



EXCAVATOR TEETH AND ADAPTERS

| ADAPTER | | WEAR CAP | |
|---|--|---|--|
| BE | SL | UA | WC/WCC |
| A 1 1/2 bottom leg adapter. Designed for both general and tough excavation in different types of ground. | Top mounted single leg adapter designed for use in general conditions whenever a smooth surface is required. | A 1 ½ top leg adapter. Designed for both excavators and loaders. Can be used with or without a wear cap. | Mechanical wear cap protects the adapter topside in high abrasion and impact applications. |

| LOCK | |
|--|---|
| LP | LR |
| Reusable locking pin of forged steel also usable in hot slag applications. | Locking ring integrated in the tooth. Secures the locking function and simplifies teeth exchange. |

| TOOTH | | | |
|---|---|--|---|
| GPE | VE | WE | FE |
| Standard tooth with slim design for optimal penetration and durability in general purpose applications. | The tooth for maximum penetration. Makes light work of hard surface layers and frozen ground. | Used primarily in a corner position in combination with VE, this tooth provides the penetration demanded by hard surfaces. | An extra-wide tooth for excavating and cleaning – penetration and straight-edge performance from a single solution. |

| TOOTH | TOOTH | TOOL |
|---|---|--|
| AE | PE | LT |
| Abrasion tooth for highly abrasive soils and rocks such as granite, basalt and sandstone. The design provides maximal wear material with maintained good penetration. | Penetration tooth with added body mass and narrow tip combines penetration with impact and abrasion resistance. | Tool for turning the locking ring in locked and unlocked position. |

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LOADER TEETH AND ADAPTERS

| ADAPTER | | WEAR CAP | |
|------------|---|-----------|---|
| SL | Top mounted single leg adapter designed for use in general conditions whenever a smooth surface is required. | TL | A 1 1/2 top leg adapter. Designed for both general and tough loading in different types of ground conditions. |
| UA | A 1 ½ top leg adapter. Designed for both excavators and loaders. Can be used with or without a wear cap. | WC | Mechanical wear cap protects the adapter topside in high abrasion and impact applications. |
| LOCK | | | |
| LP | Reusable locking pin of forged steel also usable in hot slag applications. | LR | Locking ring integrated in the tooth. Secures the locking function and simplifies teeth exchange. |
| TOOTH | | | |
| GPL | In both general and highly abrasive environments. This all-round tooth is popular for its excellent penetration. | AL | Abrasion tooth with a high level of penetration. Recommended in blasted rock application. |
| HAL | Outstanding wear resistance combined with a high level of penetration. This tooth provides extra protection for the lower part of the adapter and is ideal where ground conditions are highly abrasive. | | |
| TOOL | | | |
| LT | Tool for turning the locking ring in locked and unlocked position. | | |



SHROUDS EXCAVATOR

LIP SHROUD

| MSC | MSL | MSR | MSP |
|--|---|---|---|
| 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. | Mechanical lip shroud Left* 15° angle for delta and spade nose buckets. * Left from excavating direction. | Mechanical lip shroud Right* 15° angle for delta and spade nose buckets. * Right from excavating direction. | Mechanical shroud protector designed to protect the locking device and the backside of the shrouds. |

| RAIL | LOCKING PARTS | SIDE SHROUD | PIN AND RING |
|---|--|--|---|
| WSR | SHROUD LOCK, BOLT AND WASHER | SSM | PIN AND RING |
| Welded on shroud rail holds the lip shrouds in secure position. | Self tightening lock, bolt and washer for the mechanical shroud. | Mechanical side shroud is used to protect the bucket side plates and fastened with pin and ring. | Locking pin and ring for the side shroud. |

| HEEL SHROUD | WELD-ON LIP SHROUD | | |
|---|--|--|--|
| WHS | WSCE | WSLE | WSRE |
| Welded on heel shroud provides excellent wear protection of the lower outside corner of all types of buckets. | Weld-on lip shroud, Center. Fits 40-70mm straight cutting edges. | Weld-on lip shroud Left*. Fits 60-70mm cutting edges with 15° angle. *Left from excavating direction. | Weld-on lip shroud Right*. Fits 60-70mm cutting edges with 15° angle. *Right from excavating direction. |

| WELD ON BASE |
|---|
| WOB |
| Welded on protection of lip shroud pins, welded both on inside and outside. |

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APPLICATION TABLE

APPLICATION TABLE Based on DIN 18300 ground classification

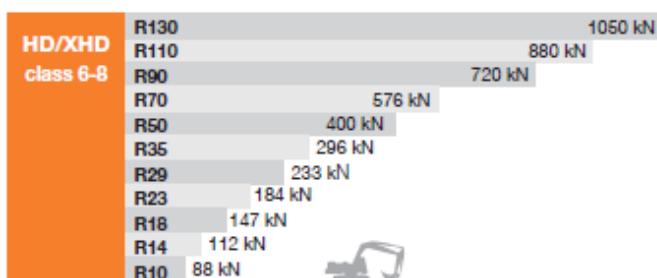
| Ground classification | Description of ground conditions | Working conditions | Application |
|---|--|--|-------------|
| Class 1 Top soil without stones | Top layer of soil. | Very little wear. Very little penetration resistance. No impact resistance. | GP |
| Class 2 Wet ground | Sludge, mud, peat. | 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 ² . | 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.

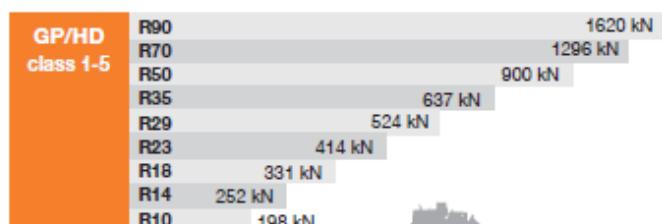
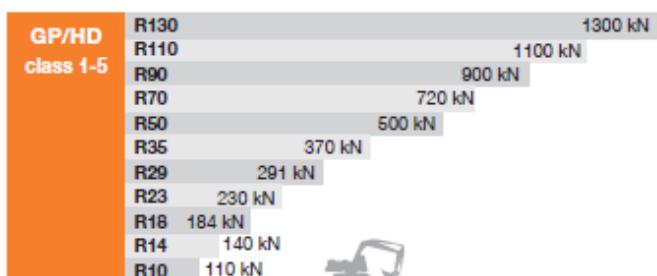
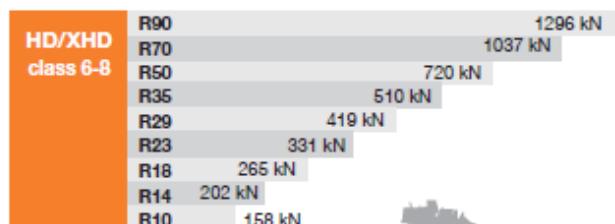


SELECTION GUIDE

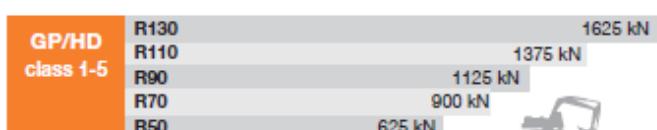
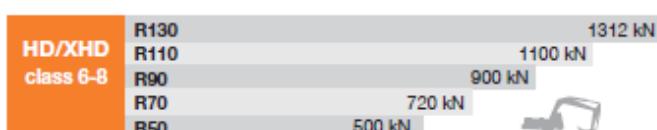
Breakout force diagram – Backhoe



Breakout force diagram – Loader



Breakout force diagram – Face shovel



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