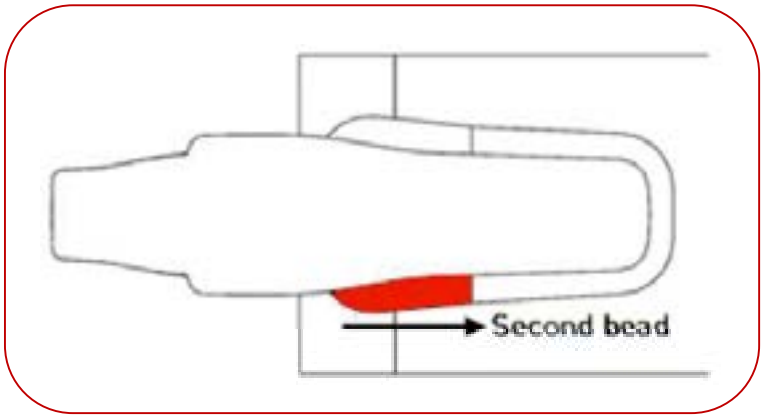
Begin welding at the center of top leg and weld one pass around the back of the leg to the center of the opposite side.



STARMET ADAPTER WELDING

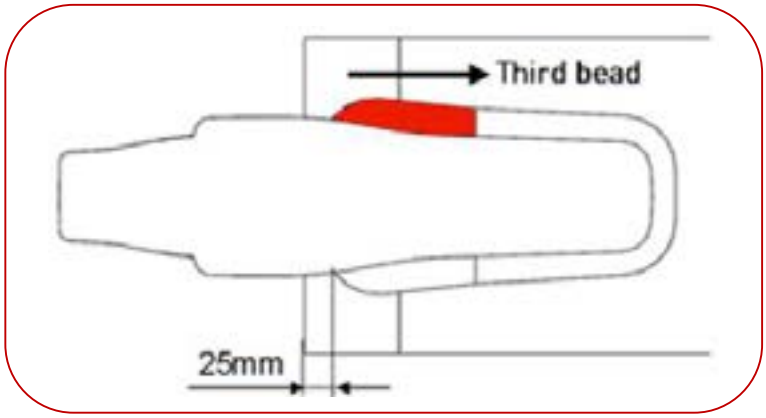
STEP 6:

On the initially welded side, begin welding at the front of the weld groove and proceed to the starting point of the first bead. Do not weld within 19 - 25mm / 0.75 - 1.00 in. of the lip leading edge.



STEP 7:

Place a similar bead on the opposite side of the top leg.



STEP 8:

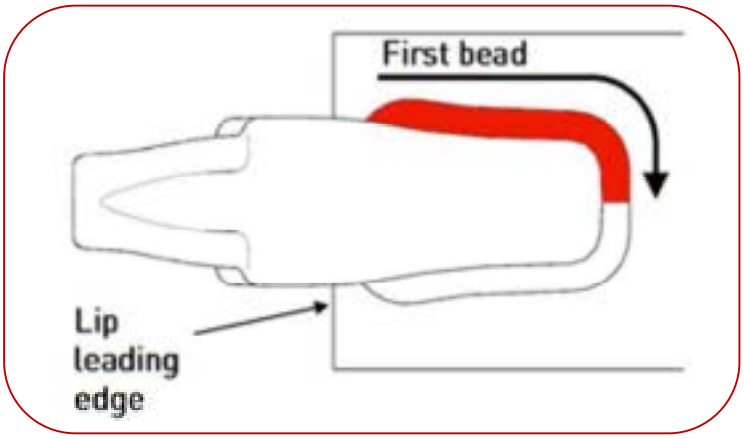
Repeat this sequence (steps 5, 6 and 7) three times. Vary the lengths of the beads slightly so that the start/stop positions are not at exactly the same location.

STEP 9:

Turn the lip over.

STEP 10:

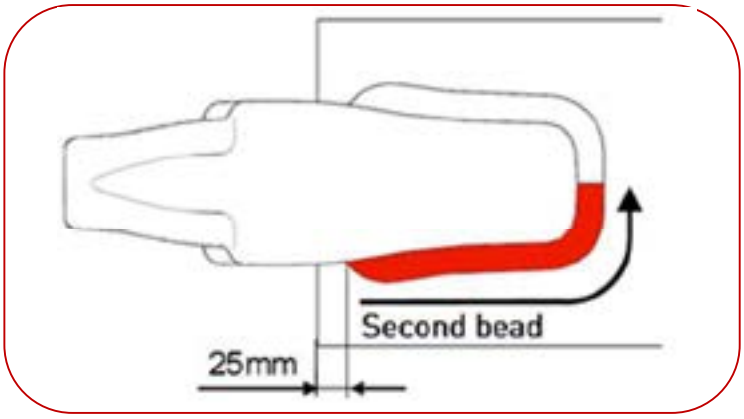
Begin welding at the front of the weld groove on the bottom leg and weld to the back of the leg. Do not weld within 19-25mm/0.75 - 1.00 in. to the lip leading edge.



STARMET ADAPTER WELDING

STEP 11:

Begin welding at the front of the groove on the opposite side of the leg, joining the initial bead at the back of the leg.



STEP 12:

Repeat this sequence (steps 10 and 11) three times. Vary the lengths of the beads slightly so that the start/stop positions are not at exactly the same location.

STEP 13:

If the adapter size requires additional weld layers, turn the lip over and weld three layers according to the sequence for the top leg (steps 5, 6 and 7).

STEP 14:

Turn the lip over again and apply three layers according to the sequence for the bottom leg. (steps 10 and 11).

STEP 15:

The leg sizes of the fillet must be flush and less than 3.2mm / 0.13 in. above the edge of the cast weld groove. In some adapter patterns, the weld groove height decreases near the leading edge of the lip. With these adapters, the size of the fillet shall decrease correspondingly in the region.

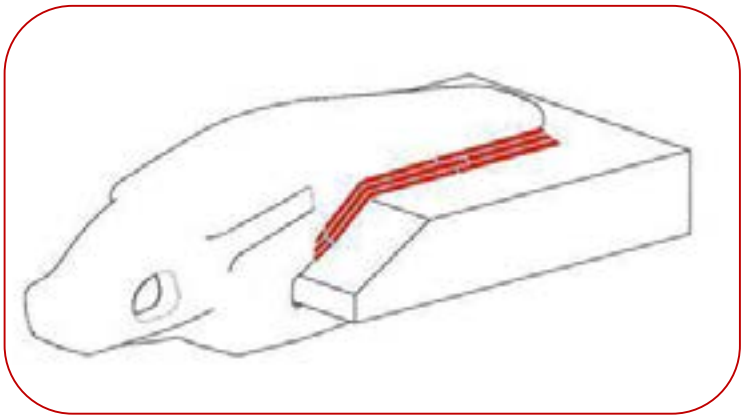
STEP 16:

Once welding is completed, cover adapter with a thick welding blanket to allow slow cooling. Once adaptor has cooled to below 50 degrees, post heat it back up to 250 degrees to destress the welds. Cover with welding blankets and allow slow cooling.

STARMET ADAPTER WELDING

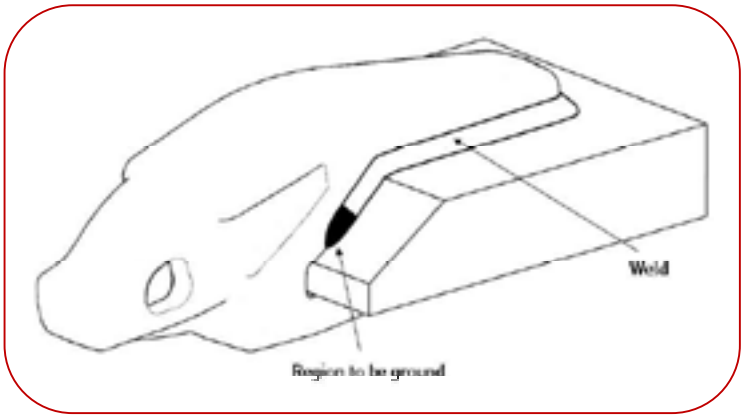
STEP 17:

When welding large adapters, considerable grinding effort can be saved by carefully positioning the starting points of the beads near the leading edge. Start each bead slightly behind those of the preceding layer so as to produce a "rounded" weld end.



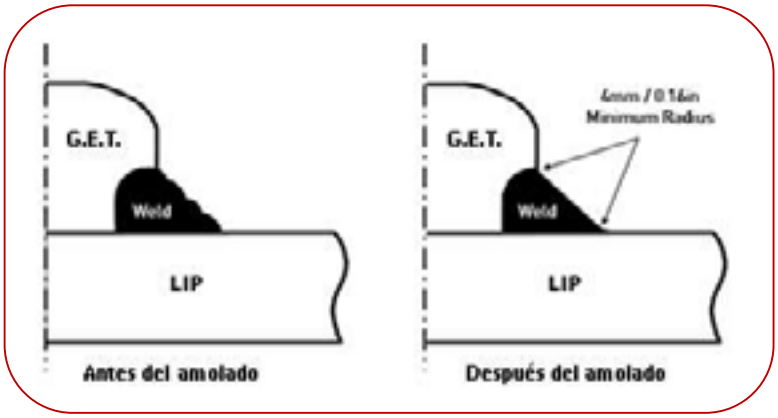
STEP 18:

The surfaces of adapter/lip fabrication welds shall be ground smooth 65 - 75mm / 2.50 - 3.00 in. from the front ends as indicated in the figures below. All welds on both the top and bottom of the lip shall be ground.



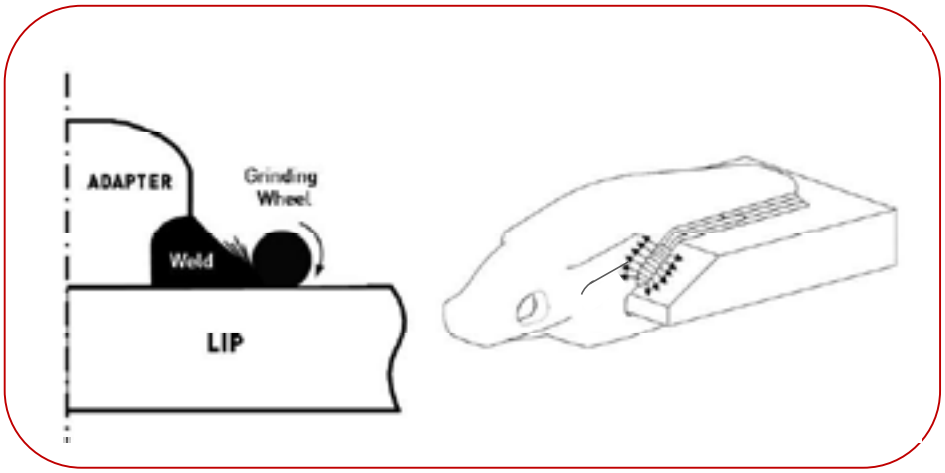
STEP 19:

Grinding shall produce a smooth surface free of roughness and unevenness associated with the weld beads. The toes of the welds shall merge smoothly with the lip and the adapter with a minimum radius of 4mm / 0.16 in.



Grinding shall be done using high speed electric or pneumatic grinders with grinding wheels no larger than 50mm / 2.00 in. in diameter. ANGLE HEAD OR DISK GRINDERS ARE NOT ALLOWED FOR THIS WORK.

Grinding shall be done with the perimeter of the wheel and not the face. The grinding direction must be perpendicular to the toes of the welds as in the illustration:



Proper Grinding Directions:

Grinding the radio at the toes of the welds is facilitated by the use of cone-shaped grinding wheels. For final grinding, the abrasive may be no coarser than 24 Grit.

