

HITACHI

Reliable solutions

70th
Anniversary

TRUE QUALITY GOES A LONG WAY

G.E.T. (GROUND ENGAGING TOOLS) PARTS PRODUCT BROCHURE





With our Ground Engaging Tools (GET), you can expect even greater productivity from your fleet.



FEATURES

No matter what your working style or site type, we have the Ground Engagement Tools you need. Our lips, tips, adaptors and shrouds meet Hitachi's exacting quality standards.

Our strict quality control ensures a perfect fit between each tooth and adapter, eliminating the excessive play and pressure that can cause detachment or excessive wear. Rigorous inspection ensures that all our bucket teeth offer excellent resistance for enhanced durability and reliability.

- Manufactured from high-grade steel for improved penetration and increased digging power.
- Tested to Hitachi Africa Construction Equipment standards.
- Easy installation and removal for reduced downtime and maintenance costs.
- Complete mining excavator bucket parts offering including lip and wing shrouds, adapters and corner adapters.
- Multiple tip options suitable for general-purpose high abrasion and heavy-duty applications:
 - Sabre Tooth – sharp, durable tooth for shale and clay.
 - Long Penetration – ideal for sand or blasted materials.
 - Rock Penetration – excellent all-round point design for heavy and high-impact conditions.
 - Heavy Penetration – maximum productivity in rocky environments.
 - Extra Penetration – engineered for compacted clay, unweathered soil and heavy frost.
- Solutions for other mining machines available.

HITACHI AFRICA

High-quality, reliable and durable parts for cost-effective operation, increased productivity and higher equipment resale values. Combined with our nationwide network of offices and dealer and our integrated early warning scheduled maintenance programme, our parts let you achieve maximum productivity and profitability.

- With over 50 years industry experience.
- 40 000-plus item inventory.
- Facilities in South Africa, Zambia, Botswana, Mauritius, Namibia, Zimbabwe and Mozambique.
- 24/7/365 standby service.
- Same-day dispatch and overnight delivery.
- Rapid ordering and shipping of non-stock items.
- Customer parts requirement forecasting through the Global e-Service solution.

- Parts ordered before they become urgent.
- Great value parts for older machines.
- Full manufacturer's warranty.

We remanufacture equipment in South Africa at up to 40% less than the price of new parts, but with the same warranties.

HOW TO ORDER G.E.T. PARTS

Contact your nearest Hitachi Dealer or email:

info@hmca.co.za

Please include the Make, Model, Lip Thickness and your current G.E.T. Type and Layout.

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BREAK NEW GROUND



SECTION 1: MINING MACHINERY

EX1200

120 TONNES

OPERATING WEIGHT:
111 000 - 114 000 kg
Bucket:
5.2-6.7 m³

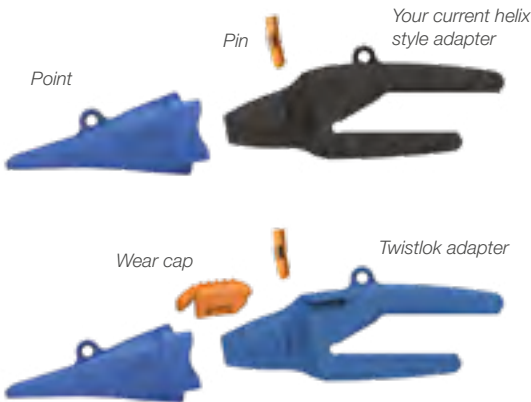


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Twistlok™

Bradken's Twistlok™ Mining- and Construction-sized G.E.T. system offers point designs to suit every application. The positive locking point to adapter nose relationship maximises fit surface contact to enable even distribution of digging forces.

The locking pin's unique metal and bonded rubber design ensures maximum positive retention throughout point life for superior performance in extreme conditions. Changing systems is unnecessary thanks to the simple, secure fit to your current adapter system.



MACHINE KEY:



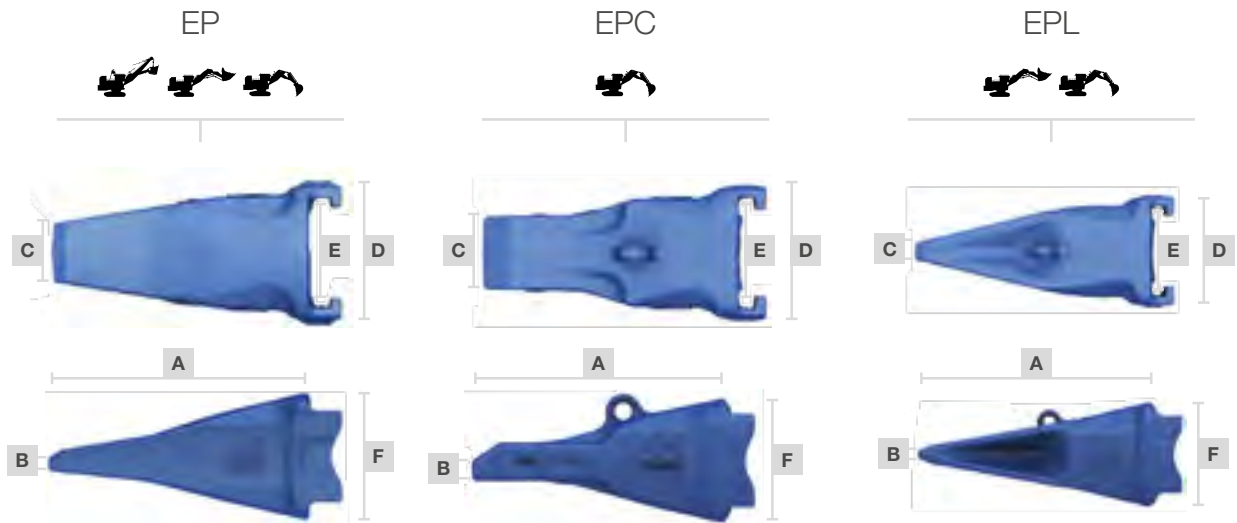
Face Shovel



Mining Backhoe

Parts

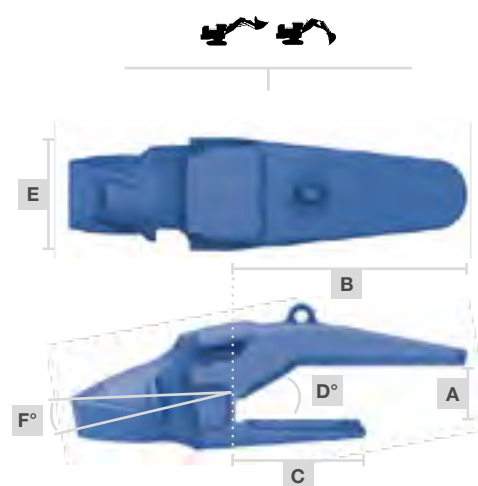
T710 Points



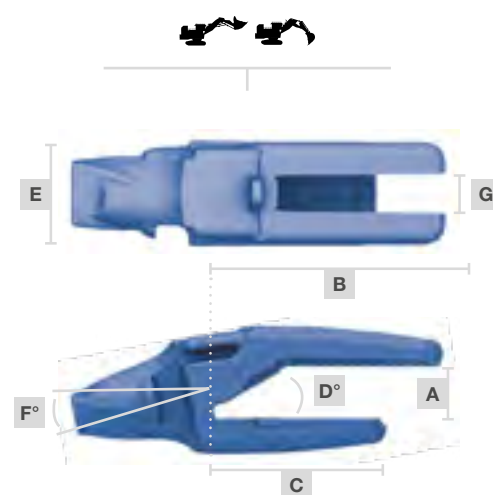
Part No.	A		B		C		D		E		F		Mass	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
T710EP	462	18.2	18	0.7	108	4.3	230	9.1	187	7.4	212	8.3	50	110.2
T710EPC	440	17.3	35	1.4	126	5	230	9.1	187	7.4	212	8.3	48	105.8
T710EPL	506	19.9	12	0.5	37	1.5	230	9.1	187	7.4	212	8.3	48	105.8

T710 Adapters

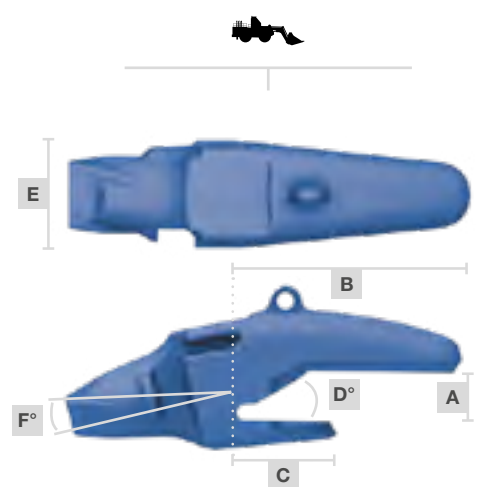
TOP LEG (TL)



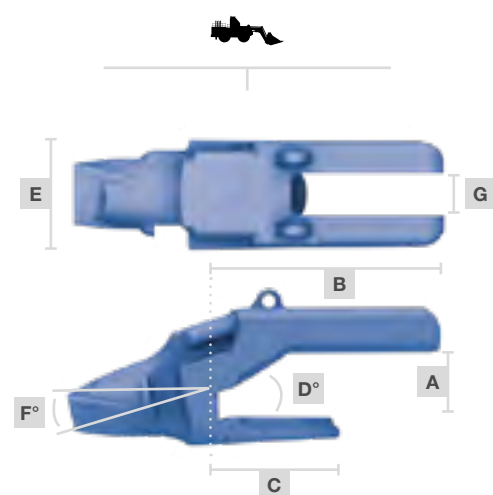
STRADDLE (STR)



TOP LEG (TL)



STRADDLE (STR)



Part No.	Type	A		B		C		D°	E		F°	G		Mass	
		mm	in	mm	in	mm	in		mm	in		mm	in	kg	lb
T710-ET1	TL	100	3.9	455	17.9	345	13.6	30	206	8.1	10			123	271.2
T710-ES1	STR	100	3.9	453	17.8	344	13.5	30	207	8.1	10	81	3.2	112	246.9
T710-LT1	TL	90	3.5	416	16.4	186	7.3	30	202	8	14			105	231.5
T710-LS1	STR	90	3.5	433	17	202	8	30	224	8.8	14	81	3.2	128	282.2
T710-LT2	TL	100	3.9	416	16.4	186	7.3	30	202	8	14			103	227.1
T710-LS2	STR	100	3.9	433	17	202	8	30	224	8.8	14	81	3.2	127	280

Note:

- Dimension 'A' indicates the suitable lip size
- All above parts use the Wear cap (Part No.): **T710WC1**

T710 Locking Pin

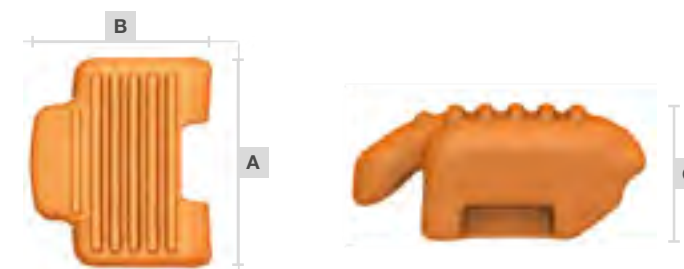


Part No.	A		Mass	
	mm	in	kg	lb
T710PN	156	6.1	1	2.2
T710PNA	168	6.6	1	2.2

Note:

- T710PNA supersedes T710PN

T710 Wear Cap

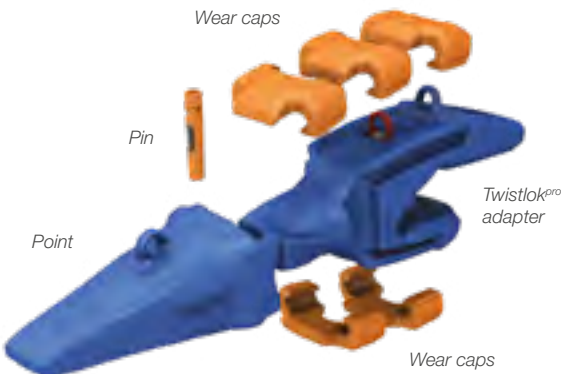


Part No.	A		B		C		Mass	
	mm	in	mm	in	mm	in	kg	lb
T710WC1	232	9.1	201	7.9	97	3.8	13	28.7

Twistlok^{pro}

Twistlok^{pro} is the next stage in the evolution of Bradken's Plate Lip G.E.T. system for mining-class excavators, rope shovels and front-end loaders. Twistlokpro draws on Bradken's expertise in lip design to provide:

- Fast, safe and hammer-free point and locking pin installation.
- Prolonged adapter life thanks to optional common wear caps on both the top and bottom leg, including straddle leg adapters.
- Improved point styles for longer point life.
- Safe removal of adapters with lifting points protected from material wash and damage.
- Interchangeable with existing TwistlokTM adapters and any competitor adapter with a helix-style nose.



