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## STEEL UNDERCARRIAGES

### TRACKS

In the field of hydraulic excavators our product range includes tracks size B00 (90mm split) to B9 (260mm split).

For bulldozers we stock tracks size D3 (155mm split) to D11 (317,5mm split).

Depending on the machine they are available as dry, greased or lubricated models.

Furthermore, we always keep steel undercarriages for mini excavators on hand.



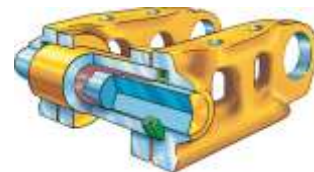
#### DRY AND SEALED

Dry and sealed tracks are a cost-saving solution for any application. All components are quenched and tempered for best possible operating life.



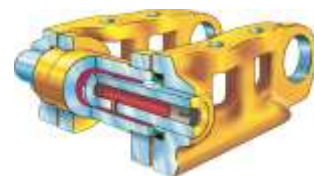
#### GREASED

Greased chains are to be recommended for machines with little to mid driving actions but high impact load during operation. The sealing keeps the grease layer inside the joint and at the same time avoids dirt to enter.



#### LUBRICATED

A lubricated model is best for machines which move a lot while operating. Each joint is sealed to avoid lack of oil and keep dirt outside. The oil rotates constantly inside the pin, thus, guarantees best possible lubrication in each working environment.



We keep single, double and triple grouser shoes for all tracks in stock.

## STEEL UNDERCARRIAGE

### IDLER AND SPROCKETS

For each track corresponding idler and sprockets respectively segment groups can be supplied ex stock on short call.



### ROLLERS

#### MOVING APPLICATION

Amongst others, bulldozers account for machines used for driving application on site.

Due to proportional high speed in addition to a lot of driving during the application, those rollers have a thicker contact surface as well as a different lubrication.

This warrants, that rollers for driving applications meet the specific requirements.

For special needs rollers are manufactured in a heavy duty version to resist great shifts of the load taken. This includes pavers for example.



#### LOW MOVING APPLICATION

Those machines are mainly crushers and hydraulic excavators.

They are characterized by little movements while handling great load.

Additionally, excavators are usually exposed to many shifts of the balance point during work which requires rollers that endure multiple weights.

Due to this all roller axes come with extended diameter.



## STEEL UNDERCARRIAGE

### RUBBER PADS

Preserving the ground using steel undercarriages, LIS® rubber pads offer easy applicable ways for converting your machine from steel to rubber.

LIS® rubber pads are available in three different models.

#### SMARTPADS

LIS® Smartpads are a modified bolt-on rubber pad.

The use of those pads is especially recommended for asphalt paver and trencher.

Each rubber pad is put onto pre-drilled grouser shoes and bolt together from the bottom.

In addition to the very simple fixing procedure the system's huge advantage is the lack of drill holes on the rubber pad's upper side.

This avoids pavement of plugging bolts and holes, so that a disassembly of the parts can be accomplished in less time.



#### ROADLINER

Roadliner rubber pads are a chain-on modification particularly used for excavators.

The pad is screwed on the chain replacing the grouser shoes.



#### CLIP-ON

This system is similar to the bolt-on without having its stability.

Here, the rubber pad is clipped onto the grouser shoe and bolt down afterwards.



## RUBBER UNDERCARRIAGES

### TRACKS

LIS® rubber tracks combine several benefits in one product.

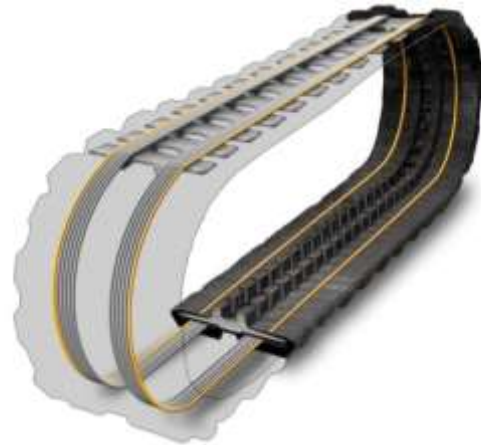
Inside infinite torn steel ropes increase the track's tensile strength and trapezoid steel cores minimize its contact surface with the rollers.

