

PROCLAWs

BY COMBI WEAR PARTS

THE PERFECT PARTNER

STRONG AND RELIABLE ADAPTER

Extended operation time, which leads to lower maintenance cost.

USER FRIENDLY

Re-usable mechanical lock, easy to mount, dismount and well protected while in use



FUNCTIONAL DESIGN

Streamlined tooth and a self sharpening design – better penetration, less stress on the machine and less fuel consumption

A SWEDISH SEAL OF QUALITY

High quality steel for high performance penetration. Get more action out of every part.

EARLY WARNING

Wear indicators on tooth and adapter – signals when the part is no longer performing optimal and is due for a change.



Excavators

Available for machines 25-250 tons

Adapters



BE



BME



Wear Cap

Teeth



WE



GPE



AE



PE



Wheel Loaders

Available for machines 50-250 tons

Adapters



TL



TML



Wear Cap

Teeth



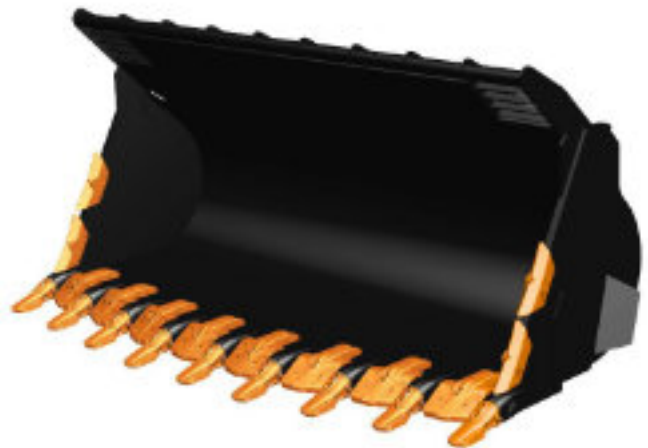
AL



AXL



HAL



THE SUPREME SOLUTION

LOW PROFILE

Ensures good penetration, which brings lower fuel consumption and less stress on the machine.

TEETH WITH SELF-SHARPENING DESIGN AND LARGE AMOUNT OF WEAR MATERIAL

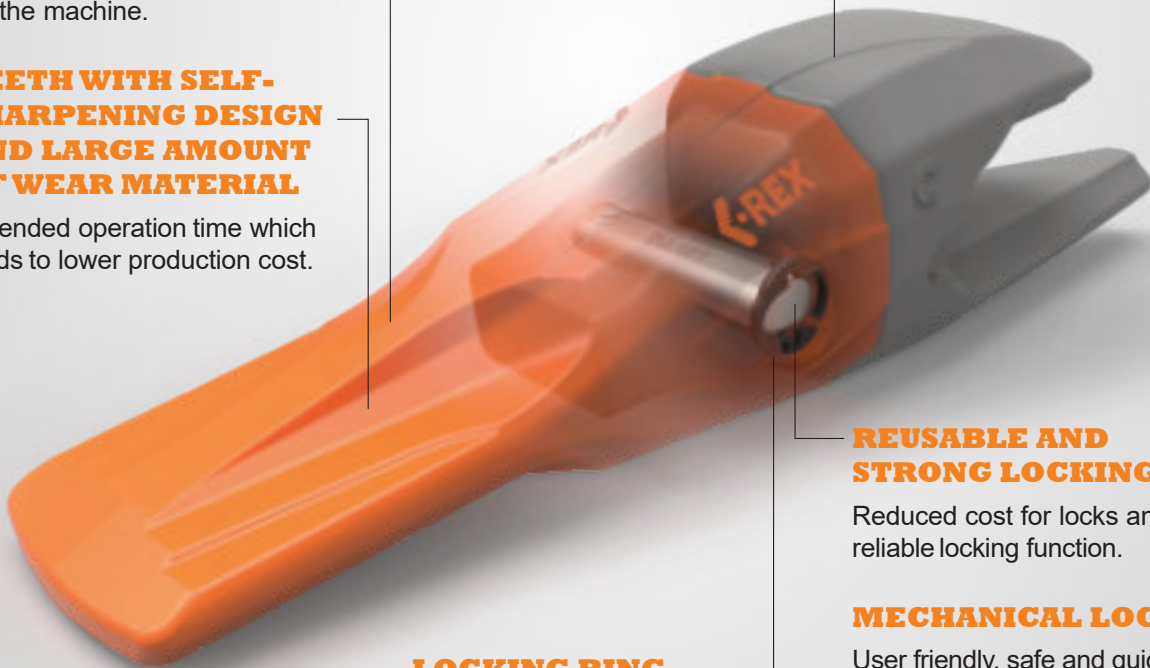
Extended operation time which leads to lower production cost.

