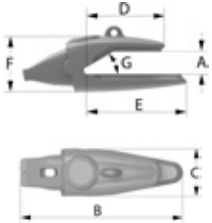
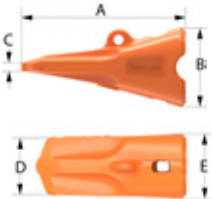


W09 SPECIFICATIONS

Adapters, teeth and accessories



BE



GPE



ML-lock



Typical machine weight - Excavator
Maximum breakout force in HD/XHD

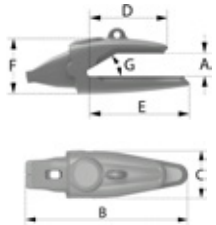
25-35 MT
168 kN

Type	Part. no		Weight kg	Lip thickness mm	A mm	B mm	C mm	D mm	E mm	F mm	Lip bevel angle°
BE	709010		14.8	40	42	380	111	131	227	133	30
BE	709011		14.7	50	52	380	111	131	227	133	30
GPE	709100		8.9		286	141	14	103	127		
ML-lock*	709302		0.5		107						

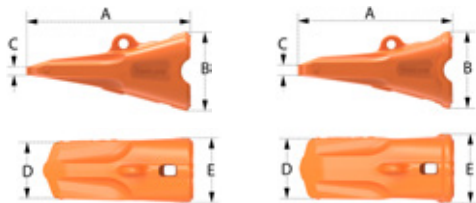
* Use a 10 mm socket wrench to mount and dismount the mechanical lock 709302.

W10 SPECIFICATIONS

Adapters, teeth and accessories



BE 



GPE 



SL-lock



AE 



ML-lock











T-tool



Typical machine weight - Excavator
Maximum breakout force in HD/XHD

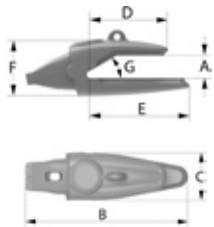
35-50 MT
232 kN

Type	Part. no		Weight kg	Lip thickness mm	A mm	B mm	C mm	D mm	E mm	F mm	Lip bevel angle°
BE	710010		25.0	50	52	457	132	184	280	158	30
BE	710011		24.4	60	62	457	132	184	280	158	30
GPE	710100		13.0		324	153	15	120	138		
AE	710110		15.1		334	153	19	129	138		
SL-lock	710301		0.4		124	38					
ML-lock*	710302		0.5		122						
T-tool	700700		1.2								

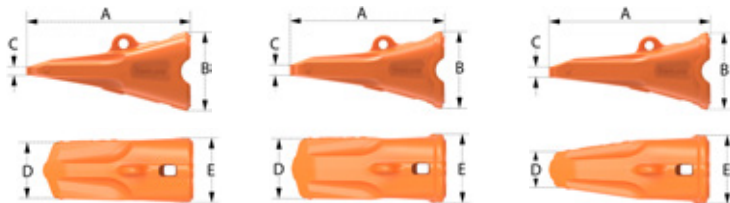
* Use a 11 mm socket wrench to mount and dismount the mechanical lock 710302.

W20 SPECIFICATIONS

Adapters, teeth and accessories



BE 



GPE 

AE 

PE 













SL-lock

ML-lock

T-tool



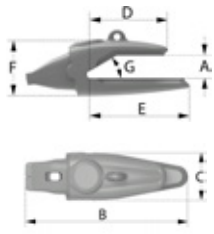
Typical machine weight - Excavator 40-60 MT
Maximum breakout force in HD/XHD 326 kN
Typical machine weight - Face shovel 40-80 MT
Maximum breakout force in HD/XHD 408 kN

Type	Part. no	 	Weight kg	Lip thickness mm	A mm	B mm	C mm	D mm	E mm	F mm	Lip bevel angle°
BE	720010		40.5	70	72	545	157	227	329	186	30
BE	720011		42.1	60	62	545	157	227	329	186	30
GPE	720100		20.9		376	189	18	139	169		
AE	720110		24.7		387	189	26	148	169		
PE	720120		23.1		404	189	25	87	169		
SL-lock	720301		0.8		146	51					
ML-lock*	720302		0.8		146						
T-tool	700700		1.2								

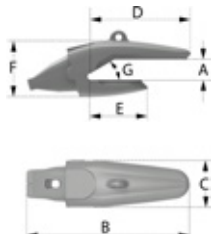
* Use a 13 mm socket wrench to mount and dismount the mechanical lock 720302.

