







## **CUTTING TOOLS**

for rotary drum cutters

## 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.

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.

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.



An ER transverse drum cutter cutting rock

Several	picks – "piece by piece"			4-5
Cutting	tools for <b>erkat</b> rotary drum cutte	rs and cutter wheels		
Symbol	Model	Cutter type	<mark>erkat</mark> Product catalogue Page	<mark>erkat</mark> Tool catalogue Page
	ER 40	TRANSVERSE	16	6
	ER 50	DRUM CUTTERS	16	6
	ER 100		16	7
	ER 250		16	7   8
	ER 600		16	9
	ER 650		17	9   11
	ER 1200		17	10
	ER 1500		17	10
	ER 2000		17	10
	ER 3000		17	12
	ER 5500		17	13
	ER 100 L	LONGITUDINAL	22	7
#	ER 250 L	DRUM CUTTERS	22	7
	ER 400 L		22	7
	ER 450 L		23	8
	ER 600 L		23	8
	ER 1500 L		23	10
	ERL 700		25	8
	ERL 1100		25	11
Special a	and non-standard picks			14-16
Tools for	installation and removal			17
Part Num	nbers			18-19

## Additional head designs are in main product catalogue.



Profiling cutter head



Tunnelling cutter head



Wood cutting head



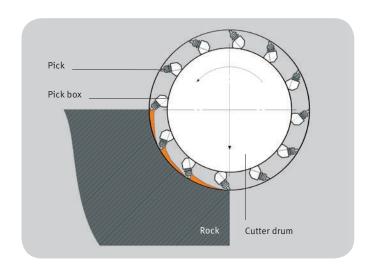


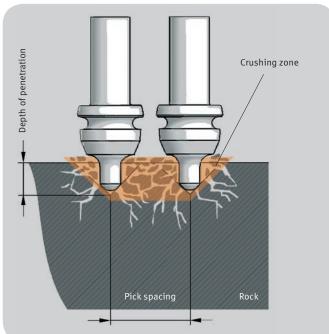
## SEVERAL PICKS — "PIECE BY PIECE"

### THE OPTIMUM SHAPE

The type of roand 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

#### ER 19/75/70/30 (6)

Standard pick head with medium diameter insert and additional hard facing, for use in medium to hard abrasive rock



#### **ROAND 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 heattreated 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**

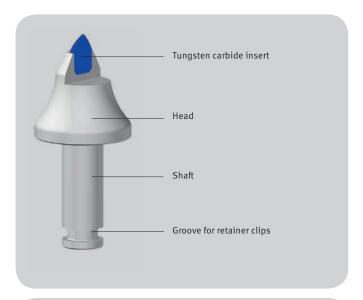
Pick boxes welded onto the cutter head determine where and how picks penetrate into the rock. The special attack angle ensures a continuous rotation of the pick creating a self sharpening action for the tungsten carbide insert during the cutting action. The correct angle ensures maximum productivity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

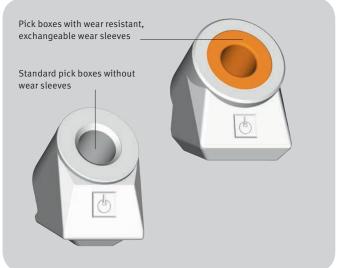
#### **RETAINING CLIPS**

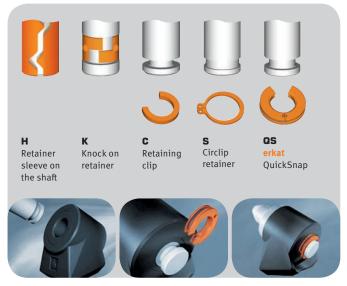
Retaining clips ensure that picks do not fly out of the pick boxes. Various types of retaining clip are available depending on pick type and application area e.g. retaining collars for soft rock or circlip type systems for hard rock applications.