MACHINE KEY:



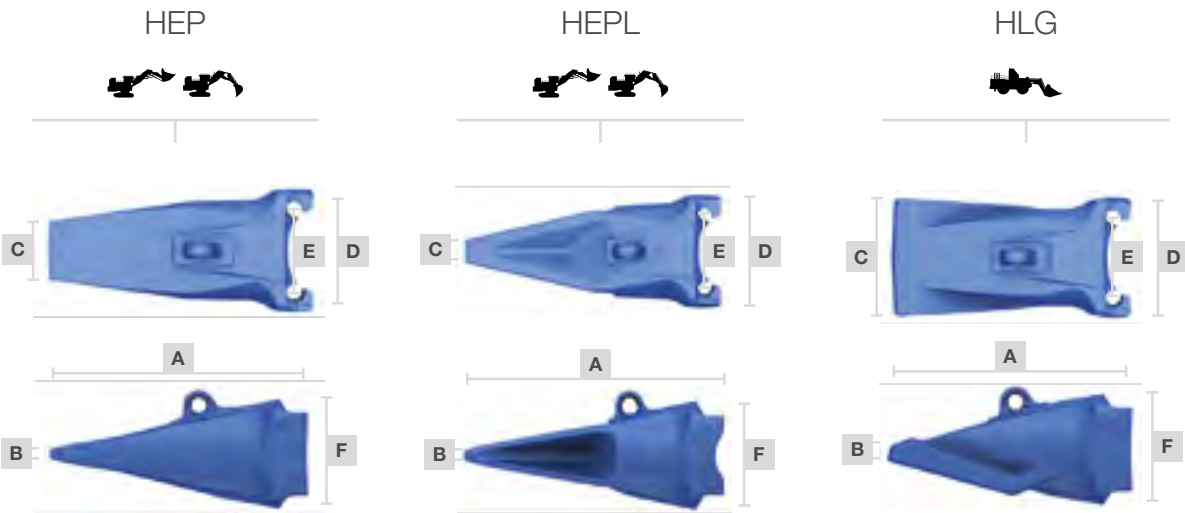
Face Shovel



Mining Backhoe

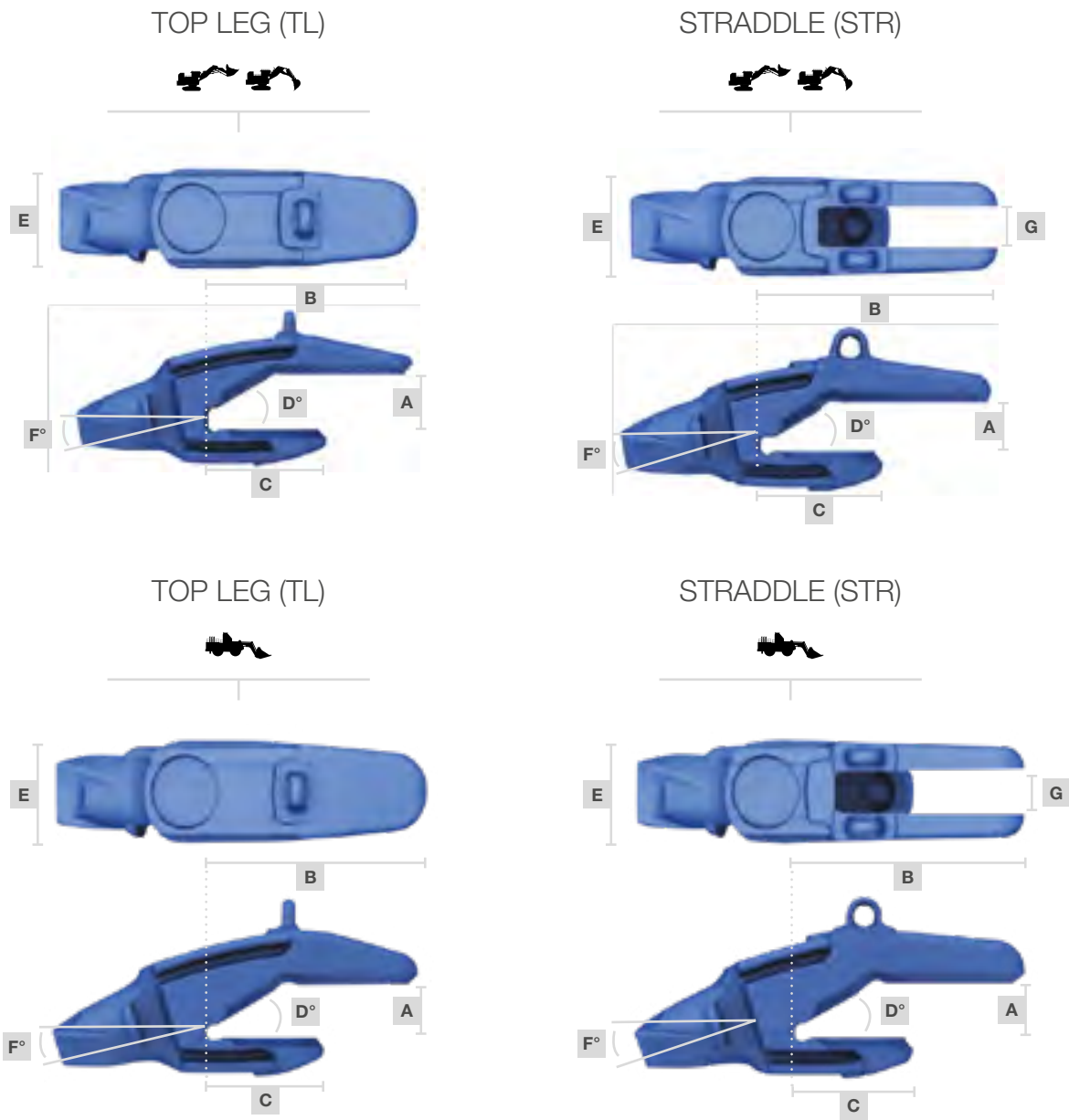
Parts

T710 (PRO) Points



Part No.	A		B		C		D		E		F		Mass	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
T710HEP	454	17.9	21	0.8	114	4.5	240	9.4	197	7.8	217	8.5	55	121.3
T710HEPL	498	19.6	21	0.8	42	1.7	240	9.4	197	7.8	217	8.5	54	119
T710HLG	425	16.7	32	1.3	234	9.2	240	9.4	197	7.8	217	8.5	64	141.1

T710 (PRO) Adapters



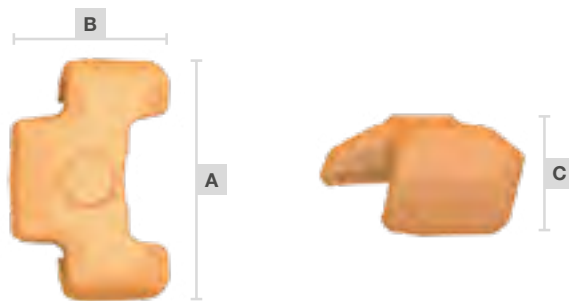
Part No.	Type	A		B		C		D°	E		F°	G		Mass		Wear Cap Qty.
		mm	in	mm	in	mm	in		mm	in		mm	in	kg	lb	
T710-ET4	TL	100	3.9	445	17.5	247	9.7	30	204	8.0	10			108	238.1	5
T710-ES4	STR	100	3.9	468	18.4	247	9.7	30	204	8.0	10	81	3.2	101	222.7	4
T710-LT4	TL	100	3.9	419	16.5	234	9.2	30	204	8	17			122	269	5
T710-LT5	TL	100	3.9	419	16.5	209	8.2	22.5	231	9.1	14			117	257.9	5
T710-LS4	STR	100	3.9	446	17.6	229	9	30	226	8.9	17	81	3.2	127	280	4

Note:

- All above parts use the (PRO) Wear cap (Part No.): **T710WC2**

T710 (PRO) Locking Pin

Part No.	A		Mass	
	mm	in	kg	lb
T710-690HPN	155	6.1	0.9	2.0

T710 (PRO) Wear Cap

Part No.	A		B		C		Mass	
	mm	in	mm	in	mm	in	kg	lb
T710WC2	227	8.9	147	5.8	88	3.5	6.5	14.3



EX1900-2500-2600

SECTION 1: MINING MACHINERY

EX¹⁹⁰⁰⁻²⁵⁰⁰⁻²⁶⁰⁰**200-250-260 TONNES**

OPERATING WEIGHT:
 191 000 kg - 254 000 kg
 Bucket:
 4.4-12.0 m³, 17.0 m³



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MACHINE KEY:



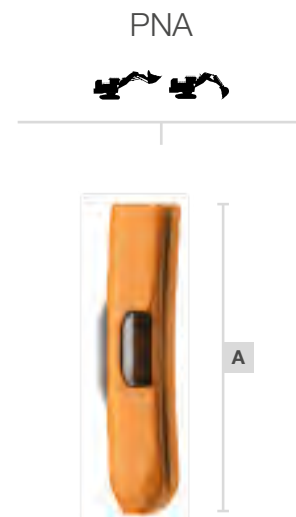
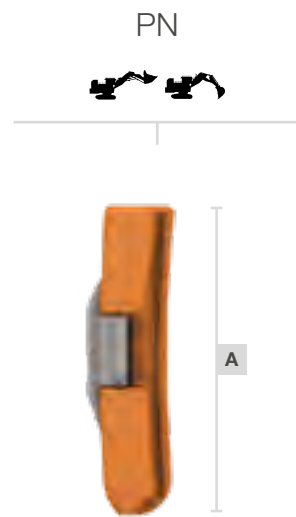
Face
Shovel



Mining
Backhoe

Parts

T810 Locking Pin

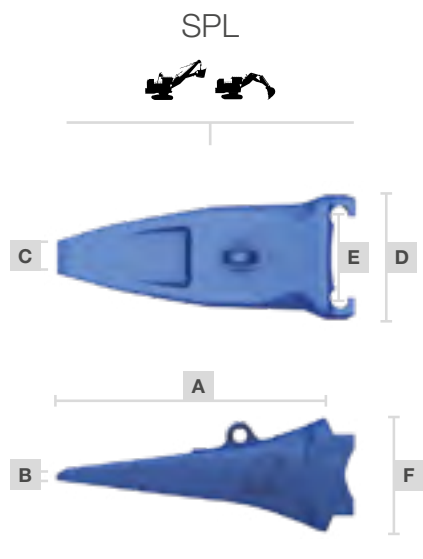
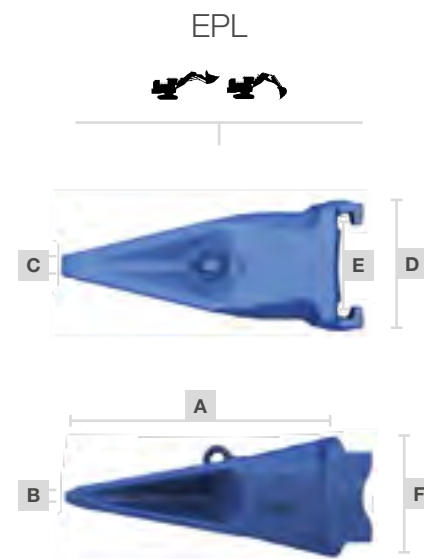
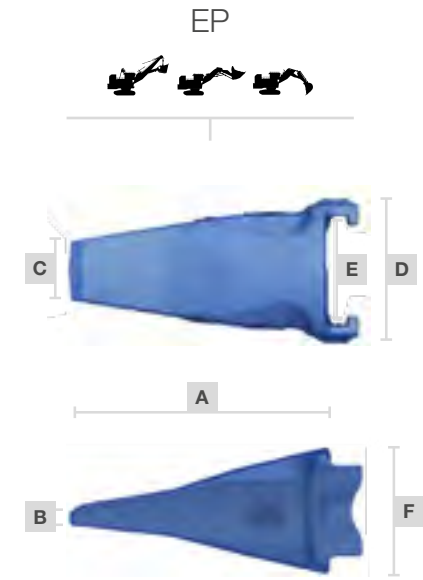
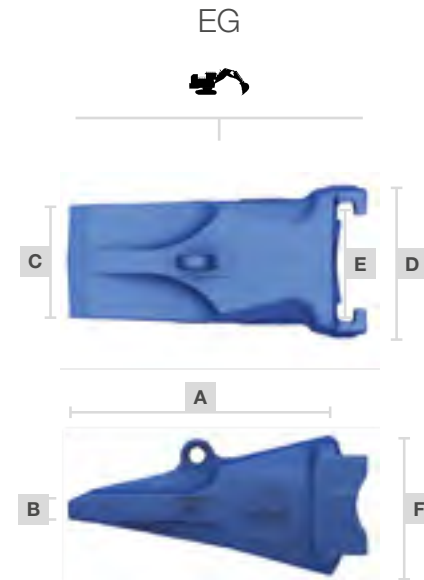


Part No.	A		Mass	
	mm	in	kg	lb
T810PN	195	7.7	1.5	3.3
T810PNA	196	7.7	1.5	3.3

Note:

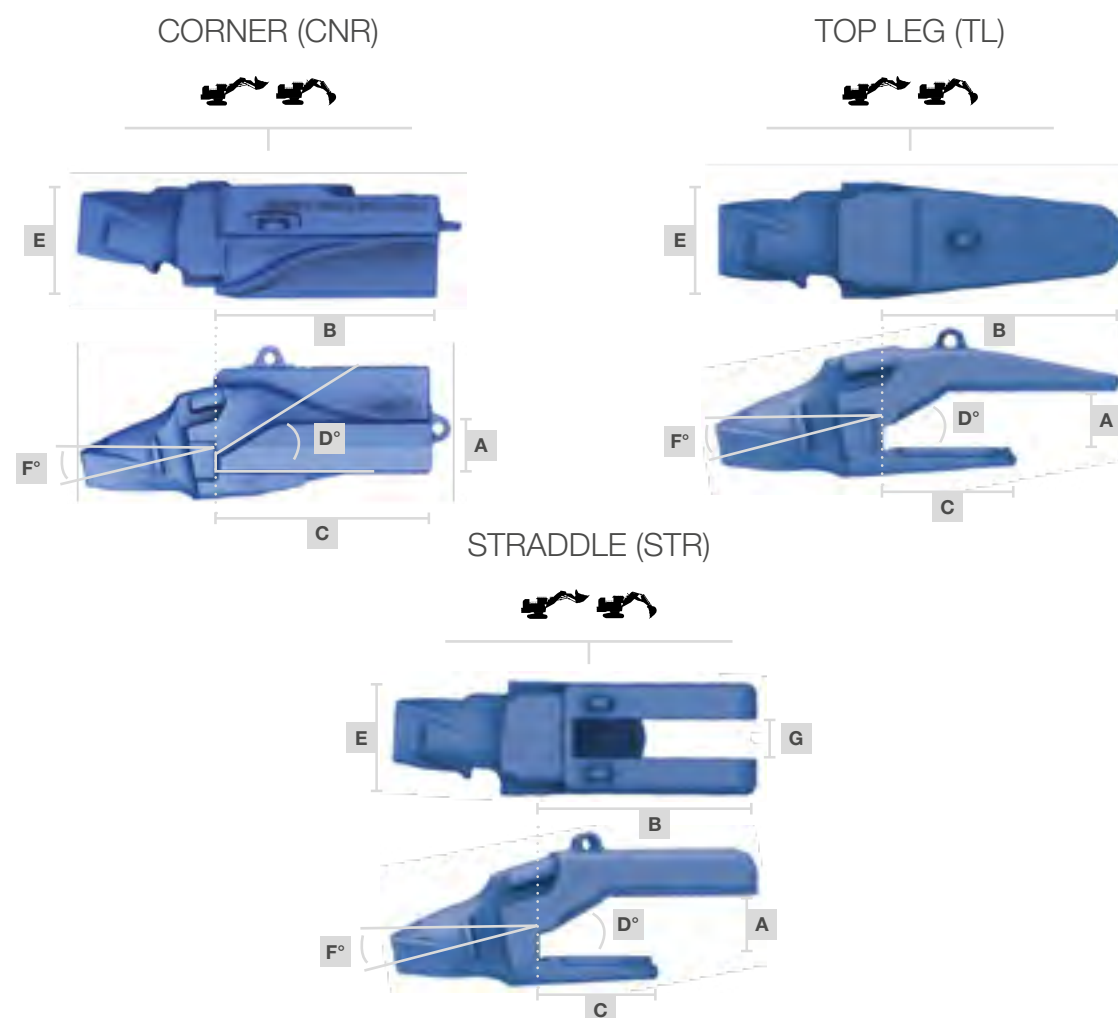
- T810PNA supersedes T810PN

T810 Points



Part No.	A		B		C		D		E		F		Mass	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
T810EG	493	19.4	36	1.4	205	8.1	280	11	217	8.5	256	10.1	83	183
T810EP	523	20.6	27	1.1	119	4.7	280	11	217	8.5	256	10.1	81	178.6
T810EPL	586	23.1	22	0.9	46	1.8	280	11	217	8.5	256	10.1	79	174.2
T810SPL	610	24	21	0.8	79	3.1	280	11	217	8.5	256	10.1	86	189.6

T810 Adapters

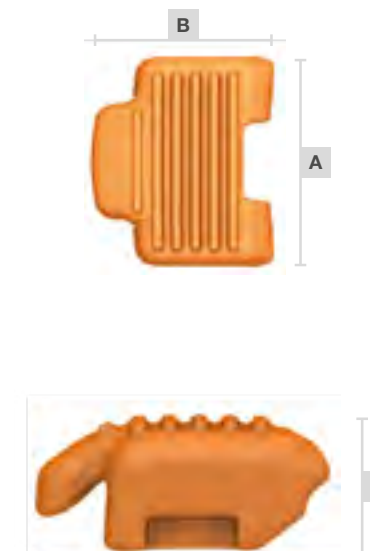


Part No.	Type	A		B		C		D°	E		F°	G		Mass		Wear Cap
		mm	in	mm	in	mm	in		mm	in		mm	in	kg	lb	
T810-ECL1	CNR	120	4.7	526	20.7	526	20.7	30	273	10.7	10			291	641.5	T810WC3
T810-ECR1	CNR	120	4.7	526	20.7	526	20.7	30	273	10.7	10			291	641.5	T810WC3
T810-ECL2	CNR	140	5.5	532	20.9			30	278	10.9	11			289	637.1	T810WC3
T810-ECR2	CNR	140	5.5	532	20.9			30	278	10.9	11			289	637.1	T810WC3
T810-ET1	TL	120	4.7	514	20.2	291	11.5	30	255	10	10			170	374.8	T810WC2
T810-ESL1	STR	120	4.7	509	20	204	8	30	287	11.4	10	91	3.6	182	401.2	T810WC4
T810-ESR1	STR	120	4.7	509	20	204	8	30	287	11.3	10	91	3.6	182	401.2	T810WC4
T810-ET2	TL	143	5.6	559	22	327	12.9	30	260	10.2	10			177	390.2	T810WC2
T810-ESL2	STR	143	5.6	518	20.4	289	11.4	30	270	10.6	10	92	3.6	190	418.9	T810WC5
T810-ESR2	STR	143	5.6	518	20.4	289	11.4	30	270	10.6	10	92	3.6	190	418.9	T810WC5

Note:

- Dimension 'A' indicates the suitable lip size

T810 Wear Caps

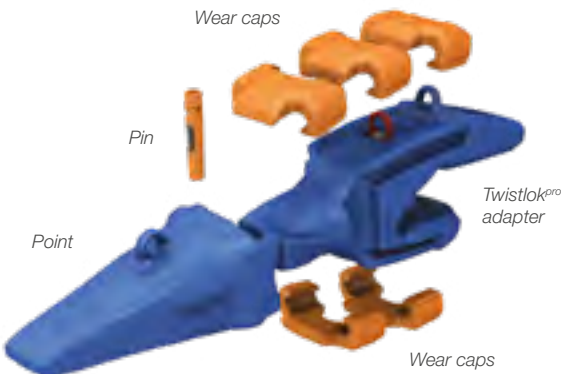


Part No.	A		B		C		Mass	
	mm	in	mm	in	mm	in	kg	lb
T810WC2	267	10.5	219	8.6	129	5.1	20	44.1
T810WC3	265	10.4	164	6.5	125	4.9	13	28.7
T810WC4	297	11.7	217	8.5	128	5	19	41.9
T810WC5	267	10.5	215	8.5	128	5	19	41.9
T810WC6	255	10	259	10.2	117	4.6	25	55.1

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MACHINE KEY:



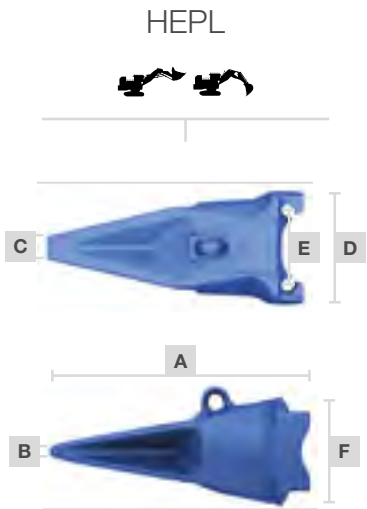
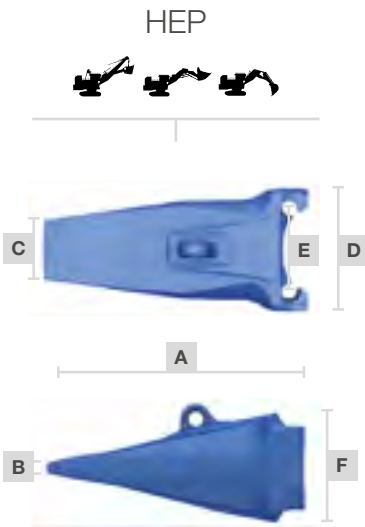
Face Shovel



Mining Backhoe

Parts

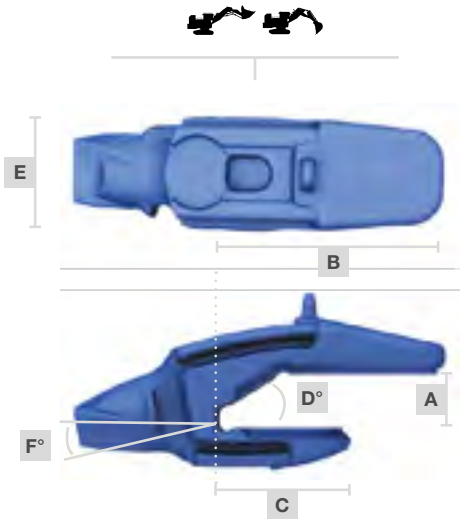
T810 (PRO) Points



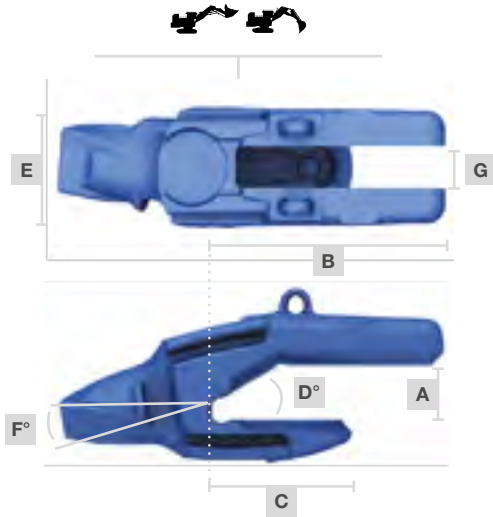
Part No.	A		B		C		D		E		F		Mass	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
T810HEP	516	20.3	31	1.2	130	5.1	280	11	228	9	270	10.6	94	207.3
T810HEPL	572	22.5	24	0.9	57	2.2	280	11	228	9	266	10.5	84	185.2

T810 (PRO) Adapters

TOP LEG (TL)



STRADDLE (STR)



Part No.	Type	A		B		C		D°	E		F°	G		Mass		Wear Cap Qty.
		mm	in	mm	in	mm	in		mm	in		mm	in	kg	lb	
T810-ET3-N*	TL	120	4.7	516	20.3	293	11.5	30	258	10.2	10			190	418.9	5
T810-ESL3	STR	120	4.7	519	20.4	313	12.3	30	267	10.5	10	92	3.6	186	410.1	4
T810-ESR3	STR	120	4.7	519	20.4	313	12.3	30	267	10.5	10	92	3.6	186	410.1	4
T810-ET4-N*	TL	140	5.5	559	22	336	13.2	30	258	10.2	10			179	394.6	5
T810-ESL4	STR	140	5.5	519	20.4	313	12.3	30	267	10.5	10	92	3.6	177	390.2	4
T810-ESR4	STR	140	5.5	519	20.4	313	12.3	30	267	10.5	10	92	3.6	177	390.2	4

Note:

- -N* is removed from the top leg adapter part number for RUD lifting lug version. Lifting lugs are not available on straddle leg adapters
- All above parts use the (PRO) Wear cap (Part No.): **T810WC7**

T810 (PRO) Locking Pin

Part No.	A		Mass	
	mm	in	kg	lb
T810HPN	183	7.2	1.2	2.6

T810 (PRO) Wear Cap

Part No.	A		B		C		Mass	
	mm	in	mm	in	mm	in	kg	lb
T810WC7	272	10.7	176	6.9	107	4.2	12	26.5



SECTION 1: MINING MACHINERY

EX3500-3600**350-360 TONNES****OPERATING WEIGHT:**

359 000 kg - 362 000 kg

Bucket:

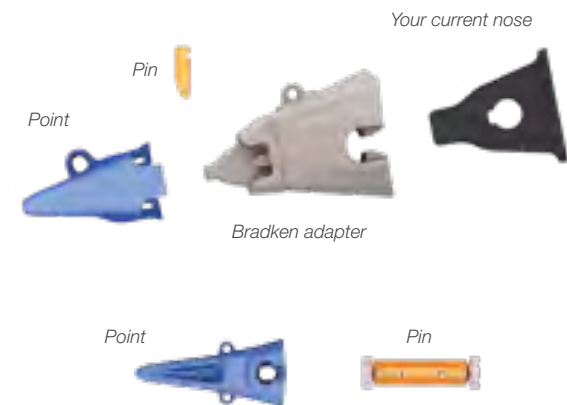
22.0 m³

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Penetrator™

Bradken's Penetrator™ complete lip system features a cast lip, adapter and point; or cast lip and solid point. Designed to meet the toughest digging conditions for Dragline, Face Shovel, Hoe Excavator and Dredging applications, the Penetrator™ adapter prioritises safety. It incorporates hammerless adapter retention that can be retrofitted to cast lip noses.

Engineered to fit onto the Penetrator™ adapter, the Penetrator™ point can be used as a Direct Replacement Part (DRP) with Bradken's extensive range of point designs. With the Bradken locking pin, there is no need to change systems - simply fit the Penetrator™ adapter and/or Penetrator™ point.



