BUCKET TEETH & ADAPTERS

Large range of Bucket Teeth for Excavators and Loaders

West-Trak®
UNRIVALLED STRENGTH

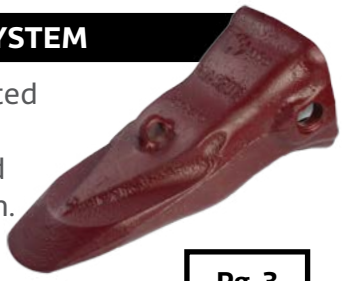
0800 654 323 | www.west-trak.co.nz

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 SUPER V TEETH

Twist on Super V style teeth for 15-50 tonne machines

Pg. 40

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

ESCO STYLE CONICAL TEETH

A range of tooth styles for 1-40 tonne machines

Pg. 34

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

- Guaranteed no loss of components
- 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 250 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

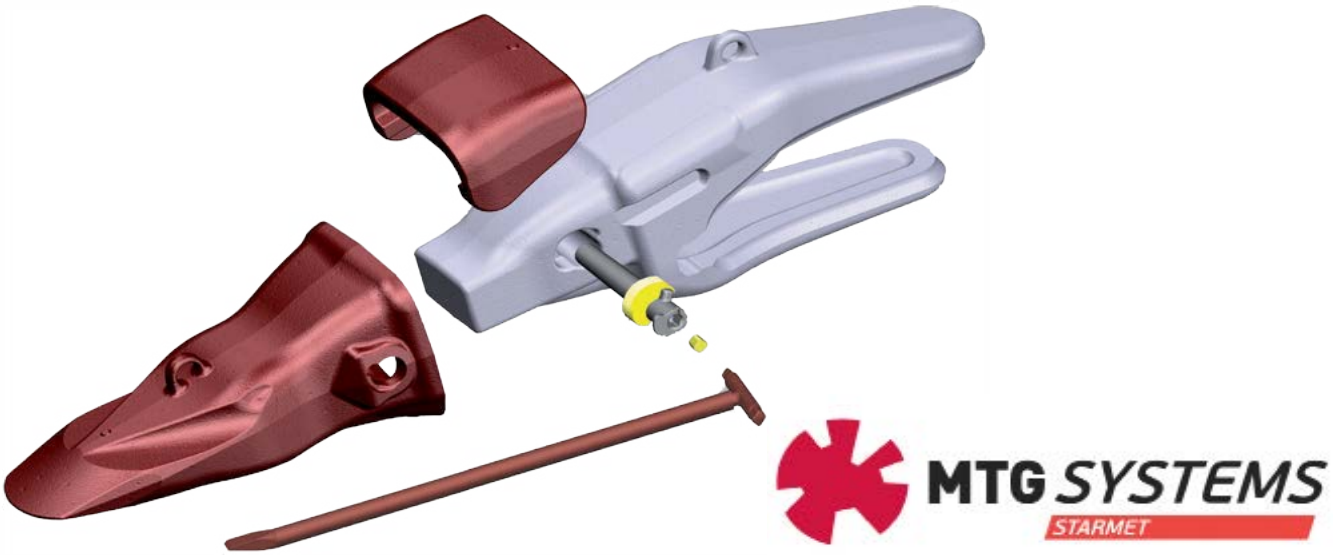
The teeth and wear caps are very quick and easy to replace on-site by only one person.

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.



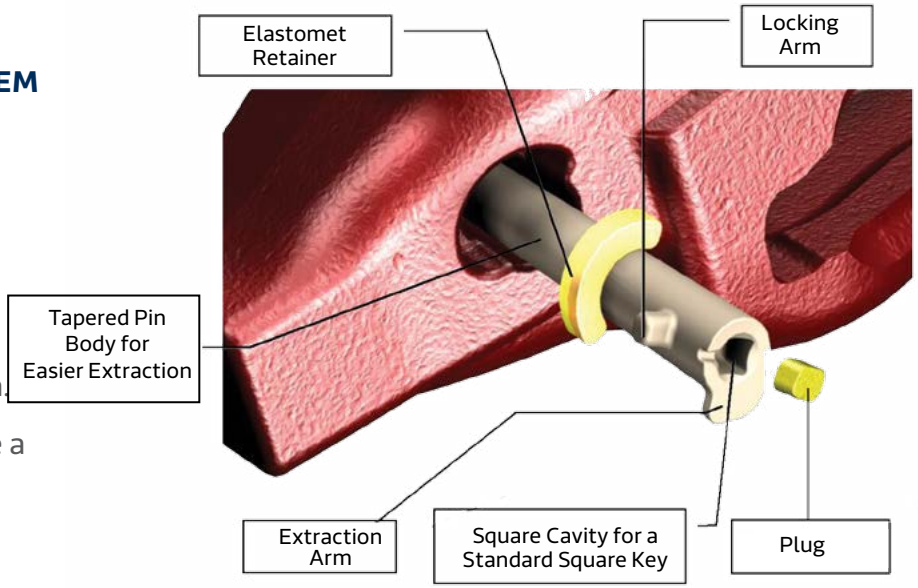
READ OUR CASE STUDIES ONLINE AT WWW.WEST-TRAK.CO.NZ

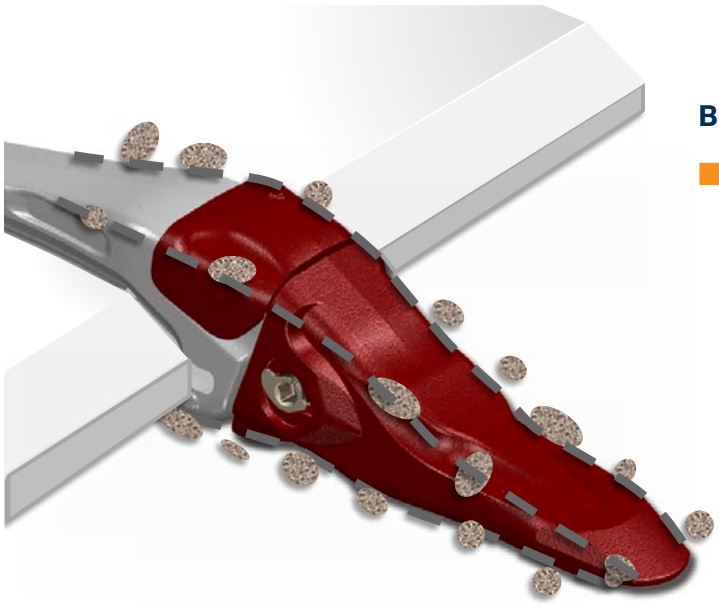
Performance benefits like no other

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.





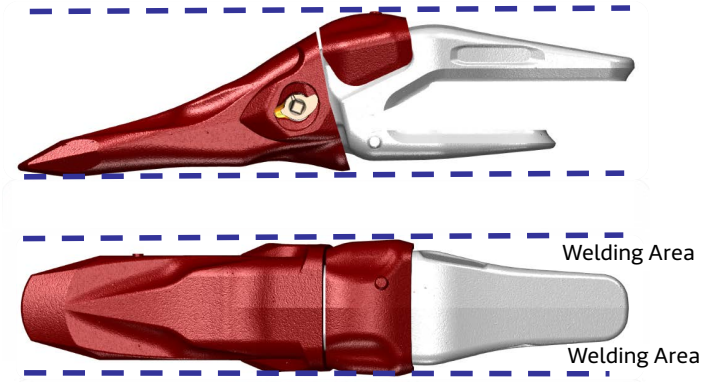
BETTER BUCKET PENETRATION

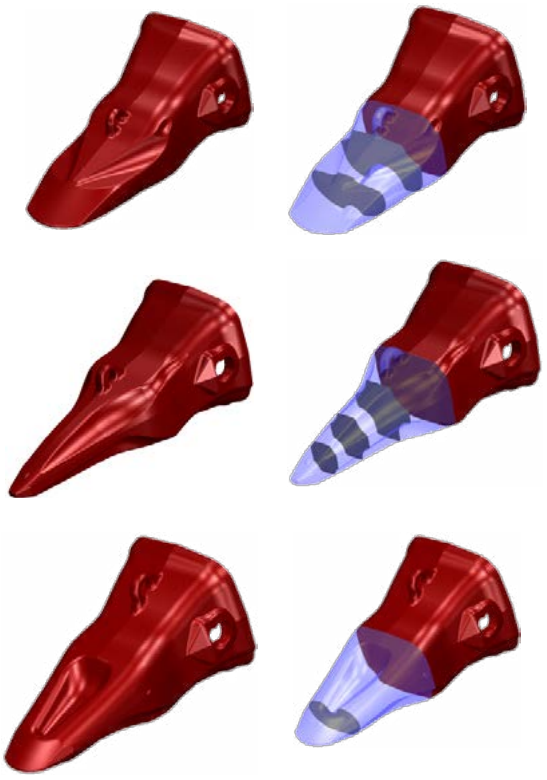
- The streamline integrated geometry of the Tooth, Wear cap, and Adapter allows for good flow of material and improved bucket penetration.

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)

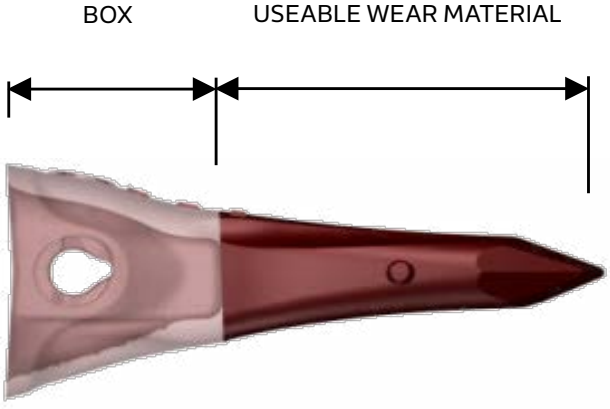




SELF SHARPENING TEETH

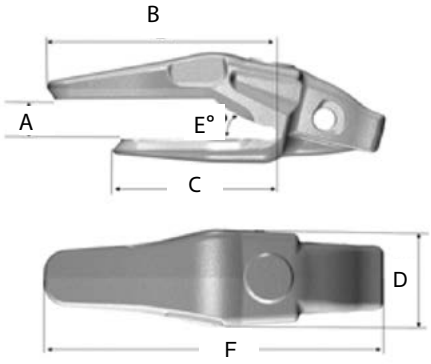
- All teeth styles are designed to self sharpen as they wear, providing excellent penetration, long service life and less fuel consumption
- Every StarMet tooth is designed to have the maximum usable wear material
- Teeth are available in a range of different styles for all types of applications

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



STARMET ADAPTERS

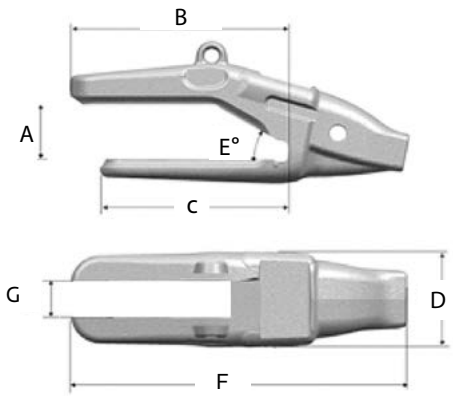
2-STRAP ADAPTERS



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

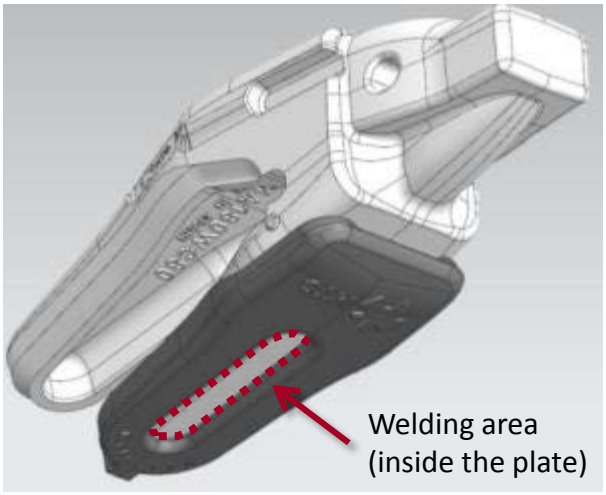


Part No	A	B	C	D	E	F	G	KG	Machine Size
1MA180WS90	90 mm	444	341	198	30	720	75	78	120-140 Tonne
1MA240WS100	100mm	574	427	224	30	876	75	125	140 - 220 Tonne
1MA240WS120	120mm	574	427	224	30	876	75	120	140 - 220 Tonne
1MA500WS120	120mm	576	506	245	30	920	90	166	240 - 400 Tonne
1MA500WS140	140mm	576	506	245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