PRECISE FIT WITH LARGE CONTACT SURFACES

Extended life time, more teeth per adapter, which leads to lower maintenance cost.

STRONG AND RELIABLE ADAPTER

Extended operation time, which leads to lower maintenance cost.



REUSABLE AND STRONG LOCKING PIN

Reduced cost for locks and reliable locking function.

MECHANICAL LOCK

User friendly, safe and quick tooth replacement.

LOCKING RING INTEGRATED IN THE TOOTH

User friendly, strong and reliable locking function.



SPECIFICATION

Excavators and wheel loaders



EXCAVATORS

Available for machines 10-45 tons

Adapter



BE

Teeth



GPE



AE



FE



VE



WE

WHEEL LOADERS

Available for machines 10-55 tons

Adapters



SL



TL

Teeth



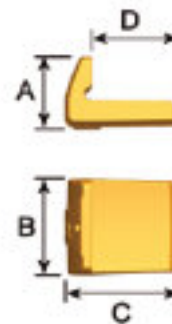
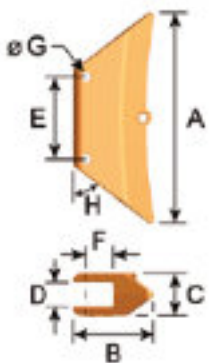
GPL



AL



Side and heel shrouds



Side shroud
SSM

























Pin and ring



Heel shroud
WHS



Type	Part. no	 	Plate thickness mm	Weight kg	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H °
SSM ^{*1}	700602	 	50.0	28.0	500	189	98	52	190	64	23	53
SSM ^{*2}	700601	 	63.5	41.0	564	215	115	65	220	75	27	53
SSM ^{*2}	700603	 	60.0	41.0	564	215	115	63	220	75	27	53
Pin	700321	 	50.0									
Pin	700320	 	60.0/63.5									
Ring	700360	 	50									
Ring	700361	 	60.0/63.5									
WHS	700651	 		15.0	130	180	210	160				
WHS	700652	 		20.0	150	180	240	180				
WHS	700653	 		37.0	199	250	300	236				

*1 used together with 700321 and 700360.

*2 used together with 700320 and 700361.

Lip shrouds



8



9

Lip Shrouds for excavators

Part no	Picture	Weight	Description	Lip thickness	Length	Depth	Height
		kg		mm	mm	mm	mm
14204	8	15	Welded on shroud	40-60	350	210	75
15204	8	18	Welded on shroud	60-75	180	270	102
15205	8	51	Welded on shroud	60-75	500	270	102
16204	9	43	Welded on shroud	75-90	500	220	125