MACHINE KEY:



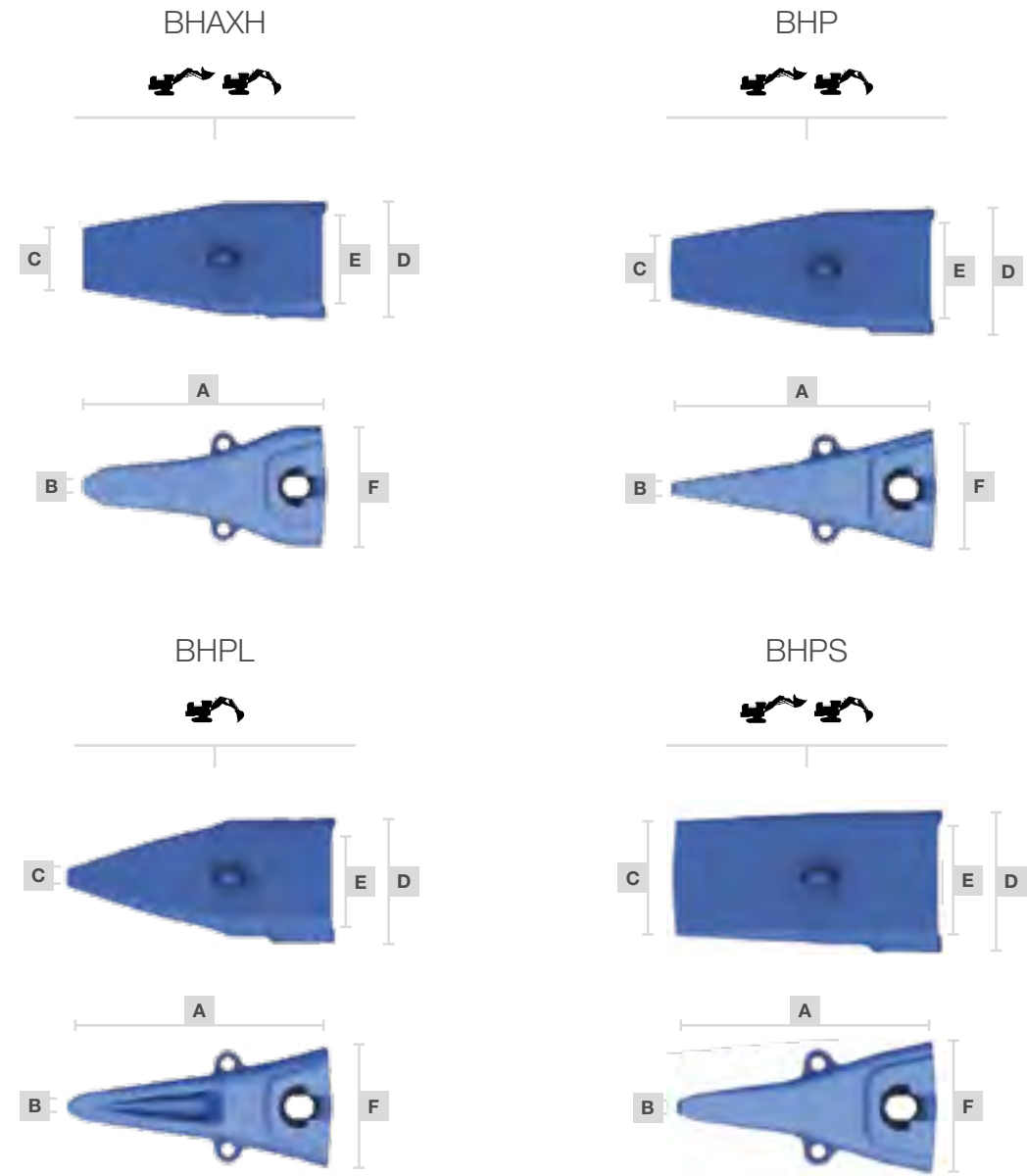
Parts

PPS9 - 9 Series Wear Caps



Part No.	A		B		C		Mass	
	mm	in	mm	in	mm	in	kg	lb
PA9WC1	290	11.4	164	6.5	120	4.7	18	39.7
PA9WC2	290	11.4	159	6.3	122	4.8	16	35.3

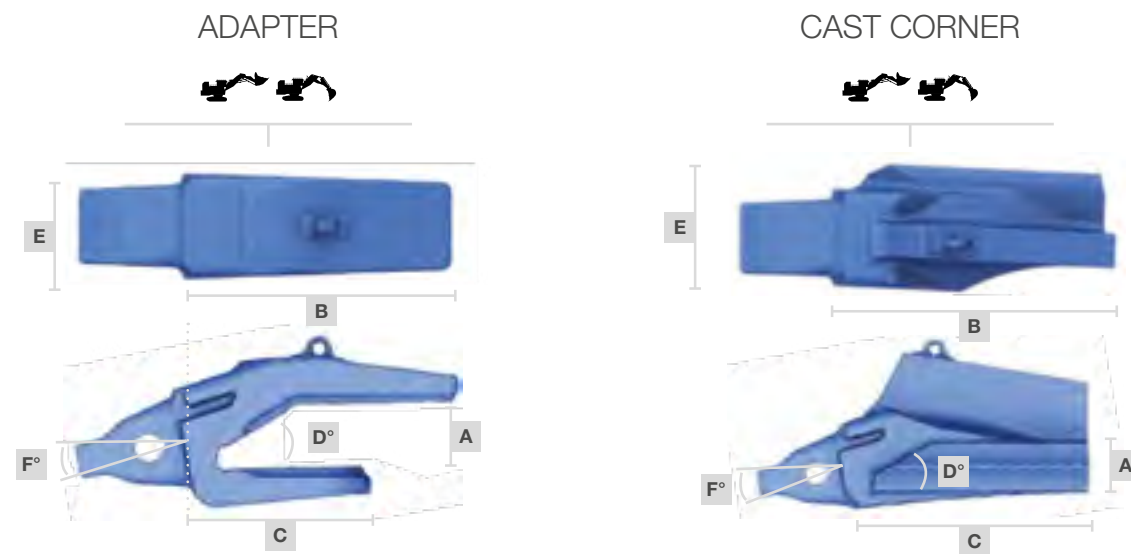
PPS9 - 9 Series Points



Part No.	A		B		C		D		E		F		Mass	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
PPS9BHAXH	594	23.4	37	1.5	151	5.9	288	11.3	201	7.9	297	11.7	150	330.7
PPS9BHP	594	23.4	25	1	137	5.4	282	11.1	201	7.9	286	11.3	107	235.9
PPS9BHPL	601	23.7	20	0.8	40	1.6	282	11.1	201	7.9	286	11.3	104	229.3
PPS9BHPS	535	21.2	27	1.1	230	9.1	282	11.1	201	7.9	286	11.3	108	238.1

- Note:**
- * Alternative alloy available for high impact conditions for all point styles. Alternative part number is designated by "-1" suffix.
 - All above parts use the Pin Lock (Part No.): **PLPS9HA**

PPS9 - 9 Series Adapters



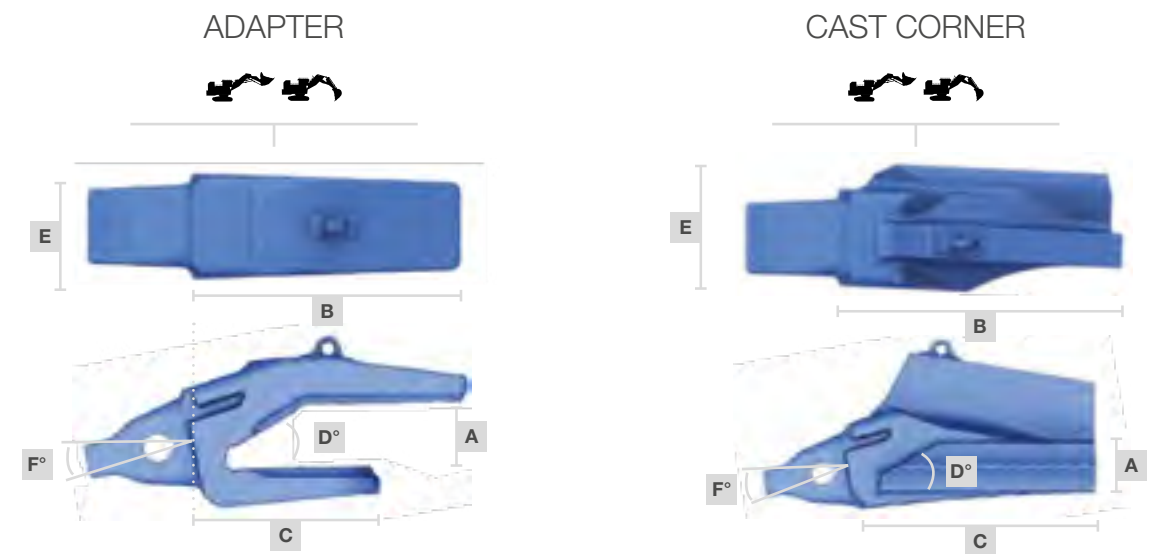
Part No.	A		B		C		D°	E		F°	Mass		Wear Cap
	mm	in	mm	in	mm	in		mm	in		kg	lb	
PA9-T1	143	5.6	562	22.1	354	13.9	30	259	10.2	10	220	485	PA9WC1
PCWL9	137	5.4	607	23.9	527	20.7	30	330	13	10	393	866.4	PA9WC2
PCWR9	137	5.4	607	23.9	527	20.7	30	330	13	10	393	866.4	PA9WC2

PPS9 - 9 Series Bradken Solid Point Pin



Part No.	A		Mass		In-Hex
	mm	in	kg	lb	
PLPS9HA	268	10.6	5.4	11.9	14

PPS10 - 10 Series Adapters



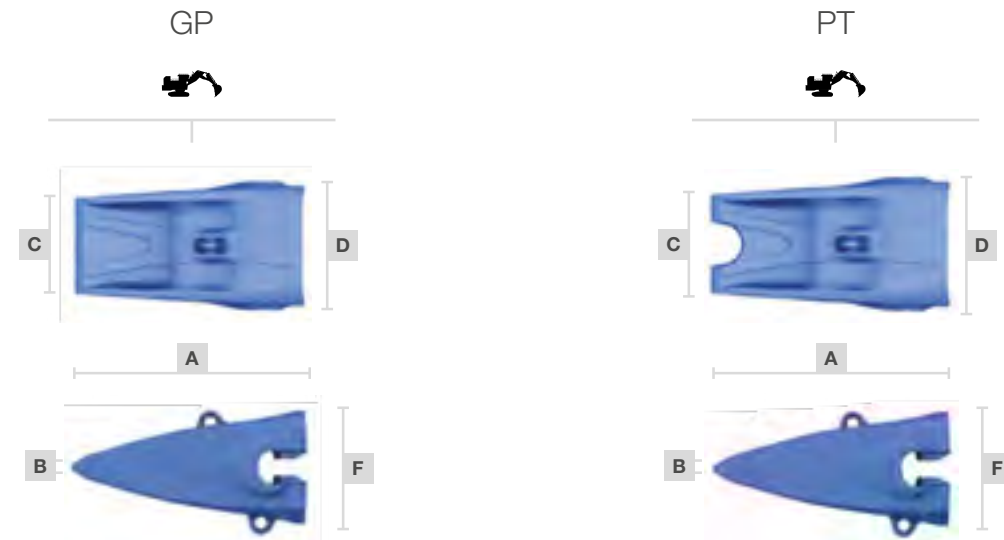
Part No.	A		B		C		D°	E		F°	Mass		Wear Cap
	mm	in	mm	in	mm	in		mm	in		kg	lb	
PA10-T1	TBA												PA10WC1
PA10-T2	164	6.5	635	25	355	14	30	308	12.1	10	293	646	PA10WC1
PCWL10	160	6.3	683	26.9	661	26	30	410	16.1	10	717	1580.7	PA10WC2
PCWR10	160	6.3	683	26.9	661	26	30	410	16.1	10	717	1580.7	PA10WC2

B Series Bradken Adapter Pin



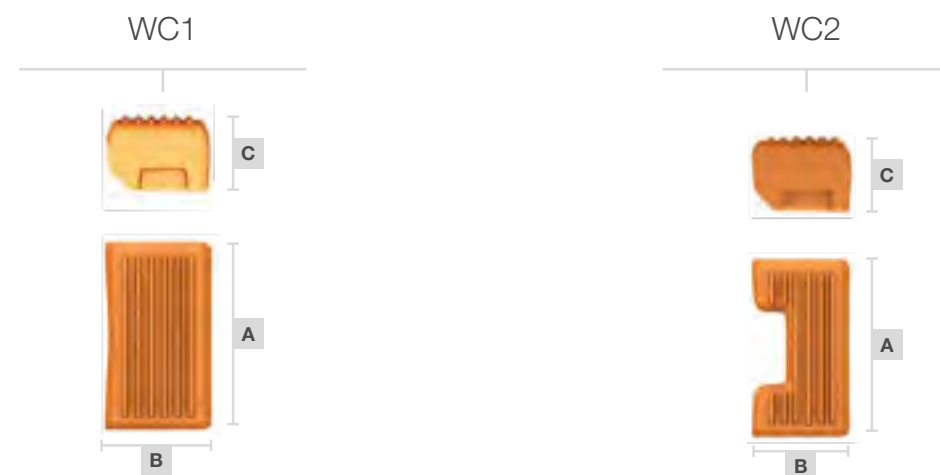
Part No.	Suits	A		Mass		In-Hex
		mm	in	kg	lb	
PLPS9HA	Bradken P10	331	13	6.7	14.8	14

PPS10 - 10 Series Points



Part No.	A		B		C		D		F		Mass		Pin Lock
	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb	
PPS10GP	603	23.7	36	1.4	251	9.9	340	13.4	289	11.4	142	313.1	PLP10HA-B
PPS10PT	603	23.7	42	1.7	251	9.9	340	13.4	289	11.4	139	306.4	PLP10HA-B

PPS10 - 10 Series Wear Caps



Part No.	A		B		C		Mass	
	mm	in	mm	in	mm	in	kg	lb
PA10WC1	360	14.2	223	8.8	149	5.9	32	70.5
PA10WC2	TBA							



SECTION 1: MINING MACHINERY

EX5500-5600

550-560 TONNES

OPERATING WEIGHT:
533 000 kg - 537 000 kg
Bucket:
34.0 m³

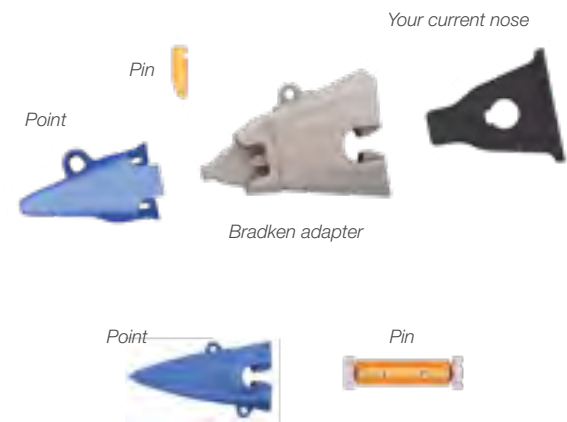


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Penetrator™

Bradken's Penetrator™ complete lip system features a cast lip, adapter and point; or cast lip and solid point. Designed to meet the toughest digging conditions for Dragline, Face Shovel, Hoe Excavator and Dredging applications, the Penetrator™ adapter prioritises safety. It incorporates hammerless adapter retention that can be retrofitted to cast lip noses.

