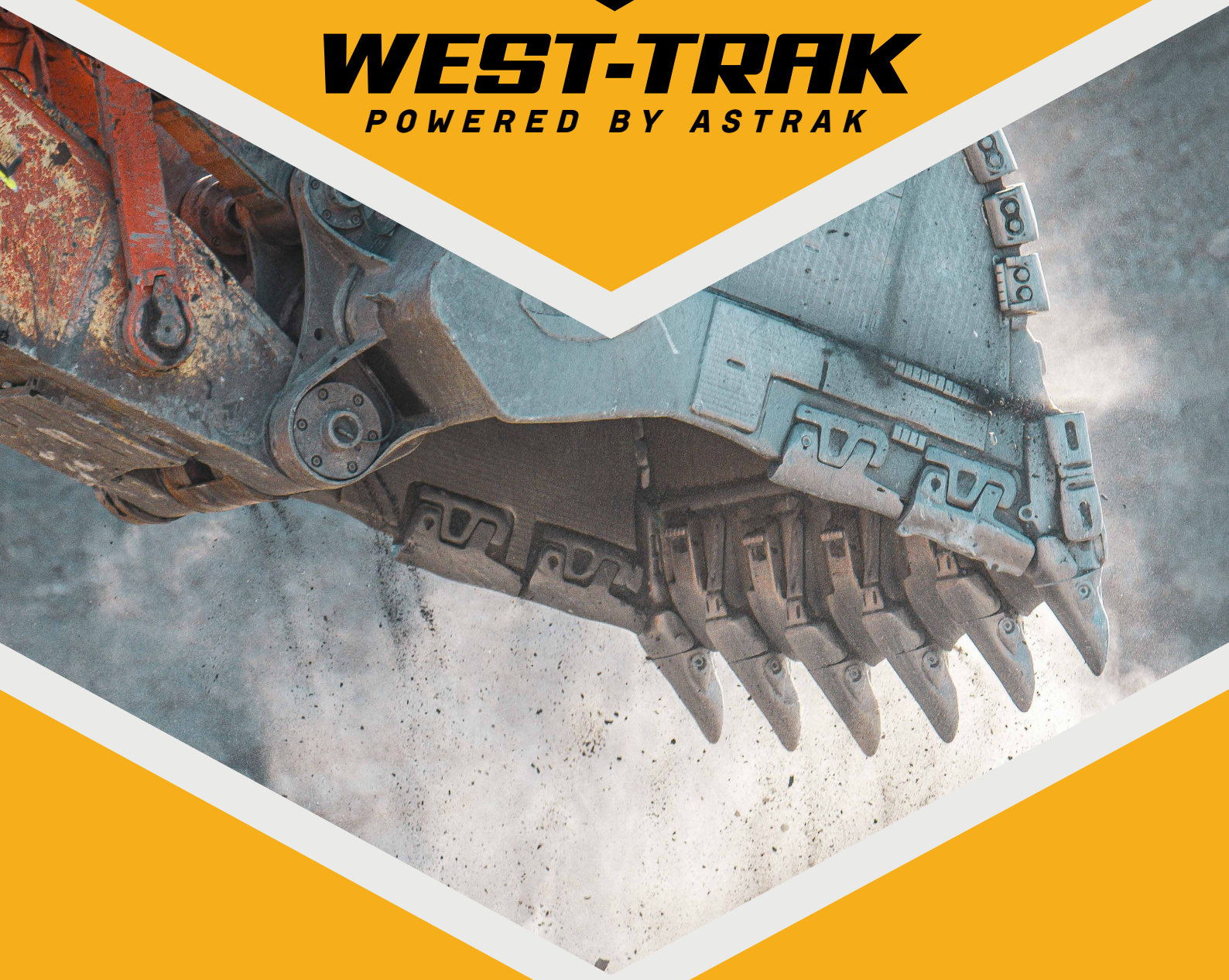
WEST-TRAK

POWERED BY ASTRAK



BUCKET TEETH & ADAPTERS

FOR THE BEST ON EARTH

CIVIL CONSTRUCTION

When you're hard at work building infrastructure the economy relies on, we'll keep your machines moving with parts, service & back-up support you can rely on.

MINING

Downtime costs. Our mining solutions ensure increased uptime & better performance from your front line machines.

QUARRYING

High wear & tear environments can grind your machines to pieces. Our tough steel solutions provide longer service life & reduced downtime.

FORESTRY

When you're miles away in the back blocks your machinery has to stay productive. Our range of forestry products & services will help you stick to the slopes & get more done.

ENGINEERING

Breakdowns, maintenance or fabrication, our wear steels & processing capabilities keep your jobs on schedule & deliver uptime to a wide range of machinery.

FAST FACTS

30+ Years
Industry Experience

Nationwide
Sales, Service & Support

1500+ Tonnes
Of Undercarriage Parts

500+ Tonnes
Of Ground Engaging Tools

10,000+ Machines
Supported in NZ

Global Support
From our parent company Astrak Global

500+ Tonnes
Of Wear Plate & Profiles

50,000+
Plans & Drawings

NATIONWIDE DISTRIBUTION

We deliver anywhere in New Zealand. Fast, reliable service to get you the right part, at the right price, on time, every time.

BUCKET TEETH & ADAPTERS

Get the world's most trusted, Hammerless Bucket Tooth system on your Excavator & Loader Buckets - MTG Veemet.

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, QUARRYING AND MINING APPLICATIONS

MTG VEEMET TOOTH SYSTEM

The world's most trusted OEM tooth system for 50-400 tonne machines

ESCO CONICAL STYLE TEETH

A range of tooth styles for 1-40 tonne machines

CAT STYLE J-SERIES TEETH

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

HYUNDAI STYLE TEETH

A range of tooth styles for 10-30 tonne machines

DOOSAN STYLE TEETH

A range of tooth styles for 10-30 tonne machines

KOMATSU STYLE TEETH

A range of tooth styles for 10-60 tonne machines

MTG VEEMET TOOTH SYSTEM

THE NEXT GENERATION OF TOOTH SYSTEM WITH ENHANCED STABILITY, OPTIMISED LOCKING AND INCREASED PENETRATION.

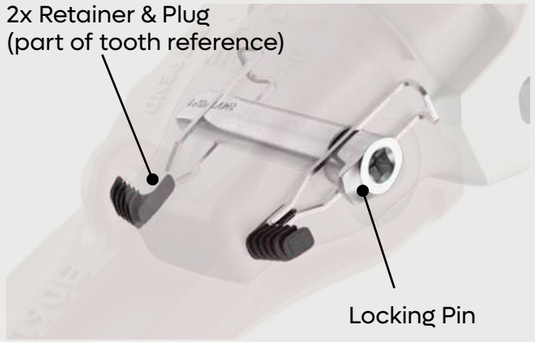
ASSEMBLY

- Hammerless 2-step assembly for utmost safety and efficiency
- Acoustic locking confirmation for maximum reliability
- Pin can be inserted from both sides offering better accessibility
- All parts with weight indications and those over 15 kg include lifting eyes to facilitate operations and avoid injuries
- QR-Code for up-to-date product info

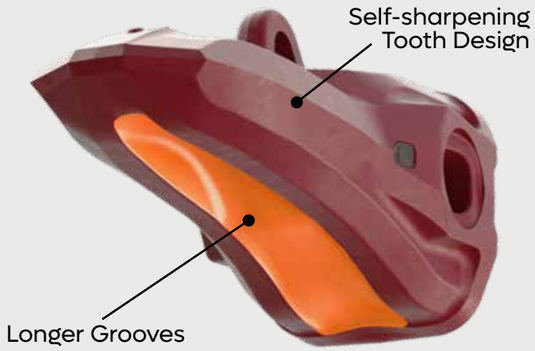
DISASSEMBLY

- Hammerless disassembly for utmost safety
- Only 2-steps for quick tooth changeouts
- Easy pin extraction even in compacted terrains

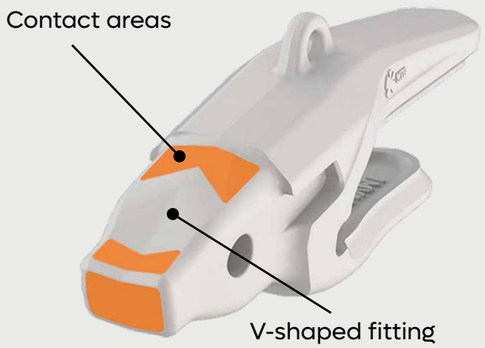
MTG VEEMET TOOTH SYSTEM



- Optimised locking with reduced parts
- Hammerless tooth assembly in only 2 steps
- Incomparable ease and safety



- Slimmer teeth with longer grooves
- Improved penetration capabilities
- Self-sharpening tooth designs throughout their wear life



- V-shaped fitting for better stability
- Reduced plastic deformation and max wear life
- Optimised locking with reinforced pin

- Wide product range with new and improved tooth designs
- Efficient GET solutions for all excavator and loader applications in Construction, Quarrying and Mining.

- QR-Code puts up-to-date product information at your fingertips

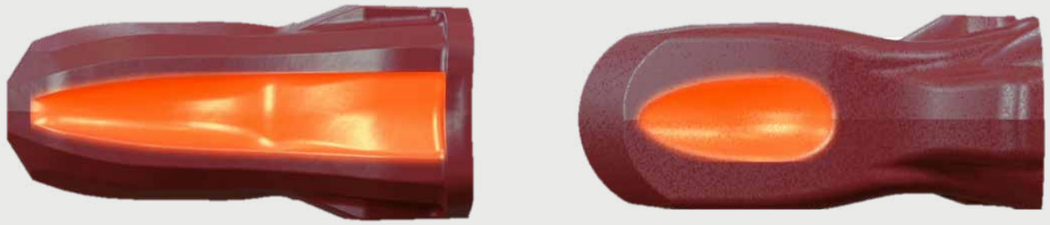
VEEMET			STARMET
Quick and easy 2-step assembly with acoustic locking confirmation	2	4	4 assembly steps without acoustic locking confirmation
V-shaped fitting with better load resistance	✓	✗	Simple load resistance
Reinforced pins and tooth integrated retainers	✓	✗	Pin and retainer to be assembled separately
Pin can be inserted from both sides	✓	✗	Only possible for construction sizes
Dual-pin option for highly compact terrains	✓	✗	No dual-pin option available
5% slimmer nose with 80% more contact area	✓	✗	Less nose contact area
Self-sharpening tooth designs with longer grooves for better penetration	✓	✗	Teeth with shorter grooves
Wear caps with better wear material ratio and wear indicators	✓	✗	Wear caps without wear indicators
Compatible with MTG's GET DETECTION	✓	✗	Not compatible with MTG's GET DETECTION
QR-code for product specific information	✓	✗	No QR-code available

- V-shaped fitting with better load resistance
- 5% slimmer nose with 80% more contact area

MTG SYSTEMS / VEEMET

MTG SYSTEMS / STARMET

MTG VEEMET TOOTH SYSTEM



Self-sharpening tooth designs with longer grooves for better penetration.