STEP 20:

On StarMet adapters from size 50 onwards, it is recommendable to perform a TIG dressing on both upper and lower adapters' straps. This process involves using a GTAW torch to make an autogenous weld pass along the toe of the weld fillet.

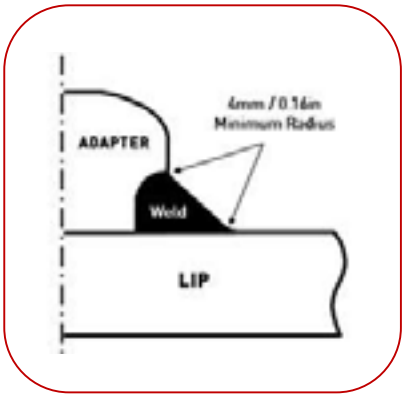
The welding power supply shall have high-frequency start capabilities. "Scratch-starting" is not allowed. It is preferable to employ a remote foot-pedal current control so as to permit suitable filling of craters at the ends of beads.

Process	GTAW	
Electrode Type	AWS EWTh-2 (2% Thoriated)	
Electrode Dia	2.4 to 4mm / 3/32 to 5/32 in.	
Shielding Gas	100% Argon	
Gas Cup Size	13mm / 0.50 in.	
Gas Flow Rate	9.4 to 14.2 l/minute / 20 to 30 ftVhour	
Current Type	Direct	
Polarity	Straight (Electrode Negative)	
Current Range	2.4mm / 3/32 in.	175 to 250 Amperes
	3.2mm / 1/8 in.	250 to 300 Amperes
	4.0mm / 5/32 in.	400 to 500 Amperes
Electrode to Work Distance	1.6 to 3.2mm / 1/16 to 1/8 in.	

STARMET ADAPTER WELDING

Any defects along the toes of the welds must be corrected by grinding or repair welding before the GTAW process. The torch shall be positioned over the weld toe and shall be oriented so as to produce a smooth weld bead without undercut. The welder shall control the travel speed so as to obtain a bead ranging from 4.8 - 8mm / 0.19 - 0.31 in. wide.

The GTAW dressed is recommendable to be performed along to the weld toes on the top and bottom legs.



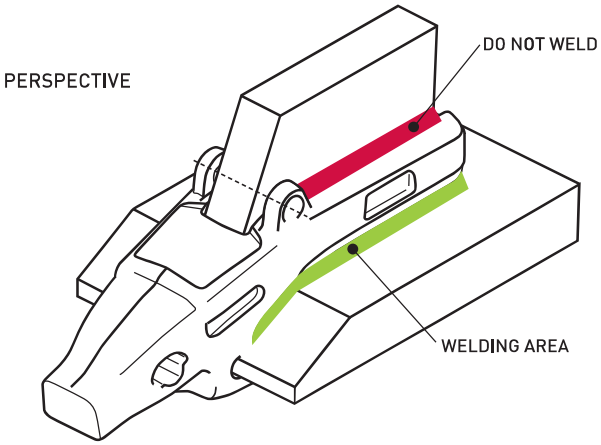
STEP 21:

Repeat the sequence at all the rest of stations.

STEP 22:

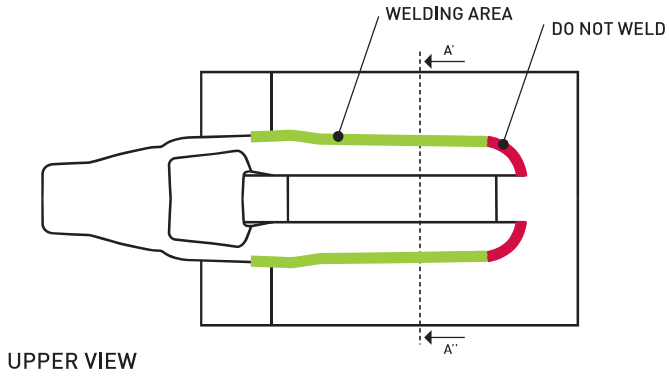
After completion of welding, all welds shall be subjected to visual and magnetic particle inspection. Any detected welding crack must be cleaned and repaired.

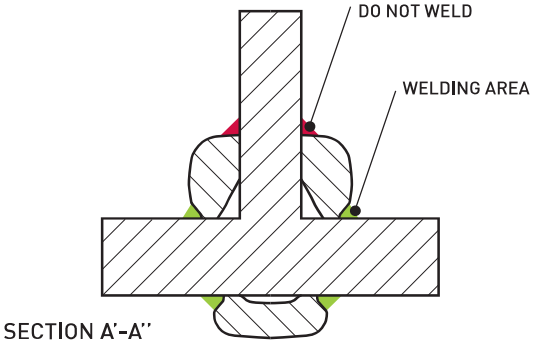
Welding Instructions for Straddle leg Adapters



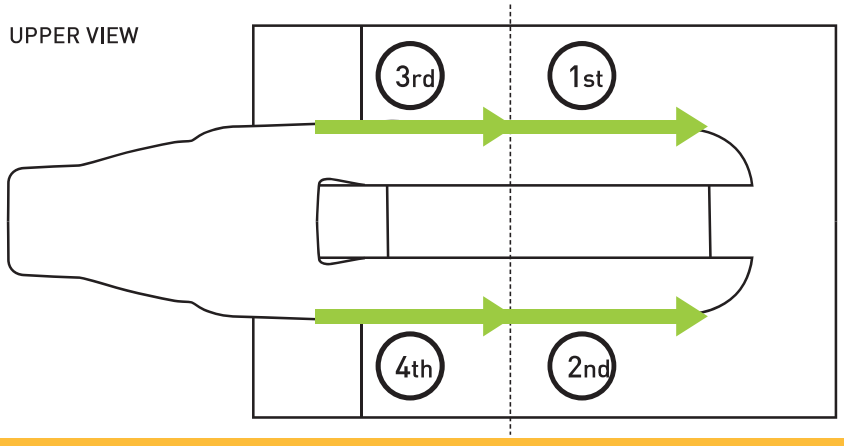
Welding areas

1. Place the adapter on the blade and assure a good fitting with the lip bevel
2. Follow the MTG General Welding Instructions (Read page. 90)
3. Weld the bottom leg in the same way as is specified for two strap adapters (Read page. 91)
4. Weld the top leg as specified in the following figures





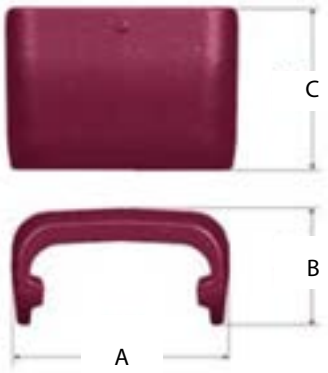
Welding process



STARMET ADAPTER WEAR CAPS

CENTRE ADAPTER WEAR CAP

Fig.1



STRADDLE ADAPTER WEAR CAP

Fig.2

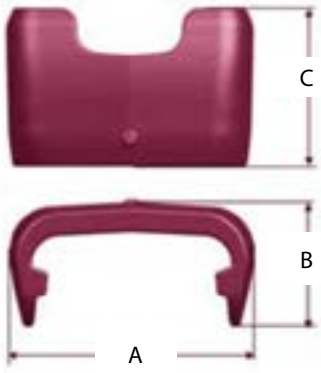


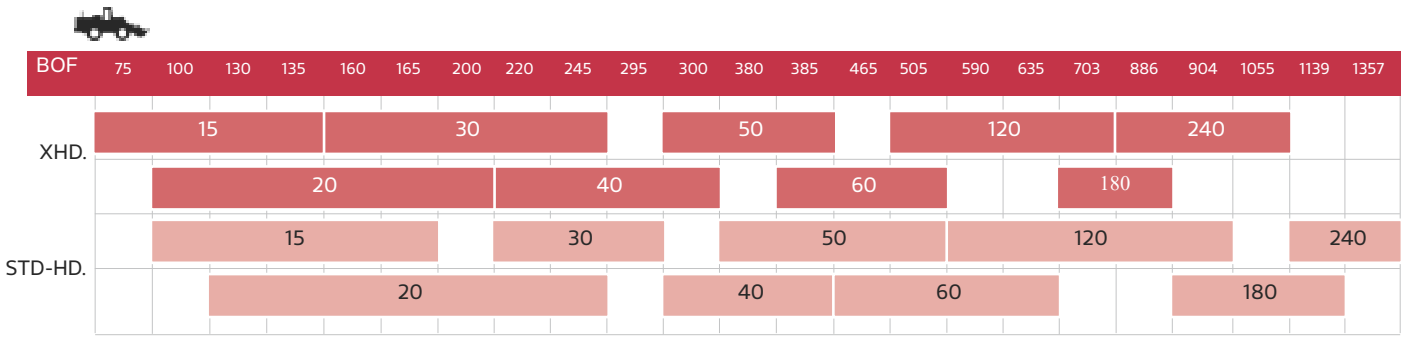
Fig	Part No	A	B	C	KG	Machine Size
1	4MA40M	135	50	90	2.1	20 - 30 Tonne
1	4MA50M	150	75	96	2.3	35 - 40 Tonne
1	4MA60M	178	112	102	4.2	45 - 55 Tonne
1	4MA120M	208	104	129	5.8	60 - 110 Tonne
1	4MA180M	231	148	117	8.5	120 - 140 Tonne
1	4MA240M	245	164	140	11.3	140 - 220 Tonne
1	4MA500M	280	145	205	18.0	240 - 400 Tonne
2	4MA500MS	280	145	205	19.0	240 - 400 Tonne

Dimensions in mm

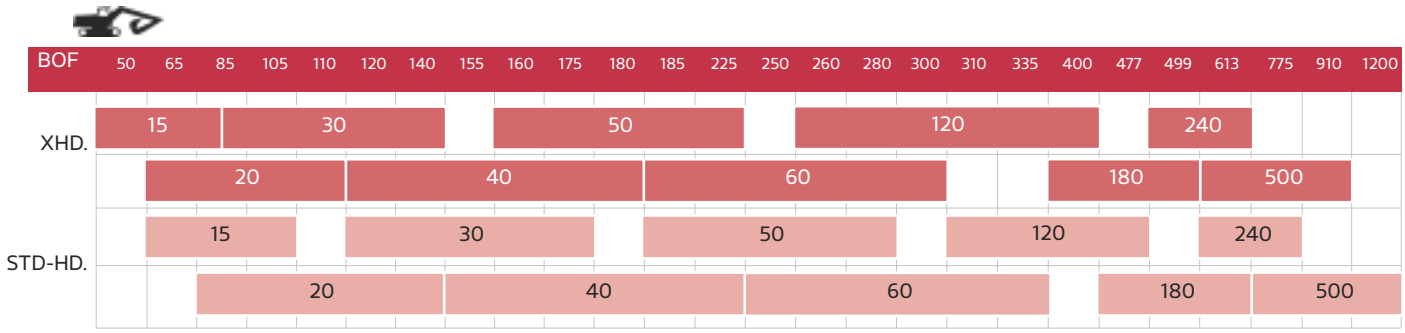
StarMet Tooth
size reference chart

THE CHARTS BELOW SHOW THE RECOMMENDED STARMET TOOTH SIZE FOR THE BREAK OUT FORCE LEVEL OF WHEEL LOADERS, BACKHOE AND FACE SHOVEL EXCAVATORS