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 40 X ER 50 X

ER 50







Pick box	PH 50 N
Part Number	3311003538



Pick type	ER 11/28/24/12 C
Part Number	3311004555 (100) <sup>1</sup>
Application	Concrete, soft to medium hard rock



Retainer	Retaining clip <b>ES 50</b>
Part Number	3311001264



Pick type	ER 19/33/30/15 S
Part Number	3311004557 (100) <sup>1</sup>
Application	Asphalt, soft to medium hard abbrasive rock



201	
Retainer	Circlip retainer SG 100
Part Number	3311002950



Pick type	ER 12/33/30/15 C
Part Number	3311004556 (100)¹
Application	Concrete, soft to medium hard rock



Retainer	Retaining clip <b>ES 100</b>
Part Number	3311002701

#### <sup>1</sup> Picks are delivered with retainers. Number in () shows quantity.

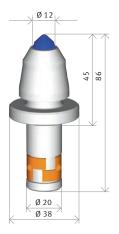
Dimension in mm | Associated installation and removal tools on page 17

lacktriangle Delivery ex stock | lacktriangle Delivery upon request

## ER 100 | ER 250 X | ER 250 TILL 06-2012 | ER 100 L | 250 L | 400 L



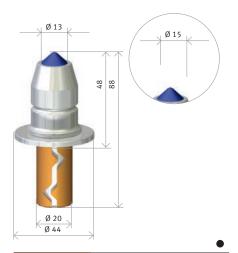
Pick box	PH 250
Part Number	3311000832



Pick type	ER 12/45/38/20 K
Part Number	3311004558 (50)1
Application	Concrete, soft to medium hard rock



Pick type	ER 09/51/25/20 K
Part Number	3311004560 (50)1
Application	Soft rock, salt, gypsum

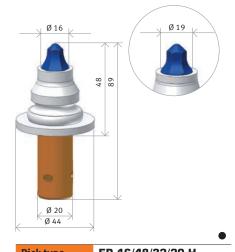


Pick type	ER 13/48/44/20 H	
Part Number	3311004561 (50) <sup>1</sup>	
Pick type	ER 15/48/44/20 H	
Part Number	3311004564 (50) <sup>1</sup>	
Application	Concrete, soft to medium hard rock	



Pick type	ER 16/46/38/20 C
Part Number	3311004559 (40)1
Application	Concrete, soft to medium hard rock
5	

Retainer	Retaining clip <b>ES 250</b>
Part Number	3311001648



Ріск туре	EK 16/46/32/20 H	
Part Number	3311004562 (50) <sup>1</sup>	
Pick type	ER 19/48/36/20 H	
Part Number	3311004563 (50) <sup>1</sup>	
Application	Asphalt	



Dimension in mm | Associated installation and removal tools on page 17



# ER 250 FROM 07-2012 ER 450 L 600 L ERL 700



Pick box	PH 450 UA
Part Number	3311001804
	replaces the previous type PH 450

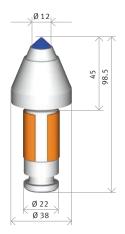


Pick type	ER 19/51/45/22 H
Part Number	3311004568 (40) <sup>1</sup>
Application	Asphalt, soft and
	abrasive rock



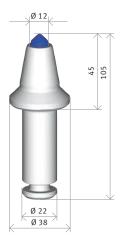






Pick type	ER 12/45/38/22 HC
Part Number	3311004565 (40)1
Application	Concrete, medium hard
	and abrasive rock

Retainer	Retaining clip <b>ES 450</b>
Part Number	3311000990



Pick type	ER 12/45/38/22 C
Part Number	3311004566 (40)1
Application	Concrete, medium hard rock

Retainer	Retaining clip <b>ES 450</b>
Part Number	3311000990



Pick type	ER 15/46/38/22 C
Part Number	3311004567 (40) <sup>1</sup>
Application	Concrete, medium hard rock



Retainer	Retaining clip <b>ES 450</b>
Part Number	3311000990

Dimension in mm | Associated installation and removal tools on page 17

<sup>&</sup>lt;sup>1</sup> Picks are delivered with retainers. Number in () shows quantity.