All cores are prepared for a long-lasting connection to the rubber mantling in a modern coating process.

On the outside an optimized rubber mixture is the basis for the track's outstanding resistance.

LIS® rubber tracks are available as long and short pitch model.

Thanks to a smaller split between the steel cores, short pitched tracks cause less vibration, thus optimize the machine's handling characteristics.



Our product portfolio includes rubber tracks starting at 180mm width for micro machines with just several hundred kilograms charge weight up to 900mm width for excavators of approx. 14 tons charge weight.

## RUBBER UNDERCARRIAGES

### ROLLERS



You will also get rollers for rubber of course..  
Due to the type of machine, rollers are procurable as inner or outer guided model.  
Also a combination of both can be supplied.

In case you would like to switch from steel to rubber or vice versa without changing the machine, we recommend interchangeable rollers.  
Different to conventional rollers which are only suitable either for steel or rubber tracks, interchangeable rollers enable mounting both on the same machine.

### IDLER AND SPROCKETS

Looking at mini, midi or compact excavators parts do not even slightly reach the level of standardization that is common for bigger machines.

Thanks to figures like B1, B3, B4 a classification of bigger parts is manageable quite easily. Due to the lack of classification, for small machines exists a variety of shapes and sizes for idlers and sprockets.

Hence, we stock a vast product range covering the major manufacturers.

A result of our OEM branch your special benefit is our profound know-how when it comes to parts for mini, midi and compact excavators.



## GROUND ENGAGING TOOLS

### LIS®-SYSTEM REPLACEMENT FOR CATERPILLAR

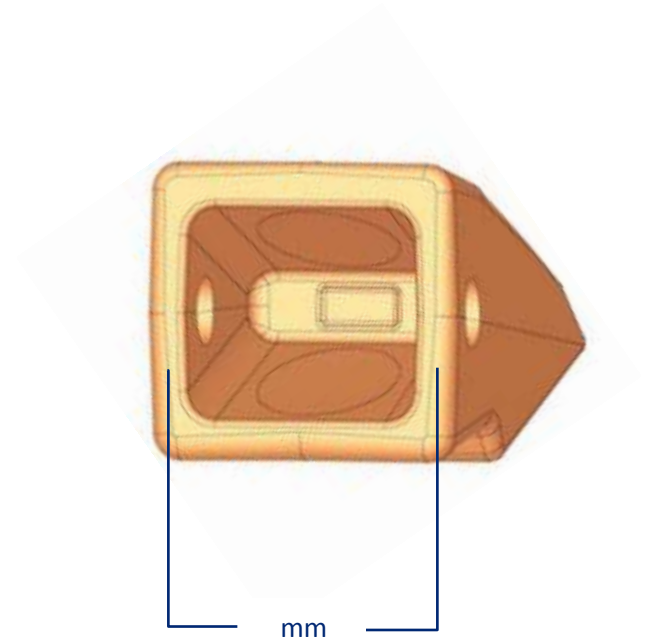
The Caterpillar J System has been marketed decades ago and is still mounted on many machines. Using the LIS® replacement for Caterpillar J System will bring you into position of continues running your machines with excellent material at low cost.



The system is characterized by a tip which is retained on the side by a locking ring and a steel pin.











For identifying the J System's size take the scale between each side of the tip. Having the measurements will help you looking up the sizes in the following chart.

Size	Scale in mm
J200	50
J225	60
J250	65
J300	75
J350	90
J400	100
J450	115 (ø Pin 19)
J460	115 (ø Pin 24)
J550	140
J600	150
J700	180