Dimensions in mm

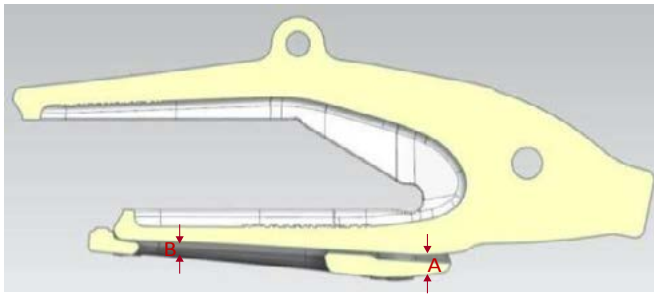
STARMET ADAPTERS

ADAPTER WEAR PLATE



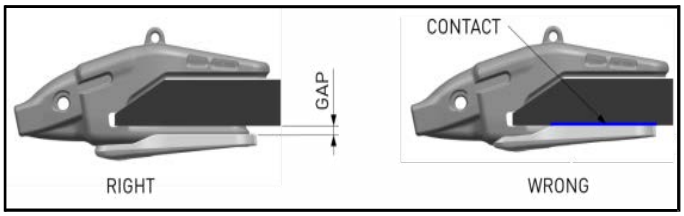
- **Protect your adapters from wearing away with these weld-on wear plates**
- **Cast to the correct shape and curve of the Starmet adapters**
- **Ideal for high abrasion applications**

Part No	Adapter size	A (mm)	B (mm)	KG
4MA120HD	120	25	15	7
4MA180HD	180	31	19	10
4MA500HD	500	42	20	24

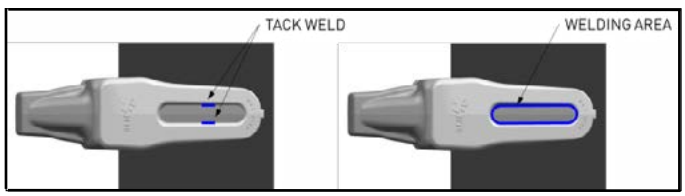


FITMENT & WELDING INSTRUCTIONS

Position: Place the wear plate over the adapter's bottom leg assuring its position by pulling it towards the adapters nose



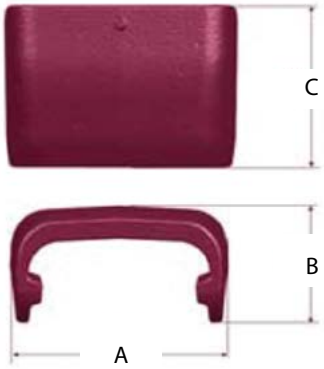
Welding Areas: Preheat the adapter's bottom leg and tack weld on the designated area in order to keep its final position. Proceed with welding completion by filling all the welding area



STARMET ADAPTER WEAR CAPS

CENTRE ADAPTER WEAR CAP

Fig.1



STRADDLE ADAPTER WEAR CAP

Fig.2

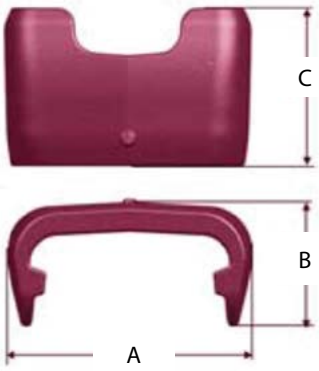


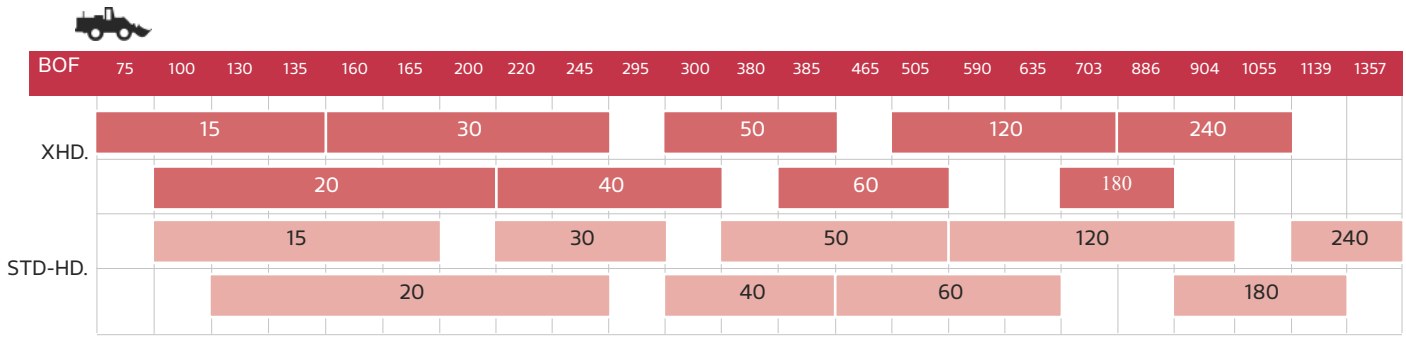
Fig	Part No	A	B	C	KG	Machine Size
1	4MA40M	135	50	90	2.1	20 - 30 Tonne
1	4MA50M	150	75	96	2.3	35 - 40 Tonne
1	4MA60M	178	112	102	4.2	45 - 55 Tonne
1	4MA120M	208	104	129	5.8	60 - 110 Tonne
1	4MA180M	231	148	117	8.5	120 - 140 Tonne
1	4MA240M	245	164	140	11.3	140 - 220 Tonne
1	4MA500M	280	145	205	18.0	240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

Dimensions in mm

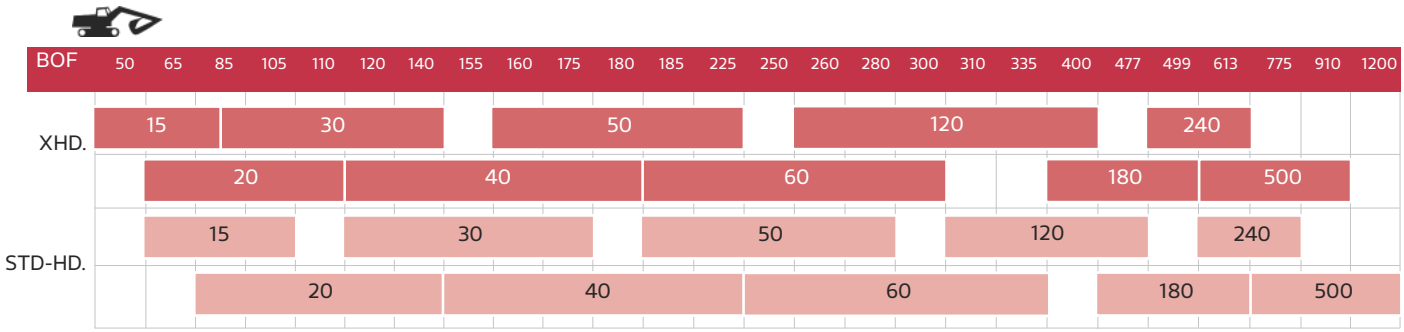
StarMet Tooth
size reference chart

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

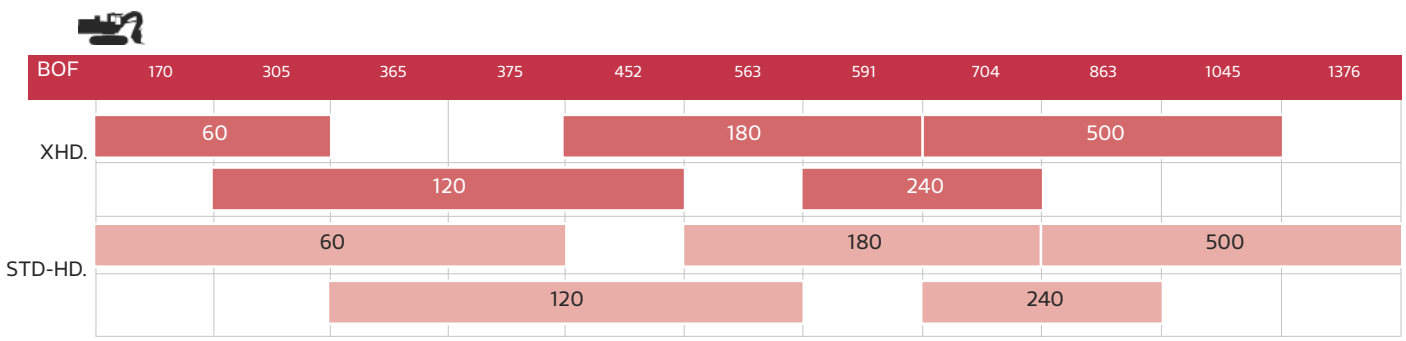
WHEEL LOADERS



BACKHOE EXCAVATORS



FACE SHOVEL EXCAVATORS



Get the right tool
for the job

(E1) EXTRA

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

(I) IMPACT

For excavators and loaders in low abrasion applications with a high level of impact

(EX) EXTREME

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

(V) VECTOR

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

(A) ABRASION

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

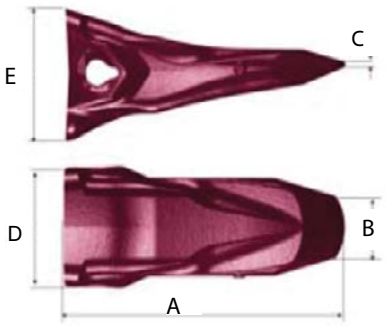
(W) DOUBLE VECTOR

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

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

STARMET BUCKET TEETH

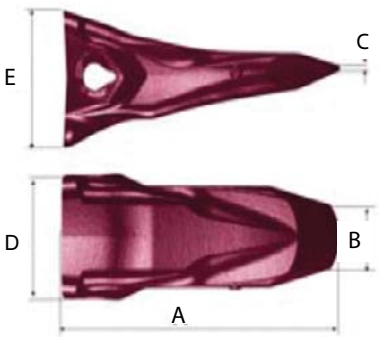
EXTRA TIP (E1) - *Premium quality, self sharpening design*



Part No	A	B	C	D	E	KG	Machine Size
MA40E1	321	70	6	126	141	10.4	20 - 30 Tonne
MA50E1	347	73	8	139	153	12.5	35 - 40 Tonne
MA60E1	391	123	6	161	176	19.5	45 - 55 Tonne
MA120E1	441	100	5	191	202	29	60 - 110 Tonne
MA180E1	492	136	5	212	225	42	120 - 140 Tonne
MA240E1	522	139	6	242	246	51	140 - 220 Tonne
MA500E1	588	154	7	277	294	78	240-400 Tonne

