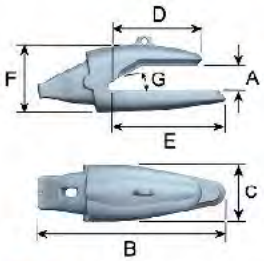
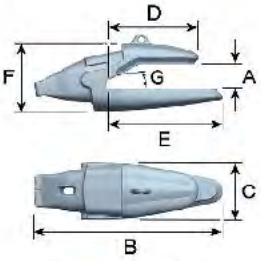
W50 SPECIFICATIONS Teeth, Adapters, Accessories



BE



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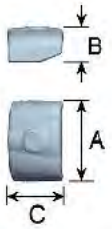

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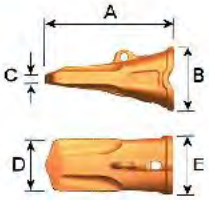
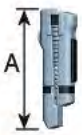


AE



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	G nose angle*
BE	750010	170.5	120	123	831	248	394	498	301	10
BME	750012	159.5	120	123	831	248	394	498	301	10
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.*

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EXCAVATOR TEETH AND ADAPTERS

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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.

WEAR CAP

CM

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

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 dismoiunting procedure

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.

TOOL

T

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

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LOADER TEETH AND ADAPTERS

ADAPTER

TL	MTL
Standard top leg adapter. Low profile design, improved flow of material in and out of bucket.	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 tha adepter top side in high abrasion and impact application.

LOCK

SL	ML
Standard lock provides easy and secure tooth replace-ment. The vulcanized rubber core provides a strong and tight fit.	Mechanical lock for safer mounting and dismoiunting procedure

TOOTH

AL	XAL
Standard tooth which offers good penetration. Optimal in both general and highly abrasive environments.	Abrasion tooth for highly abrasive soils and rocks such as granite, basalt and sand-stone. The design provides maximal wear material with maintained good penetration.

TOOL

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

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SHROUDS EXCAVATOR & LOADER

LIP SHROUD

MSC

Mechanical lip shroud
Center
For straight edges and for use in combination with MSL & MSR on spade nose buckets. Provides full lip protection between adapters in abrasive applications.

MSL

Mechanical lip shroud
Left*
15° angle for delta and spade nose buckets.

* Left from excavating direction.

MSR

Mechanical lip shroud
Right*
15° angle for delta and spade nose buckets.

* Right from excavating direction.

MSP

Mechanical shroud protector designed to protect the locking device and the backside of the shrouds.

RAIL

WSR

Welded on shroud rail holds the lip shrouds in secure position.

LOCKING PARTS

Shroud Lock, Bolt and Washer

Self tightening lock, bolt and washer for the mechanical shroud.

SIDE SHROUD

SSM

Mechanical side shroud is used to protect the bucket side plates and fastened with pin and ring.

PIN AND RING

PIN AND RING

Locking pin and ring for the side shroud.

HEEL SHROUD

WHS

Welded on heel shroud provides excellent wear protection of the lower outside corner of all types of buckets.

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APPLICATION TABLE

APPLICATION TABLE Based on DIN 18300 ground classfication

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

HD/XHD class 6-8	W50	761 kN
	W40	623 kN
	W30	506 kN
	W25	412 kN
	W20	326 kN
	W10	232 kN
	W09	168 kN
GP/HD class 1-5	W50	951 kN
	W40	779 kN
	W30	633 kN
	W25	515 kN
	W20	408 kN
	W10	290 kN
	W09	210 kN

Breakout force diagram – Face shovel

HD/XHD class 6-8	W50	951 kN
	W40	779 kN
	W30	633 kN
	W25	515 kN
	W20	408 kN
GP/HD class 1-5	W50	1188 kN
	W40	973 kN
	W30	791 kN
	W25	643 kN
	W20	509 kN

Breakout force diagram

HD/XHD class 6-8	W40	1113 kN
	W30	904 kN
	W25	736 kN
GP/HD class 1-5	W40	1390 kN
	W30	1130 kN
	W25	919 kN

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