

CUTTING THE WORLD



## CUTTING TOOLS

FOR ROTARY DRUM CUTTERS

 **erkat**<sup>®</sup>

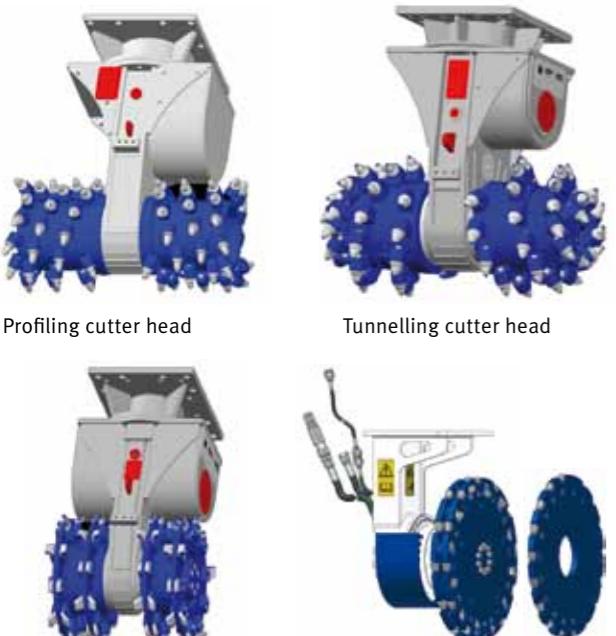
# ROUND ATTACK PICKS, PICK BOXES, RETAINING CLIPS

for **erkat** rotary drum cutters and cutter wheels

**erkat** rotary drum cutters work under extremely hard conditions in trenching, demolition, rock excavation and tunnelling, in steel mills as in other unusual applications. This puts very high demands on the cutter drums and cutting tools.

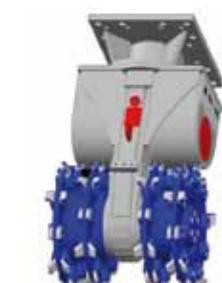
The result of many years experience, with machines working in thousands of applications around the world, can be seen in the type of picks used and their cutting pattern on **erkat** equipment. This unique combination provides maximum productivity with minimum wear, ensuring the economical performance of **erkat** drum cutters even in the hardest conditions. Modern technology and continuous product development are the basics for ensuring the economic benefits of using our drum cutters and cutting tools.

In addition to alternative design cutter drums, we also offer a large variety of pick types even for unusual applications.



Profiling cutter head

Tunnelling cutter head



Wood cutting head

**Series ES**  
with wood and slotting wheels

In our range of cutter picks, we have paid special attention to the optimum shape, high quality materials and sustainable quality of the production process. This helps you to keep your consumable costs to a minimum.



**ERW 1000** trenching in medium hard limestone

Additional head designs are in main product catalogue.

This catalogue should provide an overview of our standard range of cutter tools, pick boxes and retainer clips, suitable for a wide range of applications.

If you have an extremely unusual application or requirement, don't hesitate to contact us. Our specialists are pleased to provide advice and support in your search for the most suitable cutter tools.