External measurements in mm

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

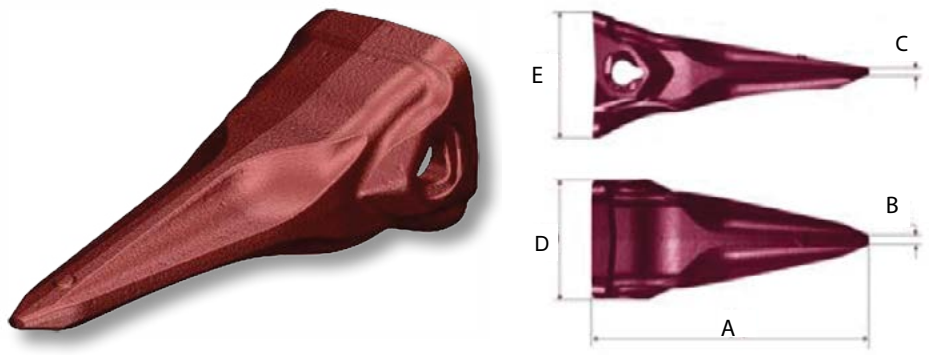


Part No	A	B	C	D	E	KG	Machine Size
MA50EX	367	115	9	139	153	17	35 - 40 Tonne
MA60EX	409	130	13	161	176	24.0	45 - 55 Tonne
MA120EX	443	151	16	191	202	33.8	60- 110 Tonne
MA180EX	492	202	23	212	225	52.3	120 - 140Tonne
MA240EX	524	214	23	242	246	62.7	140 - 220 Tonne
MA500EX	588	202	25	277	294	95.0	240 - 400 Tonne

External measurements in mm

STARMET BUCKET TEETH

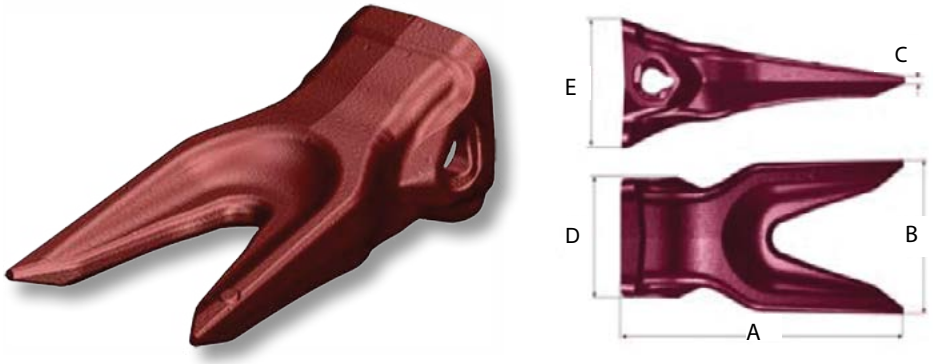
VECTOR TIP (V) - *Premium quality, self sharpening design*



Part No	A	B	C	D	E	KG	Machine Size
MA40V	332	8	8	126	141	8.13	20 - 30 Tonne
MA50V	359	13	8	139	153	10.13	35 - 40 Tonne
MA60V	407	15	10	161	176	15.7	45 - 55 Tonne
MA120V	475	18	12	191	202	23.45	60 - 110 Tonne
MA180V	516	10	18	212	225	32.5	120 - 140 Tonne
MA240V	567	20	20	242	246	45	140 - 220 Tonne
MA500V	595	23	16	277	294	66	240- 400 Tonne

External measurements in mm

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

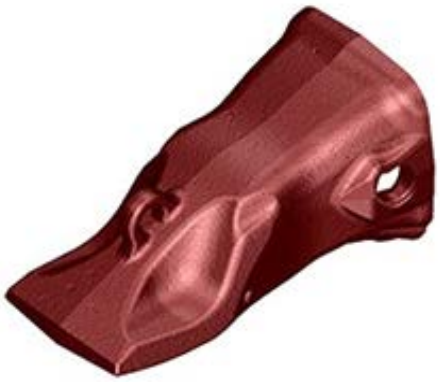


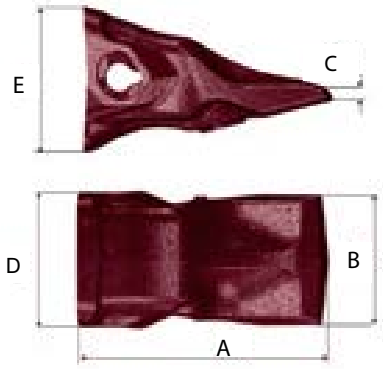
Part No	A	B	C	D	E	KG	Machine Size
MA40W	332	163	8	126	141	10.63	20 - 30 Tonne
MA50W	359	181	8	139	153	13.7	35 - 40 Tonne
MA60W	407	205	10	161	176	19.6	45 - 55 Tonne
MA120W	475	241	12	191	202	31.0	60 - 110 Tonne

External measurements in mm

STARMET BUCKET TEETH

IMPACT TIP (I) - *Premium quality, self sharpening design*

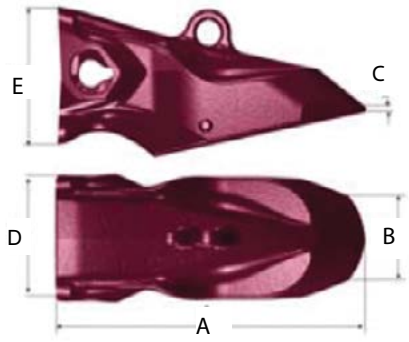




Part No	A	B	C	D	E	KG	Machine Size
MA50I	273	135	14	139	153	11	35 - 40 Tonne
MA60I	305	157	12	161	176	16	45 - 55 Tonne
MA120I	355	158	19	191	202	24	60 - 110 Tonne

External measurements in mm

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

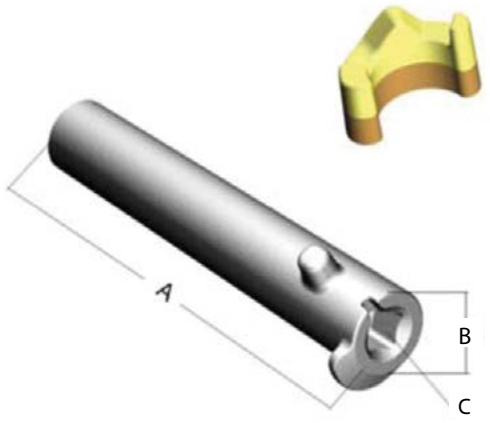


Part No	A	B	C	D	E	KG	Machine Size
MA60A	383	143	5	161	176	30	CAT988 / WA600
MA120A	463	188	-	191	202	48.0	CAT 992 / WA900

External measurements in mm

STARMET BUCKET TEETH PINS

PIN AND RETAINER



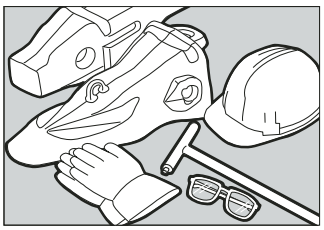
Part No	A	B	C
2MA40PR	113	24	3/8”
2MA50PR	132	28	1/2”
2MA60PR	150	32	1/2”
2MA120PR	177	30	1/2”
2MA180PR	196	32.5	1/2”
2MA240PR	213	37	3/4”
2MA500PR	246	41	3/4”

External measurements in mm

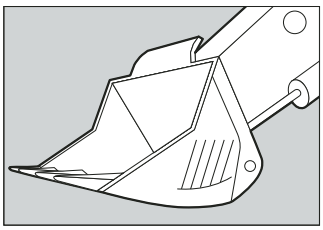
STARMET TEETH FITMENT

GENERAL INSTRUCTIONS FOR ASSEMBLY AND DISASSEMBLY OF STARMET TEETH

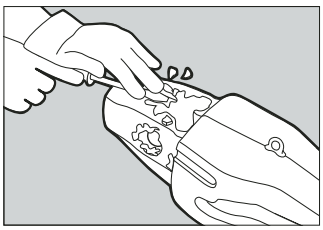
Assembly



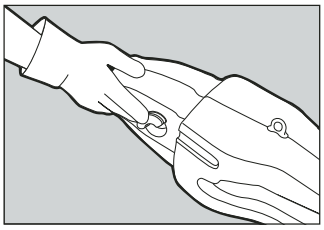
Recommended Equipment
To assemble and disassemble MTG StarMet teeth, and extraction tool is required. The use of protective clothing is also recommended: helmet, gloves and goggles.



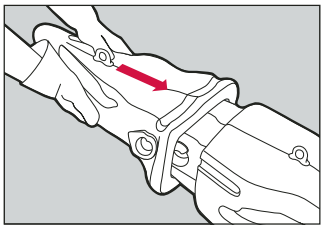
Position the bucket
To facilitate assembly and disassembly of the teeth, place the bucket so that the teeth are facing slightly upwards.



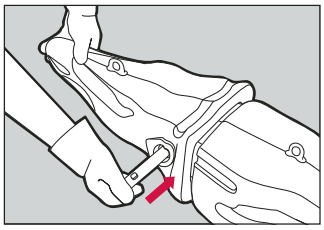
Cleaning adapter
Clean the whole tooth nose and the retainer housing. This enables subsequent assembly of the tooth and the retainer.



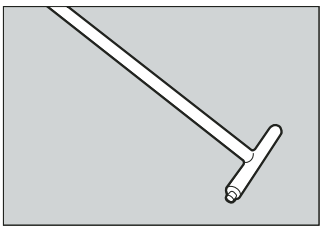
Push in the retainer
Push the retainer into the recess in the nose of the adapter. Slide the wear cap on to adapter.



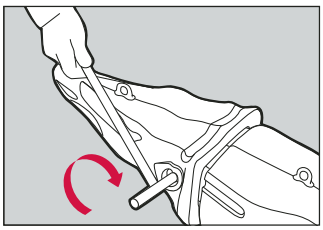
Assemble the tooth
Push the tooth on the nose of the adapter



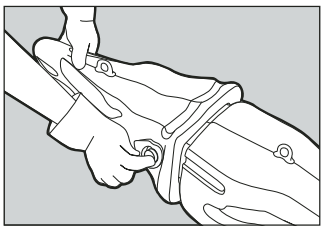
Push in the pin
Insert the pin by hand until it stops.



Extraction tool
Standard size square headed extraction tool.

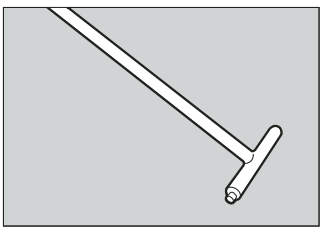


Turn the pin
Place the square head of the extraction tool into the pin hole and rotate the pin clockwise.

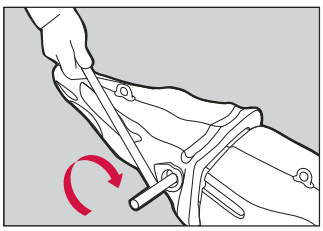


Fit the plug
Push in the plug to prevent the pin hole becoming filled with soil, saving time and cleaning when disassembling.

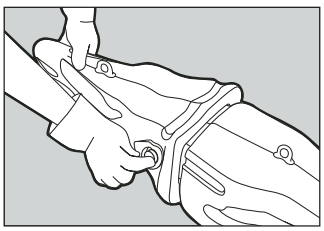
Dissasembly



Remove the plug
Remove the plug to allow removal of the pin using the extraction tool.



Turn the pin
Place the square head of the extraction tool into the pin hole and rotate the pin anticlockwise.



Remove the pin
Remove the pin by hand to free the tooth.

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 TONNES.