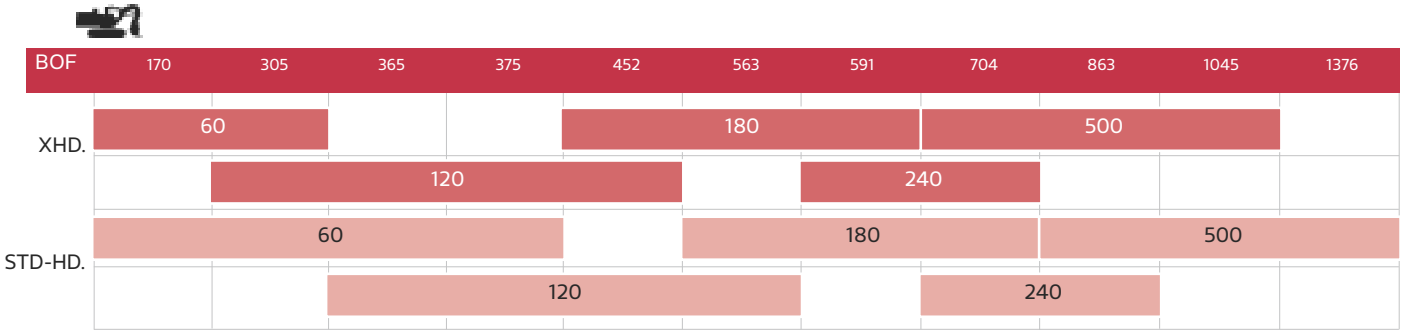
WHEEL LOADERS



BACKHOE EXCAVATORS



FACE SHOVEL EXCAVATORS



Get the right tool
for the job

EXTRA (E1)

A general purpose design for medium abrasion applications, providing good penetration

VECTOR (V)

For high penetration, low abrasion applications. Ideal for clay and coal

EXTREME (EX)

For highly abrasive and low penetration applications. More wear material than the (E1) design

DOUBLE VECTOR (W)

For high penetration, low abrasion applications. Ideal for clay and coal. Often used on the outside adapters

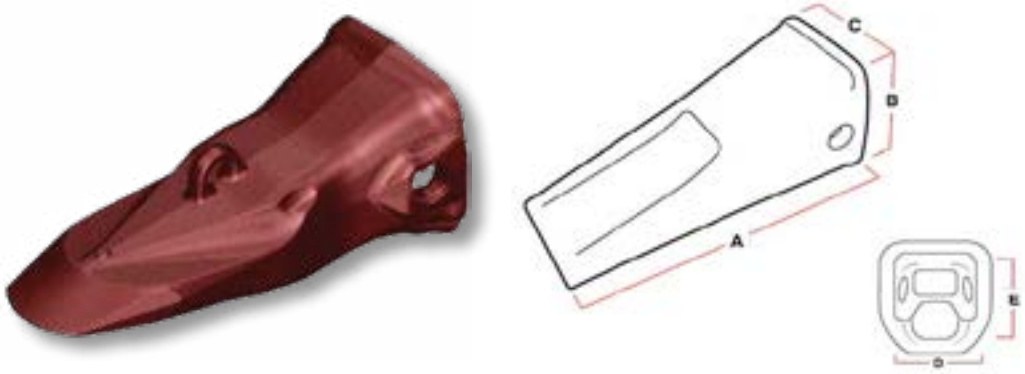
ABRASION (A)

For use on loaders, providing maximum wear material on the bottom side

Using the correct tooth style for the application will maximise your machines performance, productivity and fuel economy

STARMET BUCKET TEETH

EXTRA TIP (E1) - *Premium quality, self sharpening design*



	External			Internal			
Part No	**A**	**B**	**C**	**D**	**E**	**KG**	**Machine Size**
MA40E1	321	141	126	84	105	10.4	20 - 30 Tonne
MA50E1	347	153	139	95	115	12.5	35 - 40 Tonne
MA60E1	391	176	161	106	130	19.5	45 - 55 Tonne
MA120E1	441	202	191	140	155	29	60 - 110 Tonne
MA180E1	492	225	212	150	170	42	120 - 140 Tonne
MA240E1	522	246	242	175	190	51	140 - 220 Tonne
MA500E1	588	294	277	200	220	78	240-400 Tonne

All measurements in millimetres

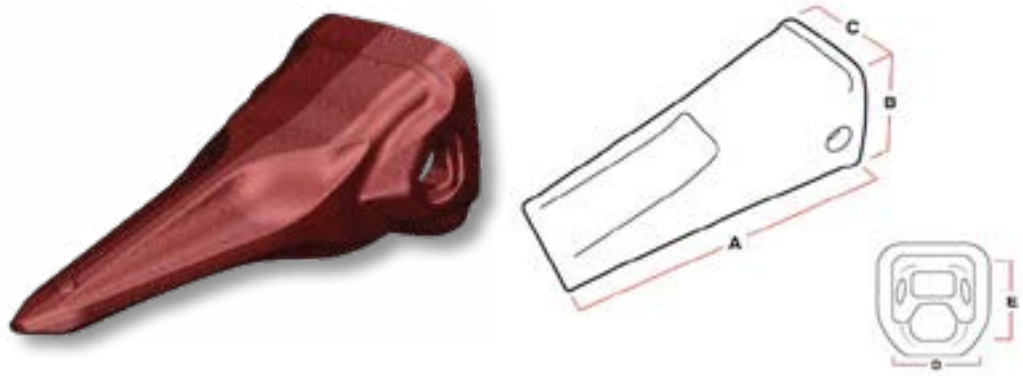
EXTREME TIP (EX) - *Premium quality, self sharpening design*

	External			Internal			
Part No	**A**	**B**	**C**	**D**	**E**	**KG**	**Machine Size**
MA50EX	367	153	139	95	115	17	35 - 40 Tonne
MA60EX	409	176	161	106	130	24.0	45 - 55 Tonne
MA120EX	443	202	191	140	155	33.8	60- 110 Tonne
MA180EX	492	225	212	150	170	52.3	120 - 140Tonne
MA240EX	524	246	242	175	190	62.7	140 - 220 Tonne
MA500EX	588	294	277	200	220	95.0	240 - 400 Tonne

All measurements in millimetres

STARMET BUCKET TEETH

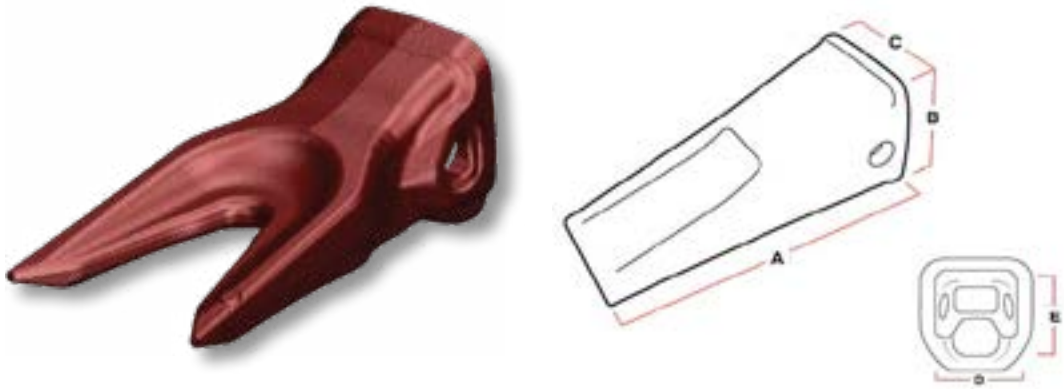
VECTOR TIP (V) - *Premium quality, self sharpening design*



	External			Internal			
Part No	**A**	**B**	**C**	**D**	**E**	**KG**	**Machine Size**
MA40V	332	141	126	84	105	8.13	20 - 30 Tonne
MA50V	359	153	139	95	115	10.13	35 - 40 Tonne
MA60V	407	176	161	106	130	15.7	45 - 55 Tonne
MA120V	475	202	191	140	155	23.45	60 - 110 Tonne
MA180V	516	225	212	150	170	32.5	120 - 140 Tonne
MA240V	567	246	242	175	190	45	140 - 220 Tonne

All measurements in millimetres

DOUBLE VECTOR TIP (W) - *Premium quality, self sharpening desig*

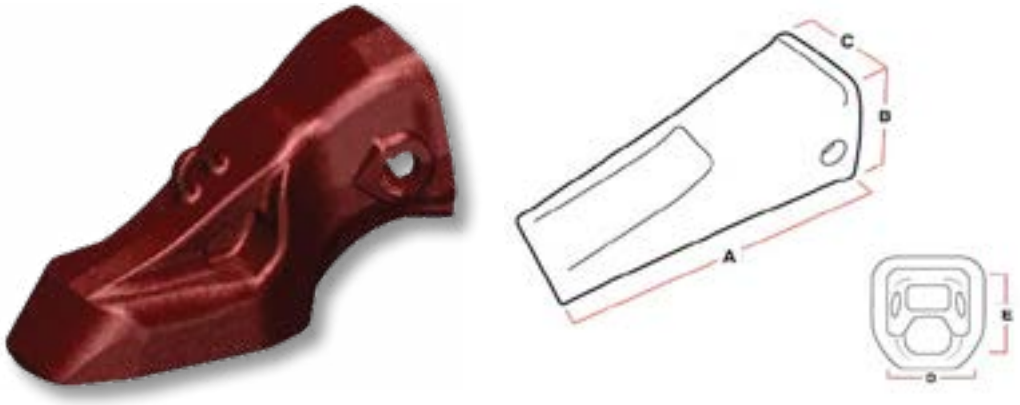


	External			Internal			
Part No	**A**	**B**	**C**	**D**	**E**	**KG**	**Machine Size**
MA40W	332	141	126	84	105	10.63	20 - 30 Tonne
MA50W	359	153	139	95	115	13.7	35 - 40 Tonne
MA60W	407	176	161	106	130	19.6	45 - 55 Tonne
MA120W	475	202	191	140	155	31.0	60 - 110 Tonne

All measurements in millimetres

STARMET BUCKET TEETH

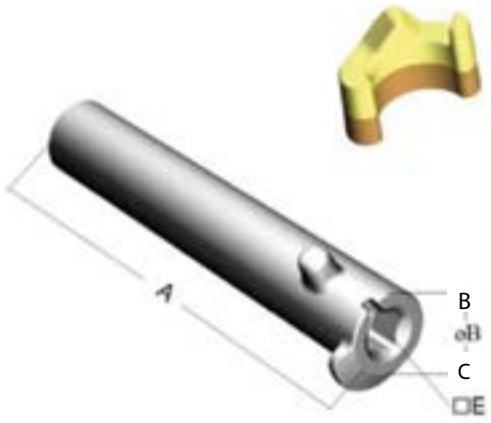
ABRASION TIP (A) - *Premium quality, self sharpening design*



	External			Internal			
Part No	**A**	**B**	**C**	**D**	**E**	**KG**	**Machine Size**
MA60A	383	176	161	106	130	30	CAT988 / WA600
MA120A	463	202	191	140	155	48	CAT 992 / WA900

All measurements in millimetres

PIN AND RETAINER



			Square Drive
Part No	**A**	**B**	**C**
2MA40PR	113	24	3/8”
2MA50PR	132	28	1/2”
2MA60PR	150	32	1/2”
2MA120PR	177	30	1/2”
2MA180PR	196	32.5	1/2”
2MA240PR	213	37	3/4”
2MA500PR	246	41	3/4”

All measurements in millimetres

STARMET TEETH FITMENT

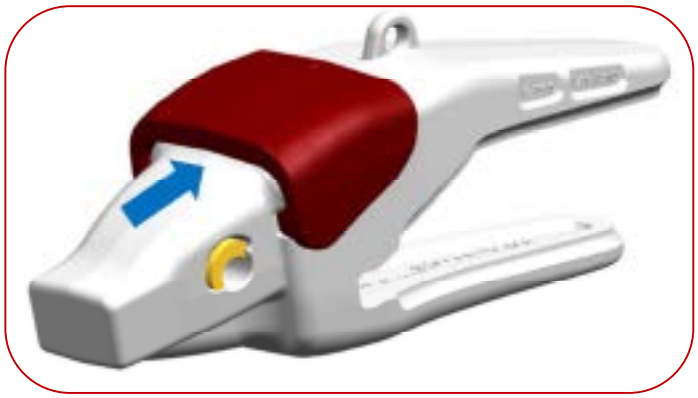
GENERAL INSTRUCTIONS FOR ASSEMBLY AND DISASSEMBLY OF STARMET TEETH

STEP 1:

Insertar el retenedor en el receso dispuesto para ello en la nariz del adaptador.

