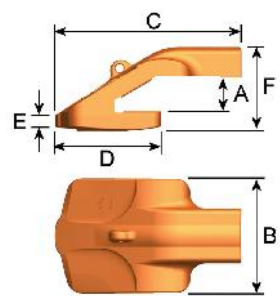
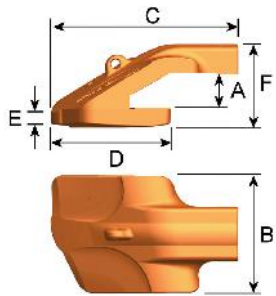


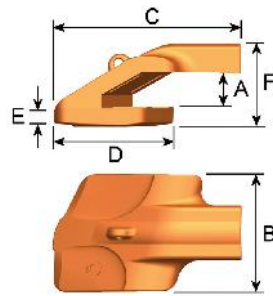
# Lip Shroud 90 mm SPECIFICATIONS



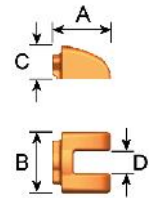
MSCE



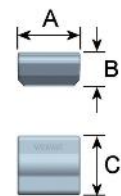
MSLE



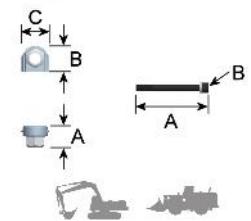
MSRE



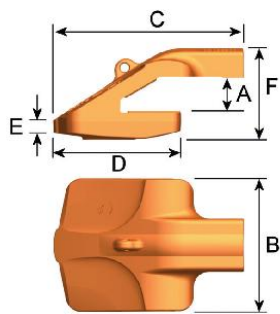
MSP



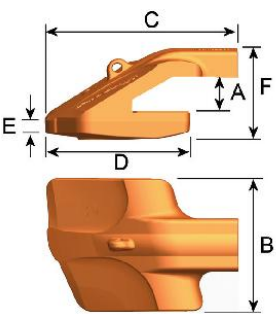
WSR



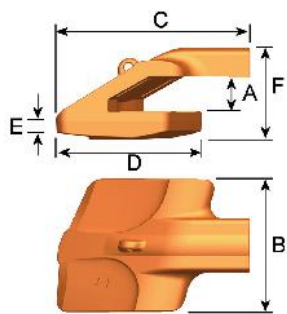
SL, Washer, Bolt



MSCL



MSLL



MSRL

Type	Part. no		Angle	Weight kg	A mm	B mm	C mm	D mm	E mm	F mm
MSCE	700404		0°	81.4	93	320	506	288	32	228
MSLE	700405		15°	81.3	93	320	511	288	32	228
MSRE	700406		15°	81.3	93	320	511	288	32	228
MSCL	800404		0°	116.5	93	370	527	354	34	253
MSLL	800405		15°	116.0	93	370	532	354	34	253
MSRL	800406		15°	116.0	93	370	532	354	34	253
MSP	700424			7.0	140	148	82	54		
WSR	700413			3.3	110	60	105			
SL	700303			0.5	51	60	68			
Washer	700330									
Bolt	700350			1.3	260					



# EXCAVATOR TEETH AND ADAPTERS

## 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 dismounting 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.



# LOADER TEETH AND ADAPTERS

## 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

## 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.

## TOOL

### T

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



# SHROUDS EXCAVATOR & LOADER

## LIP SHROUD

MSC	MSL	MSR	MSP
<p><b>Mechanical lip shroud Center</b></p> <p>For straight edges and for use in combination with MSL &amp; MSR on spade nose buckets. Provides full lip protection between adapters in abrasive applications.</p>	<p><b>Mechanical lip shroud Left*</b></p> <p>15° angle for delta and spade nose buckets.</p> <p>* Left from excavating direction.</p>	<p><b>Mechanical lip shroud Right*</b></p> <p>15° angle for delta and spade nose buckets.</p> <p>* Right from excavating direction.</p>	<p><b>Mechanical shroud protector</b> designed to protect the locking device and the backside of the shrouds.</p>

RAIL	LOCKING PARTS	SIDE SHROUD	PIN AND RING
<p><b>WSR</b></p> <p>Welded on shroud rail holds the lip shrouds in secure position.</p>	<p><b>Shroud Lock, Bolt and Washer</b></p> <p>Self tightening lock, bolt and washer for the mechanical shroud.</p>	<p><b>SSM</b></p> <p>Mechanical side shroud is used to protect the bucket side plates and fastened with pin and ring.</p>	<p><b>PIN AND RING</b></p> <p>Locking pin and ring for the side shroud.</p>

## HEEL SHROUD

WHS
<p>Welded on heel shroud provides excellent wear protection of the lower outside corner of all types of buckets.</p>

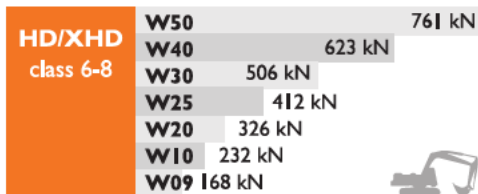


# APPLICATION TABLE

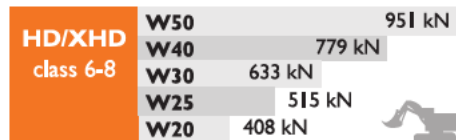
APPLICATION TABLE Based on DIN 18300 ground classification			
Ground classification	Description of ground conditions	Working conditions	Application
Class 1 Top soil without stones	Top layer of soil.	Very little wear. Very little penetration resistance. No impact resistance.	GP
Class 2 Wet ground	Sludge, 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 <sup>3</sup> .	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