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

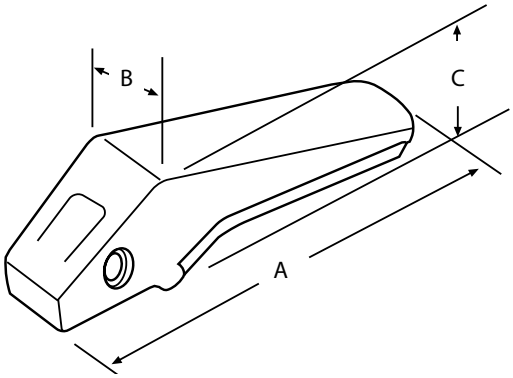
Maximum wear material for high abrasion and low penetration applications

TWIN TIGER

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

CAT STYLE ADAPTERS

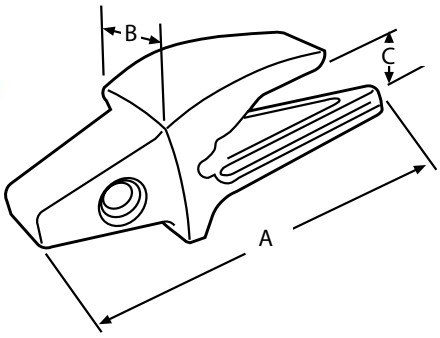
FLUSHMOUNT ADAPTERS



Part No	J-Series	A	B	C	KG	Machine Size
4T1204	J200	235	33	58	2	2-5 Tonne
1U1254	J250	335	52	85	5.5	10-12 Tonne
1U1304	J300	350	65	95	8	15-20 Tonne
1U1354	J350	420	85	110	14	20-25 Tonne
8E0464	J460	480	90	135	20	35-40 Tonne

Dimensions in mm

2-STRAP ADAPTERS



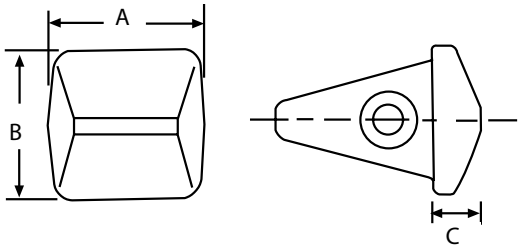
Part No	J-Series	A	B	C	KG	Machine Size
6Y3224	J220	225	59	25	3	6-8 Tonne
6Y3254	J250	250	65	31	4	10-12 Tonne
3G6304	J300	310	84	35	7.5	15-20 Tonne
3G8354	J350	340	90	43	9.5	20-25 Tonne
7T3404	J400	381	120	48	16	25-30 Tonne
8E6464	J460	430	125	53	20	35-40 Tonne
1U1553	J550	520	150	67	30	45-50 Tonne

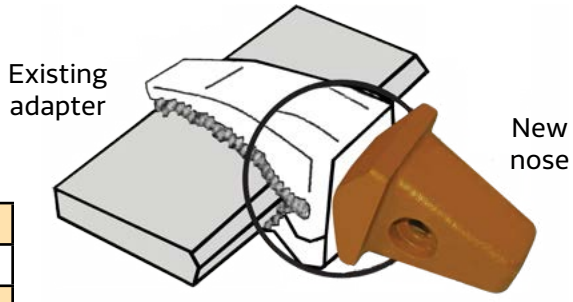
Dimensions in mm

CAT STYLE ADAPTERS

ADAPTER REPAIR NOSE

Used for replacing worn or broken adapter noses



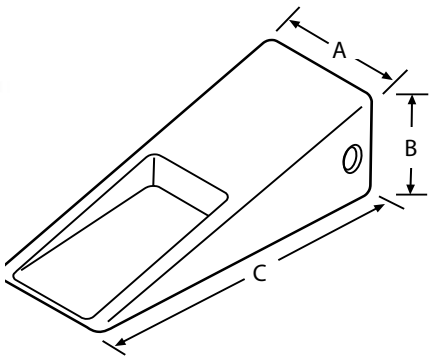


Part No	A	B	C	KG	Machine Size
J250WN	70	80	30	2.3	10-12 Tonne
J300WN	85	88	35	3.4	15-20 Tonne
J350WN	100	110	32	4.6	20-25 Tonne
J400WN	115	135	34	6.8	25-30 Tonne
J450WN	125	130	40	8.7	35-40 Tonne

Dimensions in mm

CAT STYLE BUCKET TEETH

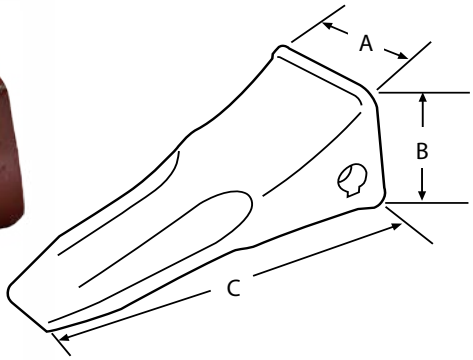
STANDARD TIP



Part No	J-Series	A	B	C	KG	Machine Size
1U3202	J200	55	63	145	1.4	4-6 Tonne
6Y3222	J220	63	73	165	2	6-8 Tonne
1U3252	J250	74	85	190	2.8	10-12 Tonne
1U3302	J300	89	96	215	4.4	15-20 Tonne
1U3352	J350	100	108	244	5.5	20-25 Tonne
7T3402	J400	116	127	268	9.4	25-30 Tonne
9W8452	J450	128	126	300	11.6	35-40 Tonne
9W8552	J550	154	140	330	18.5	45-50 Tonne

External measurements in mm

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

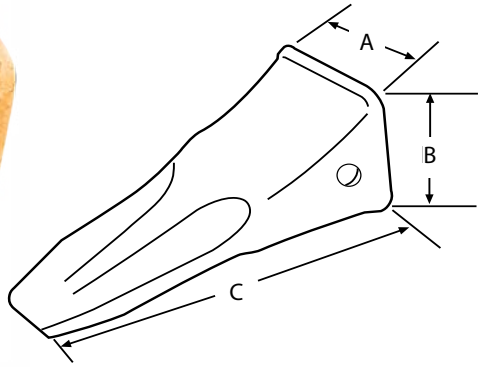


Part No	J-Series	A	B	C	KG	Machine Size
MC30S	J300	90	110	235	4	15-20 Tonne
MC35S	J350	105	115	260	5.8	20-25 Tonne

External measurements in mm

CAT STYLE BUCKET TEETH

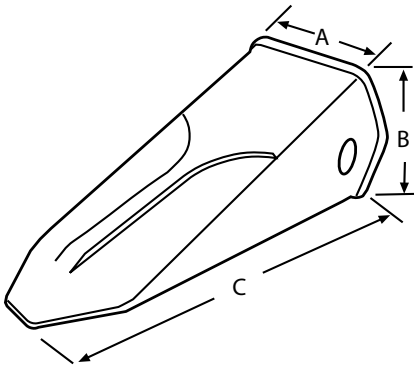
PENETRATION PLUS TIP



Part No	J-Series	A	B	C	KG	Machine Size
168-1359	J350	105	112	260	7.4	20-25 Tonne
168-1409	J400	122	133	290	11.8	25-30 Tonne
159-0459	J450	135	141	327	15.2	35-40 Tonne

External measurements in mm

ROCK CHISEL TIP

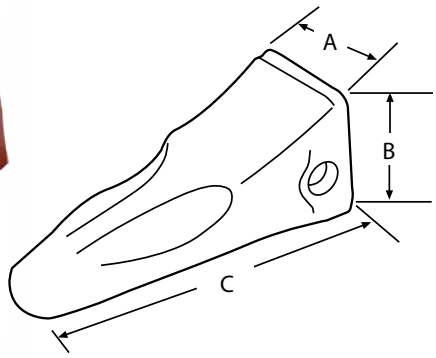


Part No	J-Series	A	B	C	KG	Machine Size
J350RC	J350	104	115	280	8	20-25 Tonne
J400RC	J400	120	130	315	12	25-30 Tonne
J450RC	J450	130	140	330	14.3	35-40 Tonne
J550RC	J550	160	157	385	23	44-50 Tonne

External measurements in mm

CAT STYLE BUCKET TEETH

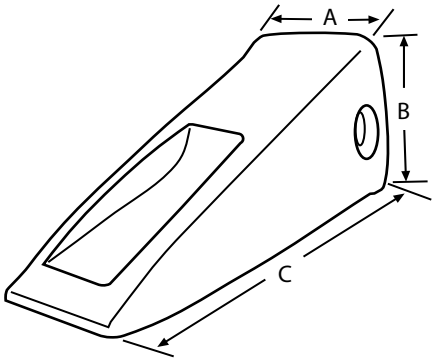
ROCK CHISEL TIP - *Premium quality, self sharpening design (MTG)*



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

External measurements in mm

HEAVY DUTY TIP

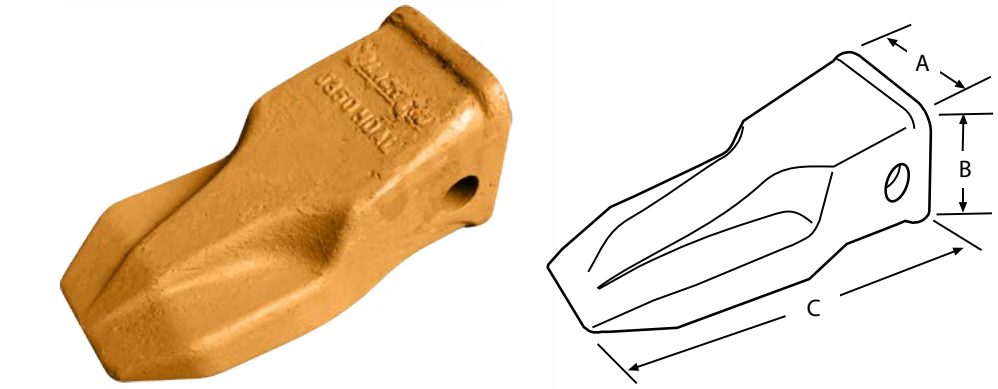


Part No	J-Series	A	B	C	KG	Machine Size
9N4252	J250	78	94	200	3.5	10-12 Tonne

External measurements in mm

CAT STYLE BUCKET TEETH

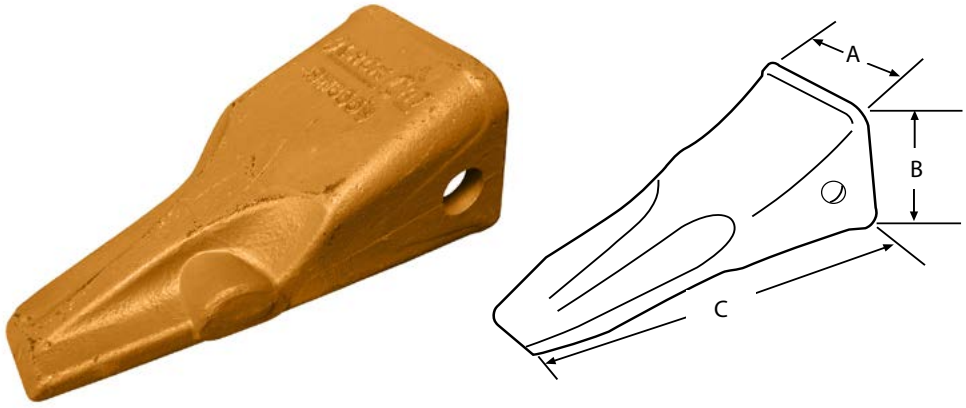
HEAVY DUTY ABRASION TIP



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

External measurements in mm

PENETRATION TIP

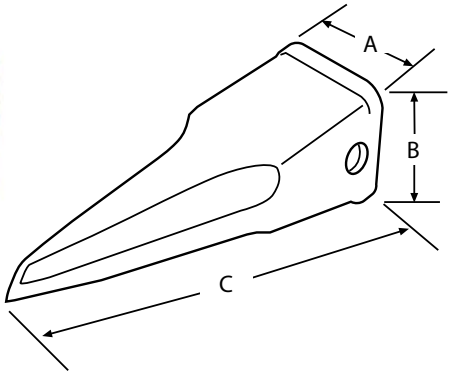


Part No	J-Series	A	B	C	KG	Machine Size
9J4259	J250	75	85	190	3	10-12 Tonne
9J4309	J300	92	98	215	4	15-20 Tonne
9J4359	J350	100	110	250	5.8	20-25 Tonne