STEP 2:

If required, insert the wear cap through the guides.



STEP 3:

Insert the tooth into the adapter nose

STEP 4:

Insert the pin into the tooth' s hole until it stops.

STEP 5:

By means of the removal tool, turn the pin 90º clockwise. Insert the fines cap into the squared pin tool hole.

Removal procedure

STEP 1:

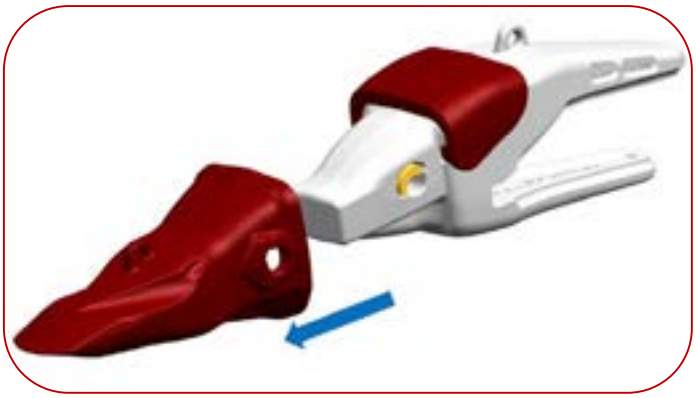
Remove the fines cap from its housing and turn the pin 90º anti-clockwise to unlock the pin. A sway movement it is recommended.

STEP 2:

Take the pin off by slightly hitting the pin's tool opposite side.

STEP 3:

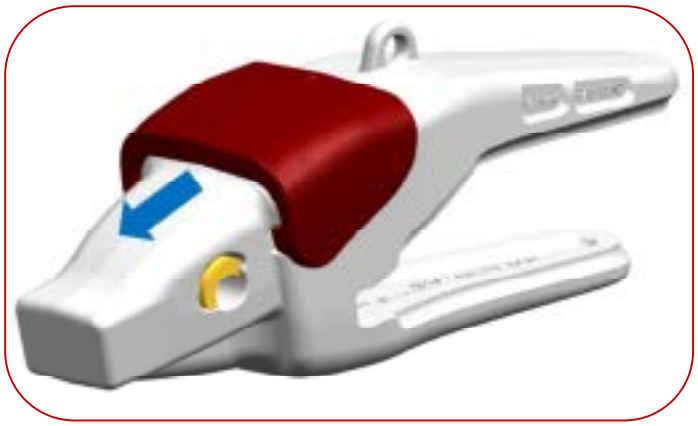
Remove the tooth from the adapter.



GENERAL INSTRUCTIONS FOR ASSEMBLY AND DISASSEMBLY OF STARMET TEETH

STEP 4:

Check the status of the wear cap, if it was installed, and replace it if necessary.



STEP 5:

Take the retainer off and replace it by a new one.

STARMET TEETH CONVERSIONS

EC290 Rock Bucket

PC600 Rock Bucket

5130 Rock Bucket

992 Loader Bucket

EX3600 Rock Bucket

5130 Rock Bucket

Click the link http://www.west-trak.co.nz/ground-engaging-tools/hammerless-starmet-system/ **or scan the code to view our MTG Starmet System video**

Case Study - OceanaGold

INCREASING G.E.T LIFE, SAFETY AND MACHINE PRODUCTIVITY

OceanaGold Corporation is a significant multinational gold producer with a portfolio of operating, development and exploration assets. The Company's assets are located on the South Island of New Zealand, including the largest gold mine in the country.

OceanaGold has built a strong business in New Zealand, operating three mines – Macraes Open Pit, Frasers Underground and the Reefton Open Pit mines.

Situation

The OceanaGold open pit gold mine at Macraes and Reefton were having problems with their previous GET systems on the mass excavator and loader buckets with the impacts of high wear rates and cumbersome installation and locking devices. Interrupted supply and wear components becoming loose and falling off were costing OceanaGold unnecessary downtime and money.

Response

West-Trak worked closely with OceanaGold to improve the situation and to provide a GET solution that worked. By using the most advanced, highest performing and safest GET system in the world, good gains were made for OceanaGold.

Outcome

Significant increases in GET wear life, component fastening, safety of installation and machine productivity has been achieved using West-Trak's MTG hammerless GET system. OceanaGold has reaped the following benefits of this outcome;

- **Up to 20% increase in GET life with better wear rates**
- **Increased safety with the Hammerless pin technology**
- **No loss of GET components**
- **Reduced GET costs and reliable back-up support from West-Trak**
- **The improved safety of personnel during routine GET replacement**

CAT STYLE BUCKET TEETH

CAT STYLE BUCKET TEETH RANGE

A LARGE RANGE OF AFTERMARKET J-SERIES BUCKET TEETH ARE AVAILABLE FOR EXCAVATORS AND LOADERS UP TO 50 TONNE SIZE .

STANDARD

A general purpose tooth with good penetration and wear material

HEAVY DUTY ABRASION

For high impact, high abrasion and low penetration applications. Ideal for loaders.

PENETRATION PLUS

A self sharpening tooth for good penetration in low wear applications

PENETRATION

For compact terrain providing good penetration and wear life

ROCK CHISEL

Good for high abrasion and high impact conditions with more wear material

TIGER

Provides maximum penetration for compact soil, clay and coal

HEAVY DUTY

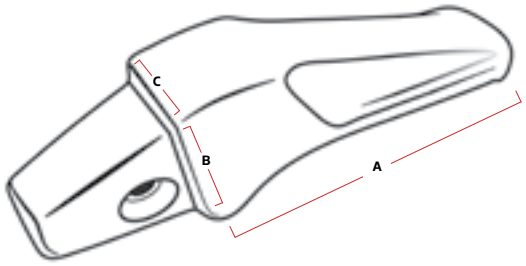
Maximum wear material for high abrasion and low penetration applications

TWIN TIGER

Provides maximum penetration and good ground fracture. Often used on outer adapters

CAT STYLE ADAPTERS

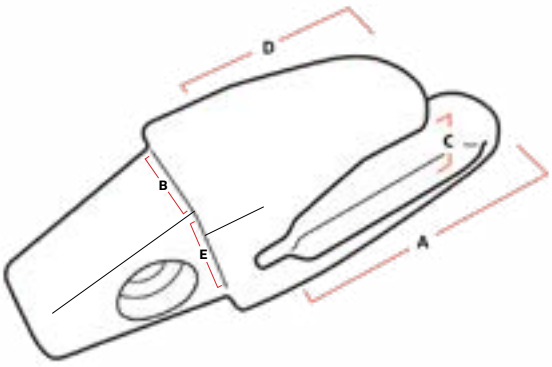
FLUSHMOUNT ADAPTERS



Part No	J-Series	A	B	C	KG	Machine Size
4T1204	J200	140	33	58	2	2-5 Tonne
1U1254	J250	220	52	85	5.5	10-12 Tonne
1U1304	J300	220	65	95	8	15-20 Tonne
1U1354	J350	250	85	110	14	20-25 Tonne

Dimensions in mm

2-STRAP ADAPTERS



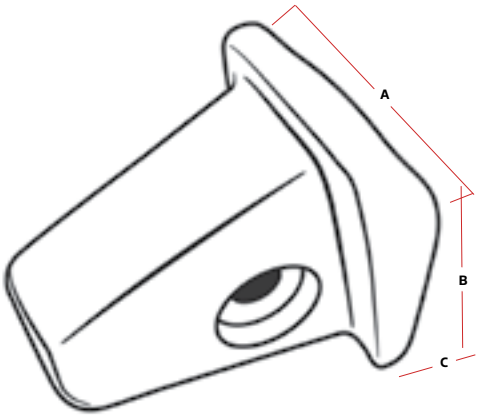
Part No	J-Series	A	B	C	D	E	KG	Machine Size
6Y3224	J220	120	59	25			3	6-8 Tonne
6Y3254	J250	140	65	31			4	10-12 Tonne
3G6304	J300	200	84	35			7.5	15-20 Tonne
3G8354	J350	200	90	43			9.5	20-25 Tonne
7T3404	J400	220	120	48			16	25-30 Tonne
8E6464	J460	260	125	53			20	35-40 Tonne
1U1553	J550	300	150	67			34	45-50 Tonne

Dimensions in mm

CAT STYLE ADAPTERS

ADAPTER REPAIR NOSE

Used for replacing worn or broken adapter noses

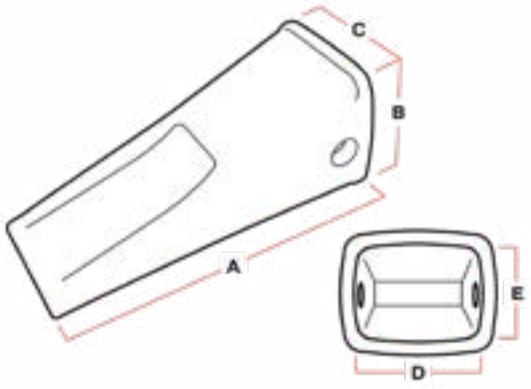


Part No	A	B	C	KG	Machine Size
J250WN	70	80	30	2.3	10-12 Tonne
J300WN	85	88	35	3.4	15-20 Tonne
J350WN	100	110	32	4.6	20-25 Tonne

All measurements in millimetres

CAT STYLE BUCKET TEETH

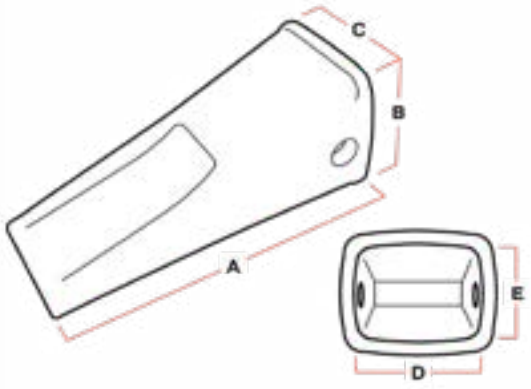
STANDARD TIP



		External						
Part No	**J-Series**	**A**	**B**	**C**	**D**	**E**	**KG**	**Machine Size**
1U3202	J200	145	63	55			1.4	4-6 Tonne
6Y3222	J220	165	73	63			2	6-8 Tonne
1U3252	J250	190	85	74			3.2	10-12 Tonne
1U3302	J300	215	96	89			4.4	15-20 Tonne
1U3352	J350	244	108	100			6.0	20-25 Tonne
7T3402	J400	268	127	116			9.4	25-30 Tonne
9W8452	J450	300	126	128			11.6	35-40 Tonne
9W8552	J550	330	140	154			18.5	45-50 Tonne

All measurements in millimetres

STANDARD TIP - *Premium quality, self sharpening design (MTG)*

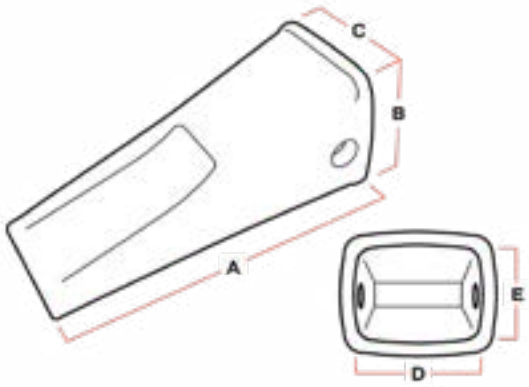


		External						
Part No	**J-Series**	**A**	**B**	**C**	**D**	**E**	**KG**	**Machine Size**
MC30S	J300	235	110	90			4	15-20 Tonne
MC35S	J350	260	115	105			5.8	20-25 Tonne

