

KEMROC[®]

revolution of cutting



English

**SPECIAL
ROCK CUTTERS**

An innovative, German engineering company developing revolutionary excavator attachments – focused on product development, quality engineering and reliability.

Cutter attachments are our passion. With more than 20 years' experience, we develop and manufacture cutter attachments for excavators and backhoe loaders. Our attachments are robust and strong with main components made in Germany.

Together with our customers, we are constantly developing new solutions for demolition, construction, and mining applications. Challenge us! We guarantee specialist information and professional service for our products. Our international team of specialists will be happy to support you with your individual project.

Attention during production and assembly guarantees the highest level of quality and reliability.

Excellent Service. We support you, our team can help install your KEMROC attachment and train your operators.



Modern production facilities.

revolution of cutting

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FEATURES

KEMROC cutter attachments work reliably and efficiently in almost any material. Steel, concrete, rock, wood – wherever KEMROC cutter attachments are used, material is removed safely and accurately.



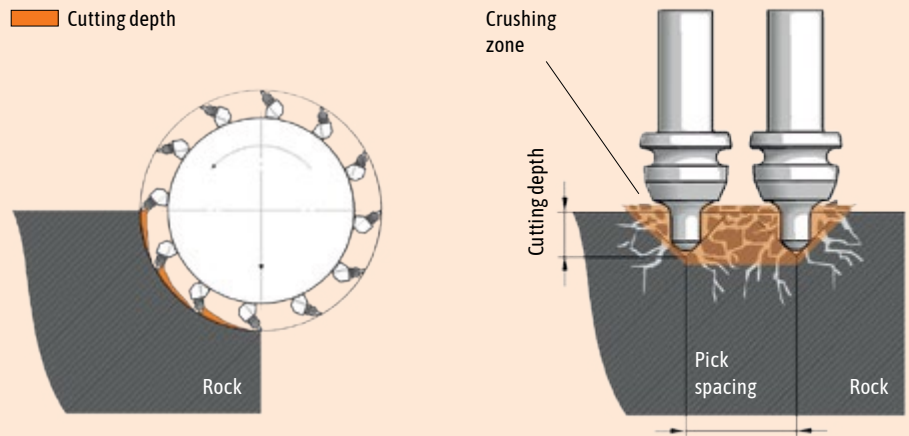
ATTACHMENTS FOR ALL TRENCH SIZES

Trenching attachments from KEMROC provide options for trench widths from 8 centimeters.

	Min. trench width mm	Max. trench width mm	Trench depth mm	Recommended excavator weight t	Max. uniaxial compressive strength MPa	Page
DMW Cutter Wheels	80	400	400–1,000	14–120	140	20
KTR Trenching Attachments	170	450	1,000–1,800	18–35	60	36
KRX Powertool Drives	370	550	100–3,000	5–50	140	24
EK Chain Cutters	390	–	100–8,000	2–70	140	6
EKT Rotary Drum Cutters	600	–	200–8,000	2–70	150	10
KRC Bullhead Cutters	600	–	200–8,000	12–50	100	18
KR Rotary Drum Cutters	700	–	200–8,000	0.6–125	180	12
KRD Rotary Drum Cutters	750	–	200–8,000	0.5–50	100	16

CUTTING TECHNOLOGY

When grinding with round attack picks, each tool penetrates into the rock along parallel paths and breaks material out from the space between the paths. The cutting rate depends to a large degree on the uniaxial compressive strength of the rock being cut. Other significant factors affecting production rates include the hydraulic pressure and flow that the excavator is able to supply to the attachment, as well as the stability and weight of the excavator.



The experience gained from many years of cutting rock has gone into the design of the cutter wheels, drums and chains. They are designed to give maximum cutting performance with minimum wear costs. The selection of picks and boxes, as well as the design of the pick pattern, are part of our continuous product improvement.





EK RANGE

Chain cutters — reduce wear & tear on the excavator swing gear and save energy



The EK range of chain cutters are the first of their type on the market. Designed for use on excavators from 2 to 70 tons, they are ideal for cutting stone with an uniaxial compressive strength up to 140 MPa. They are efficient, vibration-free attachments for the excavation of deep narrow trenches with the optimal trench profile. Trench width starts from 390 mm. Another application is mining of medium hard minerals with compressive strength from 15 to 80 MPa, where drill and blast is not possible.