External measurements in mm

CAT STYLE BUCKET TEETH

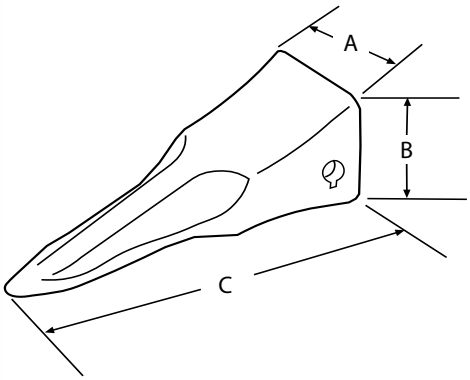
TIGER TIP



Part No	J-Series	A	B	C	KG	Machine Size
J400tiger	J400	120	130	320	10.5	25-30 Tonne
J450tiger	J450	135	138	360	13.4	35-40 Tonne
J550tiger	J550	158	145	380	16	45-50 Tonne

External measurements in mm

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

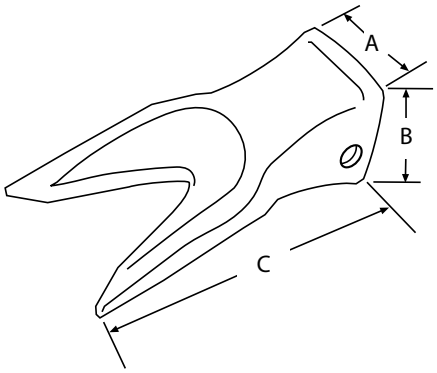


Part No	J-Series	A	B	C	KG	Machine Size
MC25V	J250	75	90	225	2.6	10-12 Tonne
MC30V	J300	90	110	260	4.4	15-20 Tonne
MC35V	J350	105	115	258	5.6	20-25 Tonne
MC40V	J400	122	130	310	7.3	25-30 Tonne
MC45V	J450	134	140	340	9.4	35-40 Tonne
MC55V	J550	158	150	390	13.5	45-55 Tonne

External measurements in mm

CAT STYLE BUCKET TEETH

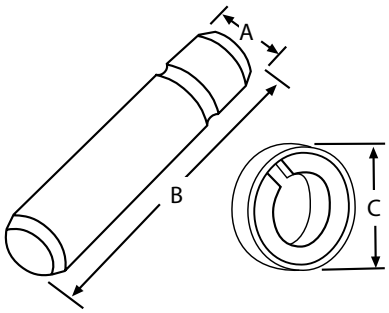
TWIN TIGER TIP - *Premium quality, self sharpening design (MTG)*



Part No	J-Series	A	B	C	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

External measurements in mm

PINS AND RETAINERS



Pin No	Retainer No	A	B	C	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

Dimensions in mm

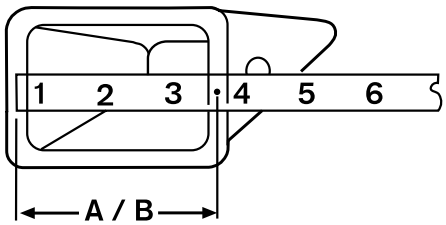
CAT STYLE BUCKET TEETH

HOW TO IDENTIFY A CAT STYLE TIP

To determine the size or J-family of a CAT style tip, whose reference has disappeared due to wear or any other reason, 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.

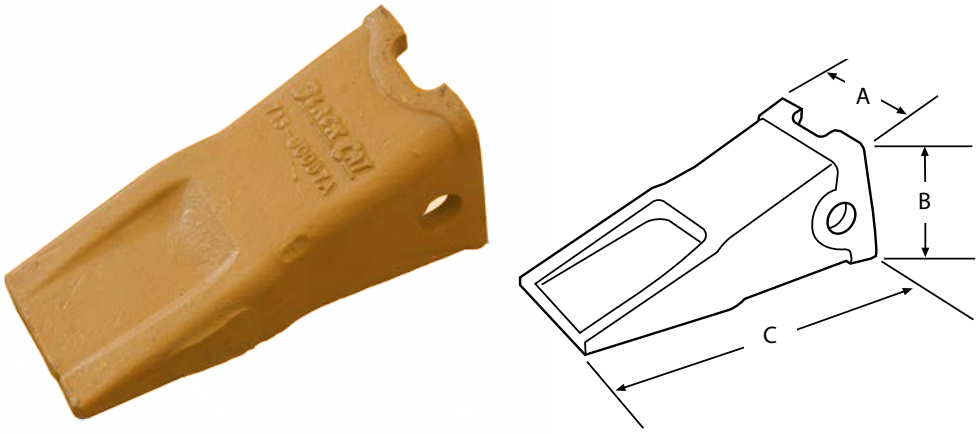


In addition, the second and third digits in the CAT part number often refer to the series.
Example: IU3352 = J350 series.

DOOSAN STYLE BUCKET TEETH

DOOSAN STYLE BUCKET TEETH

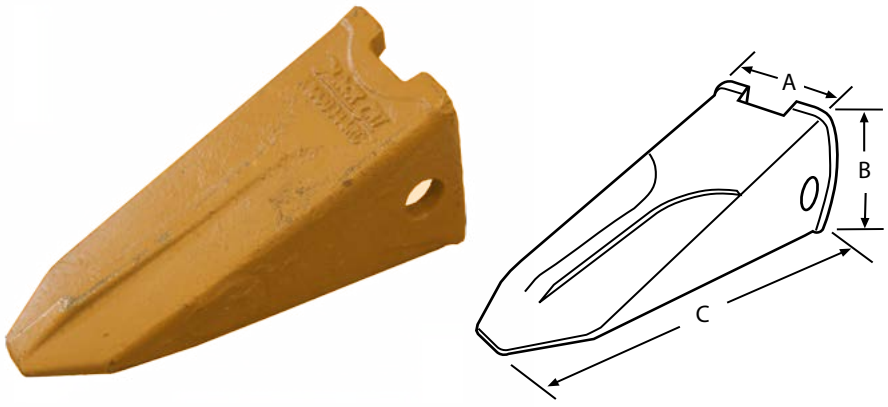
STANDARD TIP



Part No	A	B	C	KG	Machine Size
2713-1221	85	85	200	3-8	10-15 Tonne
K1000344	100	98	225	6	20-25 Tonne
2713-1219	108	108	245	7.5	26-30 Tonne
K1005018	126	126	280	11	31-35 Tonne
K1004145	145	145	305	15	40-50 Tonne

External measurements in mm

ROCK CHISEL TIP

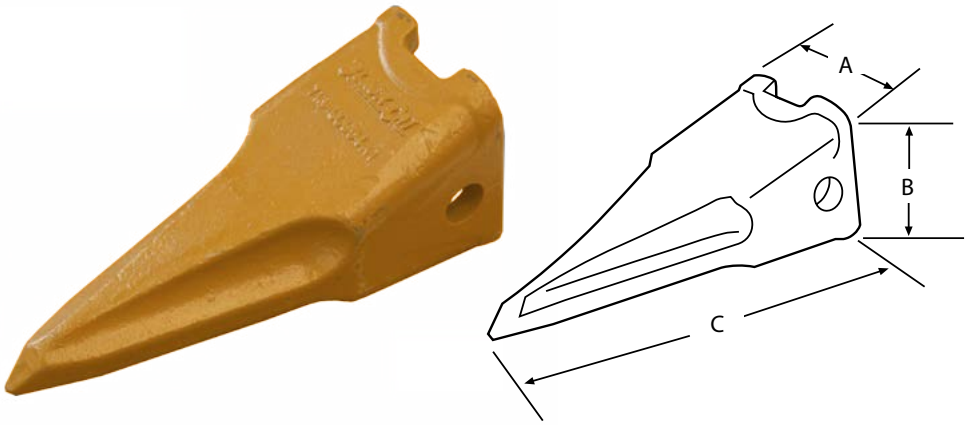


Part No	A	B	C	KG	Machine Size
K1000344RC	95	100	255	6	20-25 Tonne
71300054ARC	110	115	280	8.5	26-30 Tonne
K1004145RC	145	145	330	16.5	40-50 Tonne

External measurements in mm

DOOSAN STYLE BUCKET TEETH

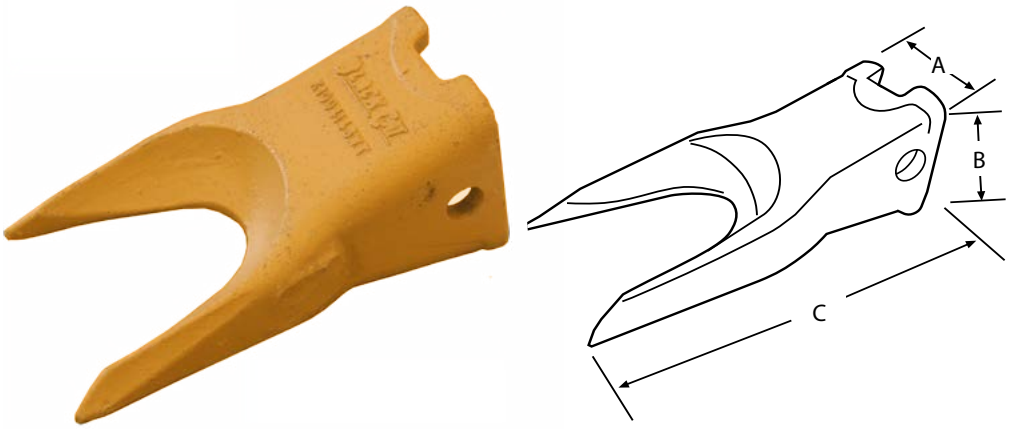
TIGER TIP



Part No	A	B	C	KG	Machine Size
71300057AT	83	88	220	4	10-15 Tonne
K1000344T	98	100	245	4.5	20-25 Tonne
71300054AT	110	116	295	7.3	26-30 Tonne
K1005018T	127	135	340	8	31-35 Tonne
K1004145T	143	148	345	12.5	40-50 Tonne

External measurements in mm

TWIN TIGER TIP

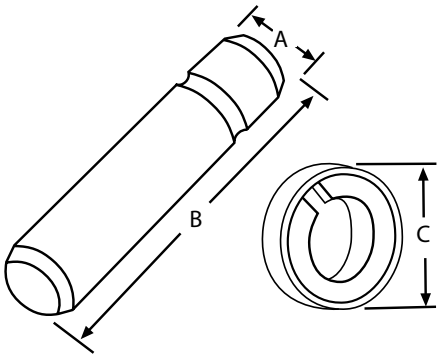


Part No	A	B	C	KG	Machine Size
K1000344WT	98	102	250	5.5	20-25 Tonne
K1004145WT	145	143	345	12.5	40-50 Tonne

External measurements in mm

DOOSAN STYLE BUCKET TEETH PINS

PINS AND RETAINERS



Machine	Pin No	Retainer No	A	B	C
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