LHD-SYSTEM FOR MINING LOADERS

High quality steel for the toughest applications

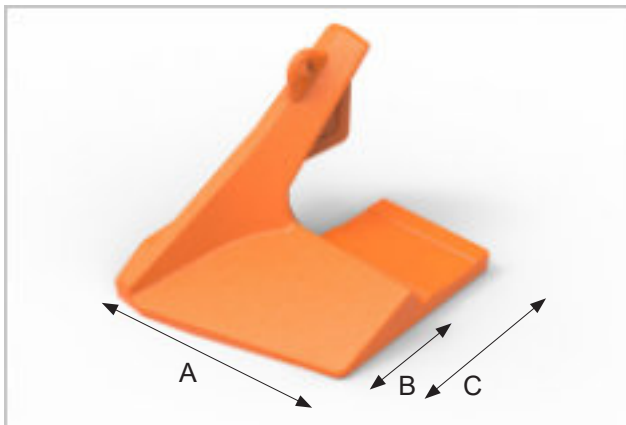


LESS DOWNTIME UNDERGROUND

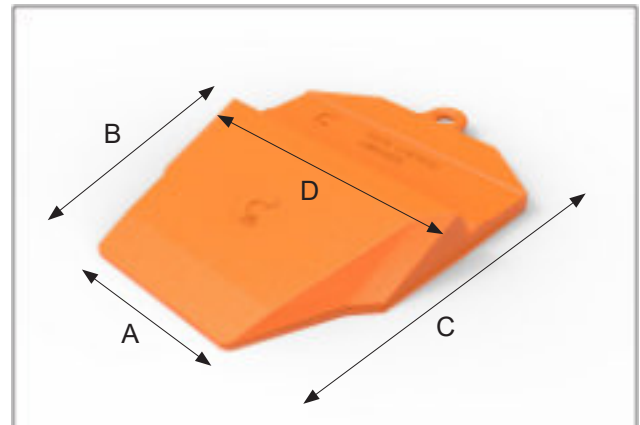
Combi Wear Parts easy-to-fit solution fills your buckets faster. A low profile LHD-system optimally designed for the high demands of the mining industry.



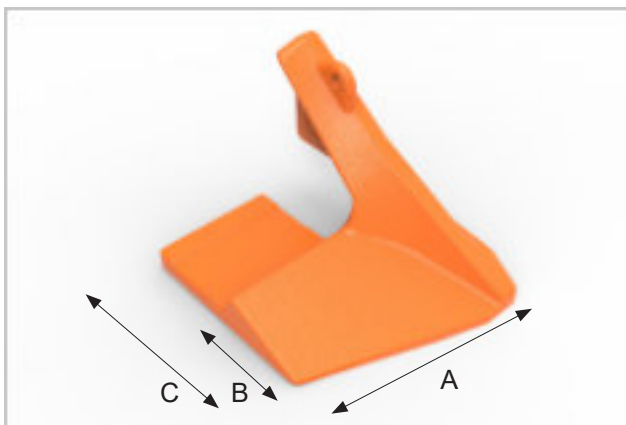
Strong and slim, suitable for 30–40 mm lip thickness.



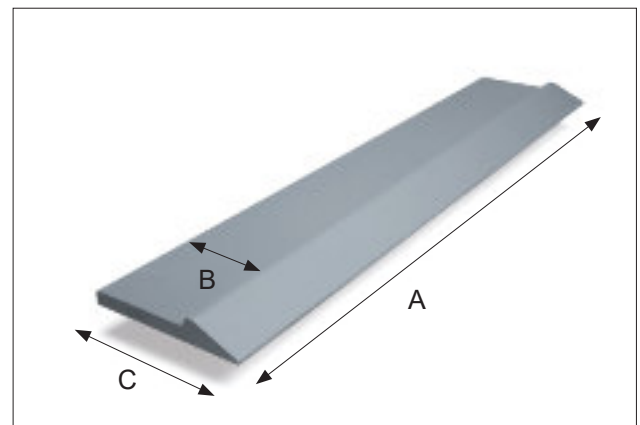
Part nbr.	Weight	A mm	B mm	C mm
39012	38 kg	325	127	285



Part nbr.	Weight	A mm	B mm	C mm	D mm
39011	54 kg	210	391	470	380



Part nbr.	Weight	A mm	B mm	C mm
39013	38 kg	325	127	285



Part nbr.	Weight	A mm	B mm	C mm
5125468-3,6	319 kg	3 660	127	254

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CRUSHER BALL

markanse PA-011 ENG

Range of application

Breaking up large pieces of rock in quarries is a costly process. It is expensive to run an extra excavator equipped with a hydraulic hammer to break down the rocks that are too big to feed the crusher. This is where a crusher ball comes into play.

It is a cost efficient alternative to running an extra excavator. There are two ways to use a crusher ball; Either you drop the crusher ball onto the piece of rock that needs breaking or you drop the rock on the ball. Both are

simple but proven methods that get the job done. If you can utilize the down time when the loader or backhoe is waiting for the dump truck you will lose no production time but instead see a significant increase in productivity while lowering your cost.