„Several picks piece by piece“

4 - 5

## Round attack picks, pick boxes, retaining clips

6 - 13

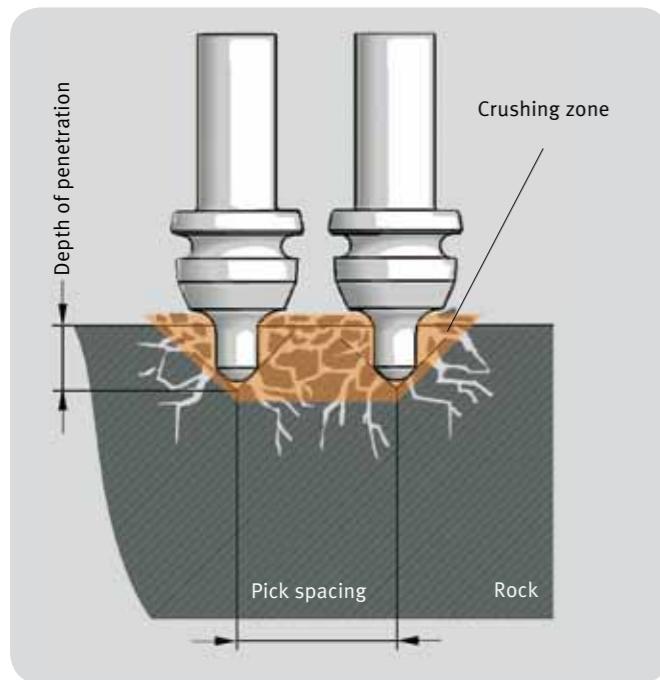
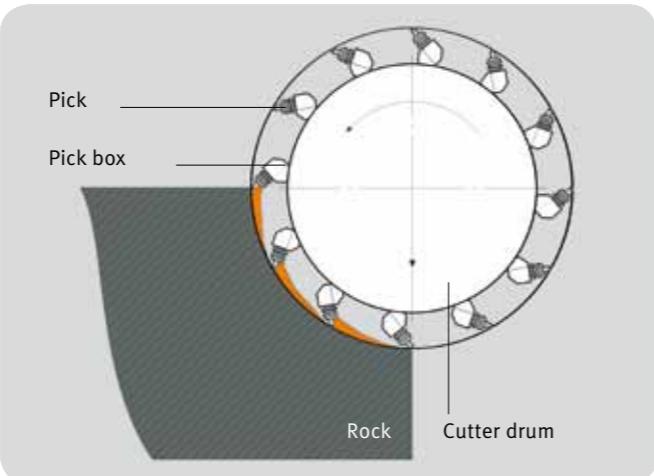
| Symbol                             | Model            | Cutter type                  | Product catalogue Page | Tool catalogue Page |
|------------------------------------|------------------|------------------------------|------------------------|---------------------|
|                                    | <b>ER 50</b>     | Transverse drum cutters      | 20                     | 6                   |
|                                    | <b>ER 100</b>    | Transverse drum cutters      | 20                     | 7                   |
|                                    | <b>ER 250</b>    | Transverse drum cutters      | 20                     | 7   8               |
|                                    | <b>ER 600</b>    | Transverse drum cutters      | 20                     | 9                   |
|                                    | <b>ER 650</b>    | Transverse drum cutters      | 20                     | 9                   |
|                                    | <b>ER 1200</b>   | Transverse drum cutters      | 20                     | 10                  |
|                                    | <b>ER 1500</b>   | Transverse drum cutters      | 20                     | 10                  |
|                                    | <b>ER 2000</b>   | Transverse drum cutters      | 20                     | 10                  |
|                                    | <b>ER 3000</b>   | Transverse drum cutters      | 20                     | 12                  |
|                                    | <b>ER 5500</b>   | Transverse drum cutters      | 20                     | 13                  |
|                                    | <b>ER 250 L</b>  | Longitudinal drum cutters    | 26                     | 7                   |
|                                    | <b>ER 400 L</b>  | Longitudinal drum cutters    | 26                     | 7                   |
|                                    | <b>ER 450 L</b>  | Longitudinal drum cutters    | 26                     | 8                   |
|                                    | <b>ER 600 L</b>  | Longitudinal drum cutters    | 26                     | 8                   |
|                                    | <b>ER 1500 L</b> | Longitudinal drum cutters    | 26                     | 10                  |
|                                    | <b>EX 30</b>     | Surface Planers (Exactor)    | 28                     | 7                   |
|                                    | <b>EX 45</b>     | Surface Planers (Exactor)    | 28                     | 7                   |
|                                    | <b>EX 60</b>     | Surface Planers (Exactor)    | 28                     | 7                   |
|                                    | <b>ES 30</b>     | Universal cutters (Flexator) | 30                     | 7   14              |
|                                    | <b>ES 45</b>     | Universal cutters (Flexator) | 30                     | 7   14              |
|                                    | <b>ES 60</b>     | Universal cutters (Flexator) | 30                     | 7   14              |
|                                    | <b>ERW 600</b>   | Cutter wheels (Erwetor)      | 32                     | 9                   |
|                                    | <b>ERW 1000</b>  | Cutter wheels (Erwetor)      | 32                     | 10                  |
|                                    | <b>EK 800</b>    | Chain cutter (Erkator)       | 34                     | 10                  |
| Non-standard and special picks     |                  |                              | 14 - 18                |                     |
| Tools for installation and removal |                  |                              | 19                     |                     |

# SEVERAL PICKS – „PIECE BY PIECE“

## THE OPTIMUM SHAPE

The type of round attack picks and their pattern on the cutter drum determines how effectively rock is cut which requires specialist knowledge and expertise in geology and cutting technology.

It is the pick that breaks portions of rock out during the cutting operation. Due to the range of rock types, their hardness and toughness, a variety of drum design are required to achieve optimum penetration in each type of rock.



For each model of drum cutter, **erkat** offers a range of pick types allowing the best possible solution for each application. For example:

**ER 15/90/70/30 (1)**  
Narrow pick head with small diameter insert, for use in soft rock

**ER 17/75/70/30 (2)**  
Standard pick head with medium diameter insert, for use in soft to medium hard rock

**ER 22/75/70/30 (3)**  
Standard pick head with medium diameter insert, for use in medium to hard rock

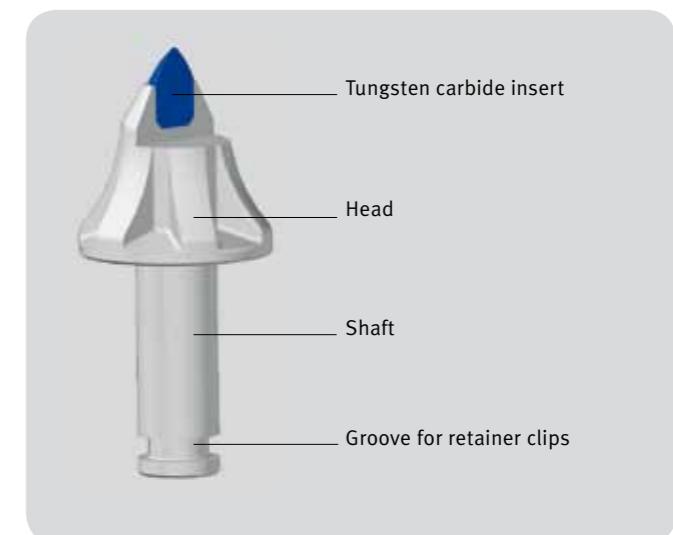
**ER 25/77/70/30 (4)**  
Standard pick head with large diameter insert, for use in very hard rock