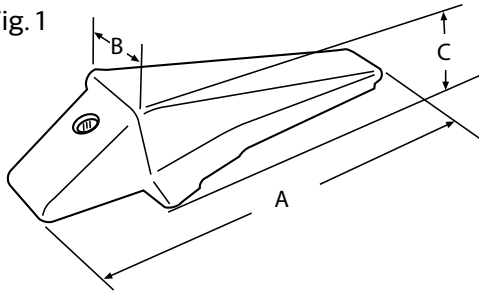
Dimensions in mm

ESCO STYLE CONICAL BUCKET TEETH

ESCO STYLE CONICAL ADAPTERS

FLUSHMOUNT ADAPTERS

Fig. 1



2-STRAP ADAPTERS

Fig.2

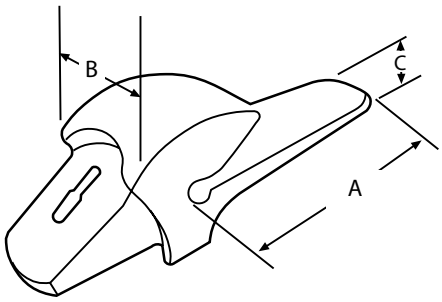


Fig.3

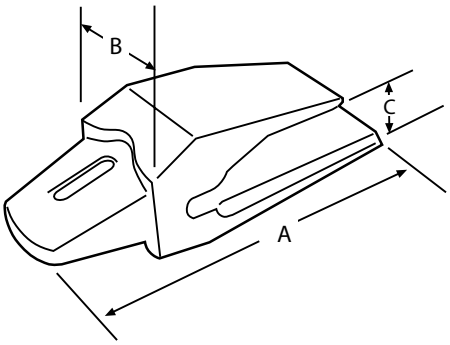


Fig	Part No	S-Series	A	B	C	KG	Machine Size
1	MB81	N/A	133	45	40	0.8	1-3 Tonne
2	833-18	18s	96	55	22	1.5	4-6 Tonne
3	23574-22	22s	225	56	26	3	7-8 Tonne
3	A1306-25	25s	225	72	27	4	8-10 Tonne
3	B3210T-30	30s	300	86	35	6	12-15 Tonne
3	B3210T-35	35s	320	102	33	10	15-25 Tonne

Dimensions in mm

ESCO STYLE CONICAL TEETH

MINI TIP RANGE

Fig.1

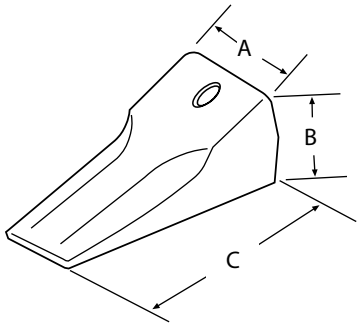


Fig. 2

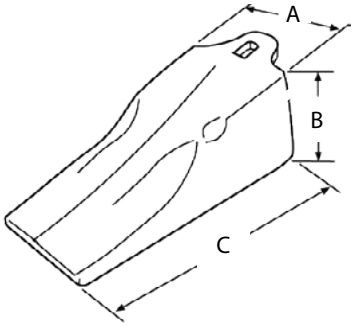


Fig. 3

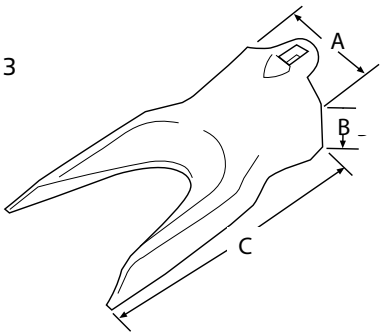
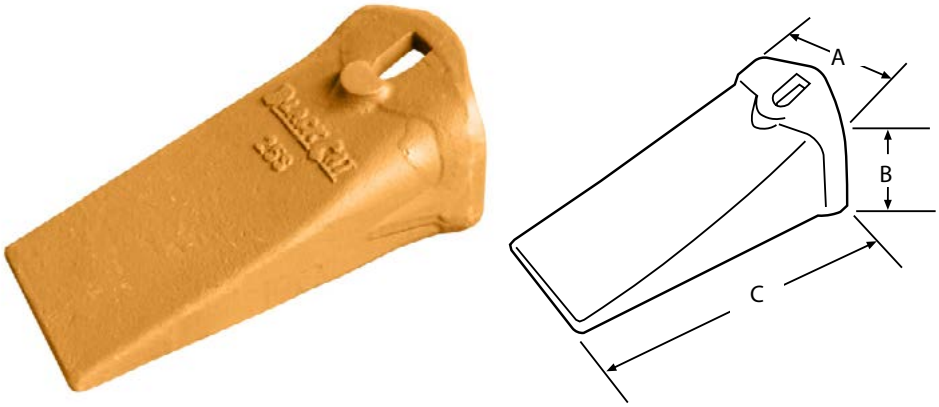


Fig	Part No	A	B	C	KG	Machine Size
1	MB4F	46	46	95	0.7	1-3 Tonne
2	MN18L	60	51	120	1	4-6 Tonne
3	18TVIP	62	50	155	1.1	4-6 Tonne
2	22S	62	64	138	1.4	7 Tonne

External measurements in mm

ESCO STYLE CONICAL TEETH

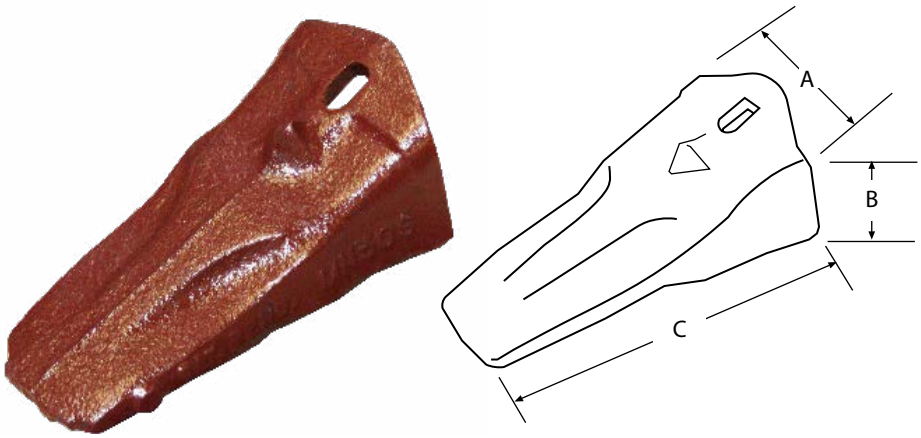
STANDARD TIP



Part No	S-Series	A	B	C	KG	Machine Size
BC25S	25S	85	75	178	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

External measurements in mm

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

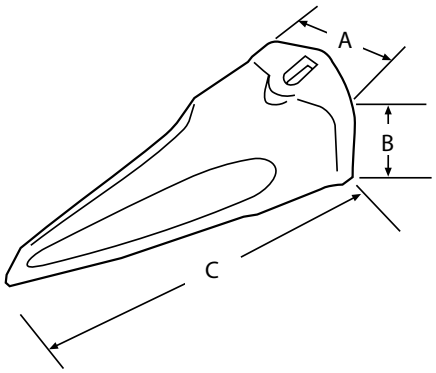


Part No	S-Series	A	B	C	KG	Machine Size
MN25S	25S	80	78	175	2	8-10 Tonne
MN30S	30S	95	80	180	2.5	10-15 Tonne
MN35S	35S	114	90	200	3.4	15-25 Tonne
MN40S	40S	125	105	240	5.5	26-35 Tonne

External measurements in mm

ESCO STYLE CONICAL TEETH

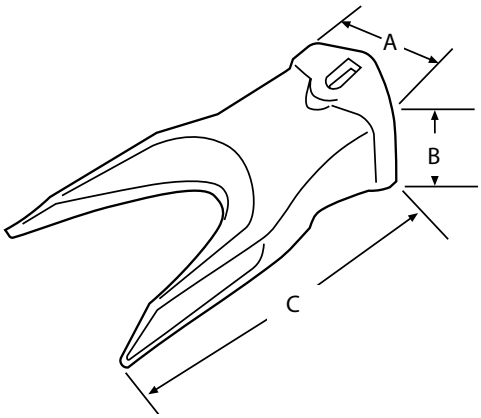
TIGER TIP



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

External measurements in mm

TWIN TIGER TIP

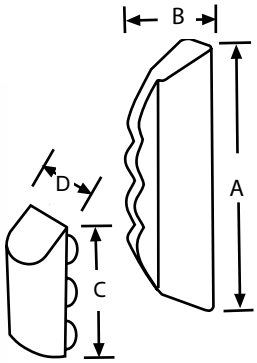


Part No	S-Series	A	B	C	KG	Machine Size
25TVIP	25S	89	80	228	3.4	8-10 Tonne
30TVIP	30S	100	78	215	3.2	10-15 Tonne
35TVIP	35S	120	110	265	6.2	15-25 Tonne

External measurements in mm

ESCO STYLE CONICAL PINS

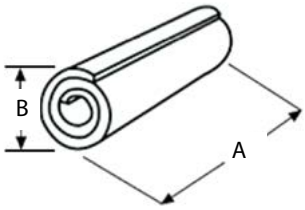
PINS AND LOCKS



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

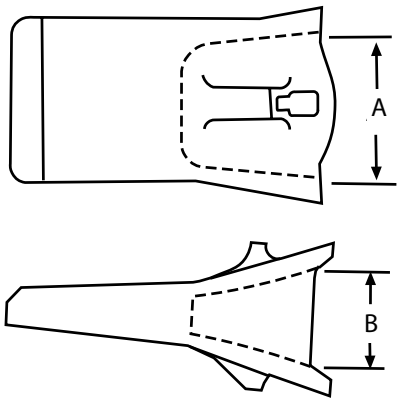
Dimensions in mm

HOW TO IDENTIFY AN ESCO STYLE TIP

To determine the size or family of a ESCO conical tip, whose reference has disappeared due to wear or any other reason, take the INTERNAL dimensions A and B shown below. Don't take external measurements because they may have been affected by wear.

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

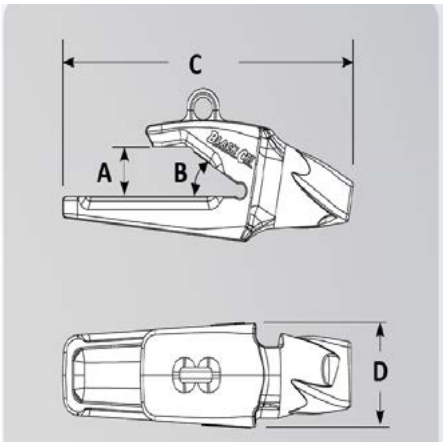
Dimensions in mm



ESCO STYLE SUPER-V BUCKET TEETH

ESCO STYLE SUPER-V TEETH & ADAPTERS

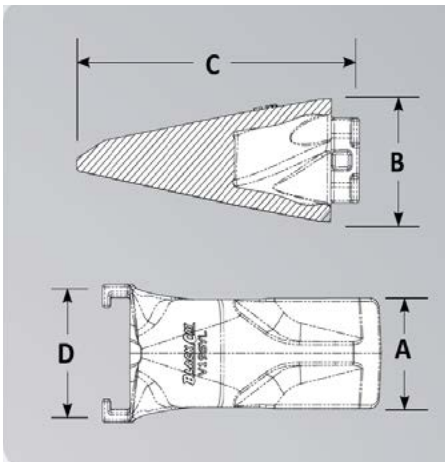
2-STRAP ADAPTERS



Part No	A	B	C	D	KG	Machine Size
5855-V33	41	30.0°	360	101	11	15-20 Tonne
5856-V39	52	30.0°	401	113	15	20-30 Tonne
5856-V43	52	30.0°	435	134	22	35-40 Tonne

Dimensions in mm

STANDARD TIP



Part No	A	B	C	D	KG	Machine Size
V33 SYL	103	103	263	108	7	15-20 Tonne
V39 SYL	121	114	293	122	9.5	20-30 Tonne
V43 SYL	128	128	323	136	13	35-40 Tonne
V51 SYL	140	143	348	150	16	45-50 Tonne
V59 SYL	156	154	350	172	20	55-60 Tonne
V61 SYL	152	155	380	170	25	65-70 Tonne