W25 SPECIFICATIONS

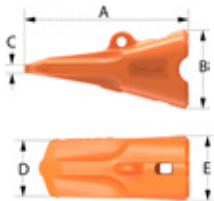
Adapters, teeth and accessories



BE



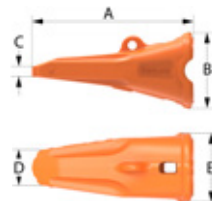
TL



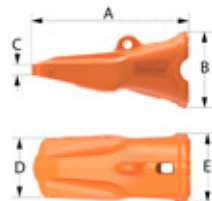
GPE



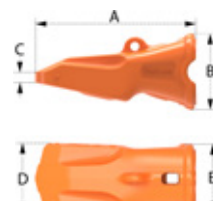
AE



PE



AL



XAL



SL-lock



ML-lock



T-tool



Typical machine weight - Excavator
Maximum breakout force in HD/XHD
Typical machine weight - Face shovel
Maximum breakout force in HD/XHD
Typical machine weight - Loader
Maximum breakout force in HD/XHD

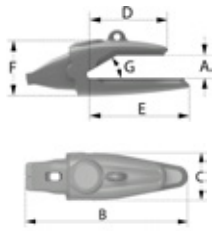
50-70 MT
412 kN
50-100 MT
515 kN
50-100 MT
736 kN

Type	Part. no			Weight kg	Lip thickness mm	A mm	B mm	C mm	D mm	E mm	F mm	Lip bevel angle°
BE	725010			58.3	80	82	605	177	289	367	205	30
BE	725011			58.0	70	72	605	177	289	367	207	30
TL	825026			59.1	75	77	619	177	379	216	214	30
GPE	725100			28.1		413	201	20	157	180		
AE	725110			33.5		426	213	28	168	192		
PE	725120			31.5		445	213	28	99	192		
AL	825110			39.0		434	213	28	167	192		
XAL	825111			48.5		443	213	28	197	192		
SL-lock	725301			1.0		160	58					
ML-lock*	725302			1.0		160						
T-tool	700700			1.2								

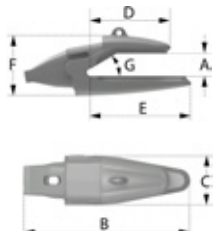
* Use a 13 mm socket wrench to mount and dismount the mechanical lock 725302.

W30 SPECIFICATIONS

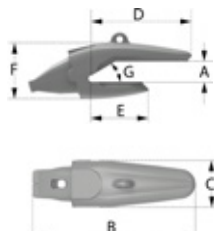
Adapters, teeth and accessories



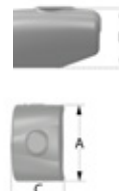
BE



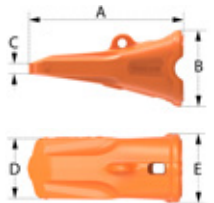
BME



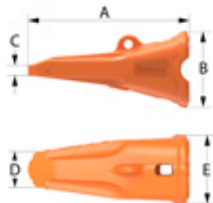
TL



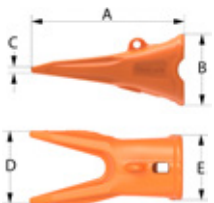
CM



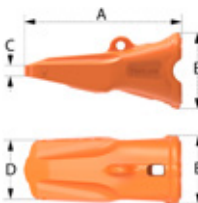
AE



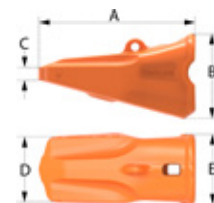
PE



WE



AL



HAL



SL-lock



ML-lock



SML-lock



T-tool



Typical machine weight - Excavator
Maximum breakout force in HD/XHD
Typical machine weight - Face shovel
Maximum breakout force in HD/XHD
Typical machine weight - Loader
Maximum breakout force in HD/XHD

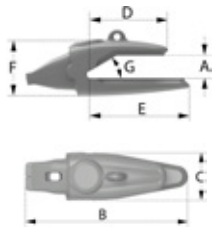
70-120 MT
506 kN
100-120 MT
633 kN
100-205 MT
904 kN

Type	Part. no			Weight kg	Lip thickness mm	A mm	B mm	C mm	D mm	E mm	F mm	Lip bevel angle°
BE	730010			85.5	90	92	678	202	317	408	243	30
BME	730012			79.0	90	92	678	202	317	408	238	30
TL	830024			90.6	75	77	695	202	420	244	249	30
TL	830026			89.7	90	92	695	202	420	244	252	30
CM	730501			7.6		213	88	142				
AE	730110			48.0		469	236	31	190	215		
PE	730120			44.5		481	236	30	115	215		
WE	730125			40.7		505	236	20	240	215		
AL	830110			54.5		478	236	31	188	215		
HAL	830112			72.3		478	258	37	200	215		
SL-lock	730301			1.5		179	68					
SML-lock*	730312			1.4		180						
ML-lock*	730302			1.4		180						
T-tool	700700			1.2								

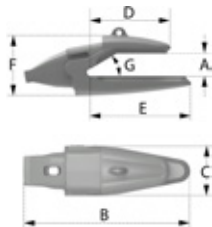
* Use a 17 mm socket wrench to mount and dismount the mechanical lock 730302.