**ER 30/77/70/30 (5)**  
Standard pick head with large insert cap, for use in soft to medium hard but abrasive rock



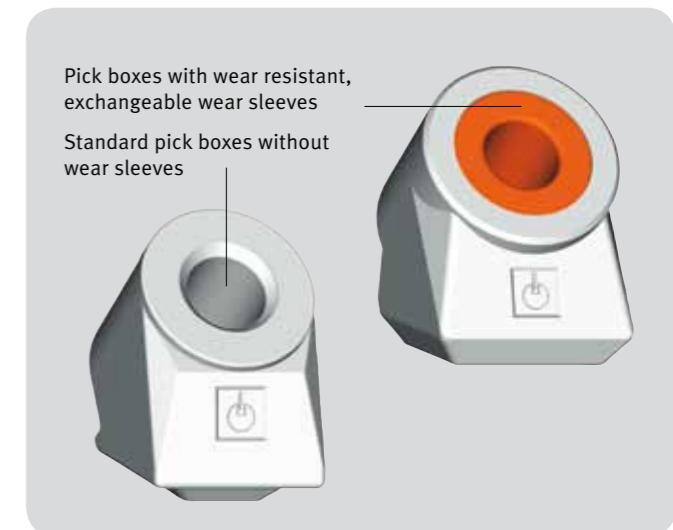
## ROUND ATTACK PICKS

The tungsten carbide insert braised into the body of the pick is at the heart of the cutting operation and is subject to extreme stresses due to it coming continuously into contact with the rock. The pick body, (head and shaft) is made from heat-treated steel and serves as the support for the tungsten carbide insert and also as protection for the pick box. The tungsten carbide insert is extremely wear resistant and tough to withstand impact. The insert is a sintered material made up of tungsten carbide with a cobalt binder. Depending on application, a variety of carbide grades and shapes are available.



## PICK BOXES

Pick boxes welded onto the cutter head determine where and how picks penetrate into the rock. The special attack angle ensures a continuous rotation of the pick creating a self sharpening action for the tungsten carbide insert during the cutting action. The correct angle ensures maximum productivity with minimum wear. Pick boxes are also made from specially heat treated steel and depending on applications, are available with exchangeable wear sleeves.



## RETAINING CLIPS

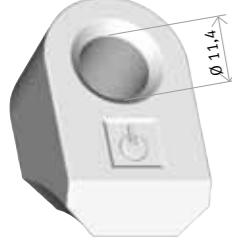
Retaining clips ensure that picks do not fly out of the pick boxes. Various types of retaining clip are available depending on pick type and application area e.g. retaining collars for soft rock or circlip type systems for hard rock applications.

For quick and easy changing of picks, **erkat** offers the **QuickSnap** retaining system, which allows picks to be changed in a matter of seconds. This represents a saving of over 50% in time compared with normal circlip or knock on retainer systems.



Easier and quicker pick changes with **erkat QuickSnap**

# ER 50



|             |              |
|-------------|--------------|
| Pick box    | <b>PH 50</b> |
| Part Number | 70 04 99     |



|             |                                    |
|-------------|------------------------------------|
| Pick type   | <b>ER 11/28/24/12</b>              |
| Part Number | 11 28 24 12                        |
| Application | Concrete, soft to medium hard rock |



|             |                                |
|-------------|--------------------------------|
| Retainer    | Retaining clip<br><b>ES 50</b> |
| Part Number | 99 99 99 51                    |

Dimension in mm | Associated installation and removal tools on page 19

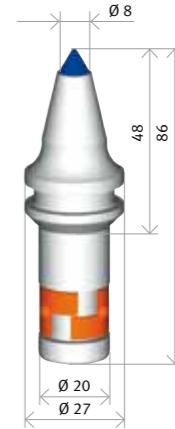
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**ER 100, 250** (Models up to 06/2012)

**ER 250 L, 400 L**

**EX 30, 45, 60** (Series HD inclusive)

**ES 30, 45, 60**



|             |               |
|-------------|---------------|
| Pick box    | <b>PH 250</b> |
| Part Number | 72 10 24      |

|             |                                    |
|-------------|------------------------------------|
| Pick type   | <b>ER 12/45/38/20 K</b>            |
| Part Number | 12 45 38 20                        |
| Application | Concrete, soft to medium hard rock |

|             |                         |
|-------------|-------------------------|
| Pick type   | <b>ER 09/51/25/20 K</b> |
| Part Number | 9 51 25 20              |
| Application | Soft rock, salt, gypsum |



|             |                                    |
|-------------|------------------------------------|
| Pick type   | <b>ER 16/46/38/20 S</b>            |
| Part Number | 16 46 38 20                        |
| Application | Concrete, soft to medium hard rock |

|             |                          |
|-------------|--------------------------|
| Pick type   | <b>ER 16/48/32/20 HC</b> |
| Part Number | 16 48 32 20              |
| Application | Asphalt                  |

|             |                          |
|-------------|--------------------------|
| Pick type   | <b>ER 19/48/36/20 HC</b> |
| Part Number | 19 48 36 20              |
| Application | Asphalt                  |

|             |                                 |
|-------------|---------------------------------|
| Retainer    | Retaining clip<br><b>ES 250</b> |
| Part Number | 99 99 99 91                     |