KEMROC chain cutters excavate trenches no wider than absolutely necessary. The continuous chain, driven by the cutter drums, removes the material automatically from the space between the cutter drums. With standard drum cutters, the need to remove this material on technical grounds always results in trenches wider than the cutter. Keeping trenches to the minimum width possible saves unnecessary transport costs for removal of cut material and fill material becomes cheaper. The material produced by the chain cutter is fine grained and is ideal for use as fill.

EK chain cutters reduce wear and tear on the excavator swing gear. In addition, they give a 40 percent energy saving for equivalent production rates compared to conventional rotary drum cutters without the central chain.



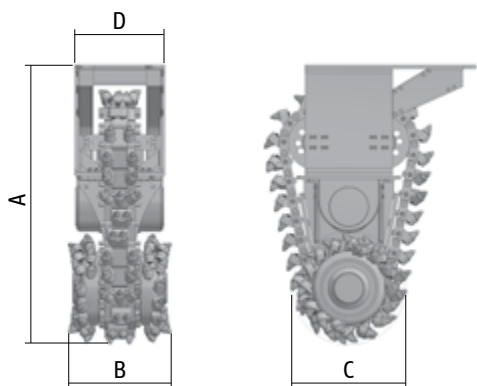
EK 140
Trenching and
pipeline work



EK RANGE

Chain cutters — reduce wear & tear on the excavator swing gear and save energy

		EK 20	EK 40	EK 60	EK 100
Recommended excavator weight	t	2–6	7–11	12–17	18–30
Rated power	kW	22	44	60	100
Drum cutter length (A)	mm	1,000	1,300	1,600	1,970
Cutting width (B)	mm	390	500	500 600	600 700 800
Cutter drum diameter (C)	mm	320	475	600	800
Width of gearbox (D)	mm	365	375	455	565
Recommended rotation speed	rpm	100	80	80	70
Recommended oil flow	l/min	20–40	70–90	130–160	180–240
Max. oil flow	l/min	50	120	220	260
Max. operating hydraulic pressure	bar	300	380	400	400
Torque at 380 bar	Nm	2,000 @ 300 bar	5,700	11,000	18,300
Cutting force at 380 bar	kN	12.5 @ 300 bar	24.0	36.7	45.8
Max. uniaxial compressive strength	MPa	25	30	50	80
Weight	kg	315	750	1,250 1,300	2,450 2,510 2,620
Pick box	Type	PH 14	PH 20	PH 22	PH 32 HD
Number of picks in cutter drums	Pcs	56	52	40 60	28 40 48
Number of picks in the cutter chain	Pcs	54	49	53	54
Standard pick	Type	1	2	3	4



- 1 ER 15/29/26/14 C
- 2 ER 16/46/38/20 C
- 3 ER 15/46/38/22 C
- 4 ER 17/75/70/30 Q
- 5 ER 19/75/70/30 Q
- 6 ER 25/80/80/38 C

For an overview of standard picks, see pages 45 to 47. Depending on application, cutter heads can be supplied with a choice of pick according to the type of pick box used.

The EK range is patent protected.



APPLICATIONS

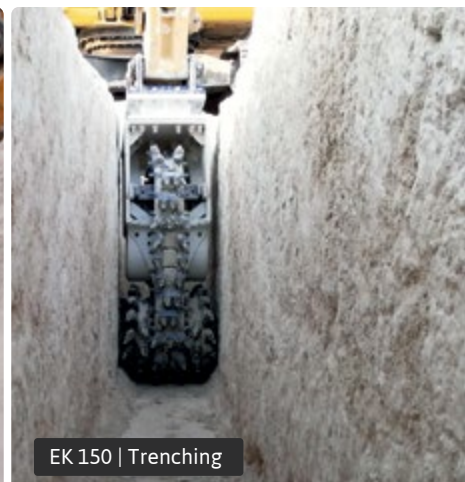
Trenching and pipeline work

Mining of soft to medium hard minerals

Can also be used for concrete renovation, profiling, underwater excavations and tunnelling



EK 140 | Gypsum mining



EK 150 | Trenching

Minimal wear on excavator as the method of operation is similar to using the bucket i.e. eliminates need for swing motion

Needs approx. 40 percent less energy than equivalent drum cutter without a chain between the drums