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MACHINE KEY:



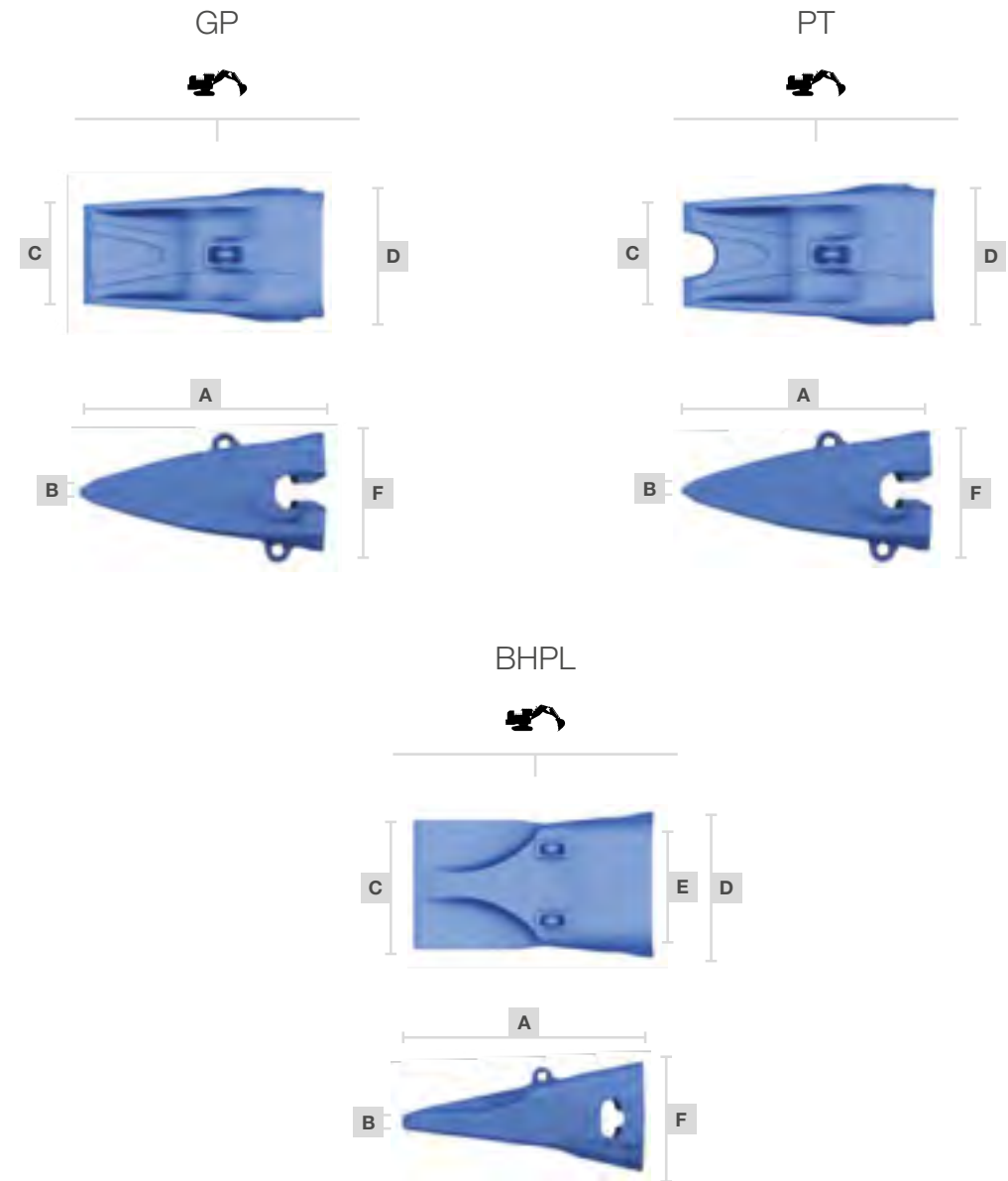
Parts

B Series Bradken Adapter Pin



Part No.	Suits	A		Mass		In-Hex
		mm	in	kg	lb	mm
PLP30HA-B	Bradken P30	381	15	10	22	17

PPS30 - 30 Series Points



Part No.	A		B		C		D		E		F		Mass		Pin Lock
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb	
PPS30GP	669	26.3	42	1.7	297	11.7	401	15.8			341	13.4	234	515.9	PLP30HA-B
PPS30PT	669	26.3	50	2	297	11.7	401	15.8			341	13.4	229	504.9	PLP30HA-B
PPS30BHPL	712	28	32	1.3	406	16	429	16.9	276	10.9	366	14.4	291	641.5	PLP30HA-B

PPS30 - 30 Series Cast Lips

5 STATION LIP



PART NUMBER:

PCL30-3759 (148") 28m³
PCL30-4140 (163") 34m³



6 STATION LIP



PART NUMBER:

PCL30-4293 (169") 27m³

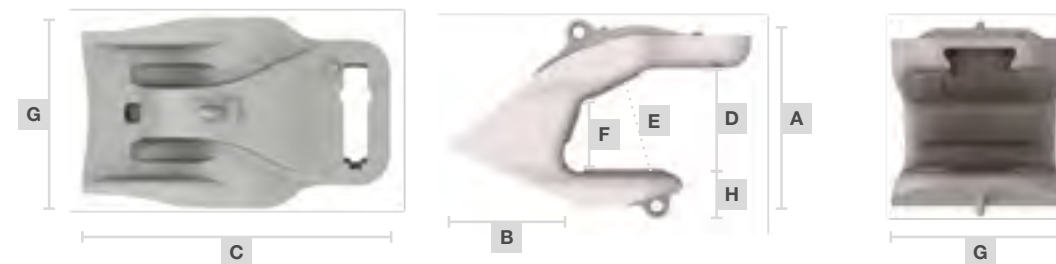


Cast Lip	Cast Lip (kg)	Cast Lip (lb)	Assembly (kg)	Assembly (lb)	Adapter	Adapter Pin
PCL30-3759	6375	14054	9912	19648	PA30BC12V	PLP30HA-B
PCL30-4140	7441	16405	10273	22648	PA30BC12V	PLP30HA-B
PCL30-4293	7552	16649	10936	24110	PA30BC12V	PLP30HA-B

Cast Lip	Point	Point Pin	Qty.	Lip Shroud	Boss	Pin	Qty.
PCL30-3759	PP12VPT	PLP12V	5	DELCB30-1B	DCB-1	DCP	4
PCL30-4140	PP12VPT	PLP12V	5	DELCB30-2B	DCB-1	DCP	4
PCL30-4293	PP12VPT	PLP12V	6	DELCB30-3B	DCB-1	DCP	5

PPS30 - 30 Series Lip Shroud

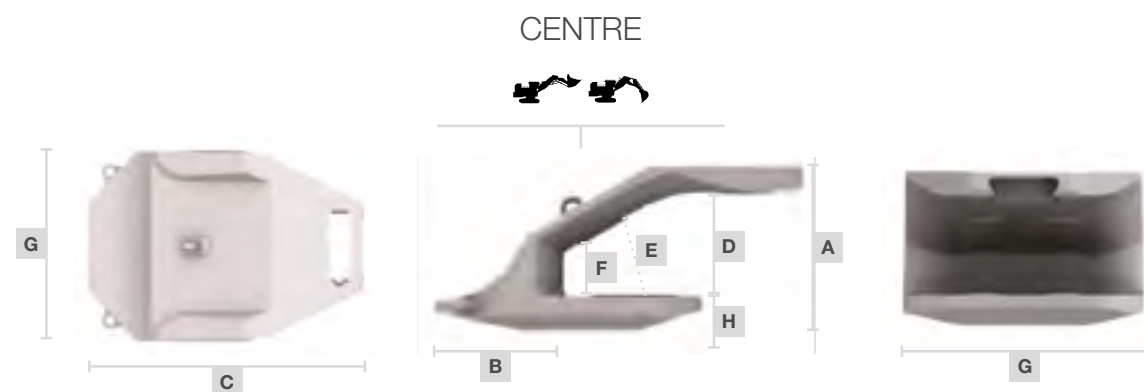
CENTRE



Part No.	A		B		C		D		E°	F		G		H	
	mm	in	mm	in	mm	in	mm	in		mm	in	mm	in	mm	in
DELCB30-1B	391	15.4	263	10.4	705	27.8	209	8.2	26	143	5.6	566	22.3	95	3.7
DELCB30-2B	388	15.3	241	9.5	685	27	209	8.2	26	143	5.6	640	25.2	85	3.3
DELCB30-3B	392	15.4	262	10.3	705	27.8	209	8.2	26	143	5.6	470	18.5	95	3.7

Part No.	Boss/Pin	Mass		Cast Lip
		kg	lb	
DELCB30-1B	DCB/DCP	325	716.5	PCL30-3759
DELCB30-2B	DCB/DCP	307	875.2	PCL30-4140/ PCL30-5105
DELCB30-3B	DCB/DCP	282	621.7	PCL30-4293