The crusher balls are made of solid casted steel with extreme durability. The hardness is between 120 – 170 HB.

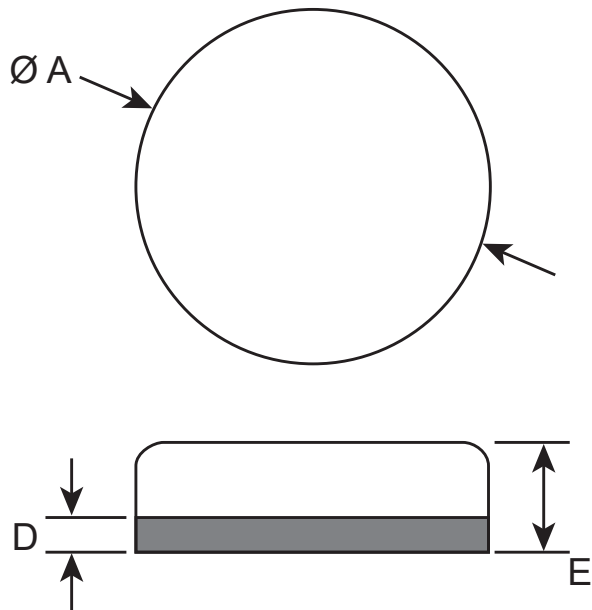


	Diameter	Weight
Crusher ball 5	1075 mm	Approx. 5100 kg
Crusher ball 6	1130 mm	Approx. 6100 kg
Crusher ball 9	1300 mm	Approx. 9100 kg

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WEAR BUTTONS



Buttons, laminated wear parts 700 HB

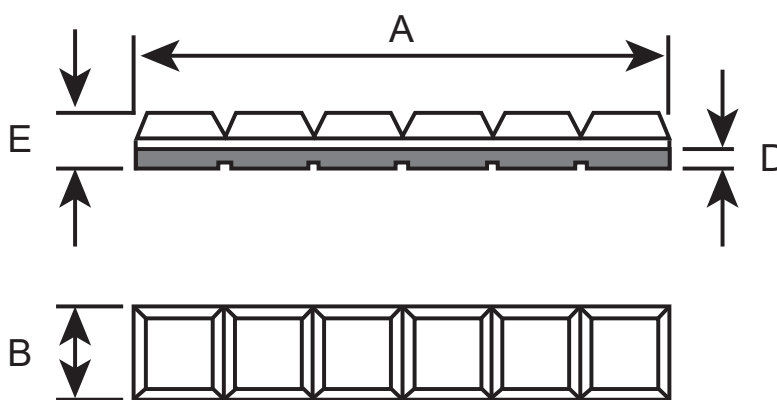
ProMite wear buttons are easy to use and install, no pre or post heating needed when welding.

ProMite wear buttons can effectively be used on a variety of buckets, loader, excavator or drag line buckets.

The ProMite wear buttons are also a perfect protection for adapters or protection of areas with extensive wear.

Part No.	Weight kg	Dia (A) mm	Backing (D) mm	Thickness (E) mm
PM50WB	0,4	50	9,5	25
PM75WB	0,9	75	9,5	25
PM90WB	1,5	90	9,5	30
PM115WB	2,7	115	9,5	32
PM150WB	4,8	150	9,5	35

CHOCKY BARS



Chocky Bars, laminated wear parts 700 HB

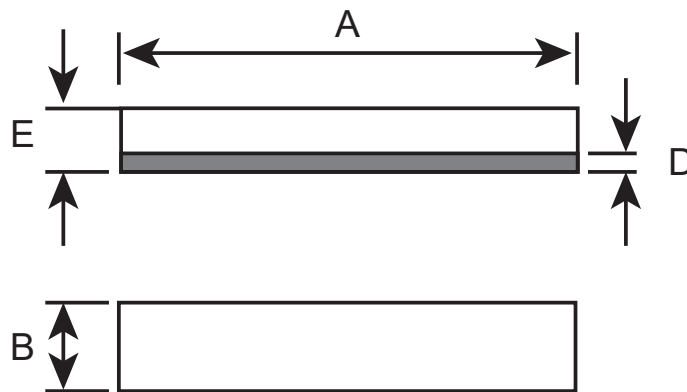
ProMite chocky bars are easy to use and install. No pre or post heating needed when welding.