Range of cutting widths available

EK 110

EK 140

EK 150

EK 160

EK 220

25–32	30–45	35–50	35–50	50–70
110	140	150	150	220
1,970	2,150	2,150	2,150	2,400
600 700 800	800 900 1,000	800 900 1,000	800 900 1,000	920
800	850	850	850	990
565	700	700	700	850
65	65	60	60	40
210–260	260–300	280–320	290–330	420–550
300	420	450	450	650
400	400	400	400	400
24,500	26,000	30,300	34,000	73,000
61.3	61.2	71.3	80.0	147.5
80	100	100	120	140
2,450 2,510 2,620	3,650 3,700 3,800	3,650 3,700 3,800	3,650 3,700 3,800	5,900
PH 32 HD	PH 32 HD	PH 32 HD	PH 32 HD	PH 38 HD
28 40 48	44 48 56	44 48 56	44 48 56	44
54	63	63	63	58
4	4	4	5	6

Fine grained cut material
Low noise and vibration levels

Works underwater without need for modifications



Further application examples on

www.kemroc.com

EKT RANGE

Rotary drum cutters — can be converted into EK chain cutters

 **2–70 t**



The patented EK range of chain cutters are one of our core products and continues to be recommended as an ideal tool for trenching contractors. This concept is being expanded with the addition of the new EKT range of

traditional style drum cutters. These lower priced models are supplied as rotary drum cutters without a central cutting chain, but conversion kits are available so that cutter chains can be fitted later.



Can be converted to an EK model

Fast and strong

Two motors for extra hydraulic power

**EKT
20**

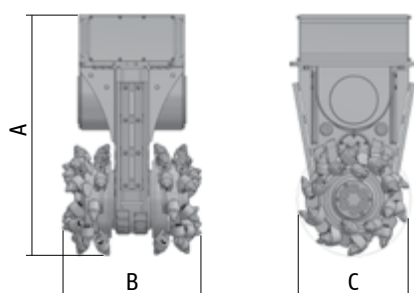
**EKT
40**

**EKT
60**

**EKT
100**

**EKT
110**

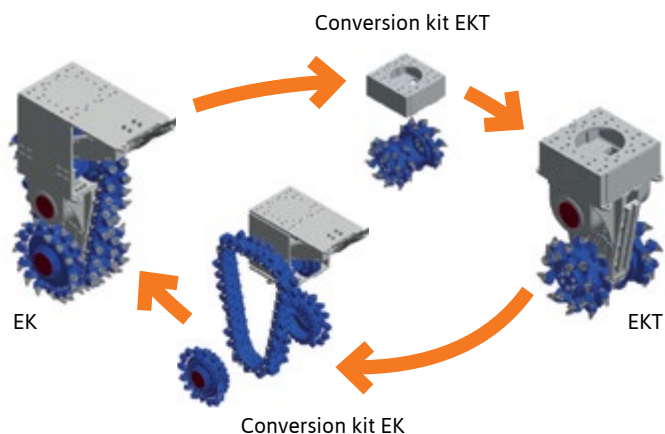
Recommended excavator weight	t	2–6	7–11	12–17	18–30	25–32
Rated power	kW	22	44	60	100	110
Possibility of conversion to a chain cutter	yes/no	yes	yes	yes	yes	yes
Drum cutter length (A)	mm	540	1,000	1,190	1,460	1,460
Cutter head width (B)	mm	410	500	500 600	700 800	700 800
Cutter drum diameter (C)	mm	225	445	590	690	690
Recommended rotation speed	rpm	100	80	80	70	65
Recommended oil flow	l/min	20–40	70–90	130–160	180–240	210–260
Max. oil flow	l/min	50	120	220	260	300
Max. operating hydraulic pressure	bar	300	380	400	400	400
Torque at 380 bar	Nm	2,000 @ 300 bar	5,700	11,000	18,300	24,500
Cutting force at 380 bar	kN	17.8 @ 300 bar	25.6	37.3	53.0	71.0
Max. uniaxial compressive strength	MPa	25	30	50	80	80
Weight	kg	130	430	725 775	1,300 1,360	1,300 1,360
Pick box	Type	PH 14	PH 20	PH 22	PH 32 HD	PH 32 HD
Number of picks	Pcs	56	52	40 60	40 44	40 44
Standard pick	Type	1	2	3	4	4



- 1** ER 15/29/26/14 C
- 2** ER 16/46/38/20 C
- 3** ER 15/46/38/22 C
- 4** ER 17/75/70/30 Q
- 5** ER 19/75/70/30 Q
- 6** ER 25/80/80/38 C

For an overview of standard picks, see pages 45 to 47. Depending on application, cutter drums can be supplied with a choice of pick according to the type of pick box used.