MTG SYSTEMS / VEEMET

MTG SYSTEMS / STARMET

Wear caps with more wear material and cast-in wear indicators.

MTG SYSTEMS / VEEMET

MTG SYSTEMS / STARMET

Improved design of wear cap guides for less wear exposure and longer wear life.

MTG SYSTEMS / VEEMET

MTG SYSTEMS / STARMET

MTG VEEMET TOOTH RANGE

GET THE RIGHT TOOL FOR THE JOB

EXTRA (E)

Extra design for loose/ blasted and abrasive terrain that require good penetration

EXTRA-VECTOR (EV)

Extra-Vector design with very good penetration in terrains with high levels of impacts and abrasion

EXTRA X (EX)

Extra X design for loose /blasted and highly abrasive terrain that require good penetration

PENETRATION-ROCK (PR)

Penetration-Rock design with an optimal balance between penetration and resistance against high impacts

VECTOR (V)

Vector design for optimal penetration in extremely compact and non-abrasive terrains

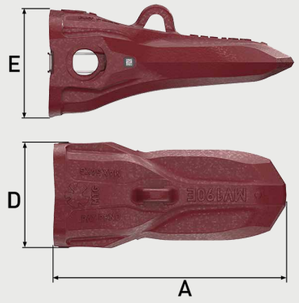
DOUBLE VECTOR (W)

Double Vector design for optimal penetration in extremely compact and non-abrasive terrains

Get in touch for availability, as not all styles may be in stock.

MTG VEEMET BUCKET TEETH

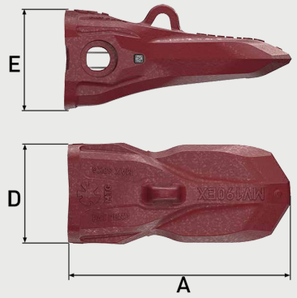
EXTRA (E) – EXTRA DESIGN FOR LOOSE/BLASTED AND ABRASIVE TERRAIN THAT REQUIRE GOOD PENETRATION.



PART NO	A	D	E	KG
MV130E	450.00	196.40	195.00	32.75
MV190E	492.00	216.00	214.00	48.30
MV250E	524.70	244.60	243.70	57.00
MV500E	571.00	272.50	277.00	83.50

All measurements in millimetres

EXTREME X (EX) – EXTRA X DESIGN FOR LOOSE/BLASTED AND HIGHLY ABRASIVE TERRAIN THAT REQUIRE GOOD PENETRATION.

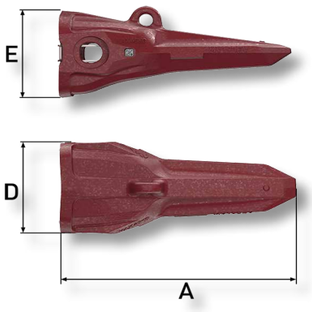


PART NO	A	D	E	KG
MV130EX	450	195	198.40	39.30
MA60EX	409	176	161	24.0
MA120EX	443	202	191	34
MA180EX	492	225	212	52
MA240EX	524	246	242	63

All measurements in millimetres

MTG VEEMET BUCKET TEETH

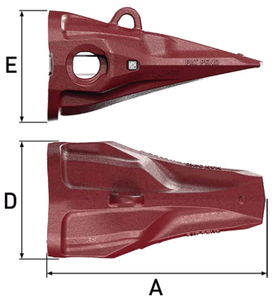
EXTRA VECTOR (EV) – EXTRA-VECTOR DESIGN WITH VERY GOOD PENETRATION IN TERRAINS WITH HIGH LEVELS OF IMPACTS AND ABRASION.



PART NO	A	D	E	KG
MV130EV	480.30	198.40	194.60	29.50
MV190EV	526.00	216.00	214.00	39.50
MV250EV	565.60	244.60	243.70	16
MV500EV	609.60	272.70	277.20	73.50

All measurements in millimetres

PENETRATION-ROCK (PR) – PENETRATION-ROCK DESIGN WITH AN OPTIMAL BALANCE BETWEEN PENETRATION AND RESISTANCE AGAINST HIGH IMPACTS.

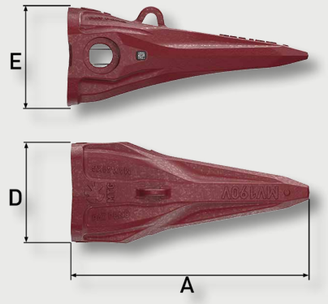


PART NO	A	D	E	KG
MV130PR	365.90	196.40	194.90	22.40
MV190PR	409.00	216.00	214.00	30.50
MV250PR	442.50	249.20	243.90	42.30
MV500PR	491.40	272.50	277.40	59.50

All measurements in millimetres

MTG VEEMET BUCKET TEETH

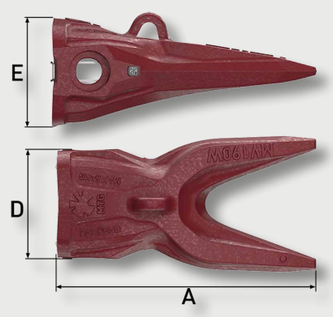
VECTOR (V) – VECTOR DESIGN FOR OPTIMAL PENETRATION IN EXTREMELY COMPACT AND NON-ABRASIVE TERRAINS.



PART NO	A	D	E	KG
MV130V	480.30	198.40	194.60	26.50
MV190V	525.00	216.00	214.00	37.20
MV250V	564.70	244.60	243.70	49.00
MV500V	609.70	272.70	277.10	71.00

All measurements in millimetres

DOUBLE VECTOR (W) – DOUBLE VECTOR DESIGN FOR OPTIMAL PENETRATION IN EXTREMELY COMPACT AND NON-ABRASIVE TERRAINS.

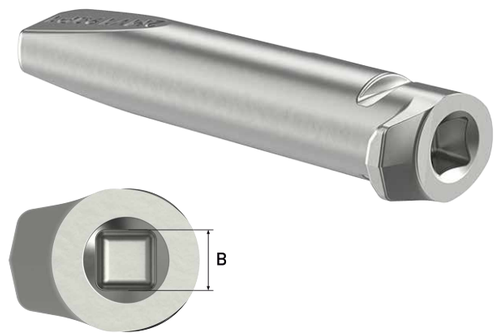


PART NO	A	D	E	KG
MV130W	479.60	196.40	194.60	36.30
MV190W	526.00	216.00	214.00	47.60

All measurements in millimetres

MTG VEEMET PINS

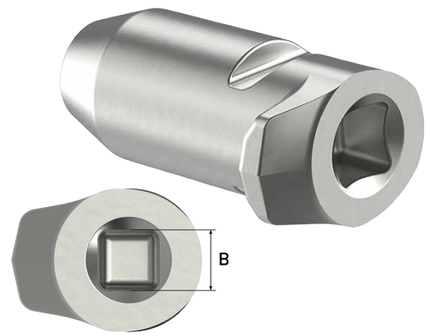
PIN



PART NO	B	KG
2MV130P1	13	1.16
2MV190P1	19	1.90
2MV250P1	19	2.38
2MV500P1	19	2.90

All measurements in millimetres

DUAL-PIN



PART NO	B	KG
2MV130P2	12.70	0.60
2MV190P2	19.05	0.90
2MV250P2	19.05	1.20
2MV500P2	19.05	1.50

All measurements in millimetres

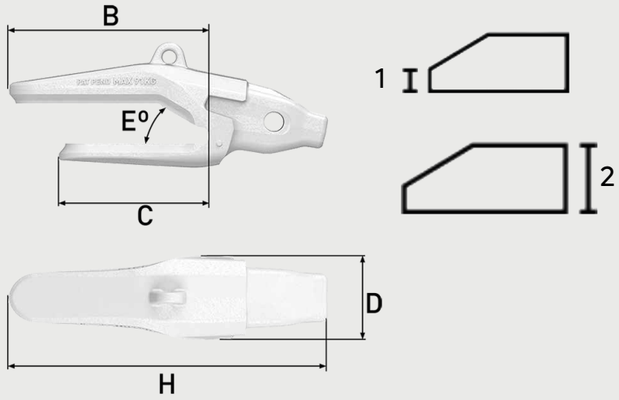
REMOVAL TOOL

PART NO	B	E	KG
3MT12-34	13	19	1.90

All measurements in millimetres

MTG VEEMET ADAPTERS

CENTRAL WELD-ON ADAPTER

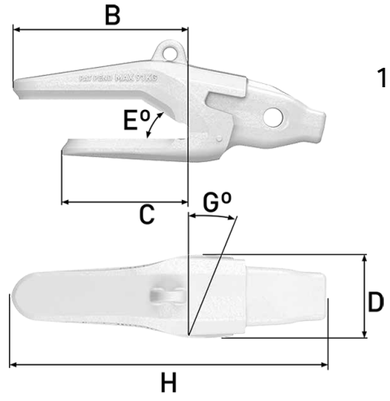


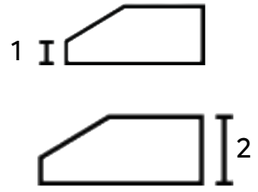
PART NO	B	C	D	H	E	1	2	KG
1MV130WC70	432.90	332.20	177.40	644.30	30°	17	70	57.95
1MV130WC80	412.30	311.60	177.40	644.30	30°	25	80	56.00
1MV130WC90	412.30	311.60	177.40	644.30	30°	31	90	55.70
1MV190WC100	459.00	344.00	196.00	735.00	30°	34	100	77.00
1MV190WC90	459.00	344.00	196.00	735.00	30°	31	90	78.50
1MV250WC100	500.20	374.70	225.40	800.50	30°	34	100	112.50
1MV250WC120	500.20	374.70	225.40	800.50	30°	43	120	109.50
1MV500WC100	559.00	416.00	248.00	890.60	30°	34	100	160.30
1MV500WC120	559.00	416.00	248.00	890.60	30°	43	120	158.00
1MV500WC140	559.00	416.00	248.00	890.60	30°	46	140	153.00