ProMite chocky bars can effectively be used on a variety of buckets, loader, excavator or drag line buckets.

The ProMite chocky bars come pre-notched for easy forming onto inside or outside contoured surfaces which needs an extra level of protection against wear.

Part no	Weight kg	Length (A) mm	Width (B) mm	Backing(D) mm	Thickness(E) mm
PM25CB	1,0	240	25	8	23
PM38CB	1,5	240	38	8	23
PM50CB	2,0	240	50	8	23
PM65CB	2,7	240	65	8	23
PM90CB	3,6	240	90	8	23
PM100CB	4,3	240	100	8	23
PM130CB	5,3	240	130	8	23

SOLID BARS



Solid Bars, laminated wear parts 700 HB

ProMite solid bars are easy to use and install. No pre or post heating needed when welding.

ProMite solid bars can effectively be used on a variety of buckets, loader, excavator or drag line buckets.

The ProMite solid bars are perfect for corners, edges and hard to reach places. Use ProMite solid bars wherever you need impact and wear resistance.

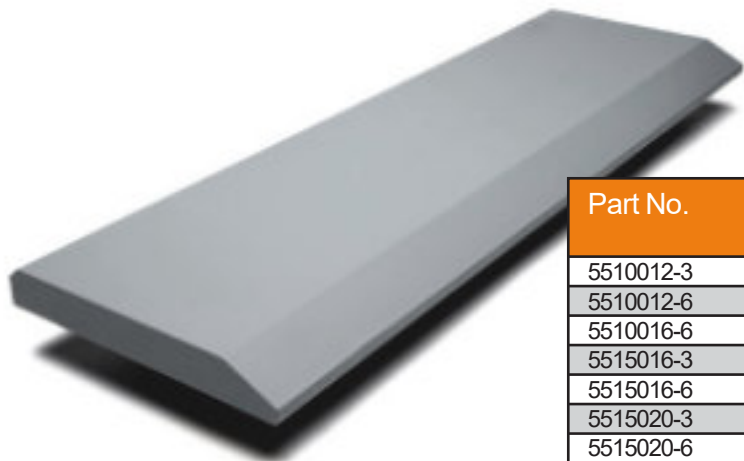
Part no	Weight kg	Length (A) mm	Width (B) mm	Backing (D) mm	Thickness (E) mm
PM25SB	1,1	240	25	8	23
PM38SB	1,7	240	38	8	23
PM50SB	2,2	240	50	8	23
PM65SB	2,9	240	65	8	23
PM90SB	3,9	240	90	8	23
PM100SB	4,4	240	100	8	23

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CUTTING EDGES

ONE SIDE BEVELLED, 500HB



Part No.	Dimension mm (width x thickness x length)	Weight kg*	Full bundle pcs
5510012-3	100x12x3000	26	5
5510012-6	100x12x6000	52	5
5510016-6	100x16x6100	70	5
5515016-3	150x16x3050	54	5
5515016-6	150x16x6100	109	5
5515020-3	150x20x3050	67	5
5515020-6	150x20x6100	131	5
5520020-3	200x20x3050	90	5
5520020-6	200x20x6100	180	5
5520025-3	200x25x3050	112	5
5520025-6	200x25x6100	228	5
5520030-6	200x30x6100	270	5
5525025-3	250x25x3050	144	5
5525025-6	250x25x6100	288	5
5525030-3	250x30x3050	171	5
5525030-6	250x30x6100	342	5
5527030-3	270x30x3050	186	3
5527030-6	270x30x6100	372	3
5527035-3	270x35x3050	215	3
5527035-6	270x35x6100	430	3
5530020-6	300x20x6100	272	3
5530030-3	300x30x3050	200	1
5530030-3,6	300x30x3650	258	1
5530030-6	300x30x6100	400	1
5530035-3,6	300x35x3650	290	1
5530035-6	300x35x6100	472	1
5530040-3	300x40x3000	270	1
5530040-3,2	300x40x3200	287	1
5530040-3,6	300x40x3650	328	1
5530040-6	300x40x6100	548	1
5530050-6	300x50x6000	653	1
5540040-3,6	400x40x3650	467	1
5540040-6	400x40x6100	740	1
5540050-6	400x50x6000	888	1
5540060-6	400x60x6000	1 035	1
5542050-6	420x50x6000	934	1
5542060-6	420x60x6000	1 091	1
5550050-3,6	500x50x3650	712	1
5550050-6	500x50x6000	1 123	1
5550060-6	500x60x6000	1 317	1