External measurements in mm

ESCO STYLE SUPER-V PINS

PIN ASSEMBLY

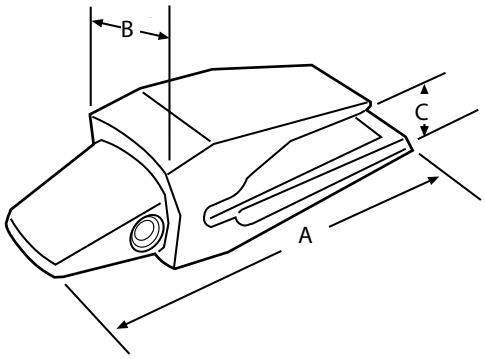
Part No	A	Machine Size
V33PN	86	15-20 Tonne
V39PN	95	20-30 Tonne
V43PN	105	35-40 Tonne
V51PN	111	45-50 Tonne
V59PN	120	55-60 Tonne
V61PN	130	65-70 Tonne

Dimensions in mm

HYUNDAI STYLE BUCKET TEETH

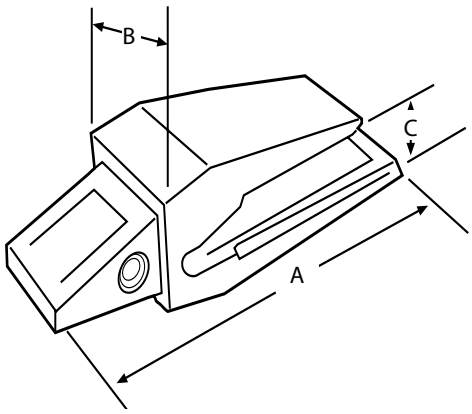
HYUNDAI STYLE ADAPTERS

2-STRAP ADAPTERS



Part No	A	B	C	KG	Machine Size
E161-3017	290	98	35	7.5	12-21 Tonne

Dimensions in mm

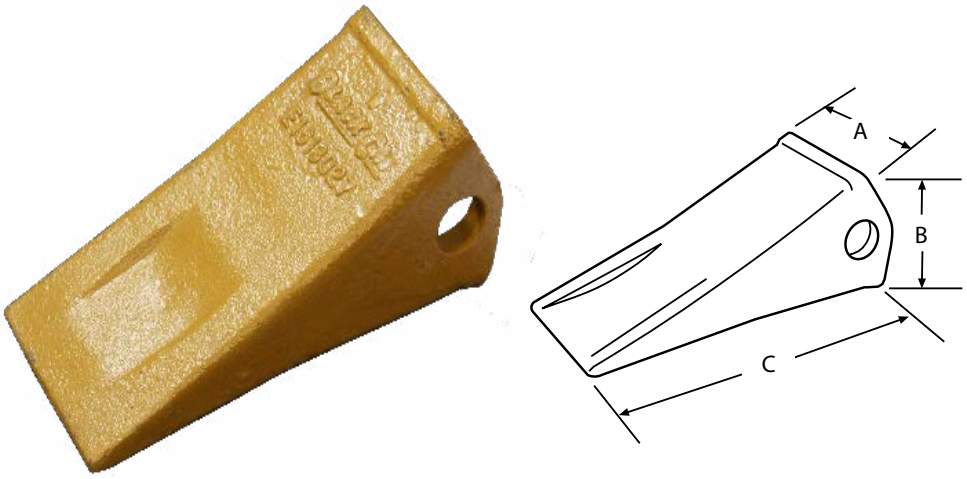


Part No	A	B	C	KG	Machine Size
E262-3127	370	110	40	12.7	26-32 Tonne

Dimensions in mm

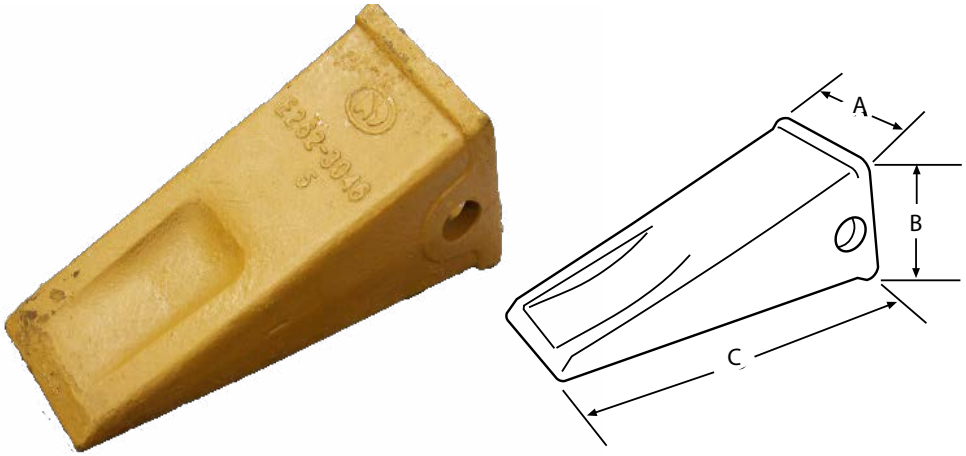
HYUNDAI STYLE BUCKET TEETH

STANDARD TIP



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

External measurements in mm

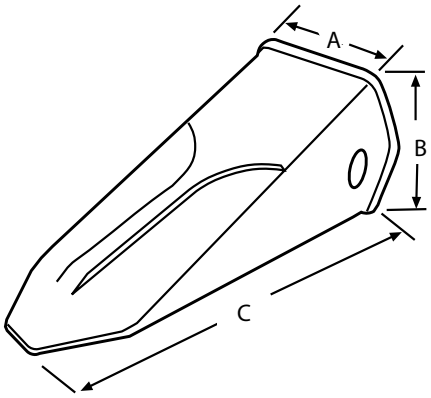


Part No	A	B	C	KG	Machine Size
E262-3046	115	105	255	7.5	26-32 Tonne

External measurements in mm

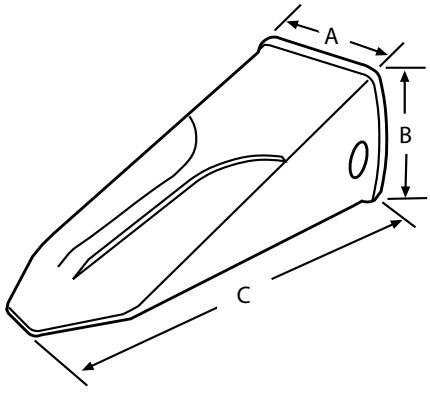
HYUNDAI STYLE BUCKET TEETH

ROCK CHISEL TIP



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

External measurements in mm

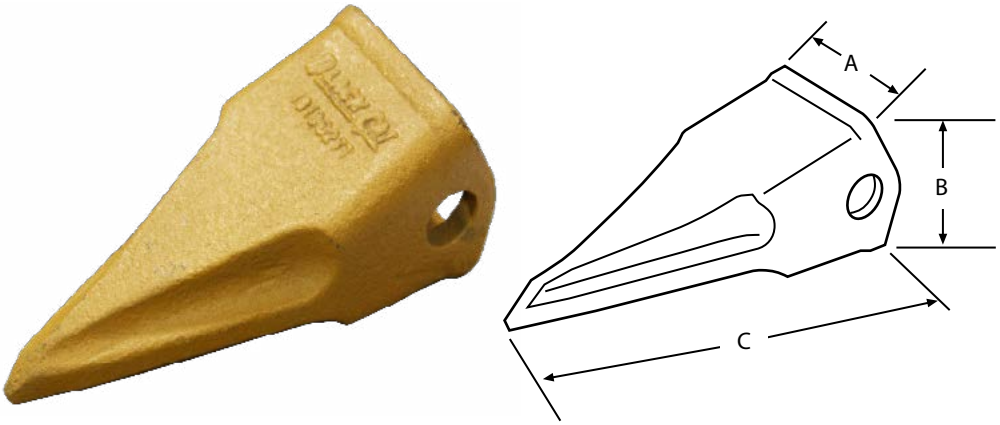


Part No	A	B	C	KG	Machine Size
E262-3046RC	120	110	295	10	26-32 Tonne

External measurements in mm

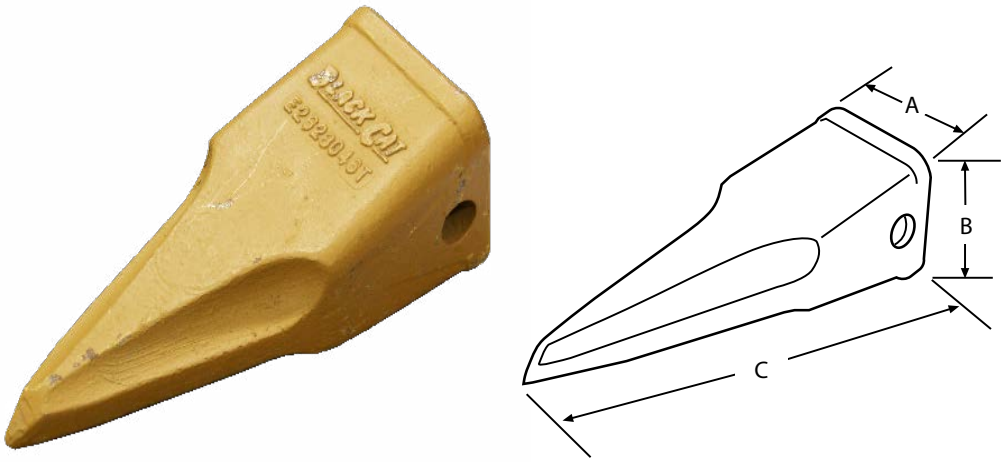
HYUNDAI STYLE BUCKET TEETH

TIGER TIP



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

External measurements in mm

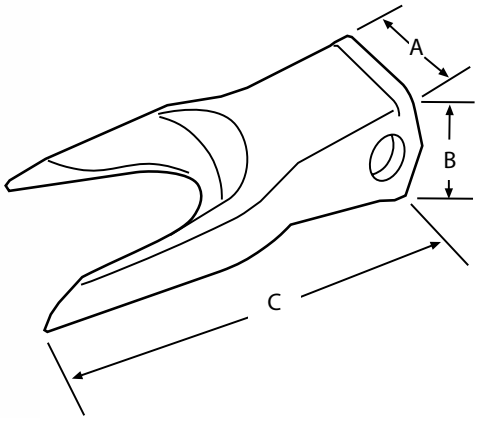


Part No	A	B	C	KG	Machine Size
E262-3046T	120	110	295	9.3	26-32 Tonne

External measurements in mm

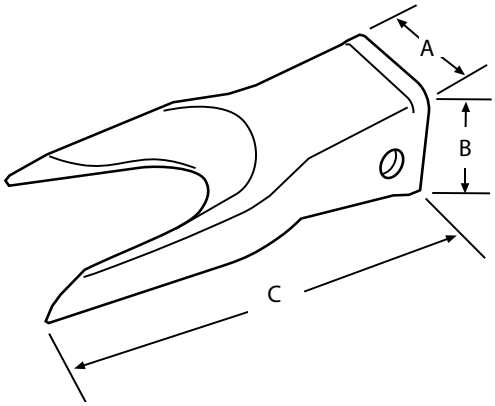
HYUNDAI STYLE BUCKET TEETH

TWIN TIGER TIP



Part No	A	B	C	KG	Machine Size
E161-3027WT	98	90	235	5.3	12-21 Tonne

External measurements in mm

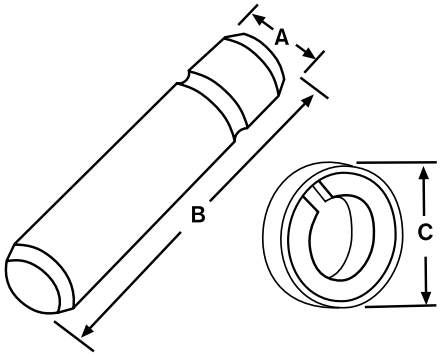


Part No	A	B	C	KG	Machine Size
E262-3046WT	120	110	305	9.7	26-32 Tonne

External measurements in mm

HYUNDAI STYLE BUCKET PINS

PINS AND RETAINERS



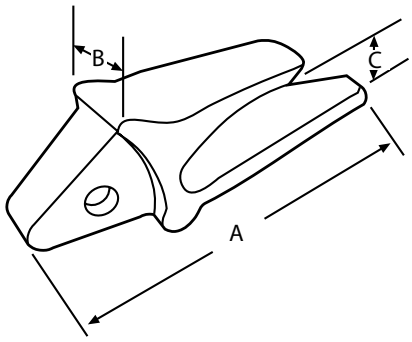
Pin No	Retainer No	A	B	C	Machine
SB80PN	SB80/235WS	19	101	32	12-21 Tonne
SB235PN	SB80/235WS	19	116	34	26-32 Tonne