## GROUND ENGAGING TOOLS








### LIS®-SYSTEM REPLACEMENT FOR CATERPILLAR

Type	J200	J225	J250	J300	J350	J400	J450/J460	J550	J600	J700
Short 	-	-	1U3251 SX	1U3301 SX	1U3351 SX	-	9W8451 SF	9W8551 SF	-	-
Long 	1U3202 SX	6Y3222 SX	1U3252 SX	1U3302 SX	1U3352 SX	7T3402 SX	1U3452 SX	1U3552 SX	6I6602 SX	4T4702
HD-Long 	-	-	9N4252 SX	9N4302 SX	9N4352 SX	8E4402 SX	9N4452	9N4552	-	-
HD-Abrasion 	-	-	9N4253	9N4303	9N4353	-	9N4453	6Y2553	-	-
Rock- Penetrator 	-	-	-	4T2303 RP2	4T2353 RP2	-	9W1453 RP2/RP3	9W1553 RP2/RP3	-	-
Penetration 	1U3209	6Y8229	9J4259	9J4309	9J4359	6Y7409	9W8459	9W8559	7I7609	4T4709
Rock & Chisel 	-	-	-	1U3302 RC	1U3352 RC	7T3402 RC	1U3452 RC	1U3552 RC	6I6602 RC	-
Tiger 	9W8209 SX	-	9W8259 SX	9W8309 SX	9W2359 SX	6Y5409 SX	7T8459 SX	9W6559 SX	-	-
Twin Tiger 	1358208 SF	-	1358258 SX	1359308 SX	1359357 SX	-	1010711 SX	1010712 SX	-	-
Paddle 	-	-	3G8250	4T1300 SX	8J3350 SX	-	8J1450 SX	7J9550	-	-
Pin  ∅ (mm) x length (mm)	8E6208  11x59	6Y3228  14x67	8E6258  14x79	9J2308  14x92	8E6358  19x108	7T3408  22x117	4T1458 19x133 8E0468 24x133	6Y8558  25x162	6I6608  29x194	9U9616  32x195
Retainer outer ∅ (mm)	8E6209  22	8E6259  30	8E6259  30	8E6259  30	8E6359  39	8E8409  43	3G9549 32 8E8469 44	8E5559  52	6I6609  59	4T4707  64



## GROUND ENGAGING TOOLS

### LIS®-SYSTEM REPLACEMENT FOR CATERPILLAR

Type	J200	J225	J250	J300	J350	J400	J450/J460	J550	J600	J700
Blade (mm)	20	22	25/30	30	40	45	50	60	70	75
Flush mount 	4T1204 SX	-	1U1254 SX	1U1304 SX	1U1354 SX	-	8E0464 SX	-	-	-
Bottom Strap 	8J7525 SX	-	3G0169 SF	9J8929	1U1350	-	-	-	-	-
Double strap 	-	-	-	-	-	-	8E3464	3G9494	6I6604 SX	4T4704
Double strap 	-	6Y3224 SX	6Y3254 SX	3G6304 SX	3G8354 SX	7T3404 SX	8E6464 SX	1U1553 SX	-	-
Bolt on T1 	-	-	1U0257 SX	4T4307 SX	3G3357 SX	-	-	-	-	-
Bolt on T2 	-	-	-	3G5307 SF	-	-	-	-	-	-
Corner Guard 	-	-	3G4258 SX 3G4259 SX	3G4308 SX 3G4309 SX	3G5358 SX 3G5359 SX	-	-	-	-	-
Pin Ø (mm) x length (mm)	8E6208 11x59	6Y3228 14x67	8E6258 14x79	9J2308 14x92	8E6358 19x108	7T3408 22x117	4T1458 19x133 8E0468 24x133	6Y8558 25x162	6I6608 29x194	9U9616
Retainer outer Ø (mm)	8E6209 22	8E6259 30	8E6259 30	8E6259 30	8E6359 39	8E8409 43	3G9549 32 8E8469 44	8E5559 52	6I6609 59	4T4707 64

## GROUND ENGAGING TOOLS

### LIS®-SYSTEM REPLACEMENT FOR BOFORS B-LOCK

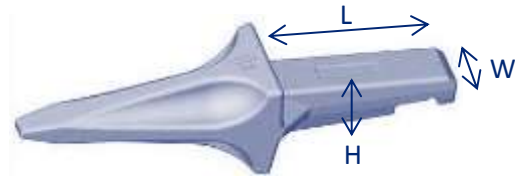
For Bofors ground engaging tools we offer our LIS®-System as a replacement for Bofors B-Lock.

#### BOFORS B-LOCK

You can recognize the B-Lock system by its plug-in tip which is locked from the side.

After plugging a B-Lock tip into an adapter case the tip is retained by a rectangular steel wedge with rubber core.








The notch to put the wedge through can be located either at the top or the bottom of the tip's leg. To figure out the right size have a look at the following table.