Delivery ex stock | Delivery upon request

## ER 600 ER 650 TILL 12-2015







Pick box	PH 600
Part Number	3311003040

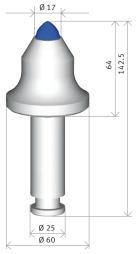


Pick type	ER 22/64/60/25 H	
Part Number	3311004572 (15) <sup>1</sup>	
Application	Asphalt, soft and	
	abrasive rock	



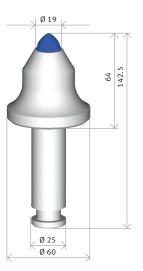
Pick type	ER 17/64/60/25 C	
Part Number	3311004571 (15)1	
Application	Concrete, medium hard to hard rock	

5	
Retainer	Retaining clip <b>ES 600</b>
Part Number	3311000988



Pick type	ER 17/64/60/25 Q
Part Number	3311004569 (15)1
Application	Concrete, medium hard to hard rock

Retainer	QuickSnap <b>QS 600</b>
Part Number	3311000977



Pick type	ER 19/64/60/25 Q
Part Number	3311004570 (15) <sup>1</sup>
Application	Concrete, medium hard to hard rock

3311000977

Retainer	QuickSnap
	ne enn

**Part Number** 

<sup>1</sup> Picks are delivered with retainers. Number in () shows quantity.

Dimension in mm | Associated installation and removal tools on page 17

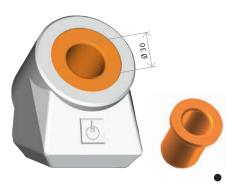


## ER 1200 | 1500 | 2000





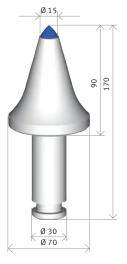
Pick box	PH 1200
Part Number	3311000797
For drum	ER 1200
cutter model	



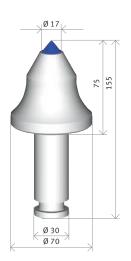
Pick box	PH 1500	
Part Number	3311000792	
	Replacement wear sleeve	
Part Number	3311000801	



Pick box	PH 1100	
Part Number	3311004253	
For drum cutter model	ER 650 from 09-2018	
	Replacement wear sleeve	
Part Number	3311000801	



Pick type	ER 15/90/70/30 Q	
Part Number	3311004580 (10) <sup>1</sup> with <b>QS</b> 3311004614 (10) <sup>1</sup> with <b>ES</b>	
Application	Salt, gypsum, medium hard, fractured rock	
	U	5
Retainer	QuickSnap <b>QS 5000</b>	Retaining clip ES 5000
Part Number	3311000978	3311002869



Pick type	ER 17/75/70	D/30 Q
Part Number	3311004575 (10) <sup>1</sup> with <b>QS</b> 3311004606 (10) <sup>1</sup> with <b>ES</b>	
Application	Concrete, medium hard rock	
	U	5
Retainer	QuickSnap <b>QS 5000</b>	Retaining clip <b>ES 5000</b>
Part Number	3311000978	3311002869



Pick type	ER 19/75/70/30 Q	
Part Number	3311004576 (10) <sup>1</sup> with <b>QS</b> 3311004607 (10) <sup>1</sup> with <b>ES</b>	
Application	Concrete, med rock	dium hard
	U	5
Retainer	QuickSnap <b>QS 5000</b>	Retaining clip ES 5000
Part Number	3311000978	3311002869

- <sup>1</sup> Picks are delivered with retainers. Number in () shows quantity.
- Dimension in mm | Associated installation and removal tools on page 17
- Delivery ex stock | Delivery upon request

## ER 650

## **ERL 1100**



Pick type	ER 19/75/70/30 PQ		
Part Number	3311004582 (10) <sup>1</sup> with <b>QS</b> 3311004617 (10) <sup>1</sup> with <b>ES</b>		
Application	Abbrasive medium hard rock and concrete		





Pick type	ER 17/75/70/30 C
Part Number	3311004585 (10)1
Application	Medium hard rock



Retainer	Retaining clip <b>ES 1500</b>
Part Number	3311000992



Pick box	PH 1000
Part Number	3311002688
For drum	ER 650
cutter model	ERL 1100



Pick type	ER 22/75/70/30 Q	
Part Number	3311004577 (10) <sup>1</sup> with <b>QS</b> 3311004608 (10) <sup>1</sup> with <b>ES</b>	
Application	Concrete, medium hard to hard rock	
	U	5
Retainer	QuickSnap <b>QS 5000</b>	Retaining clip
Part Number	3311000978	3311002869