Dimension in mm | Associated installation and removal tools on page 19

# ER 250 (Models from 07/2012)

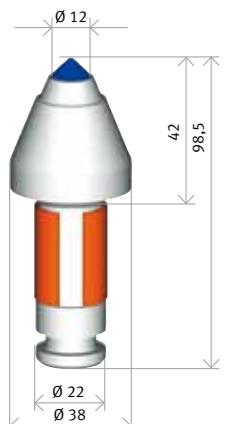
## ER 450 L, 600 L



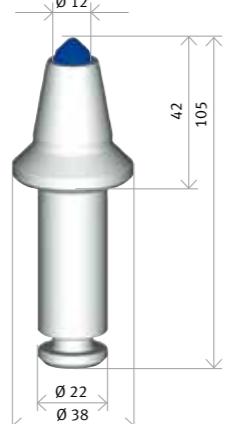
|  |                  |
|--|------------------|
| <b>Pick box</b>  | <b>PH 450 UA</b> |
| <b>Part Number</b>   | 72 10 25 UA      |
| This pick box replaces the previous type PH 450 (part number 72 10 25) |                  |



|  |                         |
|--|-------------------------|
| <b>Pick type</b>                                   | <b>ER 19/51/45/22 H</b> |
| <b>Part Number</b>                                 | 19 51 45 22             |
| <b>Application</b> Asphalt, soft and abrasive rock |                         |



|  |                          |
|--|--------------------------|
| <b>Pick type</b>   | <b>ER 12/45/38/22 HC</b> |
| <b>Part Number</b>   | 12 45 38 23              |
| <b>Application</b> Concrete, medium hard and abrasive rock |                          |



|   |                         |
|---|-------------------------|
| <b>Pick type</b>                              | <b>ER 12/45/38/22 S</b> |
| <b>Part Number</b>                            | 12 45 38 22             |
| <b>Application</b> Concrete, medium hard rock |                         |



|   |                         |
|---|-------------------------|
| <b>Pick type</b>                              | <b>ER 15/46/38/22 S</b> |
| <b>Part Number</b>                            | 15 46 38 22             |
| <b>Application</b> Concrete, medium hard rock |                         |



|                    |                |
|--------------------|----------------|
| <b>Retainer</b>    | Retaining clip |
| <b>Part Number</b> | ES 450         |



|                    |                |
|--------------------|----------------|
| <b>Retainer</b>    | Retaining clip |
| <b>Part Number</b> | ES 450         |



|                    |                |
|--------------------|----------------|
| <b>Retainer</b>    | Retaining clip |
| <b>Part Number</b> | ES 450         |

Dimension in mm | Associated installation and removal tools on page 19

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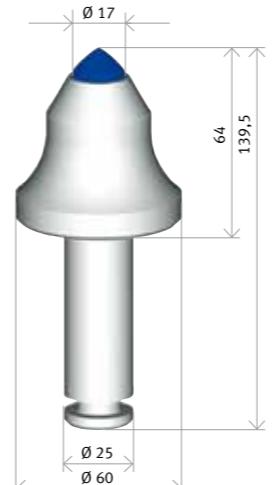
# ER 600, 650 ERW 600



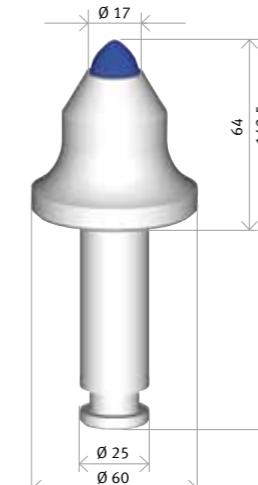
|                    |               |
|--------------------|---------------|
| <b>Pick box</b>    | <b>PH 600</b> |
| <b>Part Number</b> | 76 10 25      |



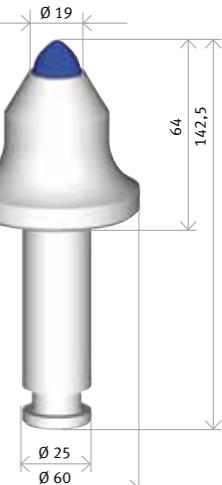
|  |                          |
|--|--------------------------|
| <b>Pick type</b>                                   | <b>ER 22/64/60/25 HS</b> |
| <b>Part Number</b>                                 | 22 64 60 25              |
| <b>Application</b> Asphalt, soft and abrasive rock |                          |



|  |                         |
|--|-------------------------|
| <b>Pick type</b>                                 | <b>ER 17/64/60/25 S</b> |
| <b>Part Number</b>                               | 17 64 60 25             |
| <b>Application</b> Concrete, medium to hard rock |                         |



|  |                         |
|--|-------------------------|
| <b>Pick type</b>                                 | <b>ER 17/64/60/25 Q</b> |
| <b>Part Number</b>                               | 17 64 60 26             |
| <b>Application</b> Concrete, medium to hard rock |                         |



|  |                         |
|--|-------------------------|
| <b>Pick type</b>                                 | <b>ER 19/64/60/25 Q</b> |
| <b>Part Number</b>                               | 19 64 60 26             |
| <b>Application</b> Concrete, medium to hard rock |                         |



|                    |                |
|--------------------|----------------|
| <b>Retainer</b>    | Retaining clip |
| <b>Part Number</b> | ES 600         |



|                    |           |
|--------------------|-----------|
| <b>Retainer</b>    | QuickSnap |
| <b>Part Number</b> | QS 600    |



|                    |           |
|--------------------|-----------|
| <b>Retainer</b>    | QuickSnap |
| <b>Part Number</b> | QS 600    |