Size	Tips for 2-piece adapter			Tips for 1-piece adapter		
	L(mm)	W(mm)	H(mm)	L(mm)	W(mm)	H(mm)
B0	-	-	-	93	32	36
B1	150	41	44	118	37	44
B2	180	36	52	145	48	54
B3	210	55	58	160	53	59
B4	245	62	64	197	47	70
B5	250	73	75	250	80	100

## GROUND ENGAGING TOOLS

### LIS®-SYSTEM REPLACEMENT FOR BOFORS B-LOCK

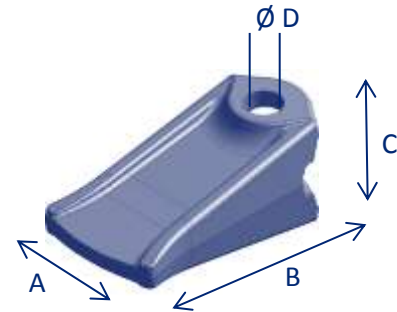
Type	B0	B1	B2	B3	B4	B5
Blade (mm)	25	30	35	40	60	75
Excavator 	-	SF4044336 (031 101)	SF4044428 (032 102)	SF3031334 (033 101)	SF3031335 (034 101)	SF3031336 (035 101)
Excavator 	-	SF4044336S (031 107)	SF4046911 (032 103)	SF3031364 (033 103)	SF3031365 (034 107)	SF3031366 (035 107)
Adapter 	-	SF3031434 (031 003)	SF3031394 (032 003)	SF3031395 (033 003)	SF3031396 (034 003)	SF3031397 (035 004)
Adapter 	SF4046818 (030 104)	SF4046799 (031 104)	SF3032682 (032 105)	SF3031354 (033 104)	-	-
Clam Shell 	SF4044291 (030 103)	SF4044388 (031 103)	SF3031362 (032 106)	-	-	-
Loader 	SF4046815 (030 101)	SF4046796 (031 102)	SF3032680 (032 101)	SF3027705 (033 102)	SF3031197 (034 102)	SF3031386 (035 102)
Adapter 	SF4046816 (031 006)	SF4046797 (031 004)	SF4046819 (032 004)	SF4046862 (033 004)	SF4044339 (034 004)	SF3031387 (035 003)
Retainer 	SF6254673 (030 201)	SF6254675 (031 201)	SF6254677 (032 201)	SF6254682 (033 201)	SF6254682 (033 201)	SF6254679 (035 201)
length x width (mm)	60x28	73x33	86x35	95x40	95x40	120x48

## GROUND ENGAGING TOOLS



### LIS®-SYSTEM REPLACEMENT FOR UNI-Z

Helpful for an optical identification of the UNI-Z system is the tip's beaked design combined with the cut outs on both sides, as well as the vertical locking device.

Besides, the customer is able to identify the system using the following measurements.



Size	A(mm)	B(mm)	C(mm)	D(mm)
Z1	64	128	54	18
Z2	72	157	68	20
Z3	88	208	75	22
Z4	110	231	88	30
Z5	125	312	113	35

	Uni-Z 1	Uni-Z 2	Uni-Z 3	Uni-Z 4
Tip 	SX1	SX2	SX3	SX4
Adapter 	SX1A	SX2A	SX3A	SX4A
Retainer Ø (mm) x length (mm)	SX1P 14x50	SX2P 16x65	SX3P 18x75	SX4P 25x85

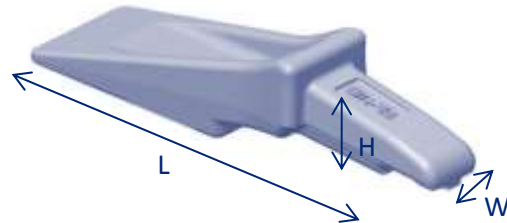
## GROUND ENGAGING TOOLS

### LIS®-SYSTEM REPLACEMENT FOR LEHNHOFF






All Lehnhoff replacements made by LIS® guarantee a solid, valuable alternative for machines in the compact segment.

The system is available in two different styles. The first one is retained by plugging the tip into an adapter case and banking a punched plate. The other is locked by tightening the punched plate using a screw locking.