Pick type	ER 25/77/70/30 Q	
Part Number	3311004578 (8)1 with <b>QS</b>	
	3311004609	(8)1 with <b>ES</b>
Application	Steel, concrete, hard to	
	very hard rock	(
	U	5
Retainer	QuickSnap	Retaining clip
	QS 5000	ES 5000
Part Number	3311000978	3311002869



Ріск туре	EK 30////0/23 Q	
Part Number		(10)1 with <b>QS</b>
	3311004613	(10)1 with <b>ES</b>
Application	Soft to mediu	m hard,
	abrasive rock	
	U	9
Retainer	QuickSnap <b>QS 5000</b>	Retaining clip
Part Number	3311000978	3311002869

#### <sup>1</sup> Picks are delivered with retainers. Number in () shows quantity.

Dimension in mm | Associated installation and removal tools on page 17

lacktriangle Delivery ex stock | lacktriangle Delivery upon request



## **ER 3000**





Pick box	PH 5300	
Part Number	3311002261	
Replacement wear slee		
Part Number	3311002263	



Pick type	ER 25/77/80/38-30 PQ 3311003853 <sup>2</sup> medium hard to very hard abrasive rock	
Part Number		
Application		
	U	5
Retainer	QuickSnap <b>QS 5000</b>	Retaining clip
Part Number	3311000978	3311002869



Pick type	ER 19/90/80/38-30 Q	
Part Number	3311004588 (6) <sup>1</sup> with <b>QS</b> 3311004621 (6) <sup>1</sup> with <b>ES</b>	
Application	Soft rock	
	U	3
Retainer	QuickSnap <b>QS 5000</b>	Retaining clip ES 5000
Part Number	3311000978	3311002869



Pick type	ER 22/77/80/38-30 Q	
Part Number	3311004587 (8)1 with <b>QS</b>	
	3311004620	(8)1 with <b>ES</b>
Application	Concrete, medium hard to hard rock	
	U	3
Retainer	QuickSnap <b>QS 5000</b>	Retaining clip ES 5000
Dart Number	2211000070	2211002060



Pick type	ER 25/77/80	0/38-30 Q
Part Number	3311004586	(8)1 with <b>QS</b>
	3311004619	(8)1 with <b>ES</b>
Application	Concrete, med very hard rock	
	U	5
Retainer	QuickSnap	Retaining clip
	QS 5000	ES 5000
Part Number	3311000978	3311002869

- <sup>1</sup> Picks are delivered with retainers. Number in () shows quantity. <sup>2</sup> This pick is only sold as single Part Number.
- Dimension in mm  $\mid$  Associated installation and removal tools on page 17
- Delivery ex stock | Delivery upon request

## **ER 5500**





Pick box	PH 5500
Part Number	3311002262
Replacement wear slee	
Part Number	3311002264



Pick type	ER 19/100/80/38 PS	
Part Number	3311004593 (6) <sup>1</sup>	
Application	Soft abrasive rock	



Retainer	Circlip retainer SG 5500
Part Number	3311000979



Pick type	ER 19/100/80/38 S
Part Number	3311004592 (6) <sup>1</sup>
Application	Soft rock

Retainer	Circlip retainer <b>SG 5500</b>
Part Number	3311000979



Pick type	ER 22/80/80/38 PS
Part Number	3311004591 (8) <sup>1</sup>
Application	Concrete, medium hard to hard rock

Circlip retainer SG 5500
3311000979



Pick type ER 25/80/80/38 S	
Part Number	3311004590 (6)1
Application	Concrete, medium hard to very hard rock



Retainer	Circlip retainer <b>SG 5500</b>
Part Number	3311000979

#### <sup>1</sup> Picks are delivered with retainers. Number in () shows quantity.

Dimension in mm | Associated installation and removal tools on page 17

lacktriangle Delivery ex stock | lacktriangle Delivery upon request



## **SPECIAL AND NON-STANDARD PICKS**



ER 600-W 650-W **WOOD CUTTING PICKS FOR WOOD GRINDING DRUM** 



FOR THREADED SIDE Pick box **Part Number** 

till 12/2014 72 63 25 44 from 01/2015 3311003206



**FOR NUT SIDE** Pick box **Part Number** till 12/2014 72 63 25 43 from 01/2015 3311003207



Pick type **20 CUTTERS RIGHT Part Number** till 12/2014 70 65 57 14 R from 01/2015 3311003204 **Application** Wood, tree stump