All measurements in millimetres

MTG VEEMET ADAPTERS

LEFT DELTA ADAPTER

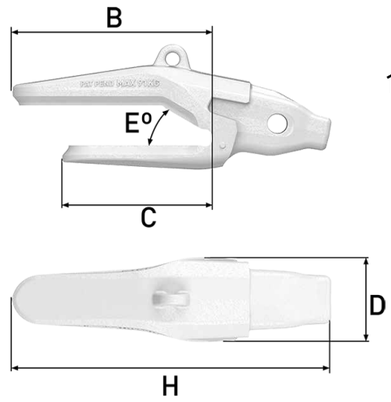


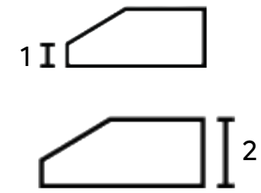


PART NO	B	C	D	H	E	G	1	2	KG
1MV130WLD80	412.30	311.60	177.40	644.30	30°	15°	25	80	57.00
1MV190WLD90	409.00	294.00	196.00	735.00	30°	15°	31	90	80.30
1MV250WLD100	442.50	317.00	225.40	800.50	30°	15°	34	100	112.50

All measurements in millimetres

RIGHT DELTA ADAPTER



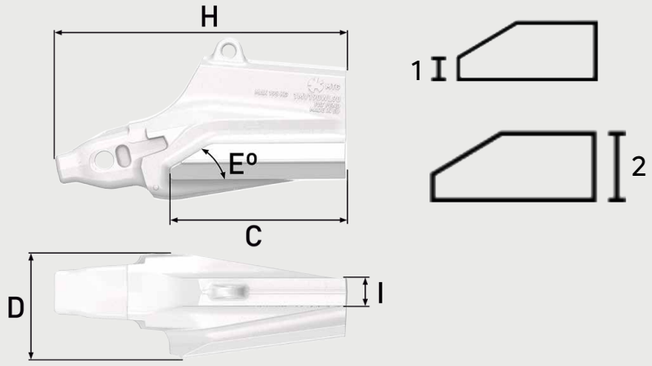


PART NO	B	C	D	H	E	G	1	2	KG
1MV130WRD80	412.30	311.60	177.40	644.30	30°	15°	25	80	57.00
1MV190WRD90	409.00	294.00	196.00	735.00	30°	15°	31	90	80.30
1MV250WRD100	442.50	317.00	225.40	800.50	30°	15°	34	100	112.50

All measurements in millimetres

MTG VEEMET ADAPTERS

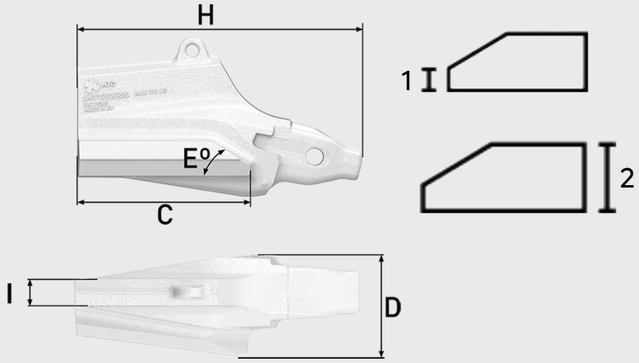
LEFT CORNER ADAPTER



PART NO	C	D	H	E	I	1	2	KG
1MV190WL90	449.00	267.00	739.00	30°	70.00	31	90	175.00
1MV250WL120	472.00	302.00	803.90	30°	70.00	43	120	251.00
1MV500WL140	574.00	329.60	927.00	30°	90.00	46	140	370.00

All measurements in millimetres

LEFT CORNER ADAPTER

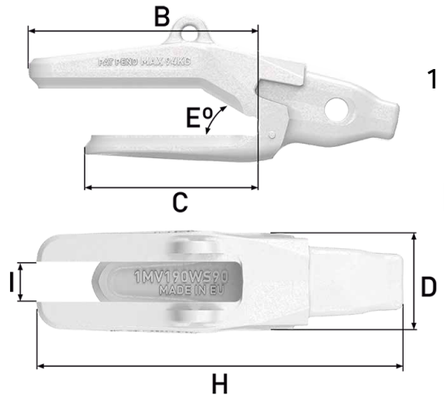


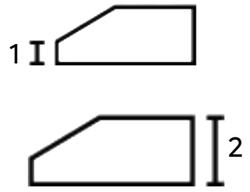
PART NO	C	D	H	E	I	1	2	KG
1MV190WR90	449.00	267.00	739.00	30°	70.00	31	90	175.00
1MV250WR120	472.00	302.00	803.90	30°	70.00	43	120	251.00
1MV500WL140	574.00	329.60	927.00	30°	90.00	46	140	370.00

All measurements in millimetres

MTG VEEMET ADAPTERS

STRADDLE ADAPTER



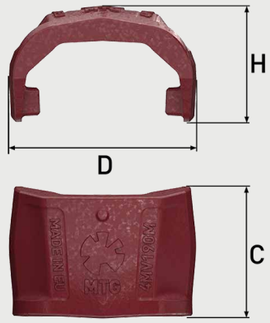


PART NO	B	C	D	H	E	I	1	2	KG
1MV190WS90	453.00	344.00	194.00	729.00	30°	80°	31	90	80.50
1MV190WS100	453.00	344.00	194.00	729.00	30°	80°	34	100	79.00
1MV250WS100	489.10	374.70	225.20	798.50	30°	80°	34	100	117.00
1MV500WS120	552.00	416.00	247.60	884.00	30°	95°	43	120	164.30
1MV500WS140	552.00	416.00	247.60	884.00	30°	90°	46	140	153.20

All measurements in millimetres

MTG VEEMET ADAPTER WEAR CAPS

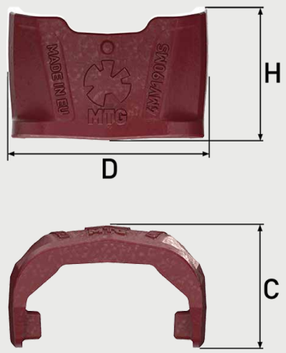
WEAR CAP FOR CENTRAL ADAPTER



PART NO	C	D	H	KG
4MV130M	137.10	195.60	120.00	6.47
4MV190M	152.00	216.00	130.00	8.50
4MV250M	174.50	248.30	157.20	12.50
4MV500M	191.80	277.80	173.10	16.50

All measurements in millimetres

WEAR CAP FOR STRADDLE ADAPTER



PART NO	C	D	H	KG
4MV190MS	129.00	216.00	143.00	7.25
4MV250MS	157.00	248.00	175.00	11.62
4MV500MS	175.30	277.80	192.10	16.00

All measurements in millimetres

MTG PREMIUM QUALITY STEELS

OUR STEELS

Specially designed to resist the highest mechanical stresses in service, MTG Steels maximise the hardness-toughness binomial thanks to their low level of impurities and the transformation achieved in our specific heat treatments.

They are medium carbon and low alloy steels, manufactured with the most advanced production techniques at the level of cast steels and iron and steel. Thanks to the exhaustive control of their composition and extensive refining processes in electric arc furnaces and AOD converters, we ensure that our parts have low levels of non-metallic inclusions and dissolved gases. With this, we significantly improve their quality, providing them with a longer life and less breakage.

PROPERTIES OF MTG STEELS

The most important characteristic of MTG steels is their ability to resist wear and impact. Thanks to this, our products last longer and the risk of breakage is minimised.

During their use, the tooth steels are subjected, on a macroscopic level, to high static loads and strong impacts that can cause them to break, and to repetitive mechanical stresses that can lead to their breakage due to fatigue fractures.

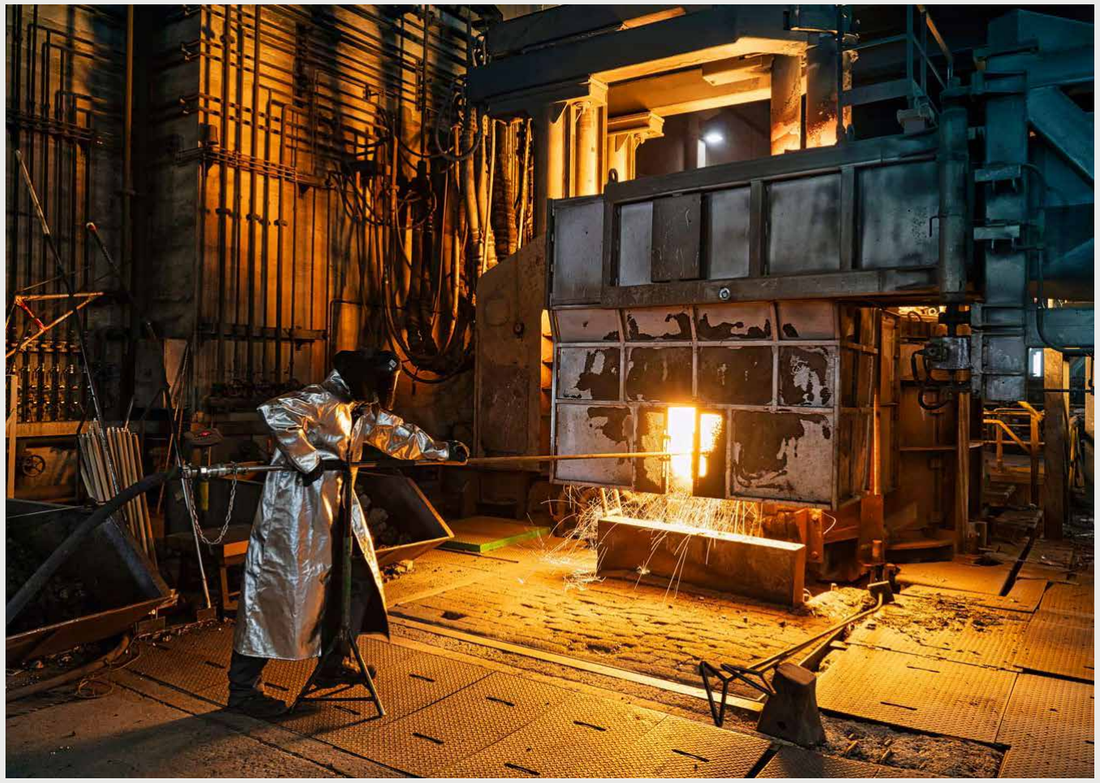
At a microscopic level and due to the interaction with the ground, the surface of the parts undergoes high pressures and temperatures, as well as deformations and repetitive impacts that cause their gradual wear.