Dimension in mm | Associated installation and removal tools on page 19

 **erkat**®

# ER 1200, 1500, 2000

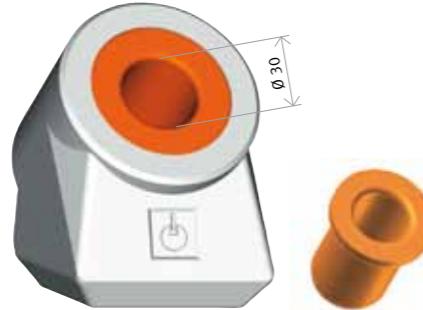
## ER 1500 L

## ERW 1000, 600 HD

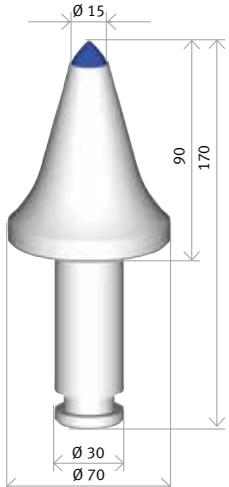
## EK 800



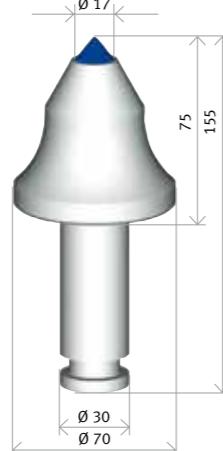
|                              |                |
|------------------------------|----------------|
| <b>Pick box</b>              | <b>PH 1200</b> |
| <b>Part Number</b>           | 71 10 26       |
| <b>For drum cutter model</b> | ER 1200        |



|                                |  |
|--------------------------------|--|
| <b>Pick box</b>                | <b>PH 1500</b>                           |
| <b>Part Number</b>             | 71 10 22                                 |
| <b>For drum cutter model</b>   | ER 1500, ER 2000<br>ERW 600 HD, ERW 1000 |
| <b>Replacement wear sleeve</b> |  |



|                    |   |
|--------------------|---|
| <b>Pick type</b>   | <b>ER 15/90/70/30 Q</b>                   |
| <b>Part Number</b> | 15 90 70 35                               |
| <b>Application</b> | Salt, gypsum, medium hard, fractured rock |



|                    |                            |
|--------------------|----------------------------|
| <b>Pick type</b>   | <b>ER 17/75/70/30 Q</b>    |
| <b>Part Number</b> | 17 75 70 35                |
| <b>Application</b> | Concrete, medium hard rock |



|                    |                            |
|--------------------|----------------------------|
| <b>Pick type</b>   | <b>ER 19/75/70/30 Q</b>    |
| <b>Part Number</b> | 19 75 70 35 E              |
| <b>Application</b> | Concrete, medium hard rock |



|                    |                          |
|--------------------|--------------------------|
| <b>Retainer</b>    | <b>QuickSnap QS 5000</b> |
| <b>Part Number</b> | 99 50 00 30              |



|                    |                          |
|--------------------|--------------------------|
| <b>Retainer</b>    | <b>QuickSnap QS 5000</b> |
| <b>Part Number</b> | 99 50 00 30              |



|                    |                          |
|--------------------|--------------------------|
| <b>Retainer</b>    | <b>QuickSnap QS 5000</b> |
| <b>Part Number</b> | 99 50 00 30              |

## ALTERNATIVE PICKS FOR ER 1200, ER 1500 AND ER 2000



|                    |                            |
|--------------------|----------------------------|
| <b>Pick type</b>   | <b>ER 17/75/70/30 S</b>    |
| <b>Part Number</b> | 17 75 70 30 S              |
| <b>Application</b> | Concrete, medium hard rock |



|                    |                               |
|--------------------|-------------------------------|
| <b>Pick type</b>   | <b>ER 19/75/70/30 S</b>       |
| <b>Part Number</b> | 19 75 70 30 S                 |
| <b>Application</b> | Concrete, medium to hard rock |



|                    |                                     |
|--------------------|-------------------------------------|
| <b>Pick type</b>   | <b>ER 30/77/70/30 S</b>             |
| <b>Part Number</b> | 30 77 70 30                         |
| <b>Application</b> | soft, medium hard and abrasive rock |



|                    |                               |
|--------------------|-------------------------------|
| <b>Pick type</b>   | <b>ER 22/75/70/30 Q</b>       |
| <b>Part Number</b> | 22 75 70 30                   |
| <b>Application</b> | Concrete, medium to hard rock |



|                    |  |
|--------------------|--|
| <b>Pick type</b>   | <b>ER 25/77/70/30 Q</b>                      |
| <b>Part Number</b> | 25 75 70 35                                  |
| <b>Application</b> | Re-enforced concrete, hard to very hard rock |



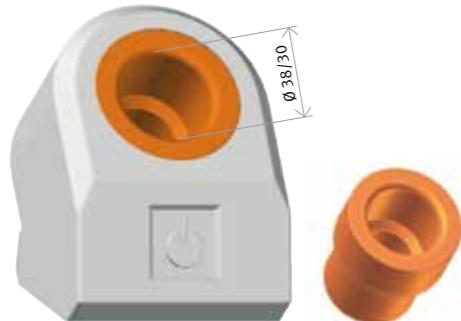
|                    |                                    |
|--------------------|------------------------------------|
| <b>Pick type</b>   | <b>ER 30/77/70/30 Q</b>            |
| <b>Part Number</b> | 30 77 70 31                        |
| <b>Application</b> | Soft to medium hard, abrasive rock |