Pick type **20 CUTTERS LEFT Part Number** till 12/2014 70 65 57 14 L from 01/2015 3311003203 **Application** Wood, tree stump



Pick type	40 CUTTERS STRAIGHT
Part Number	
Тур	
till 12/2014	70 65 58 14
from 01/2015	3311003205
Application	Wood, tree stump

Dimension in mm | Associated installation and removal tools on page 17







## ER 250 | 600 | 650 | 1500 | 2000 DRAGON-TOOTH-PICKS



Pick box	PH 450 UA
Part Number	3311001804
For drum	ER 250
cutter model	



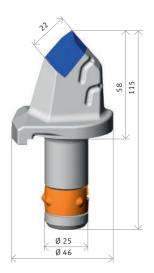
	•
Pick box	PH 600 UA
Part Number	3311003040
For drum	ER 600, ER 650
cutter model	



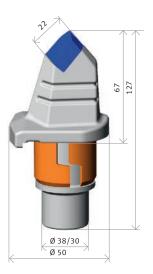
Pick box	PH 5300 DT
Part Number	3311003346
For drum	ER 1500, ER 2000
cutter model	



Pick type	DT 22/46/38/22 H
Part Number	3311002287
Application	Soft to medium hard,
	abrasive ground and rock



Pick type	DT 22/58/46/25 H
Part Number	3311002699
Application	Soft to medium hard,
	abrasive ground and rock



Pick type	DT 22/67/50/38-30 H
Part Number	3311003344
Application	Soft to medium hard,
	abrasive ground and rock



lacktriangle Delivery ex stock | lacktriangle Delivery upon request



## **SPECIAL AND NON-STANDARD PICKS**



### ER 650 1200 1500 **PICKS FOR MIXING APPLICATIONS**



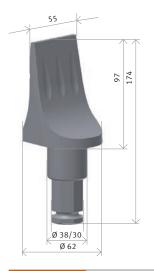


	<u>~</u>
Pick box	PH 600 MIX
Part Number	3311000886

## **ER RANGE** STEEL BRUSH FOR **BRUSH DRUM**



Steel brush type	BR 14/100/M16
Part Number	3311004260



Pick type	EF 55/97/62/38-30 S
Part Number	3311002121
Application	homogene, soft and sticky ground





Pick type	EF 63/80/45/25 W
Part Number	3311000887
Application	homogene, soft and sticky ground
ADA I	

Retainer	Fastening disk and lock nut
Part Number	Disk 3311002988 Nut 3311000661



**Part Number** 3311003531

Dimension in mm | Associated installation and removal tools on page 17  $\,$ 

# TOOLS FOR INSTALLATION AND REMOVAL





Tool	KNOCKOUT TOOL
Part Number for picks with shaft diameter 20–30mm	3311000989



Tool	PULLER FOR PICKS WITH RETAINING SLEEVES
Part Number	
for picks with shaft diameter 20-22mm	3311000991
for pick ER 16/48/32/20 H (page 7)	3311002042



Tool	MOUNTING TOOL FOR RETAINING CLIPS	DISMANTLING TOOL FOR RETAINING CLIPS
Part Number		
for retaining clip ES 100	3311004215	3311004216
for retaining clip ES 250	3311002612	3311002613
for retaining clip ES 450	3311002196	3311002197
for retaining clip ES 600	3311002377	3311001335
for retaining clip ES 1500	3311002876	3311002195
for retaining clip ES 5000	3311004217	3311004218



Tool	MOUNTING GRIPPER FOR CIRCLIP RETAINERS
Part Number	
for picks with shaft diameter till 25mm	3311002520
for picks with shaft diameter from 30mm	3311002194
· ·	



Tool	PULLER TOOL FOR QUICKSNAP RETAINERS
Part Number	3311000980

Tool	KNOCKOUT TOOL FOR STUCK PICKS
Part Number	
for picks with shaft diameter 20-25mm	3311002039
for picks with shaft diameter 30-38mm	3311002872