All measurements in millimetres

CAT STYLE BUCKET TEETH

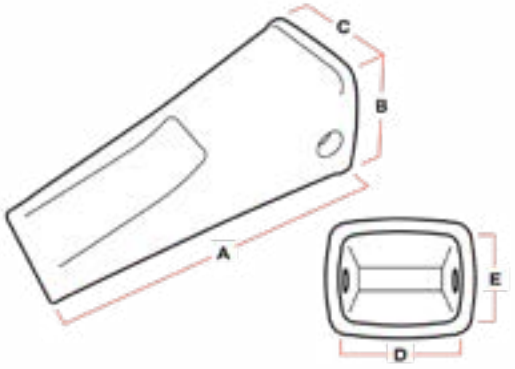
ROCK CHISEL TIP



		External						
Part No	**J-Series**	**A**	**B**	**C**	**D**	**E**	**KG**	**Machine Size**
J300RC	J350	85	100	250			4.2	15-20 Tonne
J350RC	J350	104	115	280			8	20-25 Tonne
J400RC	J400	120	130	315			12	25-30 Tonne
J450RC	J450	130	140	330			14.3	35-40 Tonne
J550RC	J550	160	157	385			23	44-50 Tonne

All measurements in millimetres

ROCK CHISEL TIP - *Premium quality, self sharpening design (MTG)*

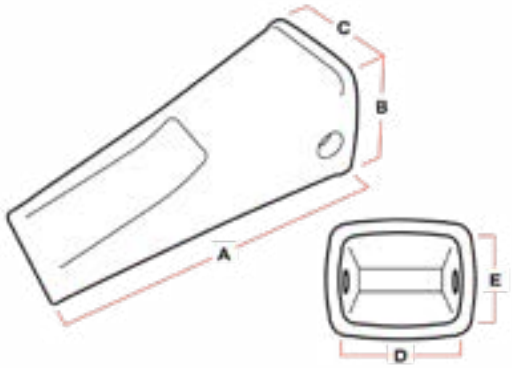


		External						
Part No	**J-Series**	**A**	**B**	**C**	**D**	**E**	**KG**	**Machine Size**
MC35E	J350	275	120	105			7.1	20-25 Tonne
MC40E	J400	310	137	150			11.2	25-30 Tonne
MC45E	J450	345	140	134			15.0	35-40 Tonne
MC55E	J550	375	155	158			21	45-50 Tonne

All measurements in millimetres

CAT STYLE BUCKET TEETH

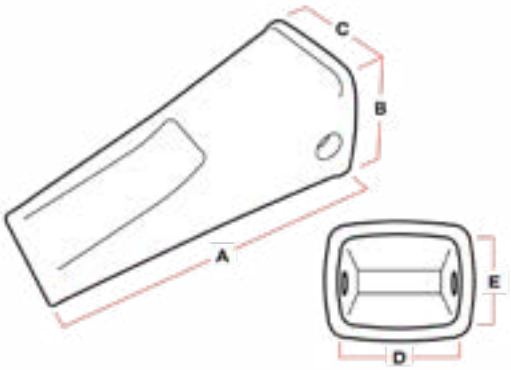
HEAVY DUTY TIP



		External						
Part No	**J-Series**	**A**	**B**	**C**	**D**	**E**	**KG**	**Machine Size**
9N4252	J250	78	94	200			3.5	10-12 Tonne
9N4302	J300	85	100	25			5.5	15-20 Tonne

All measurements in millimetres

HEAVY DUTY ABRASION TIP

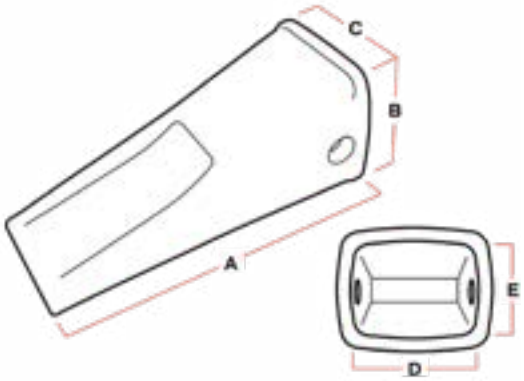


		External						
Part No	**J-Series**	**A**	**B**	**C**	**D**	**E**	**KG**	**Machine Size**
J250HDAL	J250	193	90	79			4.4	10-12 Tonne
J300HDAL	J300	220	108	94			10	15-20 Tonne
J350HDAL	J350	240	118	104			10	20-25 Tonne

All measurements in millimetres

CAT STYLE BUCKET TEETH

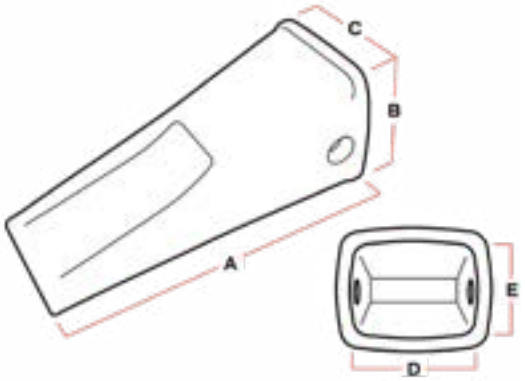
TIGER TIP



		External						
Part No	**J-Series**	**A**	**B**	**C**	**D**	**E**	**KG**	**Machine Size**
J250TIGER	J250	78	90	320			3.0	10-12 Tonne
J300TIGER	J300	86	105	360			4.4	15-20 Tonne
J350TIGER	J350	105	112	380			6.2	20-25 Tonne
J400TIGER	J400	203	130	120			10.5	25-30 Tonne
J450TIGER	J450	240	138	135			13.4	35-40 Tonne
J550TIGER	J550	286	145	158			16.0	45-50 Tonne
J600TIGER	J600	200	185	457			36.0	60-70 Tonne

All measurements in millimetres

TIGER TIP - *Premium quality, self sharpening design (MTG)*

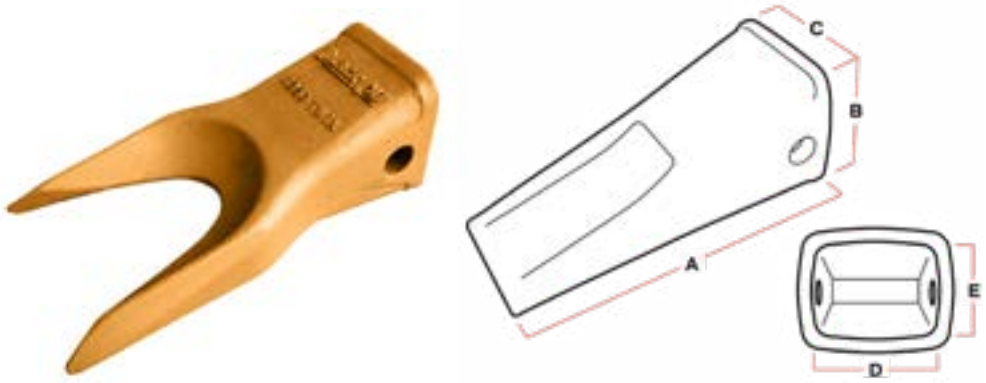


		External						
Part No	**J-Series**	**A**	**B**	**C**	**D**	**E**	**KG**	**Machine Size**
MC25V	J250	225	90	75			2.6	10-12 Tonne
MC30V	J300	260	110	90			4.4	15-20 Tonne
MC35V	J350	258	115	105			5.6	20-25 Tonne
MC40V	J400	310	130	122			7.3	25-30 Tonne
MC45V	J450	340	140	134			9.4	35-40 Tonne
MC55V	J550	390	150	158			13.5	45-55 Tonne

All measurements in millimetres

CAT STYLE BUCKET TEETH

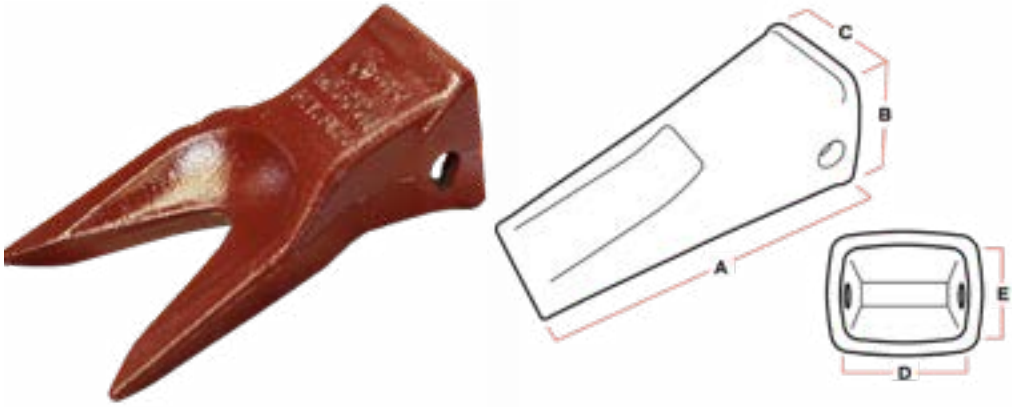
TWIN TIGER TIP



		External						
Part No	**J-Series**	**A**	**B**	**C**	**D**	**E**	**KG**	**Machine Size**
J250TWIN	J250	213	87	76			2.8	10-12 Tonne
J300TWIN	J300	242	104	85			5.6	15-20 Tonne
J350TWIN	J350	286	111	105			7.0	20-25 Tonne
J400TWIN	J400	320	130	120			11	25-30 Tonne
J450TWIN	J450	360	138	135			14.4	35-40 Tonne
J550TWIN	J550	400	150	160			19	45-50 Tonne

All measurements in millimetres

TWIN TIGER TIP - *Premium quality, self sharpening design (MTG)*

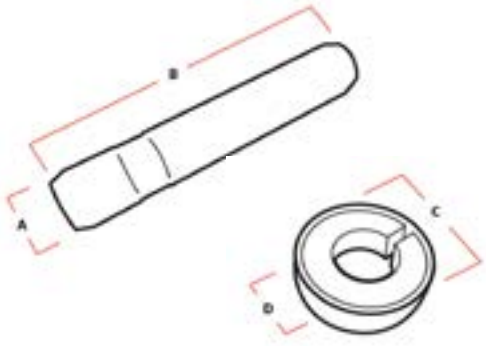


		External						
Part No	**J-Series**	**A**	**B**	**C**	**D**	**E**	**KG**	**Machine Size**
MC25W	J250	75	90	200			3	10-12 Tonne
MC30W	J300	90	110	260			5	15-20 Tonne
MC35W	J350	106	120	280			7	20-25 Tonne
MC40W	J400	120	137	305			9.2	25-30 Tonne
MC45W	J450	134	140	340			13	35-40 Tonne
MC55W	J550	158	155	370			19	45-50 Tonne

All measurements in millimetres

CAT STYLE BUCKET TEETH

PINS AND RETAINERS



Pin No	Retainer No	A	B	C	D	J-Series
8E6208	8E6209	11	60	22		J200
6Y3228	8E6259	14	67	30		J220
9J2258	8E6259	14	77	30		J250
9J2308	8E6259	14	92	30		J300
9W2678	8E6359	19	106	40		J350
7T3408	7T3409	22	118	42		J400
9W8296	8E6359	19	134	40		J450
8E0468	8E0469	24	134	44		J460
1U1558	8E5559	25	162	53		J550
616608	616609	30	192	59		J600

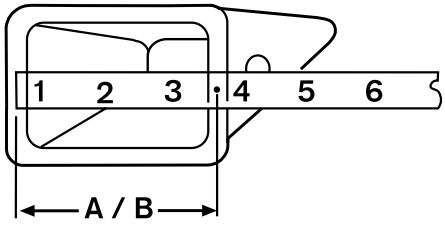
All measurements in millimetres

HOW TO IDENTIFY A CAT STYLE TIP

To determine the size or J-family of a CAT style tip. Take the dimensions shown below.