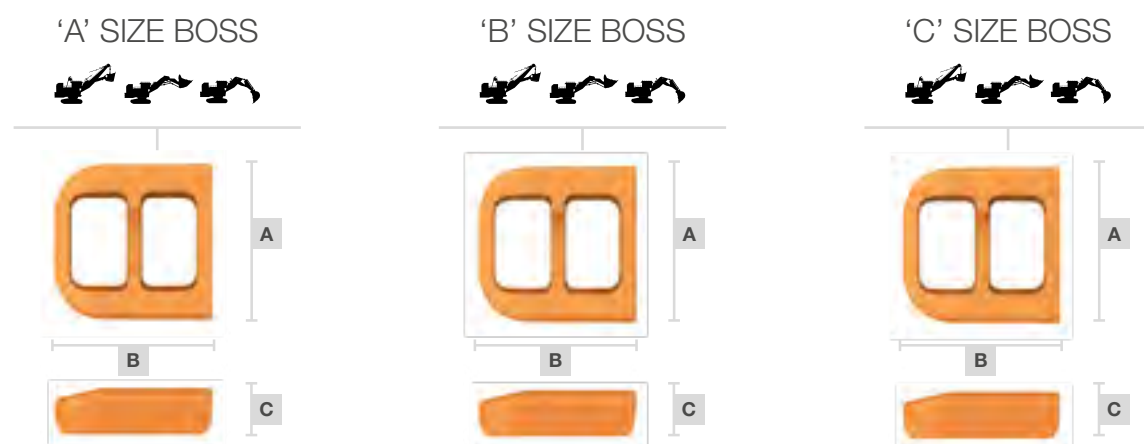
PPS30 - 30 Series Lip Shroud



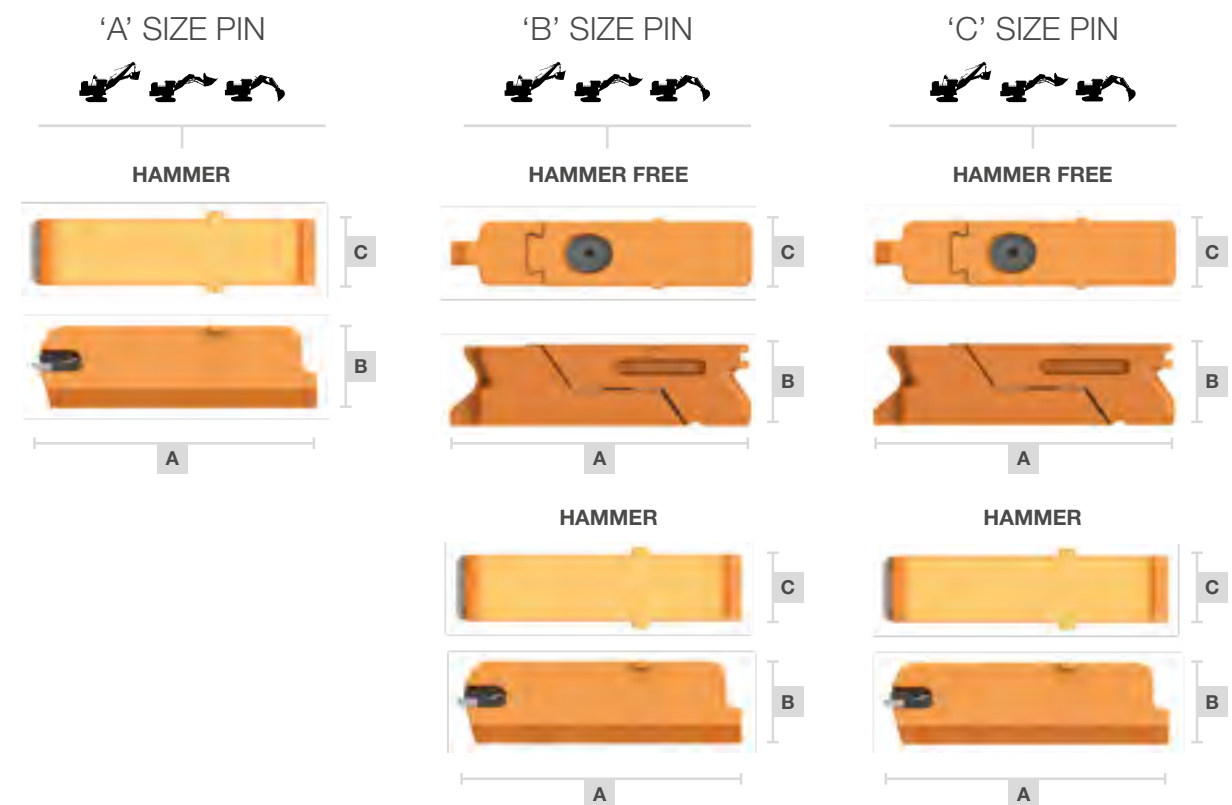
Part No.	A		B		C		D		E°	F		G		H	
	mm	in	mm	in	mm	in	mm	in		mm	in	mm	in	mm	in
DELCB30-25C	392	15.4	307	12.1	880	34.6	237	9.3	30	92	3.6	606	23.9	83	3.3
DELCB30-28	398	15.7	246	9.7	824	32.4	237	9.3	30	93	3.7	444	17.5	89	3.5

Part No.	I		Boss/Pin	Mass	
	mm	in		kg	lb
DELCB30-25C	523	20.6	DCB/DCP	401	884.1
DELCB30-28	523	20.6	DCB/DCP	305	672.4

Defender Locking Pins and Bosses



Part No.	A		B		C		Mass	
	mm	in	mm	in	mm	in	kg	lb
DAB ('A')	105	4.1	90	3.5	33	1.3	1	2
DBB ('B')	130	5.1	131	5.2	40	1.6	2.2	5
DCB ('C')	164	6.5	165	6.5	49	1.9	4	9
DCB-1 ('C')	164	6.5	130	5.1	49	1.9	4	9



Part No.	A		B		C		Mass	
	mm	in	mm	in	mm	in	kg	lb
DAP ('A')	119.5	4.7	45.6	1.8	42	1.7	1	2
DBPA ('B')	156	6.1	58	2.3	55	2.1	2.5	6
DBP-H ('B')	160	6.3	62	2.4	50	2	2.5	6
DCP ('C')	205	8.1	64	2.5	64	2.5	5	11
DCP-H ('C')	232	9.1	64	2.5	57	2.2	2.5	6

Please go to www.hitachicm.co.za for part details on other machine brands.

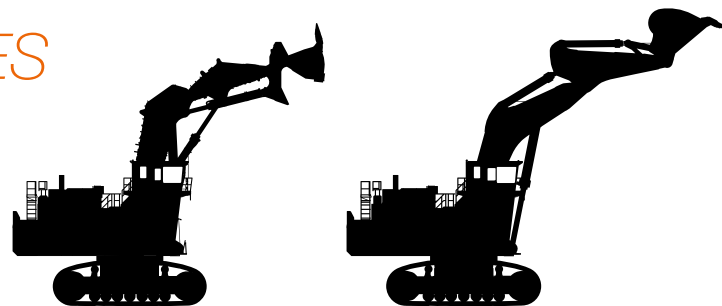


SECTION 1: MINING MACHINERY

EX8000

800 TONNES

OPERATING WEIGHT:
811 000 kg - 837 000 kg
Bucket:
43.0 m³

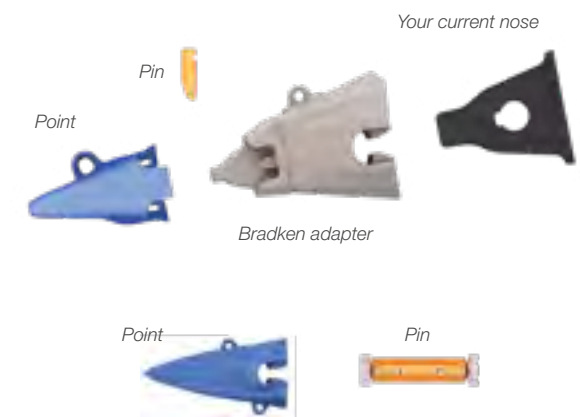


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Penetrator™

Bradken's Penetrator™ complete lip system features a cast lip, adapter and point; or cast lip and solid point. Designed to meet the toughest digging conditions for Dragline, Face Shovel, Hoe Excavator and Dredging applications, the Penetrator™ adapter prioritises safety. It incorporates hammerless adapter retention that can be retrofitted to cast lip noses.

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MACHINE KEY:



Face
Shovel



Mining
Backhoe

Parts

B Series Bradken Adapter Pin

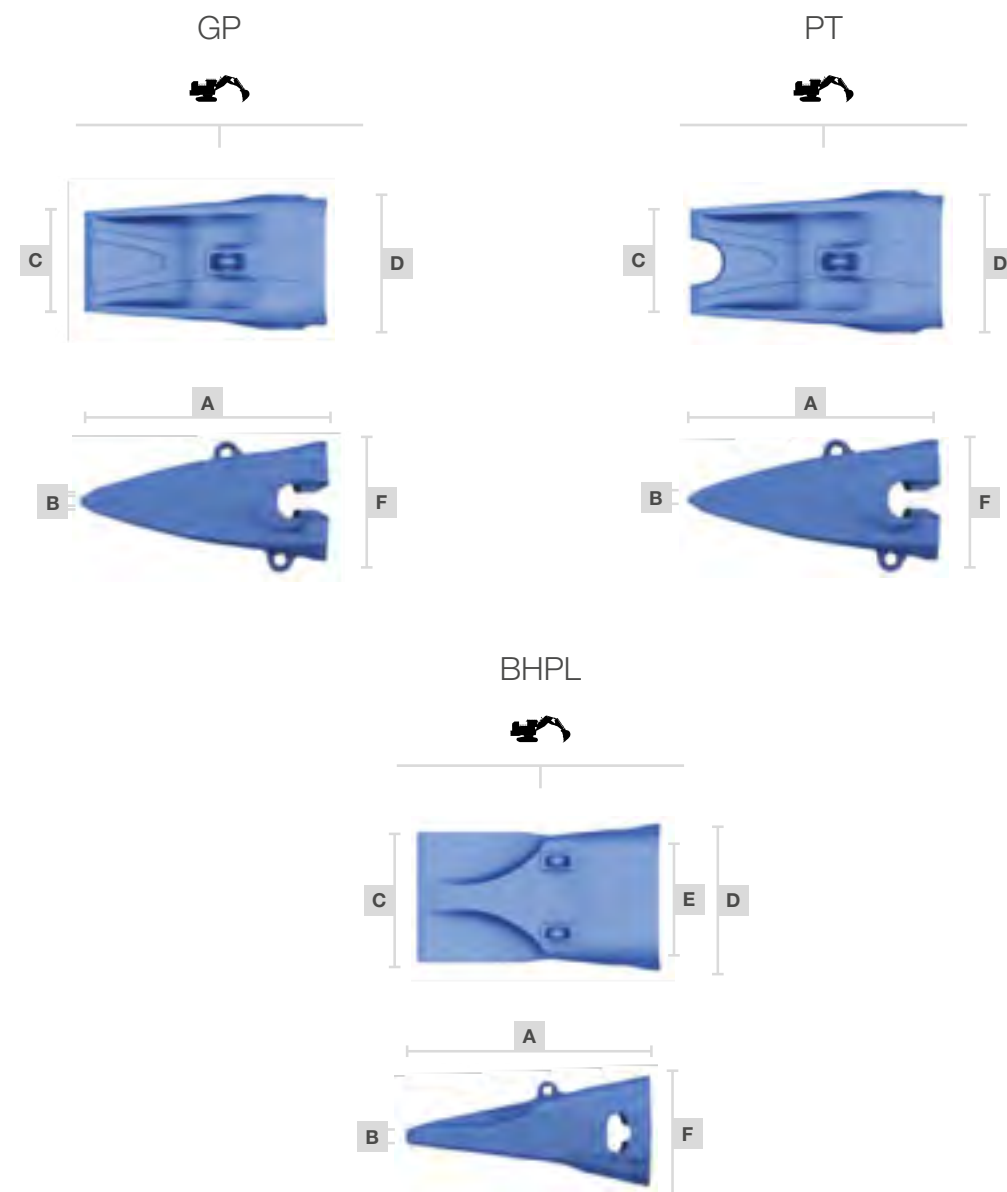


Part No.	Suits	A		Mass		In-Hex
		mm	in	kg	lb	mm
PLP45HA-B	Bradken P45	411	16.2	14.1	31.1	17

Note:

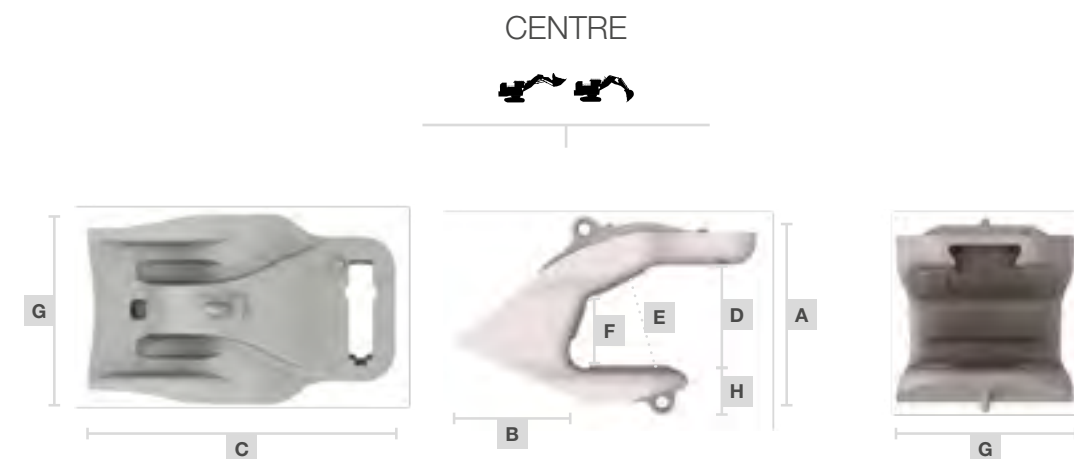
- 'A' measurement is the fully extended dimension

PPS45 - 45 Series Points



Part No.	A		B		C		D		E		F		Mass		Pin Lock
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb	
PPS45GP	759	29.9	46	1.8	328	12.9	444	17.5			376	14.8	321	707.7	PLP45HA-B
PPS45PT	759	29.9	55	2.2	328	12.9	444	17.5			376	14.8	316	696.7	PLP45HA-B
PPS45BHPL	757	29.8	43	1.7	405	15.9	457	18	318	12.5	346	13.6	261	575.4	PLP45HA-B

PPS45 - 45 Series Lip Shroud



Part No.	A		B		C		D		E°	F		G		H	
	mm	in	mm	in	mm	in	mm	in		mm	in	mm	in	mm	in
DELCB45-1B	435	17.1	260	10.2	705	27.8	239	9.4	26	154	6.1	437	17.2	95	3.7
DELCB45-2B	442	17.4	260	10.2	708	27.9	239	9.4	26	154	6.1	612	24.1	95	3.7
DELCB45-2C*	410	16.1	195	7.7	644	25.4	239	9.4	26	154	6.1	612	24.1	95	3.7

Part No.	Boss/Pin	Mass		Cast Lip
		kg	lb	
DELCB45-1B	DCB/DCP	293	646	PCL45-4293
DELCB45-2B	DCB/DCP	423	932.6	PCL45-5105
DELCB45-2C*	DCB/DCP	365	804.7	PCL45-5105

Note:

- This shroud is a lighter mass option for this cast lip

PPS45 - 45 Series Lip Shroud



Part No.	A		B		C		D		E°	F		G		H	
	mm	in	mm	in	mm	in	mm	in		mm	in	mm	in	mm	in
DELC45-3B	417	16.4	300	11.8	872	34.3	247	9.7	30	103	4.1	572	22.5	94	3.7
DELC45-4B	415	16.3	297	11.7	872	34.3	247	9.7	30	103	4.1	409	16.1	90	3.5
DELC45-5B	417	16.4	271	10.7	844	33.2	247	9.7	30	103	4.1	410	16.1	96	3.8
DELC45-6B	439	17.3	273	10.7	844	33.2	247	9.7	30	104	4.1	574	22.6	110	4.3
DELC45-6LB	439	17.3	274	10.8	844	33.2	247	9.7	30	104	4.1	574	22.6	110	4.3
DELC45-6RB	439	17.3	274	10.8	844	33.2	247	9.7	30	104	4.1	574	22.6	110	4.3