Dimension in mm | Associated installation and removal tools on page 19

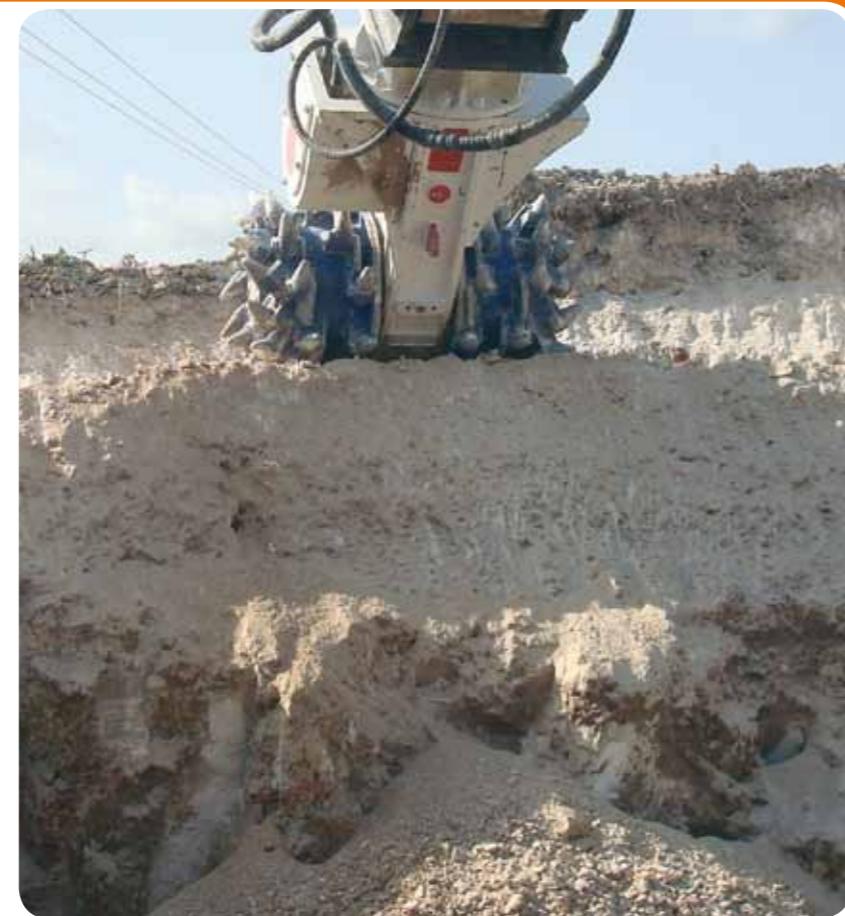
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Dimension in mm | Associated installation and removal tools on page 19

# ER 3000



|                                |                |
|--------------------------------|----------------|
| <b>Pick box</b>                | <b>PH 5300</b> |
| <b>Part Number</b>             | 75 30 10       |
| <b>Replacement wear sleeve</b> |                |
| <b>Part Number</b>             | 75 30 11       |



|                    |                            |
|--------------------|----------------------------|
| <b>Pick type</b>   | <b>ER 19/90/80/38-30 Q</b> |
| <b>Part Number</b> | 19 90 80 38 E              |
| <b>Application</b> | soft rock                  |



|                    |                          |
|--------------------|--------------------------|
| <b>Retainer</b>    | <b>QuickSnap QS 5000</b> |
| <b>Part Number</b> | 99 50 00 30              |



|                    |   |
|--------------------|---|
| <b>Pick type</b>   | <b>ER 25/77/80/38-30 Q</b>              |
| <b>Part Number</b> | 25 77 80 35 E                           |
| <b>Application</b> | Concrete, medium hard to very hard rock |



|                    |                          |
|--------------------|--------------------------|
| <b>Retainer</b>    | <b>QuickSnap QS 5000</b> |
| <b>Part Number</b> | 99 50 00 30              |

# ER 5500



|                                |                |
|--------------------------------|----------------|
| <b>Pick box</b>                | <b>PH 5500</b> |
| <b>Part Number</b>             | 75 30 20       |
| <b>Replacement wear sleeve</b> |                |
| <b>Part Number</b>             | 75 30 21       |



|                    |                          |
|--------------------|--------------------------|
| <b>Pick type</b>   | <b>ER 19/100/80/38 S</b> |
| <b>Part Number</b> | 19 100 80 38             |
| <b>Application</b> | soft rock                |



|                    |                                 |
|--------------------|---------------------------------|
| <b>Retainer</b>    | <b>Circlip retainer SG 5500</b> |
| <b>Part Number</b> | 99 55 00 38                     |



|                    |   |
|--------------------|---|
| <b>Pick type</b>   | <b>ER 25/80/80/38 S</b>                 |
| <b>Part Number</b> | 25 80 80 38                             |
| <b>Application</b> | Concrete, medium hard to very hard rock |



|                    |                                 |
|--------------------|---------------------------------|
| <b>Retainer</b>    | <b>Circlip retainer SG 5500</b> |
| <b>Part Number</b> | 99 55 00 38                     |

Dimension in mm | Associated installation and removal tools on page 19

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Dimension in mm | Associated installation and removal tools on page 19