A(mm)	B(“)	J-Series
51mm	2.0”	J200
64mm	2.5”	J250
76mm	3.0”	J300
89mm	3.5”	J350
102mm	4.0”	J400
114mm	4.5”	J450
140mm	5.5”	J550
152mm	6.0”	J600

Place a tape measure across the back of the tip at the midpoint of the side walls.

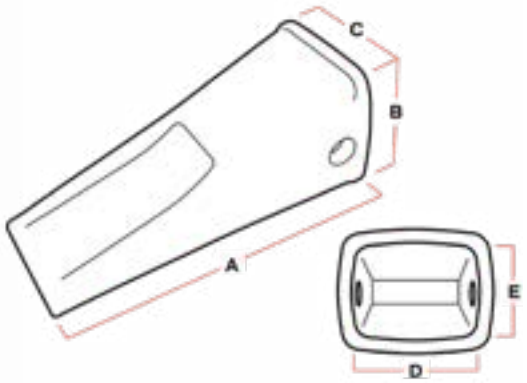


In addition, the second and third digits in the CAT part number often refer to the series.
Example: IU3352 = J350 series.

DOOSAN STYLE BUCKET TEETH

DOOSAN STYLE BUCKET TEETH

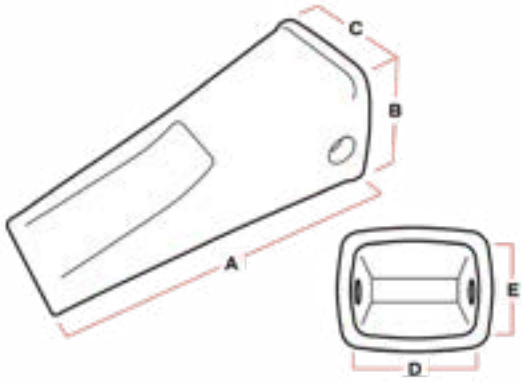
STANDARD TIP



	External						
Part No	**A**	**B**	**C**	**D**	**E**	**KG**	**Machine Size**
2713-1221	200	85	85			3-8	10-15 Tonne
K1000344	225	98	100			6	20-25 Tonne
K1005018	280	126	126			11	31-35 Tonne

All measurements in millimetres

ROCK CHISEL TIP

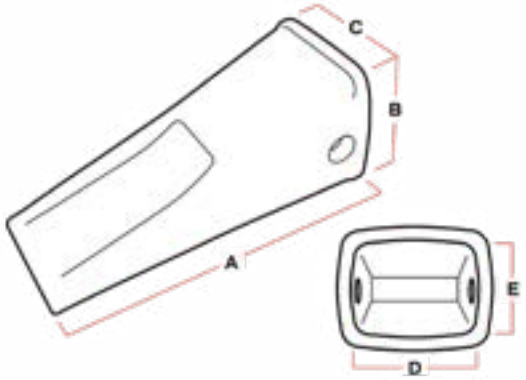


	External						
Part No	**A**	**B**	**C**	**D**	**E**	**KG**	**Machine Size**
K1000344RC	95	100	255			6	20-25 Tonne
71300054ARC	110	115	280			8.5	26-30 Tonne

All measurements in millimetres

DOOSAN STYLE BUCKET TEETH PINS

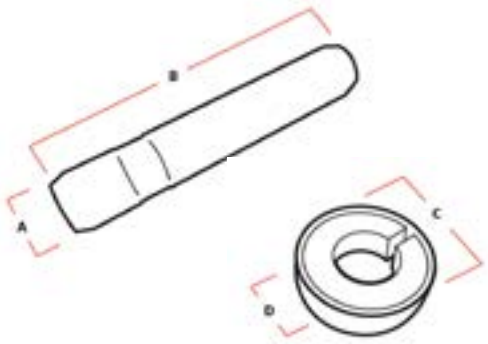
TIGER TIP



	External						
Part No	**A**	**B**	**C**	**D**	**E**	**KG**	**Machine Size**
71300054AT	110	116	295			7.3	26-30 Tonne

All measurements in millimetres

PINS AND RETAINERS



Machine	Pin No	Retainer No	A	B	C	D
DX140	2705-1022	2114-1859	17	93	26	
DX225	2705-1020	2114-1848	19	93	35	
DX300	2705-1021	2114-1849A	19	116	34	
DX340	8E0468	8E0469	23	125	44	
DX420/520	2705-1034	2114-1931	25	145	43	

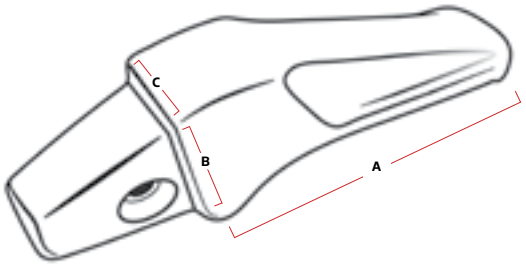
All measurements in millimetres

ESCO STYLE CONICAL BUCKET TEETH

ESCO STYLE CONICAL ADAPTERS

FLUSHMOUNT ADAPTERS

Fi



2-STRAP ADAPTERS

Fig.2

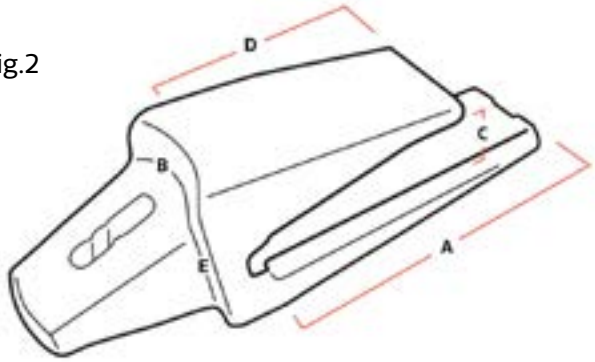


Fig.3

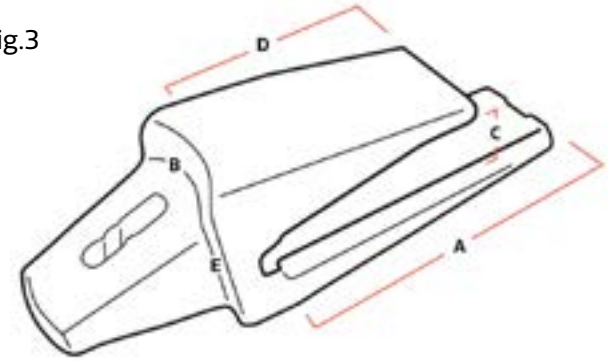
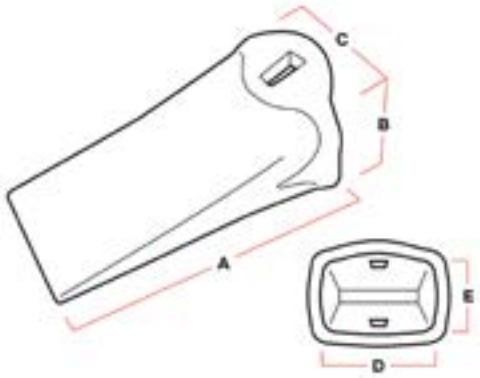


Fig	Part No	S-Series	A	B	C	D	E	KG	Machine Size
1	MB81	N/A	72	45	40			0.8	1-3 Tonne
2	833-18	18s	124	55	22			1.5	4-6 Tonne
3	23574-22	22s	120	56	26			3	7-8 Tonne
3	A1306-25	25s	160	72	27			4	8-10 Tonne
3	B3210T-30	30s	185	86	35			6	12-15 Tonne
3	B3210T-35	35s	220	102	33			10	15-25 Tonne

All measurements in millimetres

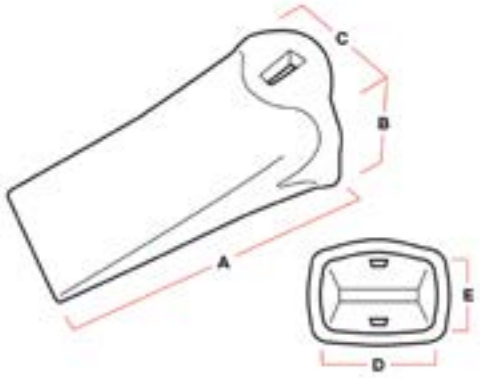
ESCO STYLE CONICAL TEETH

MINI TIP RANGE



Part No	A	B	C	D	E	KG	Machine Size
MB4F	95	46	46	33	33	0.7	1-3 Tonne

All measurements in millimetres

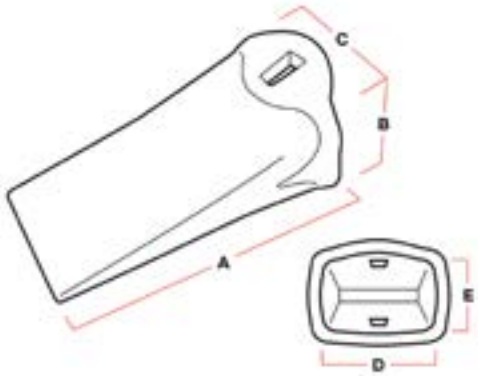


Part No	A	B	C	D	E	KG	Machine Size
MN18L	120	51	60	45	35	1	4-6 Tonne
22S	138	64	62	45	45	1.4	7 Tonne

All measurements in millimetres

ESCO STYLE CONICAL TEETH

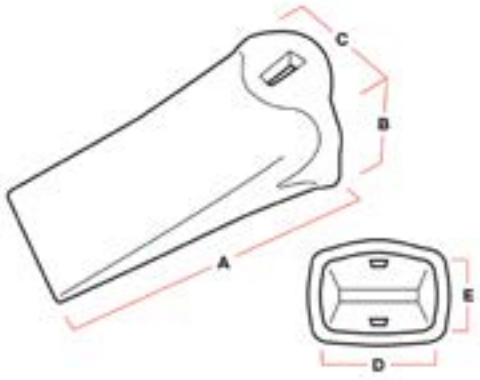
STANDARD TIP



Part No	S-Series	A	B	C	KG	Machine Size
BC40S	405	178	110	85	6.4	26-35 Tonne
BC18S	185	178	52	95	1	4-6 Tonne
BC25S	25S	215	75	112	1.7	8-10 Tonne
BC30S	30S	95	78	178	2.7	10-15 Tonne
BC35S	35S	112	95	215	4.5	15-25 Tonne

All measurements in millimetres

STANDARD TIP - *Premium quality, self sharpening design (MTG)*

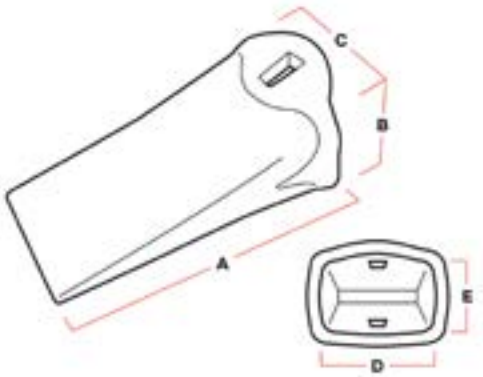


		External						
Part No	S-Series	A	B	C	D	E	KG	Machine Size
MN25S	25S	175	78	80			2	8-10 Tonne
MN30S	30S	180	80	95			2.5	10-15 Tonne
MN35S	35S	200	90	114			3.4	15-25 Tonne
MN40S	40S	240	105	125			5.5	26-35 Tonne