W40 SPECIFICATIONS

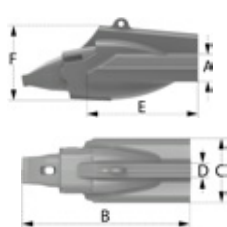
Adapters, teeth and accessories



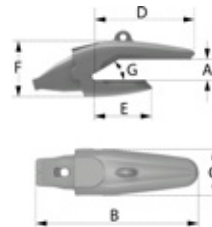
BE



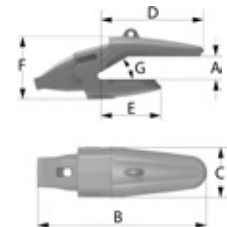
BME



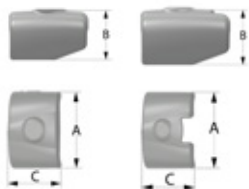
CCE



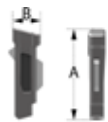
TL



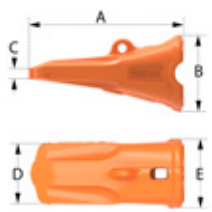
MTL



CM, CCM



SL-lock



AE



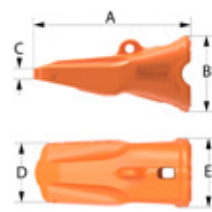
ML-lock



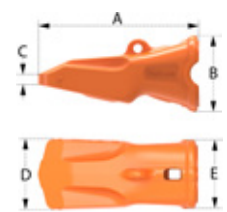
PE



T-tool



AL



XAL

Typical machine weight - Excavator
Maximum breakout force in HD/XHD
Typical machine weight - Face shovel
Maximum breakout force in HD/XHD
Typical machine weight - Loader
Maximum breakout force in HD/XHD

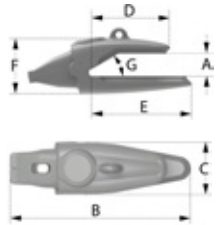
120-200 MT
623 kN
120-300 MT
779 kN
>205 MT
1113 kN

Type	Part. no			Weight kg	Lip thickness mm	A mm	B mm	C mm	D mm	E mm	F mm	Lip bevel angle°
BE	740010			127.0	100	102	760	226	364	457	274	30
BME	740012			118.0	100	102	760	226	364	457	274	30
BE	740014			142.0	120	123	814	226	394	498	294	30
BME	740015			135.0	120	123	814	226	394	498	294	30
CCE	740080			294,7	100-120	120	847	320	70	530	358	
TL	840026			128.0	100	103	774	226	465	273	281	30
MTL	840027			122.3	100	103	774	226	465	273	282	30
CM	740501			11.9		238	100	161				
CCM	740502			10,6		238	100	161				
AE	740110			65.0		521	262	34	210	238		
PE	740120			59.5		534	262	33	129	238		
AL	840110			74.0		531	262	34	208	238		
XAL	840111			87.0		543	262	34	201	238		
SL-lock	740301			1.9		200	75					
ML-lock*	740302			2.2		200						
T-tool	700700			1.2								

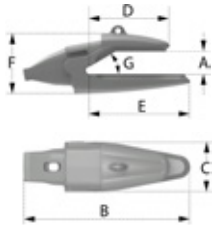
* Use a 19 mm socket wrench to mount and dismount the mechanical lock 740302.

W50 SPECIFICATIONS

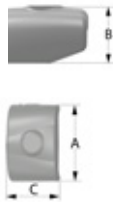
Adapters, teeth and accessories



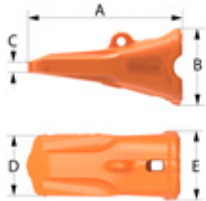
BE



BME



CM



AE



ML-lock



Typical machine weight - Excavator 180-250 MT
 Maximum breakout force in HD/XHD 761 kN
 Typical machine weight - Face shovel 180-360 MT
 Maximum breakout force in HD/XHD 951 kN

Type	Part. no		Weight kg	Lip thickness mm	A mm	B mm	C mm	D mm	E mm	F mm	Lip bevel angle°
BE	750010		170.5	120	123	831	248	394	498	301	30
BME	750012		159.5	120	123	831	248	394	498	301	30
CM	750501		16.5		261	110	181				
AE	750110		86.0		570	287	37	231	262		
ML-lock*	750302		3.0		220						

* Use a 19 mm socket wrench to mount and dismount the mechanical lock 750302.