This wear is a complex phenomenon and is affected by many variables that are difficult to measure, depending on the type of terrain (hardness, compaction, granulometry, angularity, etc.), the type of application or the type of work (geometric shape of the part and the pressure it receives, angle of attack, speed, etc.), and even, the climatic conditions (corrosion phenomena).

Of the different types of wear that are known, the one experienced by our parts is fundamentally of the abrasive type. In its interaction with the ground, the steel of the surface of the teeth and adapters is severely deformed until it becomes detached.

service conditions, in addition to high hardness, other properties of the steel are necessary to ensure maximum resistance to wear.

In demanding applications where operating conditions involve high pressures and impacts between parts and the ground, high toughness is also required to ensure maximum resistance to wear.



HOW DO MTG STEELS ACHIEVE MAXIMUM WEAR RESISTANCE?

1. THROUGH THE OPTIMAL BALANCE BETWEEN ITS MAIN PROPERTIES

Hardness is the property of steel that has traditionally been correlated with the in-service behaviour of wear parts. The greater the hardness of the steel, the greater the resistance to wear and tear and the longer the life of the parts.

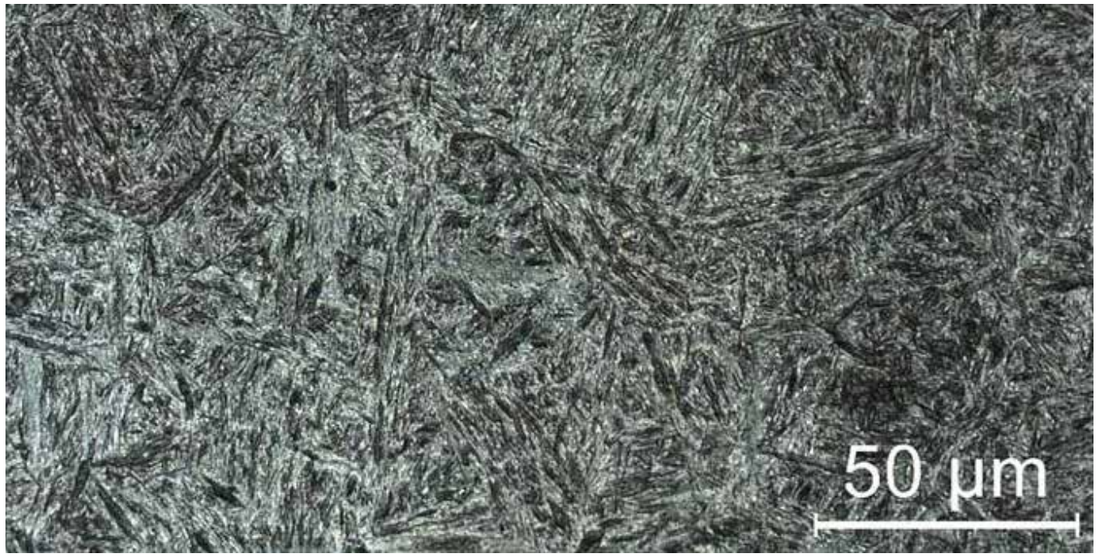
This classic view is correct for those service conditions in which the pressures between the parts and the ground are low or moderate. However, numerous field tests and laboratory trials carried out with the most prestigious universities and institutions show that, under certain

2. HARDNESS

The hardness of a steel is defined as the resistance to penetration and scratching. The carbon content of a steel determines, almost exclusively, the maximum hardness it can reach. An effective heat treatment and sufficiently severe hardening allow this maximum hardness to be developed both on the surface and in the core of the parts. MTG steels guarantee a high level of hardness, the result of a carefully studied composition and a specific treatment specially developed by MTG.

3. TOUGHNESS

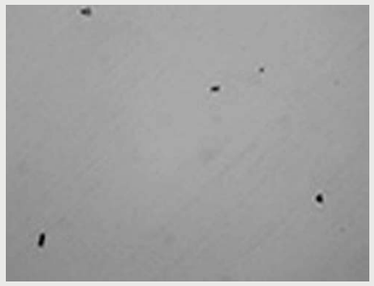
The toughness of a steel is a measure of its resistance to breakage when subjected to an impact. In a broad sense, it also indicates a material's ability to deform plastically before breaking. The homogeneity of the structure of a steel, as well as the level of inclusions and its morphology, are factors that determine its toughness. MTG steels are tough and guarantee that the pieces will not break and will wear less, even in the most demanding service conditions.



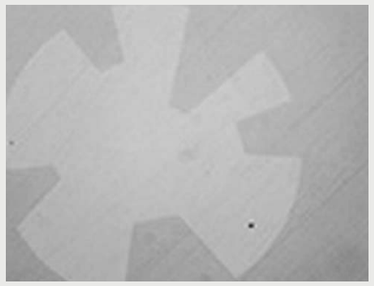
4. DEGREE OF REFINEMENT

All those non-metallic inclusions and dissolved gases that are not eliminated during the manufacturing of a part, negatively affect the toughness of a steel. Thanks to the high quality standards applied to the production of MTG steels, which include extensive refining stages both in electric arc furnaces and AOD converters, it is possible to guarantee a low level of impurities and ensure a high level of toughness.

FRAGILE STEEL
The continuous inclusions at the grain boundary make this steel fragile.



QUALITY STEEL
Globular inclusions confer toughness, but sharp edges affect the characteristics of the steel.



MTG STEEL
Clean steel with reduced number of small and round inclusions.

CAT STYLE J-SERIES BUCKET TEETH RANGE

A LARGE RANGE OF AFTERMARKET J-SERIES BUCKET TEETH ARE AVAILABLE FOR ALL MODELS OF 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.

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

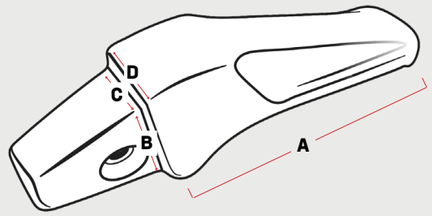
Maximum wear material for high abrasion and low penetration applications

TWIN TIGER

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

CAT STYLE J-SERIES ADAPTERS

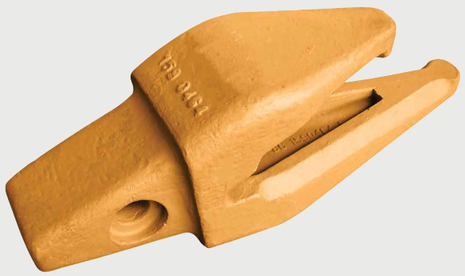
FLUSHMOUNT ADAPTERS

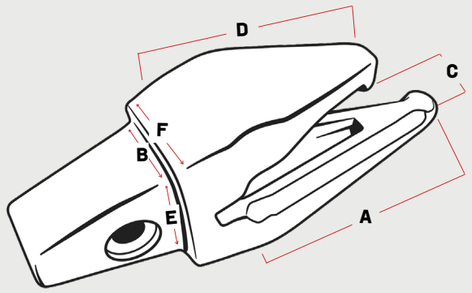


PART NO	J-SERIES	A	B	C	D	KG	MACHINE SIZE
4T1204	J200	140	35	45	33	2	2-5 Tonne
IU1254	J250	220	48	65	52	5.5	10-12 Tonne
IU1304	J300	220	60	72	65	8	15-20 Tonne
IU1354	J350	250	67	82	85	14	20-25 Tonne

All measurements in millimetres

2-STRAP ADAPTERS





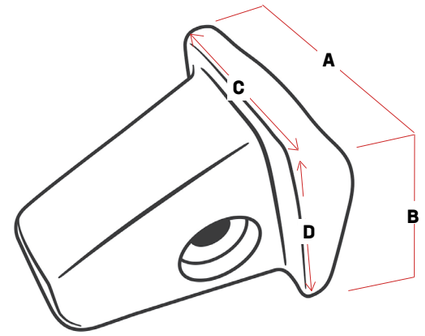
PART NO	J-SERIES	A	B	C	D	E	F	KG	MACHINE SIZE
8J7525	J200	90	35	15	20	45	40	1.5	2-5 Tonne
6Y3224	J220	120	43	25	75	57	59	3	6-8 Tonne
6Y3254	J250	140	48	31	95	65	65	4	10-12 Tonne
3G6304	J300	200	60	35	115	72	84	7.5	15-20 Tonne
3G8354	J350	200	67	43	110	82	90	9.5	20-25 Tonne
7T3404	J400	220	90	48	160	77	120	16	25-30 Tonne
8E6464	J460	260	85	53	220	95	125	20	35-40 Tonne
IU1553	J550	300	105	67	250	105	150	34	45-50 Tonne

All measurements in millimetres

CAT STYLE J-SERIES ADAPTERS

ADAPTER REPAIR NOSE

Used for replacing worn or broken adapter noses

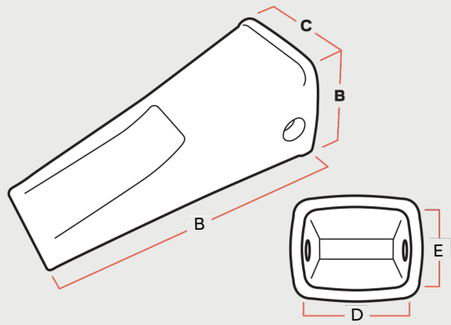


PART NO	A	B	C	D	KG	MACHINE SIZE
J250WN	70	80	48	65	2.3	10-12 Tonne
J300WN	85	88	60	72	3.4	15-20 Tonne
J350WN	100	110	67	82	4.6	20-25 Tonne

All measurements in millimetres

CAT STYLE J-SERIES BUCKET TEETH

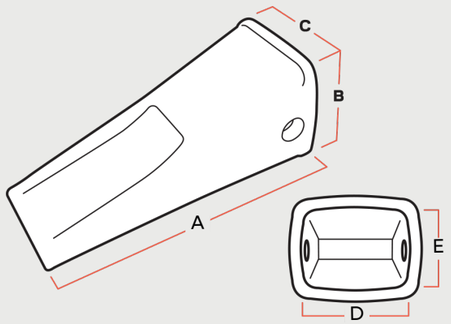
STANDARD TIP



		EXTERNAL			INTERNAL			
PART NO	J-SERIES	A	B	C	D	E	KG	MACHINE SIZE
IU3202	J200	145	63	55	44	44	1.4	4-6 Tonne
6Y3222	J220	165	73	63	44	60	2	6-8 Tonne
IU3252	J250	190	85	74	56	67	3.2	10-12 Tonne
IU3302	J300	215	96	89	67	76	4.4	15-20 Tonne
IU3352	J350	244	108	100	75	81	6.0	20-25 Tonne
7T3402	J400	268	127	116	88	89	9.4	25-30 Tonne
9W8452	J450	300	126	128	100	101	11.6	35-40 Tonne
9W8552	J550	330	140	154	119	113	18.5	45-50 Tonne