* approximate

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WEAR BARS

500HB



Part No.	Dimension mm (width x thickness x length)	Weight kg*	Full bundle pcs
528010-3	80x10x3000	19	5
528010-6	80x10x6000	38	5
528015-3	80x15x3000	29	5
528015-6	80x15x6000	57	5
528020-3	80x20x3000	38	5
528020-6	80x20x6000	76	5
528025-6	80x25x6000	96	5
5210010-3	100x10x3000	24	5
5210010-6	100x10x6000	48	5
5210012-3	100x12x3000	29	5
5210012-6	100x12x6000	58	5
5210015-3	100x15x3000	36	5
5210015-6	100x15x6000	72	5
5210020-3	100x20x3000	48	5
5210020-6	100x20x6000	96	5
5210025-3	100x25x3000	60	5
5210025-6	100x25x6000	120	5
5210030-3	100x30x3000	72	5
5210030-6	100x30x6000	144	5
5210040-3	100x40x3000	96	5
5210045-6	100x45x6000	212	5
5213025-6	130x25x6000	153	5
5213030-6	130x30x6000	187	5
5215010-6	150x10x6000	72	5
5215012-3	150x12x3000	44	5
5215012-6	150x12x6000	86	5
5215015-3	150x15x3000	54	5
5215015-6	150x15x6000	108	5
5215020-3	150x20x3000	72	5
5215020-6	150x20x6000	144	5
5215025-3	150x25x3000	90	5
5220010-3	200x10x3000	45	5
5220012-6	200x12x6000	113	5
5220015-6	200x15x6000	144	5
5220020-3	200x20x3000	96	5
5220020-6	200x20x6000	192	5
5220025-6	200x25x6000	239	5

* approximate

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BOLT ON EDGES

500HB (undrilled and drilled, one side and both sides bevelled)



Part No.	Dimension mm (width x thickness x length)	Weight kg*	Full bundle pcs
"undrilled (both sides bevelled)"			
56015015-6	150x15x6100	100	3
56015020-6	150x20x6100	128	3
56020020-6	200x20x6100	184	3
56025020-6	250x20x6100	220	3
56025025-6	250x25x6100	292	3
56028025-6	280x25x6100	315	3
56030025-6	300x25x6100	342	3
56030030-6	300x30x6100	439	3
56030035-6	300x35x6000	425	3
56030040-6	300x40x6100	523	3
56033025-6	330x25x6100	375	3
56033030-6	330x30x6100	448	3
56033035-6	330x35x6000	474	3
56033040-6	330x40x6100	617	3
56035030-6	350x30x6100	458	3
56036030-6	360x30x6100	549	1
56036040-6	360x40x6100	635	1
56038030-6	380x30x6100	519	1
56038035-6	380x35x6000	582	1
56040050-6	400x50x6000	960	1
56048030-6	480x30x6100	663	1
56048035-6	480x35x6000	747	1
"drilled 5/8" c/c 6" , hole distance:152,4 mm (both sides bevelled)"			
56115016-6	150x16x6100	100	5
56115020-6	150x20x6100	137	5
"drilled 3/4" c/c 6" , hole distance:152,4 mm (both sides bevelled)"			
56220020-6	200x20x6100	183	3
56225025-6	250x25x6100	284	3
56228025-6	280x25x6100	315	3
56225030-6	250x30x6100	366	1
"drilled 1" c/c 6" , hole distance:152,4 mm (both sides bevelled)"			
56333030-6	330x30x6100	447	1
56336030-6	360x30x6100	491	1
56333035-6	330x35x6000	520	1
56336040-6	360x40x6100	635	1
56340040-6	400x40x6100	780	1
"drilled 1" c/c 6" , hole distance:152,4 mm (one side bevelled)"			
56427035-6	270x35x6100	423	3