Part No.	I		Boss/Pin	Mass	
	mm	in		kg	lb
DELC45-3B	523	20.6	DCB/DCP	357	787.1
DELC45-4B	523	20.6	DCB/DCP	274	604.1
DELC45-5B	523	20.6	DCB/DCP	303	668
DELC45-6B	523	20.6	DCB/DCP	450	992.1
DELC45-6LB	523	20.6	DCB/DCP	463	1020.7
DELC45-6RB	523	20.6	DCB/DCP	463	1020.7

PPS45 - 45 Series Lip Shroud

6 STATION LIP



PART NUMBER:

PCL30-5105 (201") 40m³ (Oli Sand)
PCL45-5105 (201") 40m³

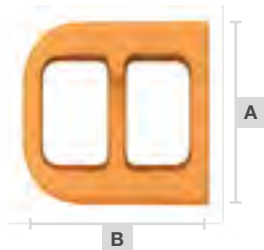


Cast Lip	Cast Lip (kg)	Cast Lip (lb)	Assembly (kg)	Assembly (lb)	Adapter	Adapter Pin
PCL30-5105	10025	22101	13409	29582	PA30BC12V	PLP30HA-B
PCL45-5105	11169	24623	15447	34055	PA45BC22V	PLP45HA-B

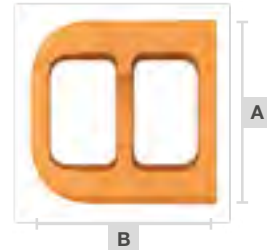
Cast Lip	Point	Point Pin	Qty.	Lip Shroud	Boss	Pin	Qty.
PCL30-5105	PP12VPT	PLP12V	6	DELCB30-4B	DCB-1	DCP	5
PCL45-5105	PP22VPT	PLP22V	6	DELCB45-2B	DCB-1	DCP	5

Defender Locking Pins and Bosses

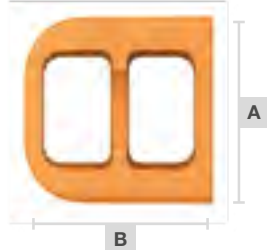
‘A’ SIZE BOSS



‘B’ SIZE BOSS



‘C’ SIZE BOSS

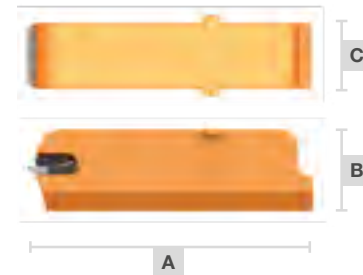


Part No.	A		B		C		Mass	
	mm	in	mm	in	mm	in	kg	lb
DAB (‘A’)	105	4.1	90	3.5	33	1.3	1	2
DBB (‘B’)	130	5.1	131	5.2	40	1.6	2.2	5
DCB (‘C’)	164	6.5	165	6.5	49	1.9	4	9
DCB-1 (‘C’)	164	6.5	130	5.1	49	1.9	4	9

‘A’ SIZE PIN



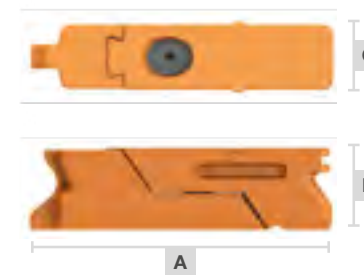
HAMMER



‘B’ SIZE PIN



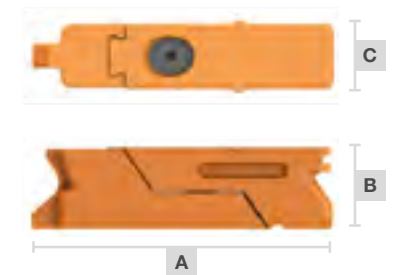
HAMMER FREE



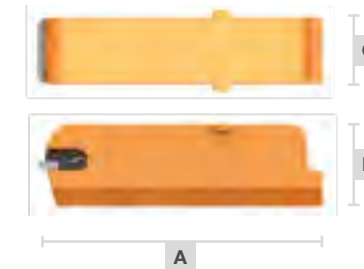
‘C’ SIZE PIN



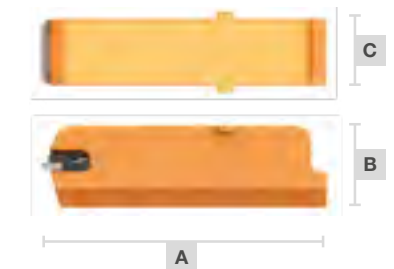
HAMMER FREE



HAMMER



HAMMER



Part No.	A		B		C		Mass	
	mm	in	mm	in	mm	in	kg	lb
DAP (‘A’)	119.5	4.7	45.6	1.8	42	1.7	1	2
DBPA (‘B’)	156	6.1	58	2.3	55	2.1	2.5	6
DBP-H (‘B’)	160	6.3	62	2.4	50	2	2.5	6
DCP (‘C’)	205	8.1	64	2.5	64	2.5	5	11
DCP-H (‘C’)	232	9.1	64	2.5	57	2.2	2.5	6

SECTION 2: GENERIC

20 J-TYPE

- Proven Ground Engaging Tool system.
- Market-tested for over 40 years.
- Easily replaceable wear system.
- Reduced change-out time when compared to bolt-on or cast devices.
- Engagement area can be replaced with only simple tooling.
- Simple, secure pin and positive locking ring ensures hardware retention.
- Compatible with multiple tooth designs for optimum performance in any application.

20 J-Type Pin



PART NUMBER:

HSJ20P

20 J-Type Retainer



PART NUMBER:

HSJ20R

Weld on Adapter



PART NUMBER:

HSJ20DSA

- 20mm lip thickness

Standard GP Tooth



PART NUMBER:

HSJ20SGP

Abrasion Tooth



PART NUMBER:

HSJ20AT

Rock Chisel Unik Style Tooth



PART NUMBER:

HSJ20RCU

HD Penetration Tooth



PART NUMBER:

HSJ20PT

SECTION 2: GENERIC

225 J-TYPE

- Proven Ground Engaging Tool system.
- Market-tested for over 40 years.
- Easily replaceable wear system.
- Reduced change-out time when compared to bolt-on or cast devices.
- Engagement area can be replaced with only simple tooling.
- Simple, secure pin and positive locking ring ensures hardware retention.
- Compatible with multiple tooth designs for optimum performance in any application.

225 J-Type Pin



PART NUMBER:

HSJ225P

225 J-Type Retainer



PART NUMBER:

HSJ225R

Weld on Adapter



PART NUMBER:

HSJ225CEA

- 25mm lip thickness

Standard GP Tooth



PART NUMBER:

HSJ225SGP

SECTION 2: GENERIC

25 J-TYPE

- Proven Ground Engaging Tool system.
- Market-tested for over 40 years.
- Easily replaceable wear system.
- Reduced change-out time when compared to bolt-on or cast devices.
- Engagement area can be replaced with only simple tooling.
- Simple, secure pin and positive locking ring ensures hardware retention.
- Compatible with multiple tooth designs for optimum performance in any application.

25 J-Type Pin



PART NUMBER:

HSJ250P

25 J-Type Retainer



PART NUMBER:

HSJ250R

Weld on Adapter



PART NUMBER:

HSJ250BSA

- 25mm lip thickness

Standard GP Tooth



PART NUMBER:

HSJ250SGP

Heavy Duty GP Tooth



PART NUMBER:

HSJ250HGP

Heavy Duty Long Tip



PART NUMBER:

HSJ250AT

SECTION 2: GENERIC

30 J-TYPE

- Proven Ground Engaging Tool system.
- Market-tested for over 40 years.
- Easily replaceable wear system.
- Reduced change-out time when compared to bolt-on or cast devices.
- Engagement area can be replaced with only simple tooling.
- Simple, secure pin and positive locking ring ensures hardware retention.
- Compatible with multiple tooth designs for optimum performance in any application.

30 J-Type Pin



PART NUMBER:

HSJ30P

30 J-Type Retainer



PART NUMBER:

HSJ30R

Weld on Adapter



HSJ30CEA

- 32mm lip thickness

Heavy Duty Long Tip



PART NUMBER:

HSJ300AT

Standard GP Tooth



HSJ30SGP

Heavy Duty GP Tooth



PART NUMBER:

HSJ30HGP

Penetration Abrasion Tooth



PART NUMBER:

HSJ30PTA

SECTION 2: GENERIC

35 J-TYPE

- Proven Ground Engaging Tool system.
- Market-tested for over 40 years.
- Easily replaceable wear system.
- Reduced change-out time when compared to bolt-on or cast devices.
- Engagement area can be replaced with only simple tooling.
- Simple, secure pin and positive locking ring ensures hardware retention.
- Compatible with multiple tooth designs for optimum performance in any application.

35 J-Type Pin



PART NUMBER:

HSJ35P

35 J-Type Retainer



PART NUMBER:

HSJ35R

Weld on Adapter



PART NUMBER:

HSJ35CEA

- 40mm lip thickness

Standard GP Tooth



PART NUMBER:

HSJ35SGP

Heavy Duty GP Tooth



PART NUMBER:

HSJ35HGP

Heavy Duty Rock Penetration Tooth



PART NUMBER:

HSJ35SPR

HD Penetration Tooth

PART NUMBER:

HSJ35PT

Penetration Abrasion Tooth

PART NUMBER:

HSJ35PTA

Heavy Duty Long Tip

PART NUMBER:

HSJ350AT

SECTION 2: GENERIC

40 J-TYPE

- Proven Ground Engaging Tool system.
- Market-tested for over 40 years.
- Easily replaceable wear system.
- Reduced change-out time when compared to bolt-on or cast devices.
- Engagement area can be replaced with only simple tooling.
- Simple, secure pin and positive locking ring ensures hardware retention.
- Compatible with multiple tooth designs for optimum performance in any application.

40 J-Type Pin

PART NUMBER:

HSJ40P

40 J-Type Retainer

PART NUMBER:

HSJ40R

Weld on Adapter



HSJ40CEA

- 45mm lip thickness

Standard GP Tooth



HSJ40SGP

HD Penetration Tooth



PART NUMBER:

HSJ40PT

Heavy Duty Long Tip



PART NUMBER:

HSJ400AT

SECTION 2: GENERIC

45 J-TYPE

- Proven Ground Engaging Tool system.
- Market-tested for over 40 years.
- Easily replaceable wear system.
- Reduced change-out time when compared to bolt-on or cast devices.
- Engagement area can be replaced with only simple tooling.
- Simple, secure pin and positive locking ring ensures hardware retention.
- Compatible with multiple tooth designs for optimum performance in any application.

45 J-Type Pin



PART NUMBER:

HSJ45P

45 J-Type Retainer



PART NUMBER:

HSJ45R

Weld on Adapter



HSJ45CEA

- 50mm lip thickness

Penetration Abrasion Tooth



PART NUMBER:

HSJ45PTA

Standard GP Tooth



HSJ45SGP

Heavy Duty Long Tip



PART NUMBER:

HSJ450AT

Heavy Duty Rock Penetration Tooth



PART NUMBER:

HSJ45RP

HD Penetration Tooth



PART NUMBER:

HSJ45PT

SECTION 2: GENERIC

55 J-TYPE

- Proven Ground Engaging Tool system.
- Market-tested for over 40 years.
- Easily replaceable wear system.
- Reduced change-out time when compared to bolt-on or cast devices.
- Engagement area can be replaced with only simple tooling.
- Simple, secure pin and positive locking ring ensures hardware retention.
- Compatible with multiple tooth designs for optimum performance in any application.

55 J-Type Pin



PART NUMBER:

HSJ55P

55 J-Type Retainer



PART NUMBER:

HSJ55R

Weld on Adapter



PART NUMBER:

HSJ55CEA

- 60mm lip thickness

Standard GP Tooth



PART NUMBER:

HSJ55SGP

Heavy Duty Rock Penetration Tooth



PART NUMBER:

HSJ55RP

HD Penetration Tooth



PART NUMBER:

HSJ55PT

Penetration Abrasion Tooth

PART NUMBER:

HSJ55PTA

Heavy Duty Long Tip

PART NUMBER:

HSJ550AT

SECTION 2: GENERIC

60 J-TYPE

- Proven Ground Engaging Tool system.
- Market-tested for over 40 years.
- Easily replaceable wear system.
- Reduced change-out time when compared to bolt-on or cast devices.
- Engagement area can be replaced with only simple tooling.
- Simple, secure pin and positive locking ring ensures hardware retention.
- Compatible with multiple tooth designs for optimum performance in any application.

60 J-Type Pin

PART NUMBER:

HSJ60P

60 J-Type Retainer

PART NUMBER:

HSJ60R

Weld on Adapter



HSJ60CEA

- 70-75mm lip thickness

Penetration Abrasion Tooth



PART NUMBER:

HSJ60PTA

Standard GP Tooth



HSJ60SGP

Heavy Duty Rock Penetration Tooth



PART NUMBER:

HSJ60RP

HD Penetration Tooth



PART NUMBER:

HSJ60PT

SECTION 2: GENERIC

70 J-TYPE

- Proven Ground Engaging Tool system.
- Market-tested for over 40 years.
- Easily replaceable wear system.
- Reduced change-out time when compared to bolt-on or cast devices.
- Engagement area can be replaced with only simple tooling.
- Simple, secure pin and positive locking ring ensures hardware retention.
- Compatible with multiple tooth designs for optimum performance in any application.