All measurements in millimetres

STANDARD TIP – Premium quality, self sharpening design (MTG)

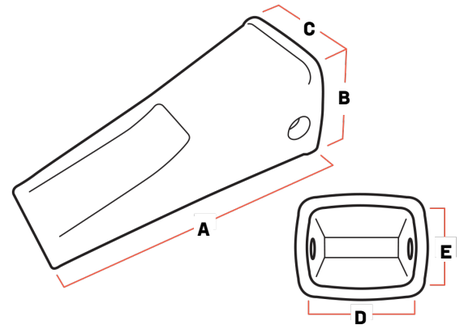


		EXTERNAL			INTERNAL			
PART NO	J-SERIES	A	B	C	D	E	KG	MACHINE SIZE
MC30S	J300	235	110	90	67	76	4	15-20 Tonne
MC35S1	J350	260	115	105	75	81	5.8	20-25 Tonne

All measurements in millimetres

CAT STYLE J-SERIES BUCKET TEETH

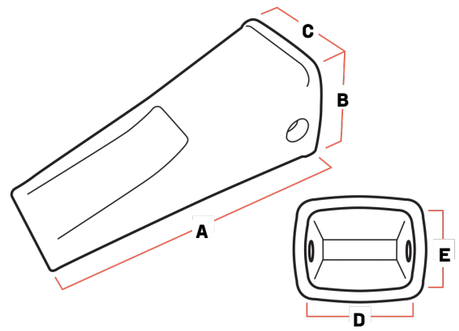
ROCK CHISEL TIP



		EXTERNAL			INTERNAL			
PART NO	J-SERIES	A	B	C	D	E	KG	MACHINE SIZE
J300RC	J300	250	100	85	67	76	4.2	15-20 Tonne
J350RC	J350	280	115	104	75	81	8	20-25 Tonne
J400RC	J400	315	130	120	88	89	11	25-30 Tonne
J450RC	J450	330	140	130	100	101	14.3	35-40 Tonne
J550RC	J550	385	157	160	119	113	23	44-50 Tonne

All measurements in millimetres

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

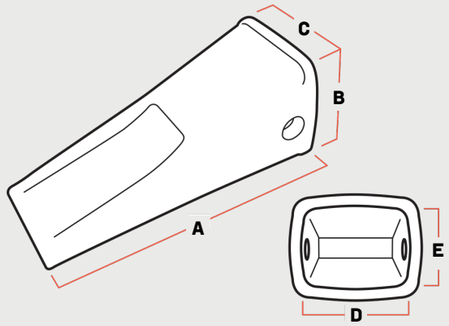


		EXTERNAL			INTERNAL			
PART NO	J-SERIES	A	B	C	D	E	KG	MACHINE SIZE
MC35E1	J350	275	120	105	75	81	7.1	20-25 Tonne
MC40E1	J400	310	137	150	88	89	11.2	25-30 Tonne
MC45E1	J450	345	140	134	100	101	15.0	35-40 Tonne
MC55E1	J550	375	155	158	119	113	21	45-50 Tonne

All measurements in millimetres

CAT STYLE J-SERIES BUCKET TEETH

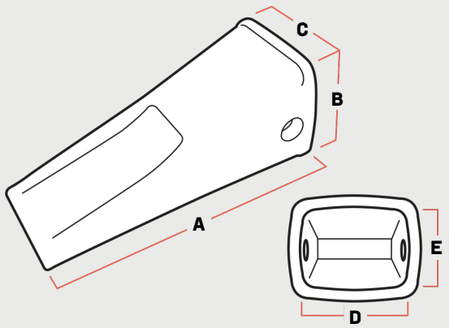
HEAVY DUTY TIP



		EXTERNAL			INTERNAL			
PART NO	J-SERIES	A	B	C	D	E	KG	MACHINE SIZE
9N4252	J250	200	94	78	56	67	3.5	10-12 Tonne
9N4302	J300	225	100	85	67	76	5.5	15-20 Tonne

All measurements in millimetres

HEAVY DUTY ABRASION TIP

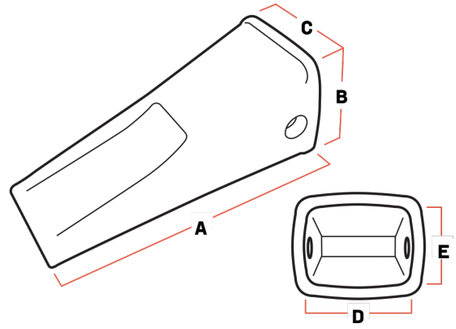


		EXTERNAL			INTERNAL			
PART NO	J-SERIES	A	B	C	D	E	KG	MACHINE SIZE
J300HDAL	J300	220	108	94	67	76	8	15-20 Tonne
J350HDAL	J350	240	118	104	75	81	10	20-25 Tonne

All measurements in millimetres

CAT STYLE J-SERIES BUCKET TEETH

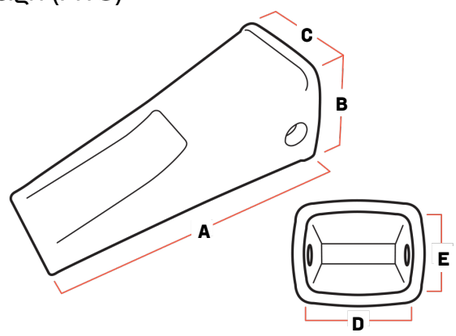
TIGER TIP



		EXTERNAL			INTERNAL			
PART NO	J-SERIES	A	B	C	D	E	KG	MACHINE SIZE
J250TIGER	J250	203	90	78	56	67	3.0	10-12 Tonne
J300TIGER	J300	240	105	86	67	76	4.4	15-20 Tonne
J350TIGER	J350	286	112	105	75	81	6.2	20-25 Tonne
J400TIGER	J400	320	130	120	88	89	10.5	25-30 Tonne
J450TIGER	J450	360	138	135	100	101	13.4	35-40 Tonne
J550TIGER	J550	380	145	158	119	113	16.0	45-50 Tonne

All measurements in millimetres

TIGER TIP – Premium quality, self sharpening design (MTG)

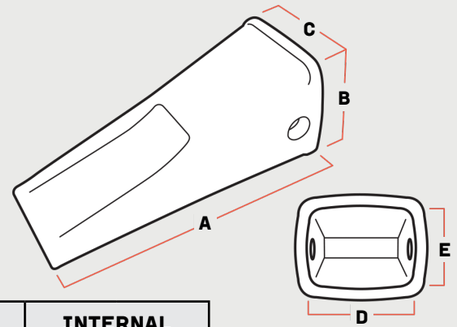


		EXTERNAL			INTERNAL			
PART NO	J-SERIES	A	B	C	D	E	KG	MACHINE SIZE
MC35V1	J350	258	115	105	75	81	5.6	20-25 Tonne
MC40V1	J400	310	130	122	88	89	7.3	25-30 Tonne
MC45V1	J450	340	140	134	100	101	9.4	35-40 Tonne
MC55V1	J550	390	150	158	119	113	13.5	45-55 Tonne

All measurements in millimetres

CAT STYLE J-SERIES BUCKET TEETH

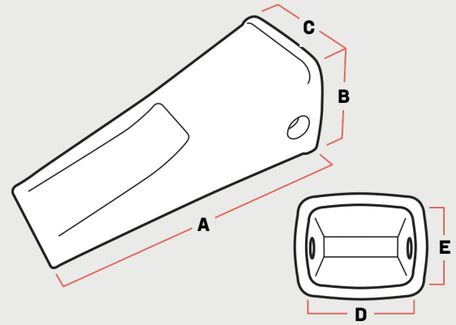
TWIN TIGER TIP



		EXTERNAL			INTERNAL			
PART NO	J-SERIES	A	B	C	D	E	KG	MACHINE SIZE
J250TWIN	J250	213	87	76	56	67	2.8	10-12 Tonne
J300TWIN	J300	242	104	85	67	76	5.6	15-20 Tonne
J350TWIN	J350	286	111	105	75	81	7.0	20-25 Tonne
J400TWIN	J400	320	130	120	88	89	11	25-30 Tonne
J450TWIN	J450	360	138	135	100	101	14.4	35-40 Tonne
J550TWIN	J550	400	150	160	119	113	19	45-50 Tonne

All measurements in millimetres

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

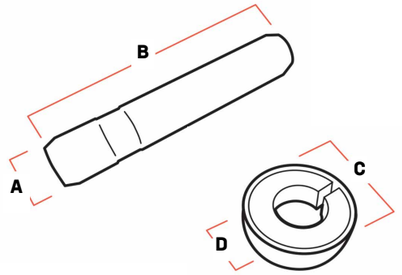


		EXTERNAL			INTERNAL			
PART NO	J-SERIES	A	B	C	D	E	KG	MACHINE SIZE
MC35W1	J350	280	120	106	75	81	7	20-25 Tonne
MC40W1	J400	305	137	120	88	89	9.2	25-30 Tonne
MC45W1	J450	340	140	134	100	101	13	35-40 Tonne
MC55W1	J550	370	155	158	119	113	19	45-50 Tonne

All measurements in millimetres

CAT STYLE J-SERIES BUCKET TEETH

PINS AND RETAINERS



PIN NO	RETAINER NO	A	B	C	D	J-SERIES
8E6208	8E6209	11	60	22	10.6	J200
6Y3228	8E6259	14	67	30	13.6	J220
9J2258	8E6259	14	77	30	13.6	J250
9J2308	8E6259	14	92	30	13.6	J300
9W2678	8E6359	19	106	40	18.5	J350
7T3408	7T3409	22	118	42	21.5	J400
8E0468	8E0469	24	134	44	23.3	J450/J460
1U1558	8E5559	25	162	53	24.5	J550
616608	616609	30	192	59	29	J600

All measurements in millimetres

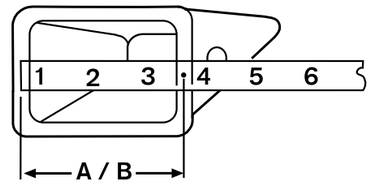
HOW TO IDENTIFY A CAT STYLE TIP:

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

All measurements in millimetres

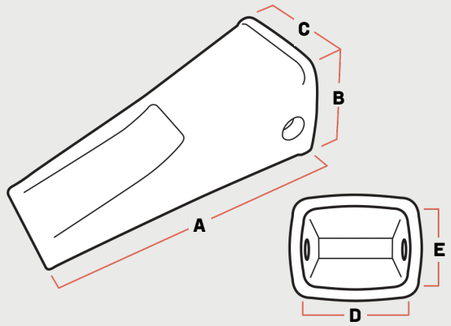
Place a tape measure across the back of the tip at the midpoint of the side walls.