You will find styles and sizes below



Art.-No.	Type	H(mm)	W(mm)	L(mm)	Leg (mm)
SF301B	1	35	30	227	100
SF404F	2	23	30	160	65
SF400F	2	33	35	212	80
SF411B	2	33	35	235	80

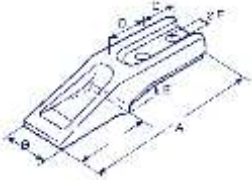





Backhoe 	-	SF301B	-
Adapter 	-	SF301C	-
Loader 	SF404F	SF400F	SF411B
Adapter 	SX04	SF411C	SF411C
Plate 	-	SF11S	SF11S
Screw lock (no image)	SF1005	SF1012	SF1012

## GROUND ENGAGING TOOLS

### LIS®-SYSTEM MINI TIPS

LIS® mini tips fit mini and midi excavators of all popular manufacturers.

Mini teeth are mainly characterized by a bolt locking device with the exception of one weld-on tip in our portfolio.

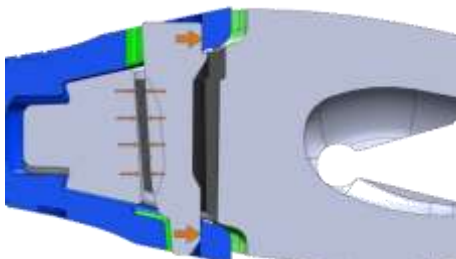
	Art.-No.	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	Bolt
	SF100	190	43	40-45	37	19	13	M12/45 M12
	SX100DLL	190	43	40-55	37-42	19	13	M12/45 M12
	SX105	180	50	40-45	40	15	13	M12/45Sik M12
	SX108L	210	57	55-60	42	20	17	M16/50SKIMB M16
	SF20.1	222	53	50	48	17	15	M14/50 M14
	SF20.5	222	53	60	51	17	13	M12/50 M12
	SF20.10	222	53	55	42	22	16	M16/50 M16
	6Y6335	273	63	75	51	22	17	4F3656 4K0367
	GAZ5-8SF	275	61	72	47	22	18	M16/60 M16
	SF82501186	275	61	65	67	22	15	M14/45 M14
	SX88	260	41	45	55	20	20	5J4771 2J3506
	SX89 (l.) SX90 (r.)	260	41	45	55	20	20	5J4771 2J3506
		SF101	180	50	85	-	15	-

## GROUND ENGAGING TOOLS

### FEURST FASTKEY

On a premium level we distribute the patented Fastkey system by French manufacturer Feurst.

The unique feature is visible looking at the system's geometry. The adapter's nose as well as the tip's inside shows different lengths and levels which guarantees a tight fit without room for movements or torsion in horizontal neither vertical direction.



Additionally, the preformed rubber plug exerts constantly pressure on the pin which leads to a long-lasting fit of all components.













As soon as the pin is hammered into the tapered rubber plug, the plug tries to expand, pushes back the pin which consequently tears the tip close to the adapter.

Thanks to more than 50 years of experience in casting processes, especially in the field of GET, Feurst products will assure a superior quality.

Choosing this product you will get excited about the reliability of your new Fastkey parts.

## GROUND ENGAGING TOOLS











### FEURST FASTKEY

Type	FKM	FK1	FK2	FK3	FK4	FK5	FK7	FK9	FK11	FK13
 Short	-	FK1 C	-	-	-	-	-	-	-	-
 Standard	-	FK1 TLR	FK2 TLR	FK3 TLR	FK4 TLR	FK5 TLR	FK7 TLR	FK9 TLR	FK11 TLR	-
 Loader	FKM CE	FK1 CE	FK2 CE	FK3 CE	FK4 CE	FK5 CE	FK7 CE	FK9 CE	-	-
 Loader abrasive	-	-	-	-	-	-	FK7 RA	FK9 RA	FK11 RA	-
 Tiger	-	FK1 PE	FK2 PE	FK3 PE	FK4 PE	FK5 PE	FK7 PE	FK7 PE	FK9 PE	FK13 PE
 Chisel	-	FK1 PR	FK2 PR	FK3 PR	FK4 PR	FK5 PR	FK7 PR	FK9 PR	FK11 PR	FK13 PR
 Chisel Heavy Duty	-	-	-	-	-	FK5 PR R	FK7 PR R	FK9 PR R	FK11 PR R	FK13 PR R
 Twin Tiger	FKM DPE	FK 1 DPE	FK2 DPE	FK3 DPE	FK4 DPE	FK5 DPE	FK7 DPE	FK9 DPE	FK11 DPE	-
 Abrasion	-	-	-	-	-	-	-	-	FK11 A	-
 Super Abrasion	-	FK1 SA	FK2 SA	FK3 SA	FK4 SA	FK5 SA	FK7 SA	FK9 SA	FK11 SA	FK13 SA
 Pin	FKM CL	FK1 CL	FK2 CL	FK3 CL	FK4 CL	FK5 CL	FK7 CL	FK9 CL	FK11 CL	FK13 CL
 Retainer	FKM SB	FK1 SB	FK2 SB	FK3 SB	FK4 SB	FK5 SB	FK7 SB	FK9 SB	FK11 SB	FK13 SB