## **PART NUMBERS**

Page	Part Number	Part Number		Description
1 age	till 12-2018	from 1-2019		Description
	700499	3311000774		PH 50
	700450	3311003538		PH 50 N
	11282412	3311004555 (100)¹		ER 11/28/24/12 C
	99999951	3311001264		ES50
6	19333015	3311004557 (100)¹		ER 19/33/30/15 S
	99999990	3311002950		SG 100
	12333015	3311004556 (100)¹		ER 12/33/30/15 C
	99999958	3311002701		ES 100
	721024	3311000832		PH 250
	12453820	3311004558 (50) <sup>1</sup>		ER 12/45/38/20 K
	9512520	3311004560 (50)1		ER 09/51/25/20 K
	13484420	3311004561 (50) <sup>1</sup>		ER 13/48/44/20 H
7	15484420	3311004564 (50) <sup>1</sup>		ER 15/48/44/20 H
	16463820	3311004559 (40)1		ER 16/46/38/20 C
	99999991	3311001648		ES 250
	16483220	3311004562 (50) <sup>1</sup>		ER 16/48/32/20 H
	19483620	3311004563 (50) <sup>1</sup>		ER 19/48/36/20 H
	721025UA	3311001804		PH 450 UA
	19514522	3311004568 (40)1		ER 19/51/45/22 H
	12453823	3311004565 (40)1		ER 12/45/38/22 HC
8	99999996	3311000990		ES 450
O	12453822	3311004566 (40)1		ER 12/45/38/22 C
	99999996	3311000990		ES 450
	15463822	3311004567 (40) <sup>1</sup>		ER 15/46/38/22 C
	99999996	3311000990		ES 450
	761025UA	3311003040		PH 600
	22646025	3311004572 (15)1		ER 22/64/60/25 H
	17646025	3311004571 (15) <sup>1</sup>		ER 17/64/60/25 C
9	99999994	3311000988		ES 600
	17646026	3311004569 (15)1		ER 17/64/60/25 Q
	99250025	3311000977		QS 600
	19646026	3311004570 (15)1		ER 19/64/60/25 Q
	99250025	3311000977		QS 600
	711026	3311000797		PH 1200
	711022	3311000792		PH 1500
	711029	3311000801		Replacement wear sleeve
	711020	3311004253		PH 1100
	711029 15907035	3311000801	2211004614 (10)1 with FS F000	Replacement wear sleeve
	99500030	3311004580 (10)1 with QS 5000 3311000978	3311004614 (10)1 with ES 5000	ER 15/90/70/30 Q QS 5000
10	611086UA	3311000978		ES 5000
10	17757035	3311002809 3311004575 (10)¹ with QS 5000	3311004606 (10)1 with ES 5000	ER 17/75/70/30 Q
	99500030	331100978	3311004000 (10) WILITES 3000	QS 5000
	611086UA	3311002869		ES 5000
	19757035E	3311004576 (10)¹ with QS 5000	3311004607 (10)1 with ES 5000	ER 19/75/70/30 Q
	99500030	3311000978	3311004007 (10) With E3 3000	QS 5000
	611086UA	3311002869		ES 5000
	19757035P	3311004582 (10)1 with QS 5000	3311004617 (10)1 with ES 5000	ER 19/75/70/30 PQ
	99500030	3311000978	33 (,	QS 5000
	611086UA	3311002869		ES 5000
	17757030S	3311004585 (10)¹		ER 17/75/70/30 C
	99999998	3311000992		ES 1500
	711610	3311002688		PH 1000
	22757030	3311004577 (10)1 with QS 5000	3311004608 (10)1 with ES 5000	ER 22/75/70/30 Q
11	99500030	3311000978		QS 5000
	611086UA	3311002869		ES 5000
	25757035	3311004578 (8)1 with QS 5000	3311004609 (8)1 with ES 5000	ER 25/77/70/30 Q
	99500030	3311000978		QS 5000
	611086UA	3311002869		ES 5000
	30777032	3311004579 (10)¹ with QS 5000	3311004613 (10)1 with ES 5000	ER 30/77/70/29 Q
	99500030	3311000978		QS 5000
	611086UA	3311002869		ES 5000

 $<sup>^{\</sup>scriptsize 1}$  Picks are delivered with retainers. Number in ( ) shows quantity.