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

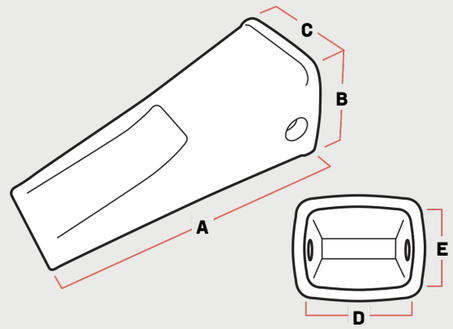
STANDARD TIP



	EXTERNAL			INTERNAL			
PART NO	A	B	C	D	E	KG	MACHINE SIZE
2713-1221	200	85	85	65	65	3.8	10-15 Tonne
K1005018	280	126	126	97	97	11	31-35 Tonne

All measurements in millimetres

ROCK CHISEL TIP

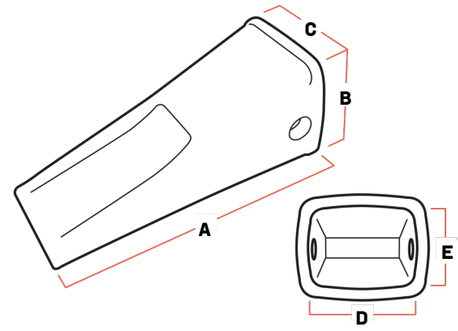


	EXTERNAL			INTERNAL			
PART NO	A	B	C	D	E	KG	MACHINE SIZE
K1000344RC	255	100	95	74	74	6	20-25 Tonne
71300054ARC	280	115	110	80	80	8.5	26-30 Tonne

All measurements in millimetres

DOOSAN STYLE BUCKET TEETH

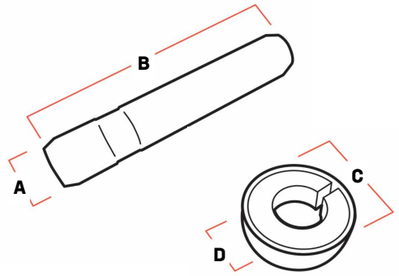
TIGER TIP



	EXTERNAL			INTERNAL			
PART NO	A	B	C	D	E	KG	MACHINE SIZE
71300054AT	295	116	110	80	80	7.3	26-30 Tonne

All measurements in millimetres

PINS AND RETAINERS



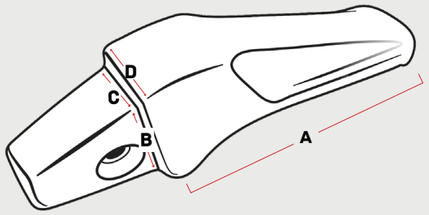
MACHINE	PIN NO	RETAINER NO	A	B	C	D
DX140	2705-1022	2114-1859	18	85	31	17
DX225	2705-1020	2114-1848A	20	99	35	19
DX300	2705-1021	2114-1849A	22	110	37	21
DX340	8E0468	8E0469	24	134	44	23.3

All measurements in millimetres

ESCO CONICAL STYLE ADAPTERS

FLUSHMOUNT ADAPTERS

Fig. 1



2-STRAP ADAPTERS

Fig.2

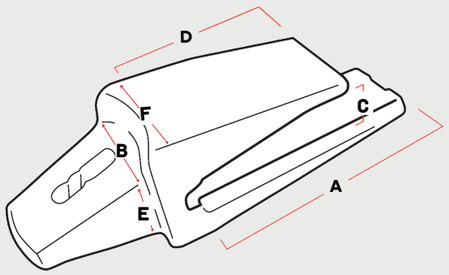


Fig.3

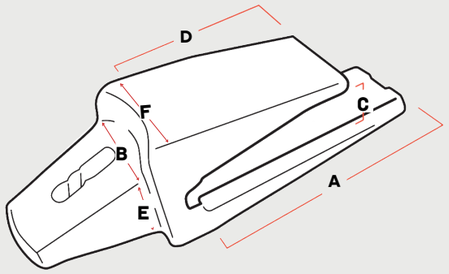
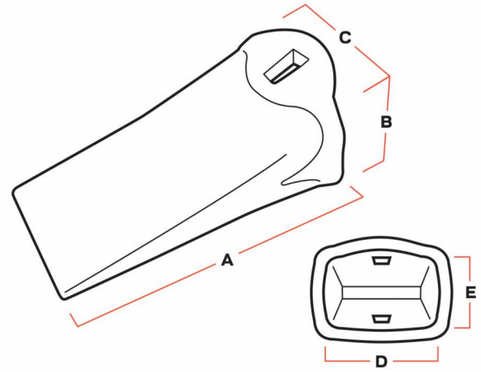


FIG	PART NO	SERIES	A	B	C	D	E	F	KG	MACHINE SIZE
1	MB81	N/A	72	29	40	45	-	-	0.8	1-3 Tonne
2	833-18	18s	124	40	22	60	32	55	1.5	4-6 Tonne
3	23574-22	22s	120	42	26	65	42	56	3	7-8 Tonne
3	A1306-25	25s	160	60	27	110	45	72	4	8-10 Tonne
3	B3210T-30	30s	185	70	35	140	40	86	6	12-15 Tonne
3	B3210T-35	35s	220	85	33	160	45	102	10	15-25 Tonne

All measurements in millimetres

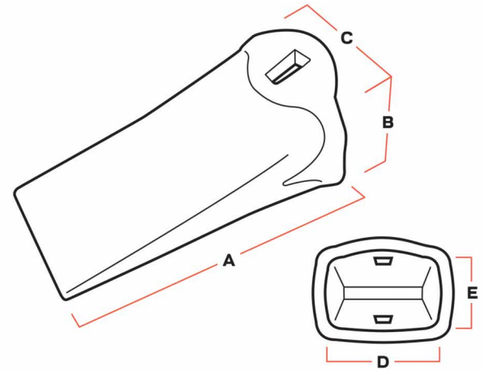
ESCO CONICAL STYLE BUCKET TEETH

MINI TIP RANGE



	EXTERNAL			INTERNAL			
PART NO	A	B	C	D	E	KG	MACHINE SIZE
MB4F	95	46	46	33	35	0.7	1-3 Tonne

All measurements in millimetres

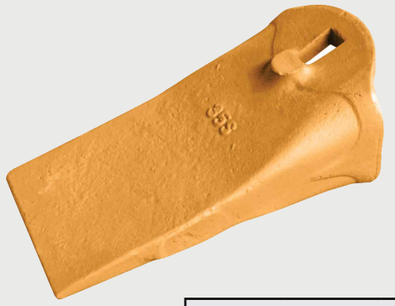


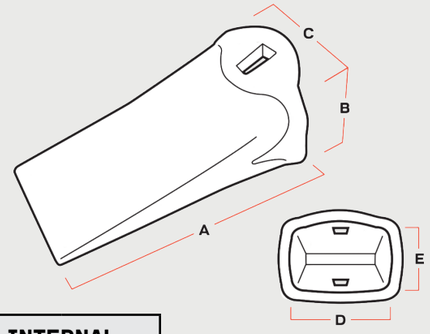
	EXTERNAL			INTERNAL			
PART NO	A	B	C	D	E	KG	MACHINE SIZE
MN18L	120	51	60	40	35	1	4-6 Tonne

All measurements in millimetres

ESCO CONICAL STYLE BUCKET TEETH

STANDARD TIP

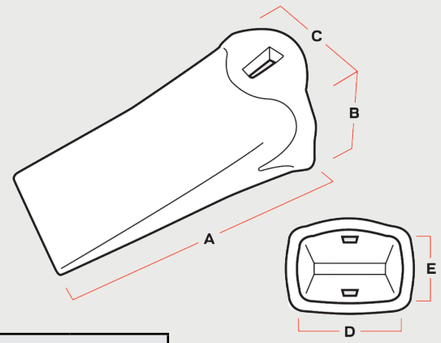




		EXTERNAL			INTERNAL			
PART NO	SERIES	A	B	C	D	E	KG	MACHINE SIZE
BC18S	18S	140	52	62	40	35	1	4-6 Tonne
BC22S	22S	138	64	62	45	45	1.3	7 Tonne
BC25S	25S	178	75	85	62	55	1.7	8-10 Tonne
BC30S	30S	178	78	95	72	50	2.7	10-15 Tonne
BC35S	35S	215	95	112	82	65	4.5	15-25 Tonne
BC40S	40S	225	110	130	98	72	6.4	26-35 Tonne
BC45S	45S	230	120	140	112	75	9.2	36-40 Tonne

All measurements in millimetres

STANDARD TIP – Premium quality, self sharpening design (MTG)

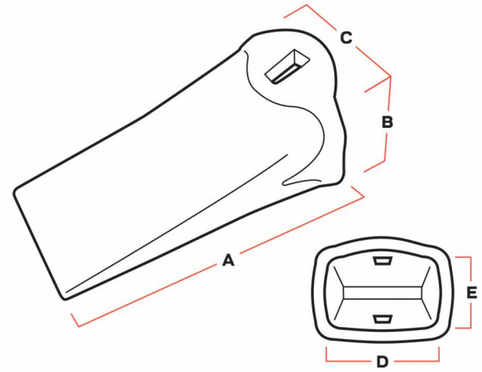


		EXTERNAL			INTERNAL			
PART NO	SERIES	A	B	C	D	E	KG	MACHINE SIZE
MN25S	25S	175	78	80	62	55	2	8-10 Tonne
MN35S	35S	200	90	114	82	65	3.4	15-25 Tonne