## GROUND ENGAGING TOOLS

### FEURST FASTKEY









Type	FKM	FK1	FK2	FK3	FK4	FK5	FK7	FK9	FK11	FK13
Blade (mm)	20	20	25	25	30/40	35	40	45/50	60	70
 Mini	FKM 1220	FK1 1220	FK2 1225	-	-	-	-	-	-	-
 Flush	-	FK1 1020	FK2 1025	FK3 1025	FK4 1030	FK5 1035	FK7 1040	FK9 1045	-	-
 Standard	-	-	-	FK3 1525	FK4 1530 1540	FK5 1535	FK7 1540	-	-	-
 Standard Heavy Duty	-	-	-	-	-	-	-	FK9 1545 PA 1550 PA	FK11 1560	FK13 1570
 Weld-on Nose	-	-	FK2 NS	FK3 NS	FK4 NS	FK5 NS	FK7 NS	FK9 NS	-	-
 Clam Shell	-	-	-	FK3 BP	FK4 BP	-	-	-	-	-
 Corner Adapter	-	-	-	-	-	-	-	-	FK11 C60 L/R	-
 Wear Cap	-	-	-	-	-	-	-	S9 PA	S11 PA	FK13 PA
 Pin	FKM CL	FK1 CL	FK2 CL	FK3 CL	FK4 CL	FK5 CL	FK7 CL	FK9 CL	FK11 CL	FK13 CL
 Retainer	FKM SB	FK1 SB	FK2 SB	FK3 SB	FK4 SB	FK5 SB	FK7 SB	FK9 SB	FK11 SB	FK13 SB

## GROUDN ENGAGING TOOLS

### FEURST SIDEKEY

For all machines still being equipped with Esco Super V, Feurst's Sidekey series represents the top-quality replacement solution.

All tips and locking devices are form-fit to original Esco adapters, so that their performance is of likewise functionality.

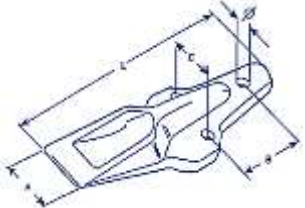


Type	SDM	SD1	SD2	SD3	SD4	SD5	SD7	SD8	SD9	SD10	SD11	SD12	SD13
replaces	V13	V17	V18	V19	V23	V29	V33	V39	V43	V51	V59	V61	V69
 Standard	SDM TLRC	SD1 TLR	-	SD3 TLR	SD4 TLR	SD5 TLR	SD7 TLR	SD8 TLR	SD9 TLR	SD10 TLS	SD11 TLS	SD12 TLS	SD13 TLS
 Loader	-	SD1 CE	SD2 CE	SD3 CE	SD4 CE	SD5 CE	SD7 CE	SD8 CE	SD9 CE	-	-	-	-
 Tiger	SDM PE	SD1 PE	SD2 PE	SD3 PE	SD4 PE	SD5 PE	SD7 PE	SD8 PE	SD9 PE	SD10 PE	SD11 PE	SD12 PE	SD13 PE
 Chisel	-	-	-	-	SD4 PR	SD5 PR	SD7 PR	SD8 PR	SD9 PR	SD10 PR-D	SD11 PR-D	SD12 PR-D	SD13 PR-D
 Chisel Heavy Duty	-	-	-	-	-	-	-	-	-	SD10 PR-R	SD11 PR-R	SD12 PR-R	-
 Twin Tiger	SDM DPE	SD1 DPE	SD2 DPE	SD3 DPE	SD4 DPE	SD5 DPE	SD7 DPE	SD8 DPE	SD9 DPE	SD10 DPE	SD11 DPE	SD12 DPE	-
 Super Abrasion	-	-	-	SD3 SA	SD4 SA	SD5 SA	SD7 SA	SD8 SA	SD9 SA	SD10 SA	SD11 SA	SD12 SA	-
 Pin	SDM CL	SD1 CL	SD2 CL	SD3 CL	SD4 CL	SD5 CL	SD7 CL	SD8 CL	SD9 CL	SD10 CL	SD11 CL	SD12 CL	SD13 CL