Dimensions in mm

KOMATSU STYLE BUCKET TEETH

KOMATSU STYLE BUCKET TEETH

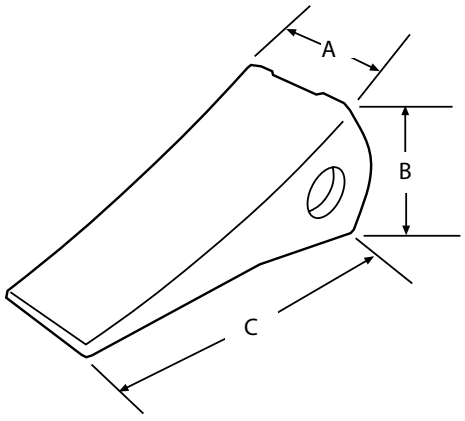
2-STRAP ADAPTERS



Part No	KM-Series	A	B	C	KG	Machine Size
205-70-68141	KM16	300	90	36	7	10-25 Tonne
207-70-14142	KM21	370	115	42	14	25-35 Tonne
208-70-14143	KM26	411	136	50	21	35-42 Tonne
209-70-54143	KM41	615	170	82	58	45-65 Tonne

Dimensions in mm

STANDARD TIP

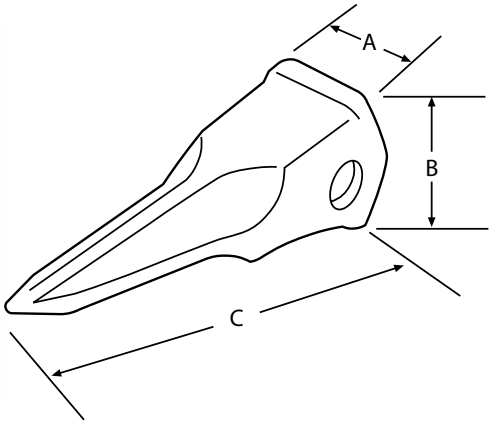


Part No	KM-Series	A	B	C	KG	Machine Size
205-70-19570	KM15	95	100	222	4.2	10-25 Tonne
207-70-14151	KM20	120	115	240	6.5	25-35 Tonne
208-70-14152	KM25	150	122	275	9.6	35-42 Tonne

External measurements in mm

KOMATSU STYLE BUCKET TEETH

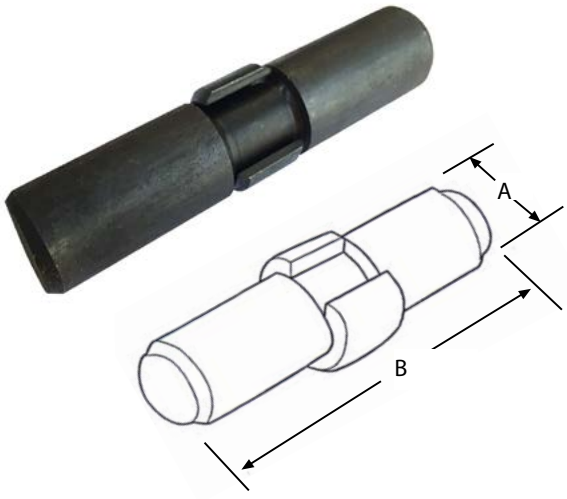
TIGER TIP - *Premium quality, self sharpening design (MTG)*



Part No	KM-Series	A	B	C	KG	Machine Size
MK200V	KM15	98	114	270	4.7	15-25 Tonne
MK300V	KM20	122	122	300	6.5	25-35 Tonne
MK400V	KM25	148	135	340	9.4	35-42 Tonne
MK650V	N/A	180	200	430	22	65-70 Tonne

External measurements in mm

PIN ASSEMBLY

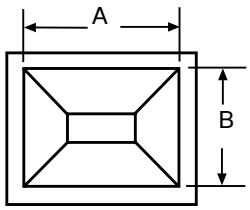


Pin No	A	B	Machine Size
20X-70-00150	20	71	PC60
09244-02496	25	97	PC200
175-78-21810	25	116	PC300
09244-03036	30	136	PC400
209-70-54240	36	163	PC650

Dimensions in mm

HOW TO IDENTIFY A KOMATSU STYLE TIP

To determine the size or family of a KOMATSU style tip, whose reference has disappeared due to wear or any other reason, take the INTERNAL dimensions A and B shown below. Don't take external measurements because they may have been affected by wear.



Looking at the back of tip

Dimensions in mm		
A	B	KM/PC Series
75	75	KM15/PC200
95	85	KM20/PC300
112	95	KM25/PC400
130	130	PC650

Dimensions in mm

GENERAL WELDING INSTRUCTIONS

For: Adapters, Base Edges, Lip Protectors, Side Styles, Repair Noses and other Heat Treated, 400, 450 and 500HB steel Items.

Note: ***Before cutting off any existing componentry, it is recommended to heat up the area to approx 100° to avoid affecting the steel hardness when cutting it cold.***

Cleaning and preliminary preparation

First of all, clean the parts to weld. The target is to remove paintings, greases, oxides and other elements which can produce blowholes in the welding stage or another problems. To do this in the right way, use a metallic brush or light grinding.

Preheating

Its principal target is to prevent cracks. To avoid them, preheat and keep the area to be weld, between 140-180ºC. We recommend to use a gas torch, and control temperature with temperstilks or contact or radiation pyrometers.

Maximum Temperature and final check

During the welding process, do not go over 250ºC, except the direct affected parts. The best method to keep the temperature within these limits, is to space each run. When finishing the welding, it is essential to check the quality of the surface of the filler material and the absence of defects. The surface of beads must be as flat and regular as possible. Grind the irregularities, avoiding parallel grinding lines to the beads.

Covered electrode procedure

If you use covered electrodes, we recommend to use basic covered electrodes with a low-hydrogen content.

Diameter: use the bigger diameter as possible, 6 mm is suitable. Types: UNE-EN 499 E 42 B or UNE-EN 499 E 46 B; AWS A5.1 E- 7016 or AWS A5.1 E-7018 Amperage and Polarity: follow manufacturer's instructions.

Weld must be done with short beads and a maximum oscillation of three times the diameter of the electrode. Completely remove the slags and lightly hammer the bead to reduce tensions after each run.

Basic cover absorbs humidity. To avoid this, we recommend to stock electrodes in the original packaging hermetically sealed. Once opened, keep them heated within 65-150ºC.

GMAW procedure (Gas Metal Arc Welding)

When it is done with gaseous protection, for moderate thickness and requirement welding, we recommend to use welding wire with solid thread. For high thickness and high requirement welding, use welding wire of tubular thread (Flux-core).

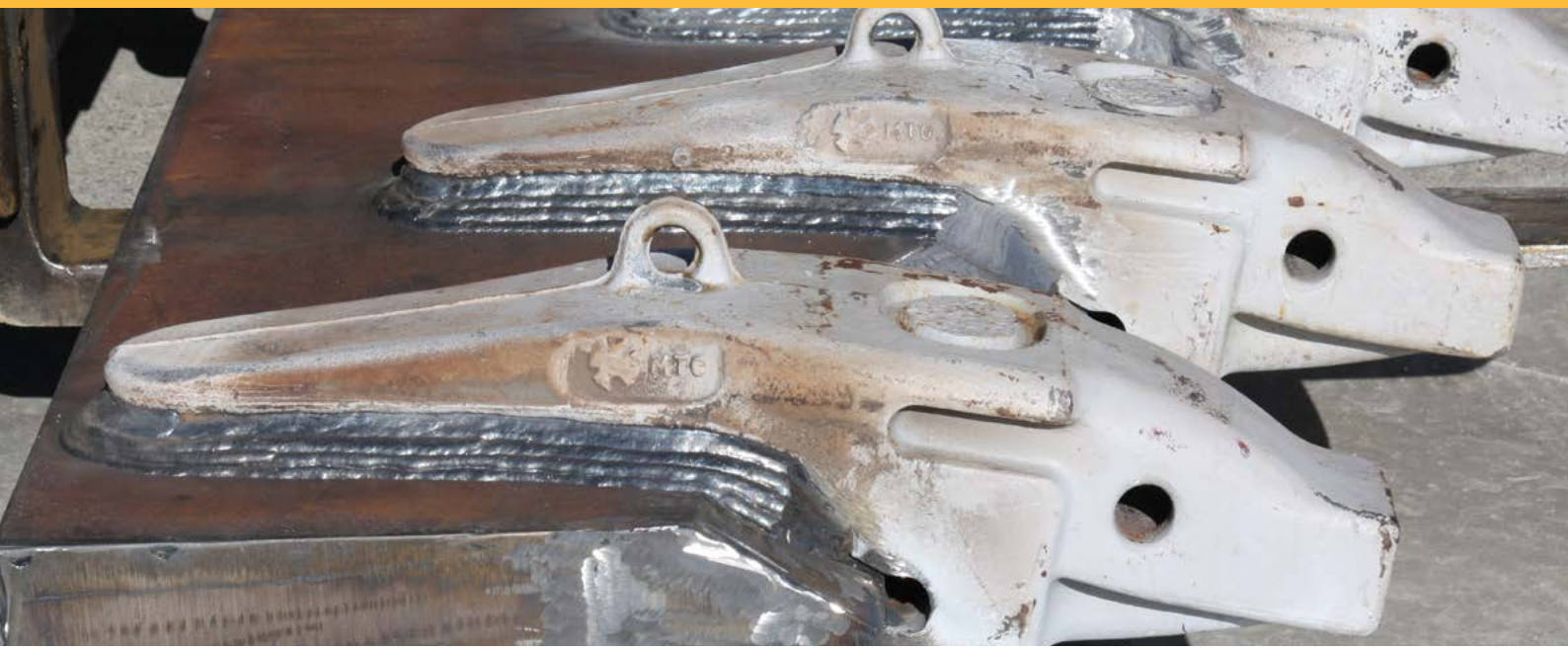
- Welding wire of solid thread Diameter: 1,6 mm (maximum recommended) Types: UNE-EN 440 type G 46 M or G 50 M; ASME/AWS ER 70 S-6; DIN 8559 SG2; and equivalents. Gas protection flow: 12-18 liters per minute.

- Welding wire of tubular thread (Flux-core) Types: ASME/AWS ER 70 T1 (rutile type); ASME/AWS E 70 T5 (basic type); DIN 8559.

With both types of welding wire, the welding must be done with a maximum oscillation of 10 mm. Lightly hammer the bead to avoid residual stresses after each run. It is very important to avoid draughts to protect the gas.

For the highest thickness and requirement welding, use welding wire of tubular thread (Flux-core) with low-hydrogen content, type DIN SG B1 C5254.

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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Machine names and part numbers are for reference only.
All parts are high-quality replacement parts and are not produced by the original equipment manufacturers.

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Our Address is
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