All measurements in millimetres

ESCO CONICAL STYLE BUCKET TEETH

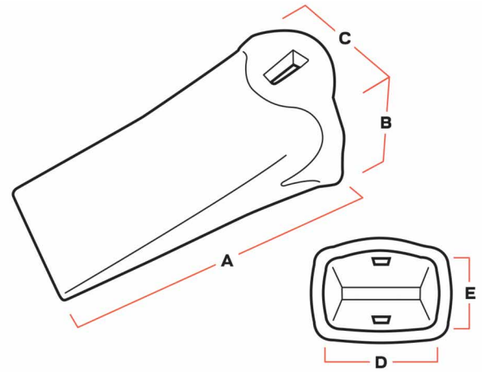
TIGER TIP



		EXTERNAL			INTERNAL			
PART NO	SERIES	A	B	C	D	E	KG	MACHINE SIZE
25VIP	25S	228	80	90	62	55	3	8-10 Tonne
30VIP	30S	215	78	100	72	50	3	10-15 Tonne
35VIP	35S	265	110	120	82	65	6.2	15-25 Tonne

All measurements in millimetres

TWIN TIGER TIP

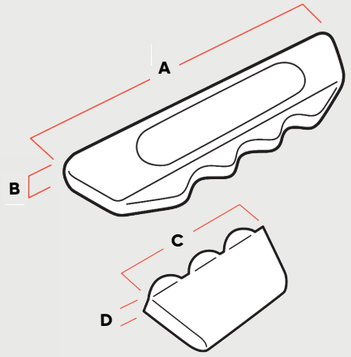


		EXTERNAL			INTERNAL			
PART NO	SERIES	A	B	C	D	E	KG	MACHINE SIZE
18TVIP	18S	150	50	60	40	35	1.1	4-6 Tonne
25TVIP	25S	228	80	89	62	55	3	8-10 Tonne
30TVIP	30S	215	78	100	72	50	3	10-15 Tonne
35TVIP	35S	265	110	120	82	65	6.2	15-25 Tonne

All measurements in millimetres

ESCO CONICAL STYLE PINS & LOCKS

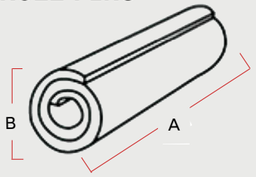
PINS AND LOCKS



PIN	LOCK	A	B	C	D
18PN	18LK	55	7	35	13
22PN	22LK	68	7	44	13
25PN	25LK	72	10	37	11
30PN	30LK	72	10	37	11
35PN	35LK	84	10	47	14
40PN	40LK	100	13	47	14
45PN	45LK	104	13	59	16

All measurements in millimetres

ROLL PINS

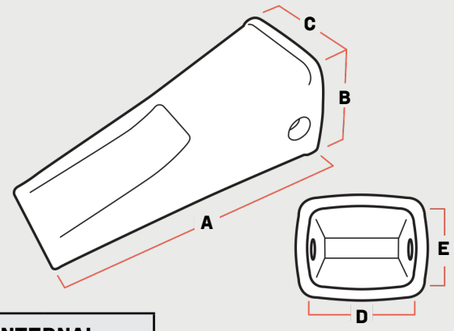


PIN	A	B
MB8	51	8

All measurements in millimetres

HYUNDAI STYLE BUCKET TEETH

STANDARD TIP

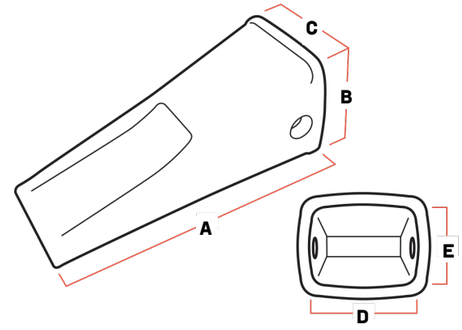


	EXTERNAL			INTERNAL			
PART NO	A	B	C	D	E	KG	MACHINE SIZE
E161-3027	212	90	98	72	60	4	12-21 Tonne
61Q6-31310	225	106	107	72	72	6.5	R210-9
E262-3046	255	105	115	82	80	7.5	26-32 Tonne

All measurements in millimetres

HYUNDAI STYLE BUCKET TEETH

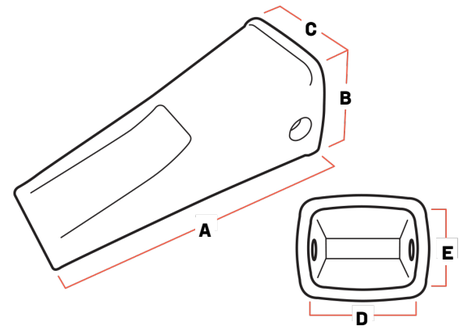
ROCK CHISEL TIP



	EXTERNAL			INTERNAL			
PART NO	A	B	C	D	E	KG	MACHINE SIZE
E161-3027RC	255	90	98	72	60	6	12-21 Tonne
E262-3046RC	295	110	120	82	80	10	26-32 Tonne

All measurements in millimetres

TIGER TIP

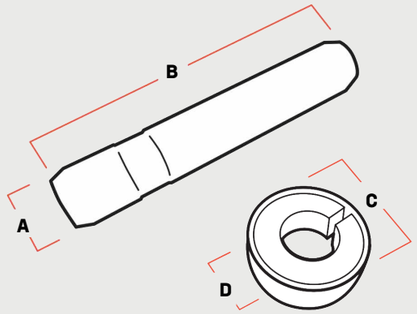


	EXTERNAL			INTERNAL			
PART NO	A	B	C	D	E	KG	MACHINE SIZE
E161-3027T	220	90	98	72	60	4.3	12-21 Tonne
E262-3046T	295	110	120	82	80	9.3	26-32 Tonne

All measurements in millimetres

HYUNDAI STYLE BUCKET TEETH

PINS AND RETAINERS

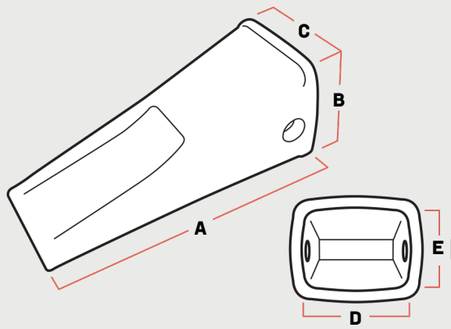


PIN NO	RETAINER NO	A	B	C	D	MACHINE
SB80PN	SB80/235WS	19	101	32	18.6	12-21 Tonne
SB235PN	SB80/235WS	19	116	34	18.6	26-32 Tonne

All measurements in millimetres

KOMATSU STYLE BUCKET TEETH

STANDARD TIP

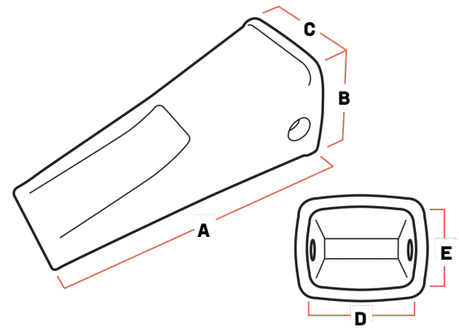


		EXTERNAL			INTERNAL			
PART NO	SERIES	A	B	C	D	E	KG	MACHINE SIZE
205-70-19570	PC120/200	222	100	95	72	82	4.2	10-25 Tonne
207-70-14151	PC300	240	115	120	92	85	6.5	25-35 Tonne

All measurements in millimetres

KOMATSU STYLE BUCKET TEETH

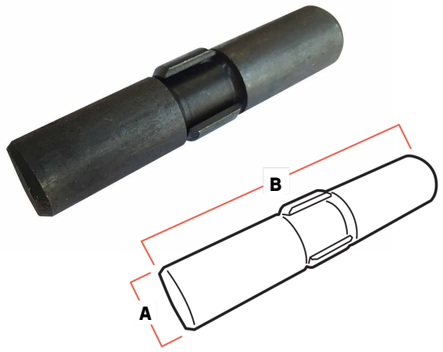
TIGER TIP



		EXTERNAL			INTERNAL			
PART NO	SERIES	A	B	C	D	E	KG	MACHINE SIZE
PC200TL	PC120/200	280	100	95	72	82	6	10-25 Tonne
PC300TL	PC300	330	118	126	92	85	9	25-35 Tonne
PC400TL	PC400	375	130	150	110	95	14	35-42 Tonne

All measurements in millimetres

PIN ASSEMBLY



PIN NO	A	B	MACHINE SIZE
09244-02496	25	97	PC200
175-78-21810	25	118	PC300
09244-03036	30	138	PC400
209-70-54240	36	168	PC650

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 fabricated by West-Trak!

PRE-FABRICATED BUCKET EDGES

ADAPTER WELDING INSTRUCTIONS

WELDING INSTRUCTIONS FOR MTG ADAPTERS

This "Welding Guide" is intended to assist customers with welding GET products. It is a general welding guide and is not all inclusive. Your specific application may require different welding practices. This welding guide is not intended to be used for joint design of buckets or other attachments. West-Trak accepts no responsibility for the misuse or misinterpretation of this information.

Welding Instructions

Processes - Welding may be done by any of the following processes:

- **SHIELDED METAL ARC WELDING (SMAW)**
- **GAS METAL ARC WELDING (GMAW)**
- **FLUX-CORED ARC WELDING (FCAW)**

Consumable - Welding unalloyed and low alloyed consumables.

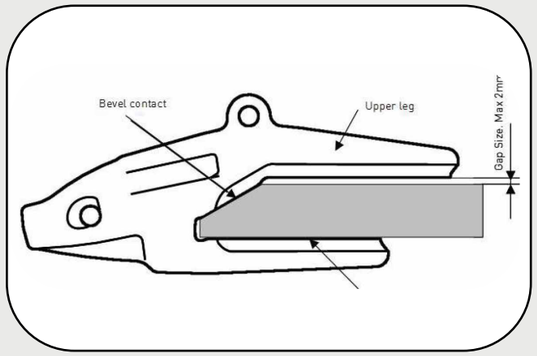
Unalloyed and low-alloyed consumables with tensile strength of up to 500 MPa should be used. Such welding consumables reduce the residual level in the joint and thus reduces the possibility of hydrogen cracking.

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

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

ADAPTER WELDING INSTRUCTIONS

STEP 1:
All mill scale, rust, paint, oil grease, arc air slag or moisture must be removed from the surfaces 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.