## GROUND ENGAGING TOOLS

### LIS®-SYSTEM CLAM SHELL



#### BOLT-ON

Bolt-on clam shell tips

	Art.-No.	L (mm)	A (mm)	B (mm)	C (mm)	Ø (mm)	Machine
	SF1218797 M20/60 ; M20	335	70	90	70	21	Atlas 1218797
	SF9169430 M16/60 ; M16	330	80	140	80	18	Liebherr 9169430 Peiner 08030173

#### WELD-ON








Weld-on clam shell tips

Art.-No.	Width (mm)	Height (mm)	Depth (mm)	Machine
LIS7754 	180	120	65	Terex Fuchs HDMS 04 HDMS 05 HDMS 06
LIS1712 	154	127	67	Liebherr SL 50,55, 60, 60B, 64, 65, 69, 70, 70B, 70C, 72

## GROUND ENGAGING TOOLS

### LIS®-SYSTEM CRUSHER TIPS

Our portfolio of crusher tips includes replacements for Atlas Copco, Verachtert and Caterpillar machines.

	Art.-No.	Reference	A (mm)	B (mm)	C (mm)	D (mm)	Machine
	L933	3363069933	247	52	50	25,5	
	L931	3363069931	293,5	62	70	25,5	
	L963	3363098963	320	70	90,3	25,5	
	VE0383	169-0383	225	54	44	28	MP15, VT30
	VE3089	169-3089 280-9200 602205	260	60	54	26	MP20/30, P115/120, VT40/50
	SS441900	169-6069	393	20	52	32	MP15/30, VT30/40/50

## GROUND ENGAGING TOOLS

### ATTACHMENTS

The ground engaging tool's program is completed by blades, side cutters and anti-wear strips. Those attachments optimize your bucket to your specific needs.

#### BLADES

We are able to offer one or two beveled blades in all kinds of sizes starting at a hardness of 250HB up to 500HB. If desired, we can also supply tailored dimensions.

Usually, we stock our blades in a length of 3m, due to your needs, we can also supply 6m of course. Below you will find an outline of the blades available

HB250	HB400	HB500	Width (mm)	Thickness (mm)	Kg/m
MS110.12.3NH1	MS110.12.HB400	MS110.12.HB500	110	12	9,6
MS150.16.3NH1	MS150.16.HB400	MS150.16.HB500	150	16	18,3
MS150.20.3NH1	MS150.20.HB400	MS150.20.HB500	150	20	22,1
MS200.20.3NH1	MS200.20.HB400	MS200.20.HB500	200	20	29,1
MS200.25.3NH1	MS200.25.HB400	MS200.25.HB500	200	25	36,7
MS250.25.3NH1	MS250.25.HB400	MS250.25.HB500	250	25	45,8
MS250.30.3NH1	MS250.30.HB400	MS250.30.HB500	250	30	57,6
MS300.30.3NH1	MS300.30.HB400	MS300.30.HB500	300	30	66,6
MS300.35.3NH1	MS300.35.HB400	MS300.35.HB500	300	35	79,1
MS300.40.3NH1	MS300.40.HB400	MS300.40.HB500	300	40	90,4
-	-	MS400.45.HB500	400	45	132,6
-	-	MS400.50.HB500	400	50	148,6

#### ANTI-WEAR STRIPS

Extending the operating life of your bucket our anti-wear strips hardened to approx. 400HB are very helpful.

Art.-No.	Width (mm)	Thickness (mm)	Length (mm)	Weight Kg/m
VS10103	100	10	3000	8,6
VS10153	100	15	3000	12,5
VS12203	120	20	3000	19,2
VS13153	130	15	3000	21,0
VS18203	180	20	3000	28

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#### SIDE CUTTERS

Our sidecutters boost the resistance of your bucket's sides.