# SPECIAL AND NON-STANDARD PICKS

## SERIES ES WOOD AND SLOTTING WHEELS



|             |                   |
|-------------|-------------------|
| Pick box    | for ES drag picks |
| Part Number | 79 10 35          |



|             |   |
|-------------|---|
| Pick type   | ES drag picks                                   |
| Part Number | 79 10 34  |
| Application | Wood, soft rock, soft, not re-enforced concrete |



|               |          |
|---------------|----------|
| Retaining pin | ES 06    |
| Part Number   | 70 50 69 |

## SERIES ER WOOD CUTTING PICKS



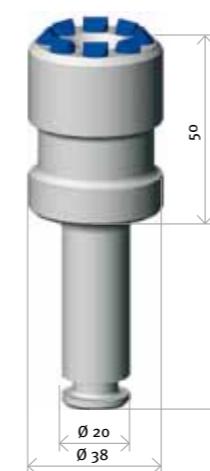
|             |          |
|-------------|----------|
| Pick box    | PH 250   |
| Part Number | 72 10 24 |



|             |          |
|-------------|----------|
| Pick box    | PH 600   |
| Part Number | 76 10 25 |



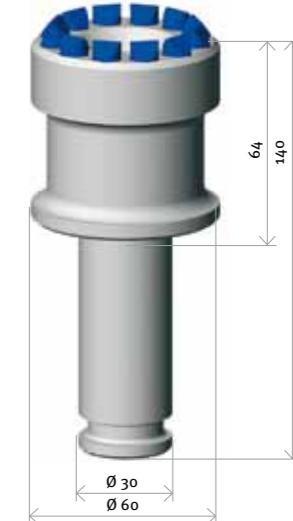
|             |          |
|-------------|----------|
| Pick box    | PH 1200  |
| Part Number | 71 10 26 |



|             |                           |
|-------------|---------------------------|
| Pick type   | ER 38/50/20 W             |
| Part Number | 38 48 50 19               |
| Application | Wood, tree stump grinding |



|             |                           |
|-------------|---------------------------|
| Pick type   | ER 38/51/25 W             |
| Part Number | 38 38 50 25               |
| Application | Wood, tree stump grinding |



|             |                           |
|-------------|---------------------------|
| Pick type   | ER 60/64/30 W             |
| Part Number | 70 70 75 30               |
| Application | Wood, tree stump grinding |



|             |                          |
|-------------|--------------------------|
| Retainer    | Retaining clip<br>ES 250 |
| Part Number | 99 99 99 96              |



|             |                          |
|-------------|--------------------------|
| Retainer    | Retaining clip<br>ES 600 |
| Part Number | 99 99 99 94              |



|             |                           |
|-------------|---------------------------|
| Retainer    | Retaining clip<br>ES 1500 |
| Part Number | 99 99 99 91               |

Dimension in mm | Associated installation and removal tools on page 19

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Dimension in mm | Associated installation and removal tools on page 19

 **erkat**®

# SPECIAL AND NON-STANDARD PICKS

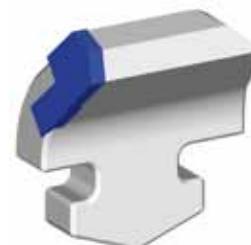
## SERIES ER 600-W, ER 650-W WOOD CUTTING PICKS FOR CUTTER DRUMS



| Pick box    | for threaded side |
|-------------|-------------------|
| Part Number | 72 63 25 44       |



| Pick box    | for nut side |
|-------------|--------------|
| Part Number | 72 63 25 43  |



| Pick type   | 20 cutters left           |
|-------------|---------------------------|
| Part Number | 70 65 57 14 L             |
| Application | Wood, tree stump grinding |



| Pick type   | 20 cutters right          |
|-------------|---------------------------|
| Part Number | 70 65 57 14 R             |
| Application | Wood, tree stump grinding |



| Pick type   | 40 cutters straight       |
|-------------|---------------------------|
| Part Number | 70 65 58 14               |
| Application | Wood, tree stump grinding |

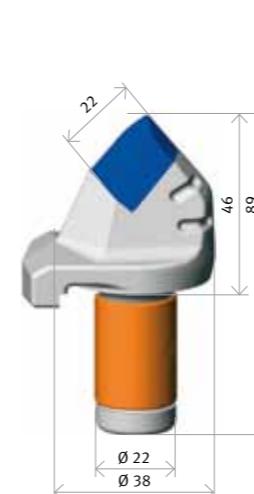
## SERIES ER 240, ER 450 L AND ER 600 L DRAGON-TOOTH-PICKS



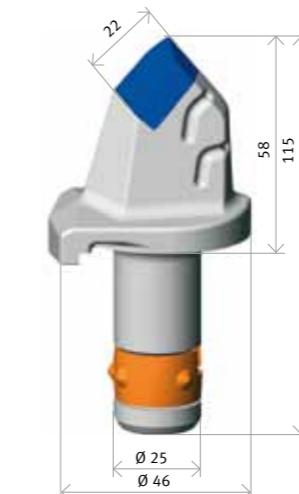
| Pick box    | PH 450 UA   |
|-------------|-------------|
| Part Number | 72 10 25 UA |



| Pick box    | PH 600 UA   |
|-------------|-------------|
| Part Number | 76 10 25 UA |



| Pick type   | DT 22/46/38/22                                |
|-------------|---|
| Part Number | 22 38 46 22                                   |
| Application | soft to medium hard, abrasive ground and rock |



| Pick type   | DT 22/58/46/25                                |
|-------------|---|
| Part Number | 22 46 58 25                                   |
| Application | soft to medium hard, abrasive ground and rock |