70 J-Type Pin



PART NUMBER:

HSJ70P

70 J-Type Retainer



PART NUMBER:

HSJ70R

Weld on Adapter



PART NUMBER:

HSJ70CEA-100

- 100-110mm lip thickness

HSJ70CEA-80

- 80mm lip thickness

Standard GP Tooth



PART NUMBER:

HSJ70SGP

Heavy Duty Rock Penetration Tooth



PART NUMBER:

HSJ70RP

HD Penetration Tooth



PART NUMBER:

HSJ70PT

Penetration Abrasion Tooth

PART NUMBER:

HSJ70PTA

Heavy Duty Rock Chisel Tooth

PART NUMBER:

HSJ70RC

SECTION 2: GENERIC

80 J-TYPE

- Proven Ground Engaging Tool system.
- Market-tested for over 40 years.
- Easily replaceable wear system.
- Reduced change-out time when compared to bolt-on or cast devices.
- Engagement area can be replaced with only simple tooling.
- Simple, secure pin and positive locking ring ensures hardware retention.
- Compatible with multiple tooth designs for optimum performance in any application.

80 J-Type Pin

PART NUMBER:

HSJ80P

80 J-Type Retainer

PART NUMBER:

HSJ80R

Weld on Adapter



HSJ80CEA

- 100mm lip thickness

Heavy Duty Abrasion Tooth



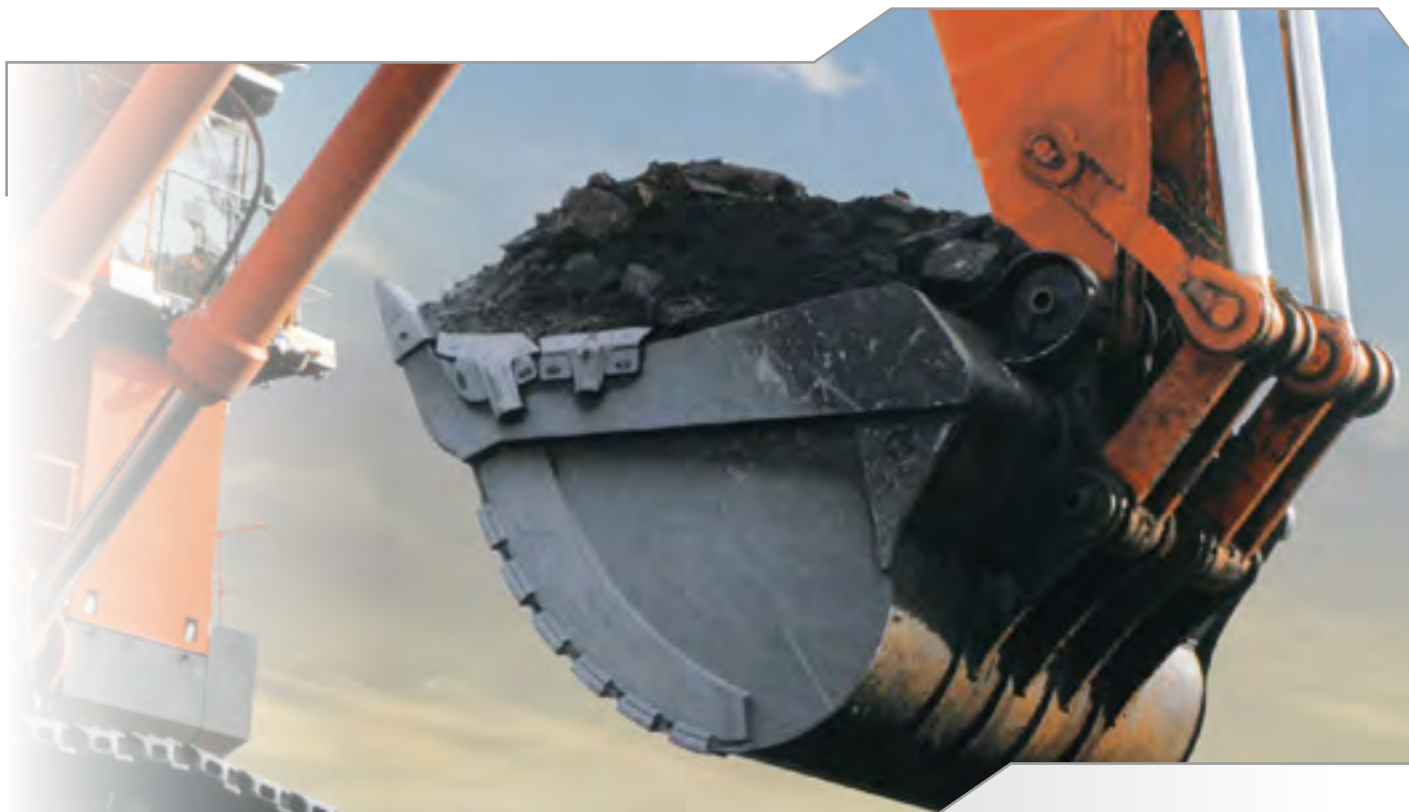
HSJ80HDA

Heavy Duty Rock Chisel Tooth



PART NUMBER:

HSJ80RC



SECTION 3: PROTECTION

SIDE PROTECTORS AND CUTTERS

- A protective covering that provides essential edge preservation.
- Helps retain device integrity through providing additional side cutter protection.
- Two attachment methods (bolt-on or welding) for either quick change outs or a more permanent retention system, as required.

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30mm Bolt on Side Protector - 430mm (24t - 40t)



PART NUMBER:

HSLEP30B-430

30mm Weld on Side Protector - 500mm (24t - 40t)



PART NUMBER:

HSLEP30W-500

40mm Bolt on Side Protector - 430mm (45t - 50t)



PART NUMBER:

HSLEP40B-430

40mm Weld on Side Protector - 600mm (45t - 50t)



PART NUMBER:

HSLEP40W-600

50mm Bolt on Side Protector - 600mm (60t - 85t)



PART NUMBER:

HSLEP50B-600

50mm Bolt on Side Protector - 900mm (60t - 85t)



PART NUMBER:

HSLEP50B-900

50mm Weld on Side Protector - 600mm (60t - 85t)



PART NUMBER:

HSLEP50W-600

50mm Weld on Side Protector - 800mm (60t - 85t)



PART NUMBER:

HSLEP50W-800

Images are for reference only.

60mm Weld on Side Protector - 900mm (120t - 200t)



PART NUMBER:

HSLEP60B-900



SECTION 3: PROTECTION

LIP SHROUDS

- Dramatically increase the life of the primary cutting edges of your Ground Engaging Tools.
- Compatible with K-series G.E.T. for enhanced core cutting edge protection, thanks to the top down locking system.
- Easily replaced in the field without needing to remove the ground engagement device from the machine.
- Minimal downtime during replacement.

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40/50mm Lip Shroud - 210mm wide (24t - 40t) 40/50mm



PART NUMBER:

HSL50-210

50mm Lip Shroud - 180mm wide (16t - 20t)



PART NUMBER:

HSL50-180

60mm Lip Shroud - 190mm wide (45t - 50t) 60mm



PART NUMBER:

HSL60-190C

60mm LH Lip Shroud - 190mm wide (45t - 50t) 60mm



PART NUMBER:

HSL60-190L

60mm RH Lip Shroud - 190mm wide (45t - 50t) 60mm



PART NUMBER:

HSL60-190R

90mm Centre Lip Shroud - 90mm (120t - 200t)



PART NUMBER:

HSL100-365C

90mm LH Lip Shroud - 90mm (120t - 200t)



PART NUMBER:

HSL100-365L

90mm RH Lip Shroud - 90mm (120t - 200t)



PART NUMBER:

HSL100-365R

100mm Centre Lip Shroud - 100mm (120t - 200t)

PART NUMBER:

HSL100-365C

100mm LH Lip Shroud - 100mm (120t - 200t)

PART NUMBER:

HSL100-365L

100mm RH Lip Shroud - 100mm (120t - 200t)

PART NUMBER:

HSL100-365R



SECTION 3: PROTECTION

HEEL BLOCKS AND HALF ARROWS

- Clean away abrasive material around the radius of the bucket as it rotates through its arc.
- Minimise edge wear of the core material.
- Help to spread shock loading over a greater area for impact dispersal.
- Attached by welding for reduced risk of hardware loss.
- Easily replaced in the field without needing to remove the ground engagement device from the machine
- Minimal downtime during replacement.

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Heel Block - (16t - 20t)

PART NUMBER:

HSHB80-150

Heel Block - (24t - 40t)

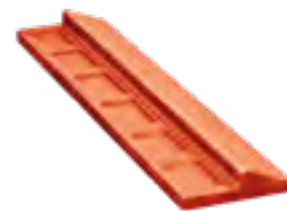
PART NUMBER:

HSHB120-185

Heel Block - (45t - 200t)

PART NUMBER:

HSHB155-235

19mm Half Arrow - side bar protector (1.6t - 20t)

PART NUMBER:

HS19CHA-600

- 19mm x 600mm

29mm Half Arrow - side bar protector (24t - 40t)

PART NUMBER:

HS29CHA-600

- 29mm x 600mm

40mm Half Arrow - side bar protector (45t - 200t)

PART NUMBER:

HSJ40CHA-600

- 40mm x 600mm

Dealer Network

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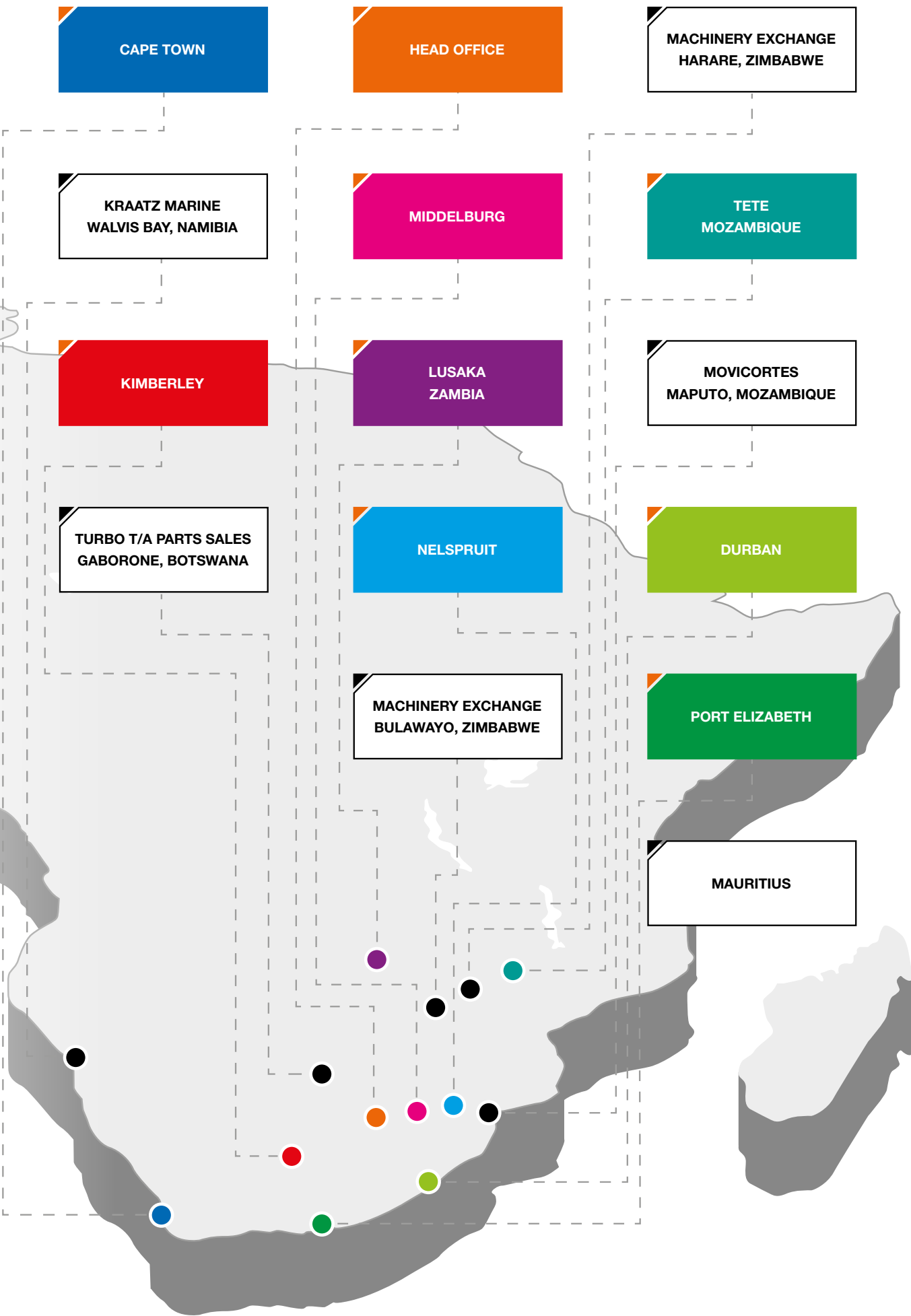
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