They are manufactured in standardized sizes, so that they fit common buckets.



Art.-No.	A (mm)	B (mm)	C (mm)
10150LS	305	55	15
10151LS	450	70	23
10153LS	506	76	25
10154LS	620	95	32
10155LS	675	90	35

#### BUCKET

You are not only looking for single attachments but like to get a bucket ready for operation?

Please contact us!

Make yourself comfortable and we will provide your customized bucket.

You only have to specify either your working conditions or your desired configuration and get your bucket supplied straight to the desired spot.



## GROUND ENGAGING TOOLS

### BOLTS

Ø-thread	5/8" (15,9mm)	3/4" (19,1mm)	7/8" (22,2mm)	1" (25,4mm)	1 1/4" (31,8mm)
length					
1 1/2" (38,1mm)	4F3664				
1 3/4" (44,5mm)	4F3653				
2" (50,8mm)	4F3654	4F3672			
2 1/4" (57,2mm)	3F5108	4F7827			
2 1/2" (63,5mm)	4F3656	5J4773	5J4772	3J2801	
2 3/4" (69,9mm)	4F3657	5J4771	6F0196	1J5607	
3" (76,2mm)	4F3658	4F0138	5J2409	4F4042	
3 1/4" (82,6mm)	PB5/8*3 1/4	PB3/4*3 1/4	8J2935	4J9058	8T9079
3 1/2" (88,9mm)	4F3665	PB3/4*3 1/2	2J2548	4J9208	
3 3/4" (95,3mm)	4F0391	5F8933	PB7/8*3 3/4	1J4948	6V6535
3 7/8" (98,4mm)					5P8823
4" (101,6mm)	PB5/8*4		PB7/8*4	5P8136	
4 1/4" (108,0mm)		1J0962	2J5458		
4 1/2" (114,3mm)		4F0253	PB7/8*2 1/2	1J3527	6V8360
4 5/8" (117,2mm)		1J6761	1J0849		
5" (127,0mm)	4F3671			1J2034	5P8361
5 1/4" (133,3mm)				1J4947	
Nut	4K0367	2J3506	2J3505	2J3507	3K9770
Nut, conical				8J2933	5P8362
Shim	5P8247	5P8248	5P8249	5P8250	4K0684
Lock washer	3B4510	3B4512	3B4514	3B4516	3B4520

## EQUIPMENT

### SPARE PARTS

Not only undercarriages and ground engaging tools are exposed to tremendous wear. In a while, you need to change other parts of your machine as well. Hence, you can also get engine parts, oil filter and generators for Caterpillar, Komatsu and Volvo.

### TURBO PRECLEANER

Turbo precleaner have especially been developed to keep the very aggressive fine dust out of the air before it reaches the air cleaner.



### SNIPPTec

Snipptec is dedicated to an optimization of your vehicle's power using special attaching parts or fuel refiner. The company declares that all components influence the performance and mileage just on a physical basis. This leads to enhanced engine elasticity as well as remarkable savings in fuel consumption.





## WARRANTY

### LIS SPARE PARTS

For all spare parts LIS warrants an error-free operation for 6 months from the date of purchase.

### LIS UNDERCARRIAGE

For undercarriages LIS issues a warranty of 12 months.  
This warranty is limited to 1500 operating hours.

### LIS RUBBER TRACKS

For rubber tracks to 485 mm width LIS issues a warranty of 18 months.  
This warranty is limited to 1500 operating hours.  
For rubber tracks from 500 mm width LIS issues a warranty of 18 months.  
This warranty is limited to 1000 operating hours.

### LIS RUBBER PADS

For rubber pads LIS issues a warranty of 18 months from the manufacturing date respectively 12 months or 1000 operating hours from the date of installation.

### LIS GROUND ENGAGING TOOLS

Ground Engaging Tools are subject to a life-time warranty against breakage.

The warranty is restricted to faulty workmanship but not to wear caused by normal usage.  
The customer has to return the damaged product to a LIS dealer close-by or to the LIS central warehouse. Additionally, he has to pay the costs of the transport.  
After inspection and evaluation, LIS will repair, replace or credit the product.  
In no event shall LIS be liable for consequential or special damages for breach of the above warranties or of any other warranty which may be implied by law.