All measurements in millimetres

ESCO STYLE CONICAL TEETH

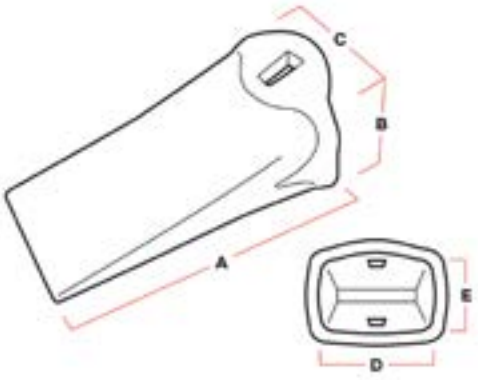
TIGER TIP



		External						
Part No	S-Series	A	B	C	D	E	KG	Machine Size
25VIP	25S	228	80	90			3	8-10 Tonne
30VIP	30S	215	78	100			3	10-15 Tonne
35VIP	35S	265	110	120			6.2	15-25 Tonne

All measurements in millimetres

TWIN TIGER TIP



		External						
Part No	S-Series	A	B	C	D	E	KG	Machine Size
25TVIP	25S	228	80	89			3	8-10 Tonne
30TVIP	30S	215	78	100			3	10-15 Tonne
35TVIP	35S	265	110	120			6.2	15-25 Tonne

All measurements in millimetres

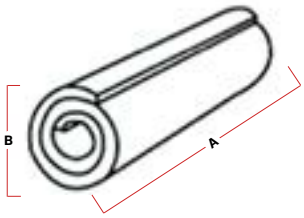
ESCO STYLE CONICAL PINS

PINS AND LOCKS

Pin	Lock	A	B	C	D
18PN	18LK	55	13	36	9
22PN	22LK	67	18	45	16
25PN	25LK	75	20	39	21
30PN	30LK	75	20	39	21
35PN	35LK	86	23	47	22
40PN	40LK	98	30	47	22
45PN	45LK	104	33	57	23

Dimensions in mm

ROLL PINS



Pin	A	B
MB8	51	8

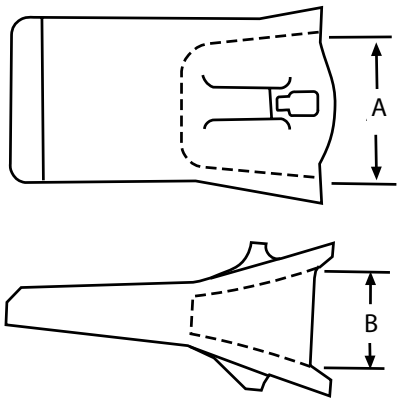
Dimensions in mm

HOW TO IDENTIFY AN ESCO STYLE TIP

To determine the size or family of a ESCO conical tip. Take the INTERNAL dimensions A and B shown below.

Dimensions in mm		
A	B	ESCO Family
46	35	18S
46	46	22S
64	55	25S
75	58	30S
88	68	35S
98	75	40S
112	85	45S

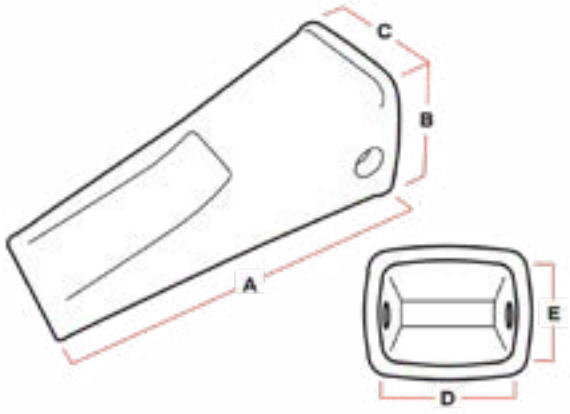
Dimensions in mm



HYUNDAI STYLE BUCKET TEETH

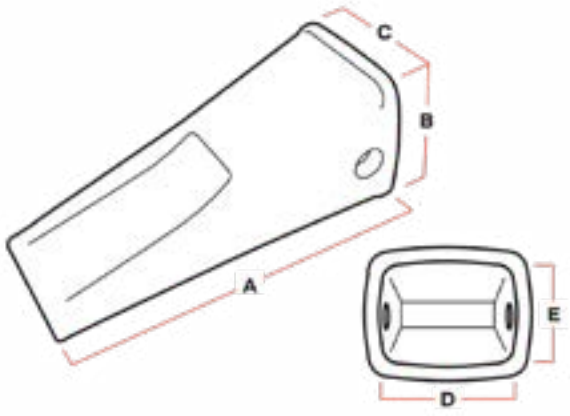
HYUNDAI STYLE BUCKET TEETH

STANDARD TIP



	External						
Part No	**A**	**B**	**C**	**D**	**E**	**KG**	**Machine Size**
E161-3027	212	90	98			4	12-21 Tonne

All measurements in millimetres

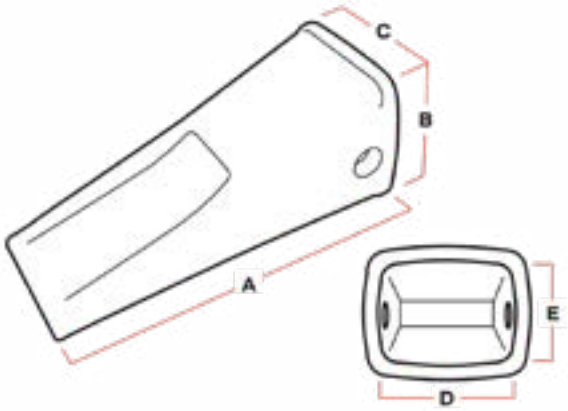


	External						
Part No	**A**	**B**	**C**	**D**	**E**	**KG**	**Machine Size**
61Q6-31310	107	106	225	72	72	7	R210-9
E262-3046	255	105	115			7.5	26-32 Tonne

All measurements in millimetres

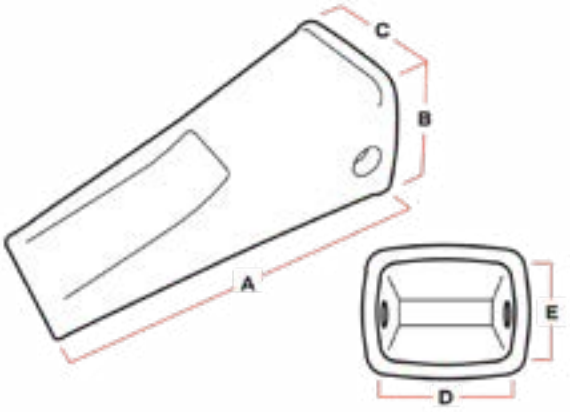
HYUNDAI STYLE BUCKET TEETH

ROCK CHISEL TIP



	External						
Part No	**A**	**B**	**C**	**D**	**E**	**KG**	**Machine Size**
E161-3027RC	255	90	98			6	12-21 Tonne

All measurements in millimetres

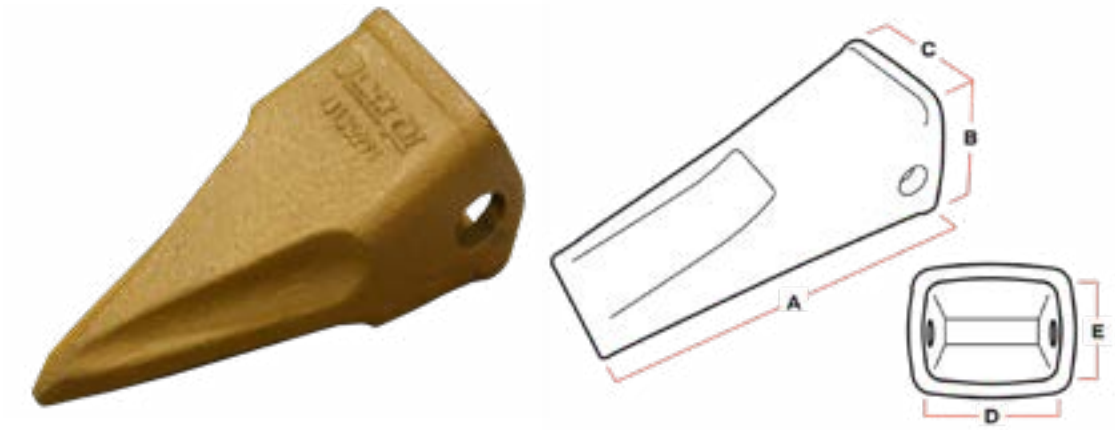


	External						
Part No	**A**	**B**	**C**	**D**	**E**	**KG**	**Machine Size**
E262-3046RC	295	110	120			10	26-32 Tonne

All measurements in millimetres

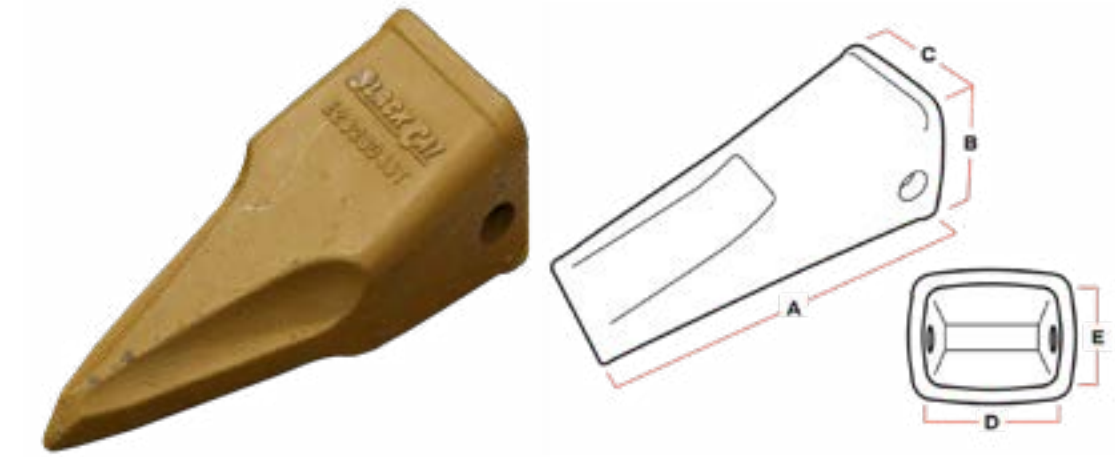
HYUNDAI STYLE BUCKET TEETH

TIGER TIP



	External						
Part No	**A**	**B**	**C**	**D**	**E**	**KG**	**Machine Size**
E161-3027T	220	90	98			4.3	12-21 Tonne

All measurements in millimetres

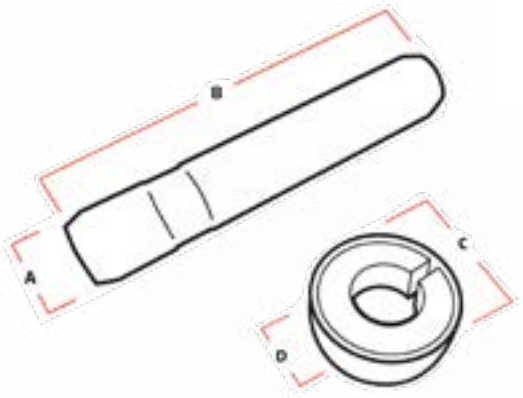


	External						
Part No	**A**	**B**	**C**	**D**	**E**	**KG**	**Machine Size**
E262-3046T	295	110	120			9.3	26-32 Tonne