* approximate

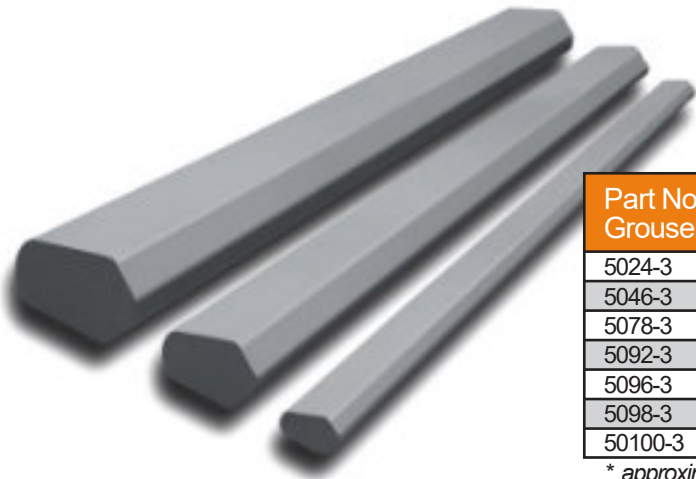
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GROUSER BARS AND PROFILES

500HB



Part No. Grouser bars	Dimension mm (width x thickness x length)	Weight kg*	Full bundle pcs
5024-3	24T-5 24x42x3000	21	10
5046-3	46 30x16x3000	10	10
5078-3	78 40x22x3000	17	10
5092-3	92 50x27x3000	24	10
5096-3	96 65x30x3000	35	10
5098-3	98 68x37x3000	46	10
50100-3	100 75x45x3000	68	10

* approximate



Part No. Profiles 500 HB	Dimension mm (width x thickness x length)	Weight kg*	Full bundle pcs
5110121-3	101x21/11x3000	28	4
5110121-6	101x21/11x6100	57	4
5115132-3	151x32/16x3000	62	4
5115132-6	151x32/16x6100	125	4
5120332-3,6	203x32/19x3660	112	4
5120332-6	203x32/19x6000	183	4
5125457-3,6	254x57/29x3660	236	4
5125468-3,6	254x68/40x3660	319	4

* approximate

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PEJO SAFETY HOOKS

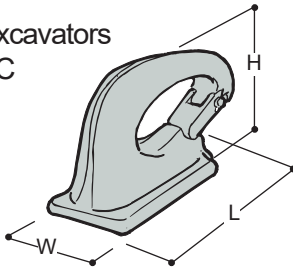


Type C

The PEJO safety hook, type C, provides a safe and reliable way of using your excavator bucket for lifting purposes. The C hook is also suitable for use in different industrial manufacturing applications where safety is a prime concern when lifting. The PEJO safety hooks are made of the highest quality forged steel and can handle loads up to 18 ton.



For excavators
Type C



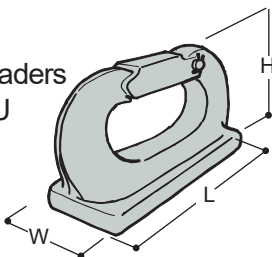
Type	Part No	Repair kit Reparationskit	Max load Ton	L mm	H mm	W mm	Link diam. mm
C201	65101	65301	1,0	105	76	30	21
C202	65102	65302	2,0	130	93	35	25
C203	65103	65302	3,0	133	100	35	25
C204	65104	65304	4,0	177	125	42	38
C205	65105	65304	5,0	185	133	44	40
C206	65106	65304	6,0	198	141	50	40
C208	65108	65308	8,0	250	170	60	45
C210	65110	65308	10,0	255	175	70	50
C215	65115	65308	18,0	290	190	80	50

Type U

The PEJO safety hook, type U, is recommended for loader applications. Both the C and U locks are equipped with durable, easy to use safety latches which ensure that the lifting device stays in place.