EXCAVATOR

Adapters and teeth

ADAPTER

BE

Standard bottom leg adapter. Low profile design, improved flow of material in and out of bucket.

BME

Bottom leg adapter with a mechanical wear cap. The top of the adapter is well protected against excess wear.

CCE

Casted corner adapter with mechanical wear cap. The welded adapter is designed to withstand the toughest conditions.

WEAR CAP

CM

Mechanical wear cap protects the adapter top side in high abrasion and impact applications.

CCM

Mechanical wear cap to be used together with the casted corner adapter

TOOTH

AE

Abrasion tooth for highly abrasive soils and rocks such as granite, basalt and sandstone. The design provides maximal wear material with maintained good penetration.

PE

Penetration tooth with added body mass and narrow tip combines penetration with impact and abrasion resistance.

GPE

Standard tooth with slim design for optimal penetration and durability in general purpose applications.

WE

Penetration tooth for hard surface layers and compact terrain.

LOCK

SL

Standard lock provides easy and secure tooth replacement. The vulcanized rubber core provides a strong and tight fit.

ML

Mechanical lock for safer mounting and dismounting procedure

SML

Mechanical reusable lock for work in hot slag applications with safer mounting and dismounting

TOOL

T

Tool for mounting and dismounting the locking device. Simplifies the change of teeth and is recommended for safety reasons.



LOADER

Adapters and teeth

ADAPTER

TL

Standard top leg adapter. Low profile design, improved flow of material in and out of bucket.

MTL

Top leg adapter with a mechanical wear cap. The top of the adapter is well protected against excess wear.

WEAR CAP

CM

Mechanical wear cap protects the adapter top side in high abrasion and impact application.

LOCK

SL

Standard lock provides easy and secure tooth replacement. The vulcanized rubber core provides a strong and tight fit.

ML

Mechanical lock for safer mounting and dismounting procedure.

SML

Mechanical reusable lock for work in hot slag applications with safer mounting and dismounting.

TOOTH

AL

Standard tooth which offers good penetration. Optimal in both general and highly abrasive environments.

XAL

Abrasion tooth for highly abrasive soils and rocks such as granite, basalt and sandstone. The design provides maximal wear material with maintained good penetration.

HAL

Abrasion tooth with maximized wear material in the tip. The design provides additional wear material with maintained good penetration.

TOOL

T

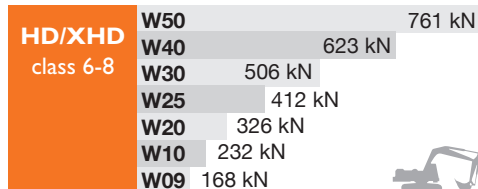
Tool for mounting and dismounting the locking device. Simplifies the change of teeth and is recommended for safety reasons.

APPLICATION TABLE

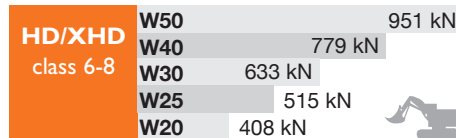
APPLICATION TABLE Based on DIN 18300 ground classification			
Ground classification	Description of ground conditions	Working conditions	Application
Class 1 Top soil without stones	Top layer of soil.	Very little wear. Very little penetration resistance. No impact resistance.	GP
Class 2 Wet ground	Sludge, mud, peat.	Little wear. Very little penetration resistance. No impact resistance.	GP
Class 3 Light ground	Sand, fine gravel, sandy soil. Stone size up to approx. 60 mm	Moderate wear. Little penetration resistance. No impact resistance.	GP
Class 4 Moderately heavy ground	Very stony ground, gravel, stones. Stone size above 60 mm.	Considerable wear. Some penetration resistance. Moderate impact resistance.	GP / HD
Class 5 Dense, moderately heavy ground	Till, rigid clay, sand-clay mix, moraine, marl.	Considerable wear. Moderate penetration resistance. Little impact, some break through resistance.	HD
Class 6 Dense, heavy ground	Hard marl and clay, hard sandy ground, hard stony soil. Stone size up to approx. 200 mm.	Considerable wear. Considerable penetration resistance. Considerable impact and break through resistance.	HD
Class 7 Lighter rock	Loose rock, crumbled rock, slate. Very hard ground with stones, approx. 200 mm or bigger.	Usually considerable wear. Considerable penetration resistance. Considerable impact and break through resistance.	XHD
Class 8 Heavy rock	Blasted rock, size over 0,1 m ³ .	Very significant wear. Considerable penetration resistance. Very significant impact and break through resistance.	XHD

For further information on welding, assembly and maintenance, see welding and assembly instructions.

Breakout force diagram – Backhoe



Breakout force diagram – Face shovel



Breakout force diagram