Dimension in mm | Associated installation and removal tools on page 19

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Dimension in mm | Associated installation and removal tools on page 19

# SPECIAL AND NON-STANDARD PICKS

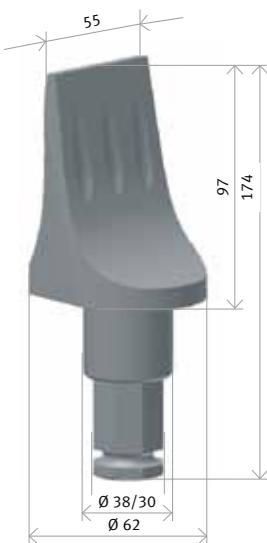
## SERIES ER 650, ER 1200 AND ER 1500 PICKS FOR MIXING APPLICATIONS



|             |                    |
|-------------|--------------------|
| Pick box    | <b>PH 3000 MIX</b> |
| Part Number | 76 50 05           |



|             |                   |
|-------------|-------------------|
| Pick box    | <b>PH 600 MIX</b> |
| Part Number | 76 50 01          |



|             |                                   |
|-------------|-----------------------------------|
| Pick type   | <b>EF 55/97/62/38-30 S</b>        |
| Part Number | 76 50 06                          |
| Application | Homogenous, soft and sticky soils |



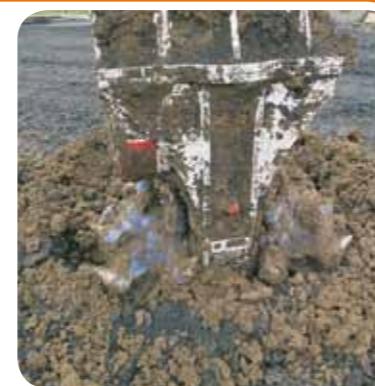
|             |                    |
|-------------|--------------------|
| Retainer    | <b>ES 3000 MIX</b> |
| Part Number | 76 500 60          |



|             |                                   |
|-------------|-----------------------------------|
| Pick type   | <b>EF 63/80/45/25 W</b>           |
| Part Number | 76 50 02                          |
| Application | Homogenous, soft and sticky soils |



|             |                               |
|-------------|-------------------------------|
| Retainer    | Fastening disk and lock nut   |
| Part Number | Disk 76 50 03<br>Nut 62 30 06 |



# MOUNTING AND DISMANTLING TOOLS



|             |   |
|-------------|---|
| <b>Tool</b> | <b>Knock-out tool</b>                                 |
| Part Number | for picks with shaft diameter 20-30 mm<br>99 99 99 95 |



|             |   |
|-------------|---|
| <b>Tool</b> | <b>Puller for picks with retaining sleeves</b>  |
| Part Number | for picks with shaft diameter 20-22 mm<br>99 99 99 97<br>for pick ER 16/48/32/20 HC (Page 7)<br>99 99 99 13 |



| <b>Tool</b> | <b>Mounting tool for retaining clips</b>  | <b>Dismantling tool for retaining clips</b>              |
|-------------|---|--|
| Part Number | for retaining clip ES 250<br>99 99 99 42<br>for retaining clip ES 450<br>99 99 99 47<br>for retaining clip ES 600<br>99 99 99 83<br>for retaining clip ES 1500<br>99 99 99 39 | 99 99 99 43<br>99 99 99 48<br>99 99 99 82<br>99 99 99 36 |



|             |   |
|-------------|---|
| <b>Tool</b> | <b>Mounting gripper for circlip retainers</b>   |
| Part Number | for picks with shaft diameter until 25 mm<br>99 99 99 40<br>for picks with shaft diameter from 30 mm<br>99 99 99 46 |



|             |  |
|-------------|--|
| <b>Tool</b> | <b>Puller tool for QuickSnap retainers</b> |
| Part Number | 99 99 50 00                                |



|             |  |
|-------------|--|
| <b>Tool</b> | <b>Knock out tool for stuck picks</b>  |
| Part Number | for picks with shaft diameter 20-25 mm<br>99 99 99 38<br>for picks with shaft diameter 30-38 mm<br>99 99 99 37 |

Dimension in mm | Associated installation and removal tools on page 19

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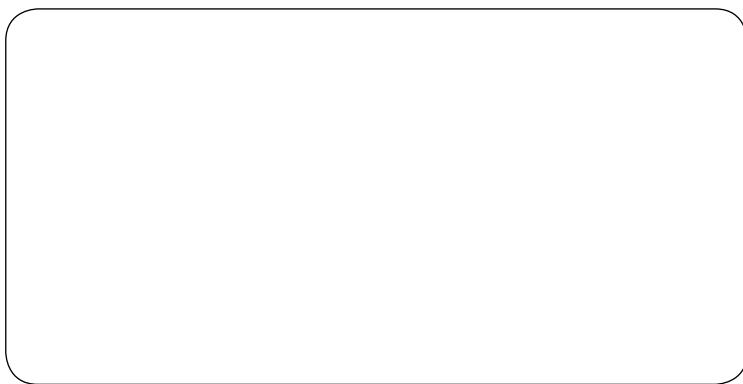
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