Page	Part Number	Part Number		Description
	till 12-2018	from 1-2019		·
	753010	3311002261		PH 5300
	753011	3311002263		Replacement wear sleeve
	25778035P	3311003853 <sup>2</sup>		ER 25/77/80/38-30 PQ
	99500030	3311000978		QS 5000
	611086UA	3311002869	224400/(24 (/)1	ES 5000
	19908038E 99500030	3311004588 (6) <sup>1</sup> with QS 5000 3311000978	3311004621 (6)1 with ES 5000	ER 19/90/80/38-30 Q QS 5000
12	611086UA	3311000978		ES 5000
	22778038	3311004587 (8)¹ with QS 5000	3311004620 (8)1 with ES 5000	ER 22/77/80/38-30 Q
	99500030	3311000978	33110110110	QS 5000
	611086UA	3311002869		ES 5000
	25778035E	3311004586 (8)1 with QS 5000	3311004619 (8)1 with ES 5000	ER 25/77/80/38-30 Q
	99500030	3311000978		QS 5000
	611086UA	3311002869		ES 5000
	753020	3311002262		PH 5500
	753021	3311002264		Replacement wear sleeve
	191008038P 99550038	3311004593 (6) <sup>1</sup> 3311000979		ER 19/100/80/38 PS SG 5500
	191008038	3311000979 3311004592 (6)1		ER 19/100/80/38 S
13	99550038	3311000979		SG 5500
	22808038	3311004591 (8)1		ER 22/80/80/38 S
	99550038	3311000979		SG 5500
	25808038	3311004590 (6)1		ER 25/80/80/38 S
	99550038	3311000979		SG 5500
	706600G	3311003206		for threaded side
	706600S	3311003207		for nut side
14	706500R	3311003204		Cutters right
	706500L 706500	3311003203 3311003205		Cutters left Cutters straight
	721025UA	3311001804		PH 450 UA
	761025UA	3311003040		PH 600 UA
	711611UA	3311003346		PH 5300 DT
15	22384622	3311002287		DT 22/46/38/22 H
	22465825	3311002699		DT 22/58/46/25 H
	22675038	3311003344		DT 22/67/50/38-30 H
	765005	3311001499		PH 3000 MIX
	765001	3311000886		PH 600 MIX
	765006	3311002121		EF 55/97/62/38-30 S
16	7650060 765002	3311002186 3311000887		ES 3000 MIX EF 63/80/45/25 W
10	765003	3311002988		Disk
	623006	3311000661		Nut
	642751	3311004260		BR 14/100/M16
	642752	3311003531		BR 14/100/M24
	99999995	3311000989		Knockout tool
	99999997	3311000991		Puller for picks with retaining sleeves for picks with shaft
	99999913	3311002042	<u> </u>	diameter 20–22mm  Puller for picks with retaining sleeves for pick
	99999913	3311002042		ER 16/48/32/20 HC
	99999960	3311004215		Mounting tool for retaining clip ES 100
	99999942	3311002612		Mounting tool for retaining clip ES 250
	99999947	3311002196		Mounting tool for retaining clip ES 450
	99999983	3311002377		Mounting tool for retaining clip ES 600
	99999939	3311002876		Mounting tool for retaining clip ES 1500
	99999962	3311004217		Mounting tool for retaining clip ES 5000
	99999961	3311004216		Dismantling tool for retaining clip ES 100  Dismantling tool for retaining clip ES 250
17	99999943 99999948	3311002613 3311002197		Dismantling tool for retaining clip ES 250
	99999982	3311001335		Dismantling tool for retaining clip ES 600
	99999936	3311002195		Dismantling tool for retaining clip ES 1500
	99999963	3311004218		Dismantling tool for retaining clip ES 5000
	99999940	3311002520		Mounting gripper for circlip retainers for picks with shaft
				diameter till 25 mm
	99999946	3311002194		Mounting gripper for circlip retainers for picks with shaft
	99995000	3311000980		diameter form 30mm  Puller tool for quicksnap retainers
	99999938	3311002039		Knockout tool for stuck picks with shaft diameter
				20-25mm
	99999937	3311002872		Knockout tool for stuck picks with shaft diameter
				30-38mm

<sup>&</sup>lt;sup>1</sup> Picks are delivered with retainers. Number in ( ) shows quantity.



 $<sup>^{\</sup>scriptscriptstyle 2}\,$  This pick is only sold as single Part Number.

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