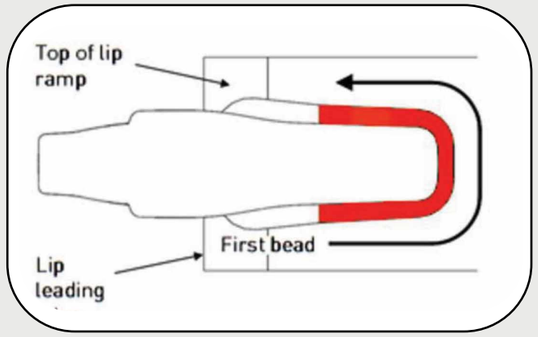


STEP 2:
Place adapter on the lip at the desired location from side to side. Bottom leg and bevel angle should be in full contact with the lip; as shown in figure below. Pack out the top leg if the gap is more than 2mm.

STEP 3:
Preheat the top and bottom of Adapter/ Lip to a temperature between 150C and 180C degrees and maintain this temperature throughout the whole welding process.

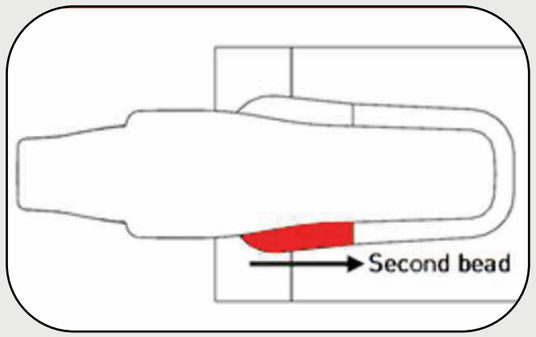
STEP 4:
Apply one 25mm long tack weld at the root of the weld groove on each side of the top leg, midway between the end of the leg and the trailing edge of the lip bevel.

STEP 5:
Begin welding at the center of top leg and weld one pass around the back of the leg to the centre of the opposite side.



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 25mm of the lip leading edge.

STEP 7:
Place a similar bead on the opposite side of the top leg.

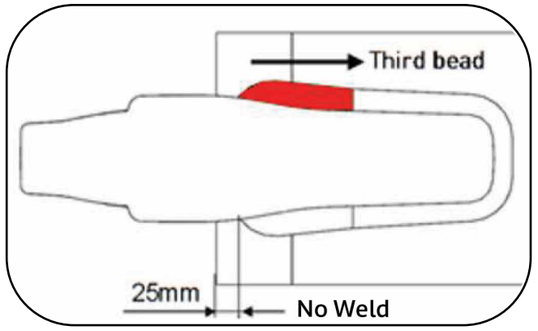


ADAPTER WELDING INSTRUCTIONS

STEP 8:
Repeat this sequence (steps 5, 6 and 7) three times. Vary the lengths of the weld 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 25mm of the lip leading edge.



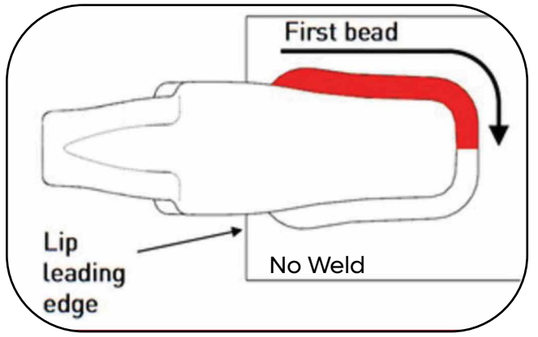
STEP 11:
Begin welding at the front of the weld groove on the opposite side of the leg, joining the initial bead at the back of the leg. Do not weld within 25mm of the lip leading edge.

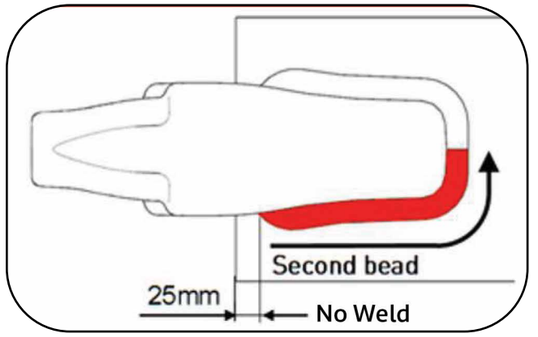
STEP 12:
Repeat this sequence (steps 10 and 11) three times. Vary the lengths of the beads slightly so that the start/stop positions are not at exactly the same location.

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)

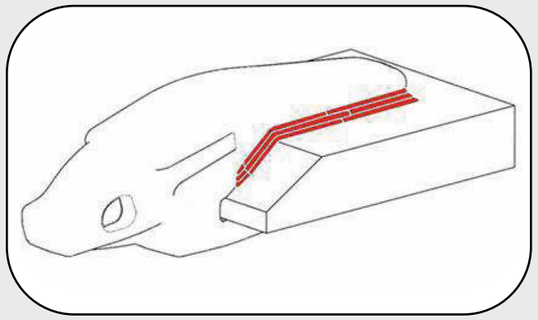
STEP 15:
The leg sizes of the weld fillet must be flush and less than 3mm above the edge of the cast weld groove. In some adapter patterns, the weld groove height decreases near the leading edge of the lip.



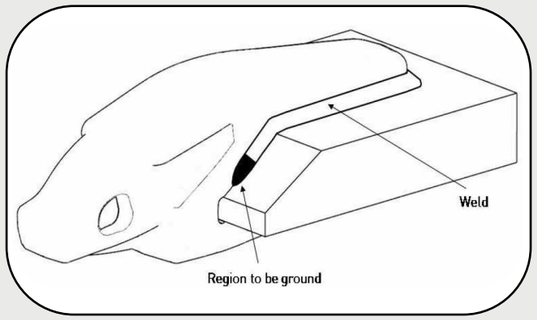


ADAPTER WELDING INSTRUCTIONS

STEP 16:
Once welding is completed, cover all adapters with a thick welding blanket to allow slow cooling. Once adapters have cooled to below 50 degrees, post heat the lip and all adapters back up to 230-250 degrees to destress the welds. Cover adapters with welding blankets again to allow slow cooling.



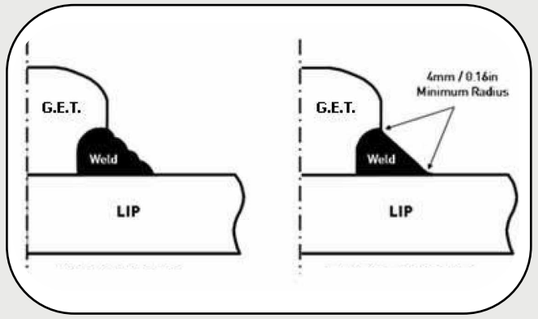
STEP 17:
When welding large adapters, considerable grinding effort can be saved by carefully positioning the starting points of the beads near the leading edge. Start each weld bead slightly behind those of the preceding layer so as to produce a “rounded” weld end.



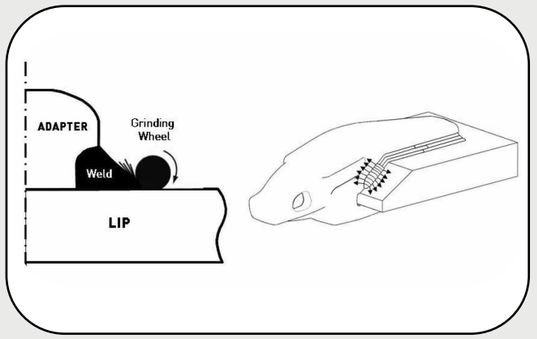
STEP 18:
All adapter welds need to be ground smooth 65-75mm back from the front edge as indicated in the figure. All welds on both the top and bottom sides should be ground in this area to reduce fatigue cracking. (Air-arcing the weld toes off will also help reduce cracking)

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 45mm.

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.



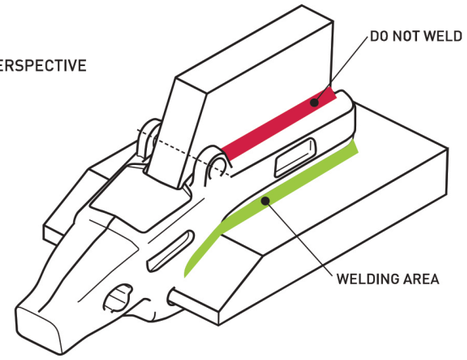
Grinding at the toes of the welds can be done by the use of cone-shaped grinding wheels. For final grinding, the abrasive may be no coarser than 24 Grit.



ADAPTER WELDING INSTRUCTIONS

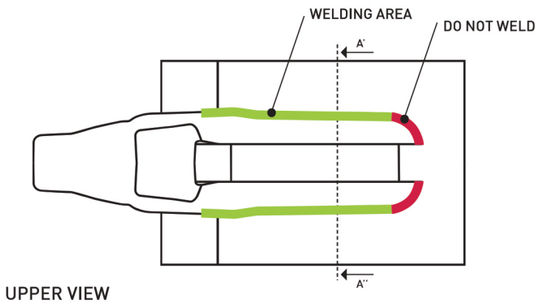
WELDING INSTRUCTIONS FOR STRADDLE LEG ADAPTERS

PERSPECTIVE

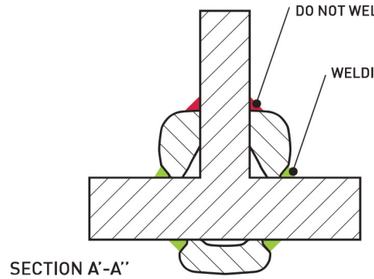


WELDING AREAS

1. Place the adapter on the lip and ensure a good fit with the lip bevel
2. Follow the Adapter Welding instructions as on previous pages
3. Weld the bottom leg in the same way as specified for two strap adapters
4. Weld the top leg as specified in the following figures



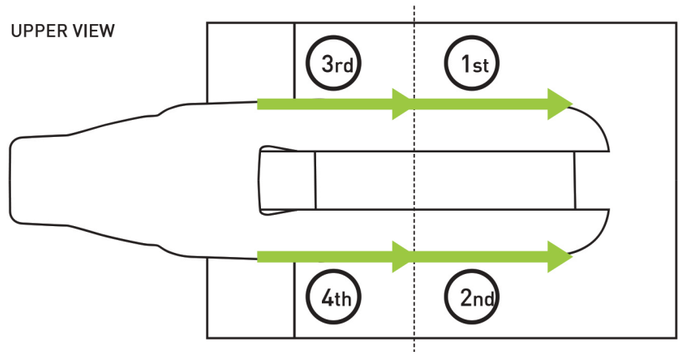
UPPER VIEW



SECTION A'-A''

Welding process

UPPER VIEW



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