All measurements in millimetres

HYUNDAI STYLE BUCKET PINS

PINS AND RETAINERS



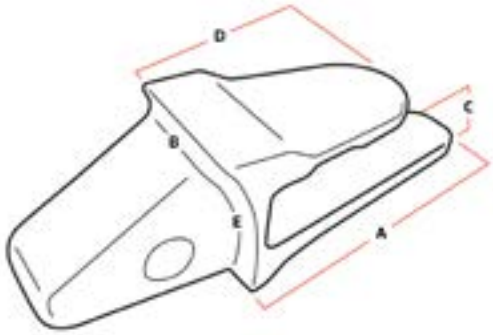
Pin No	Retainer No	A	B	C	D	Machine
SB80PN	SB80/235WS	19	101	32		12-21 Tonne
SB235PN	SB80/235WS	19	116	34		26-32 Tonne

All measurements in millimetres

KOMATSU STYLE BUCKET TEETH

KOMATSU STYLE BUCKET TEETH

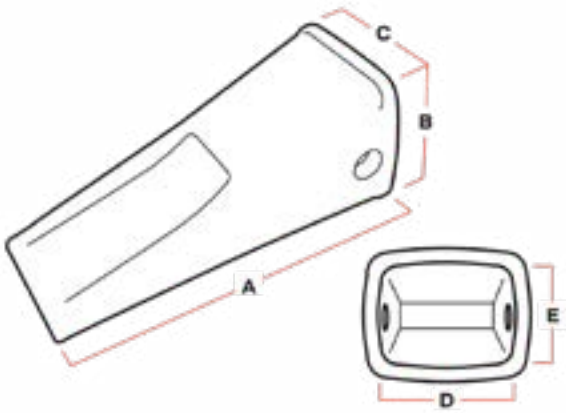
2-STRAP ADAPTERS



		External						
Part No	Series	A	B	C	D	E	KG	Machine Size
205-70-68141	PC200		90	36			7	10-25 Tonne
207-70-14142	PC300		115	42			14	25-35 Tonne
208-70-14143	PC400		136	50			21	35-42 Tonne

All measurements in millimetres

STANDARD TIP

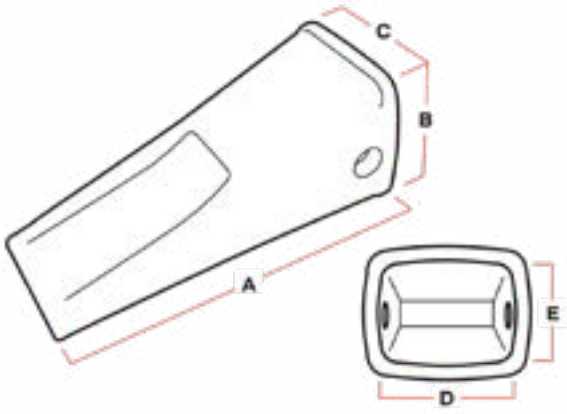


		External				
Part No	Series	A	B	C	KG	Machine Size
205-70-19570	PC200	222	100	95	4.2	10-25 Tonne
207-70-14151	PC300	240	115	120	6.5	25-35 Tonne
208-70-14152	PC400	275	122	150	9.6	35-42 Tonne

All measurements in millimetres

KOMATSU STYLE BUCKET TEETH

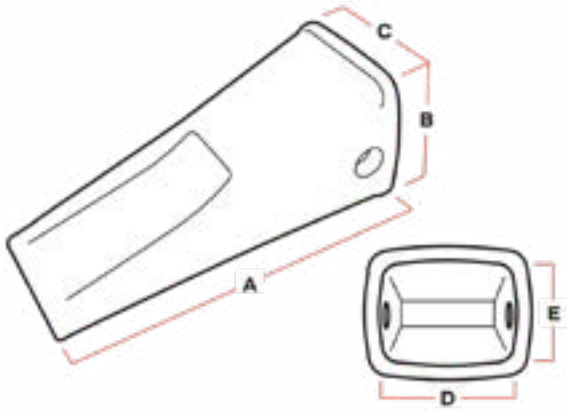
ROCK CHISEL TIP



		External			Internal			
Part No	**Series**	**A**	**B**	**C**	**D**	**E**	**KG**	**Machine Size**
PC650RC	PC650						47	60-70 Tonne
MK650E	PC650						30	60-70 Tonne

All measurements in millimetres

TIGER TIP

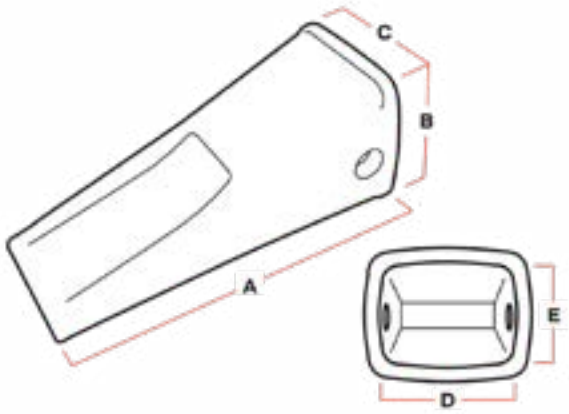


		External			Internal			
Part No	**Series**	**A**	**B**	**C**	**D**	**E**	**KG**	**Machine Size**
PC200TL	PC200						8.5	10-25 Tonne
PC300TL	PC300						12	25-35 Tonne
PC400TL	PC400						19	35-42 Tonne
MK650V	PC650							60-70 Tonn

All measurements in millimetres

KOMATSU STYLE BUCKET TEETH

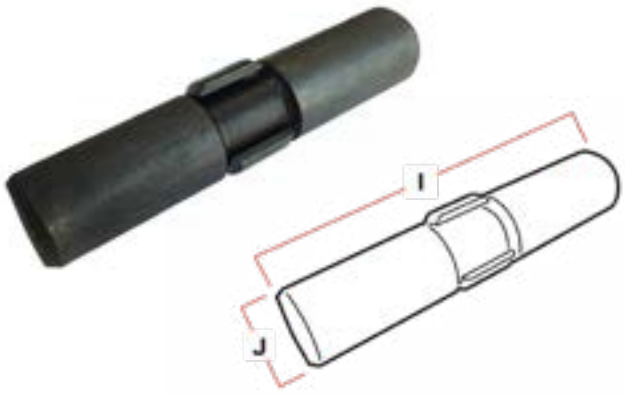
TIGER TIP - *Premium quality, self sharpening design (MTG)*



		External						
Part No	**Series**	**A**	**B**	**C**	**D**	**E**	**KG**	**Machine Size**
MK200V	PC200	270	114	98			4.7	15-25 Tonne
MK300V	PC300	300	122	122			6.5	25-35 Tonne
MK400V	PC400	340	135	148			9.4	35-42 Tonne

All measurements in millimetres

PIN ASSEMBLY



HOW TO IDENTIFY A KOMATSU STYLE TIP

To determine the size or family of a KOMATSU style tip, take the INTERNAL dimensions A and B shown below.

Pin No	A	B	KM/PC Series
20X-70-00150	20	71	PC60
09244-02496	25	97	PC200
175-78-21810	25	116	PC300
09244-03036	30	136	PC400
209-70-54240	36	163	PC650

All measurements in millimetres

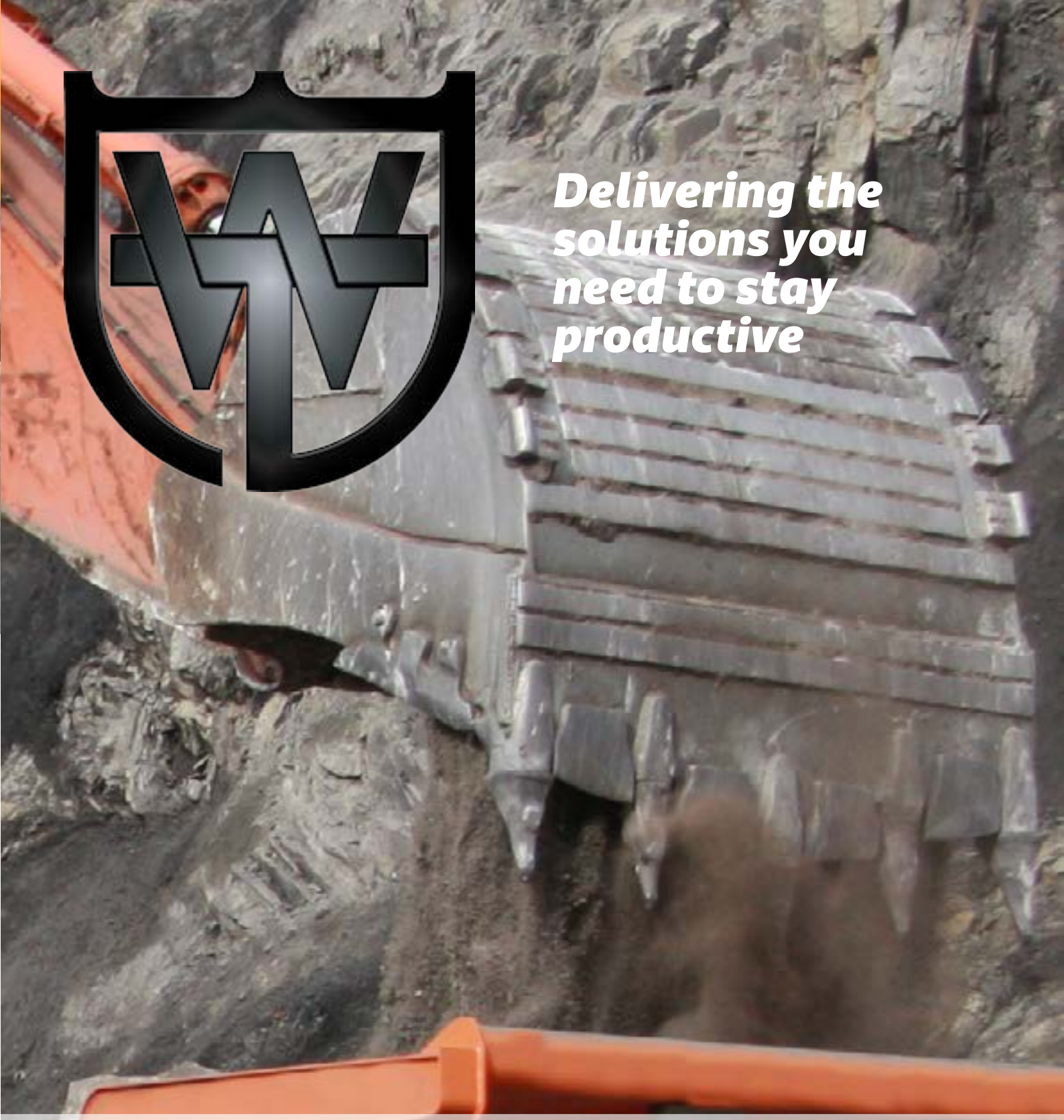
Dimensions in mm		
A	**B**	**KM/PC Series**
75	75	KM15/PC200
95	85	KM20/PC300
112	95	KM25/PC400
130	130	K25/PC400

All measurements in millimetres

PRE-FABRICATED BUCKET EDGES

SAVE YOURSELF THE HASSLE OF WELDING AND GET WEST-TRAK TO SUPPLY A PRE-FABRICATED CUTTING EDGE, WITH ADAPTERS FITTED, READY TO WELD IN YOUR BUCKET

You'll get 100% guaranteed quality with correct adapter fitment and welding procedures when done by West-Trak!



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