For loaders
Type U



Type	Part No	Repair kit	Max load Ton	L mm	H mm	W mm	Link diam. mm
U200	65200	65400	0,5	95	63	23	20
U201	65201	65400	1,0	105	75	25	23
U202	65202	65402	2,0	123	86	30	28
U203	65203	65403	3,0	145	101	35	31
U204	65204	65403	4,0	152	107	35	31
U206	65206	65406	6,0	205	127	40	43
U208	65208	65406	8,0	216	139	50	43

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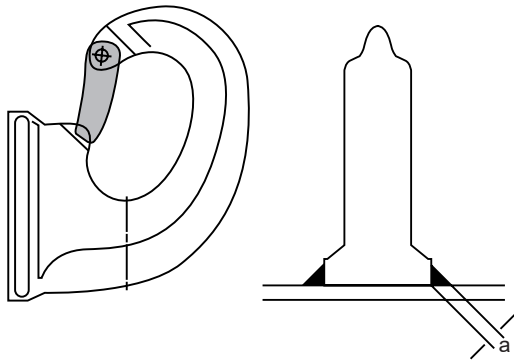


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WELDING MANUAL

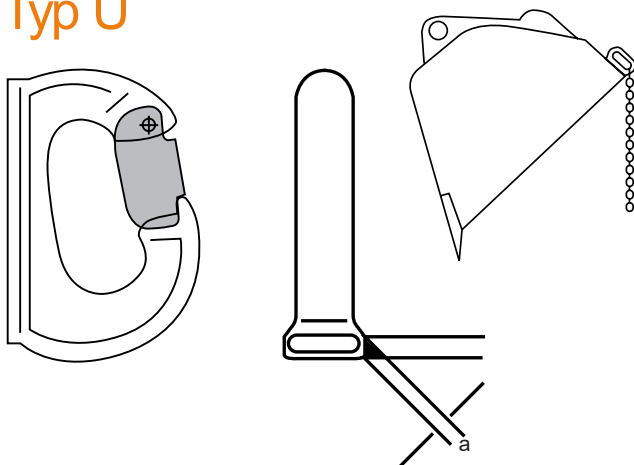


Typ C



Order no.	Max. load (ton)	Welding throat "a" (mm)
C 201	1	4 (0.15")
C 202	2	4 (0.15")
C 203	3	6 (0.24")
C 204	4	6 (0.24")
C 205	5	6 (0.24")
C 206	6	8 (0.31")
C 208	8	8 (0.31")
C 210	10	8 (0.31")
C 215	18	10 (0.48")

Typ U



Part no.	Max. load (ton)	Welding throat "a" (mm)
U 200	0.5	4 (0.15")
U 201	1	4 (0.15")
U 202	2	4 (0.15")
U 203	3	6 (0.24")
U 204	4	6 (0.24")
U 206	6	8 (0.31")
U 208	8	8 (0.31")

Installation

1. It is absolutely essential for the safety hook to be facing the right way when it is welded in position. Turn it so that its largest end will carry the load during lifting operations.
2. Place the safety hook as close to the center-line of bucket as possible.
3. Make sure that the safety hook is located in such a way that it obtains as much protection as possible from link arms and bucket brackets. If the hook is wrongly located, it can be deformed by rocks, etc.
4. For welding works use standard electrode AWSE7018 (DIN 193:E5153BIO). See the table beside for the welding seam dimension ("a").
5. The Machinery Directive (89/392/EEC) modified states a test factor of 1.5 times the nominal load after welding.

To be considered when lifting

1. Never overload.
2. Avoid jerks, lift slowly.
3. Ensure that the lifting tackle is correctly located in the lifting hook.
4. Ensure that the lifting tackle cannot slip off the hook.
5. Check the lifting tackle carefully - worn and damaged tools must not be used.
6. The machine should be placed on a firm and stable surface.
7. Observe the safety instructions of the machine.