Converts from a rotary drum cutter to a chain cutter and vice versa.



EKT 140 EKT 150 EKT 160^[1] EKT 220

30–45	35–50	35–50	50–70
140	150	150	220
yes	yes	yes	yes
1,540	1,540	1,540	1,760
880	880	880 [1,060]	920 1,300
720	720	720	860
65	60	60	40
260–300	280–320	290–330	500–600
420	450	450	650
400	400	400	400
25,400	30,300	34,000	73,000
70.6	84.2	94.4	169.8
100	100	120	140
2,000	2,000	2,000 [2,500]	3,100 3,550
PH 32 HD	PH 32 HD	PH 32 HD	PH 38 HD
44	44	44 [56]	44 60
4	4	5	6

^[1] Also available in an HD-version with wider cutter head (EKT 160 HD). Revised values shown in square brackets.



Tough, rigid gearbox housing

Drums supported on robust bearings

Protection for hydraulic hoses

Works underwater without need for modifications



APPLICATIONS

Trenching and pipeline work

Mining of soft to medium hard minerals

Can also be used for concrete renovation, profiling, underwater excavations and tunnelling



Further application examples on

www.kemroc.com

KR RANGE

Rotary drum cutters with spur gears

 **0.6 – 125 t**

In addition to standard EK and the convertible EKT range, traditional style rotary drum cutters are now also available from KEMROC. They are designated as the new KR range of drum cutters. Designed to be incredibly robust, these attachments are ideal for use on short arm excavators working in confined spaces, especially in tunnelling and also for the vibration free and silent demolition of re-enforced concrete structures.

Effective dust control is particularly important in demolition and tunnelling applications. The KR range of cutters are designed for the installation of an optional, hydraulically controlled water jet dust control system.



KR 150
Concrete
demolition





KR RANGE

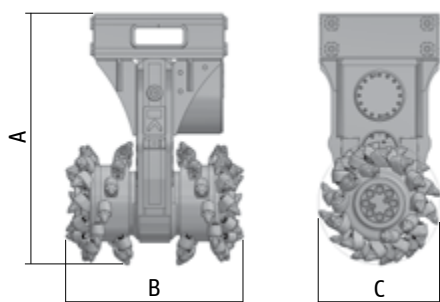
Rotary drum cutters with spur gears



Gear drive

KR 15 **KR 18** **KR 20** **KR 35**^[1] **KR 45** **KR 50** **KR 65**

Recommended excavator weight	t	0.6–3	2–4	2–4	5–8	9–15	9–15	12–18
Rated power	kW	15	18	18	30	45	45	65
Drum cutter length (A)	mm	628	628	636	848	990	1,014	1,195
Cutter head width (B)	mm	425	425	495	620 [520]	600	690	805
Cutter drum diameter (C)	mm	225	225	240	370	400	450	587
Recommended rotation speed	rpm	100	100	100	100	90	90	80
Recommended oil flow	l/min	15–25	25–40	25–40	50–80	90–120	90–120	120–150
Max. oil flow	l/min	40	60	60	90	130	130	170
Max. operating hydraulic pressure	bar	400	400	400	400	400	400	400
Torque at 380 bar	Nm	1,000	2,000	2,000	4,500	6,300	6,300	11,300
Cutting force at 380 bar	kN	8.9	17.8	16.7	24.3	31.5	28.0	38.5
Weight	kg	155	155	167	340 [310]	480	530	892
Pick box	Type	PH 14	PH 14	PH 14	PH 20	PH 20	PH 22	PH 30 HD
Number of picks	Pcs	44	44	56	64 [44]	44	44	44
Standard pick	Type	1	1	1	2	2	3	4



- 1** ER 15/29/26/14 C
- 2** ER 16/46/38/20 C
- 3** ER 12/45/38/22 HC
- 4** ER 17/75/70/30 Q
- 5** ER 19/75/70/30 Q
- 6** ER 25/80/80/38 C

For an overview of standard picks, see pages 45 to 47. Depending on application, cutter drums can be supplied with a choice of pick according to the type of pick box used.

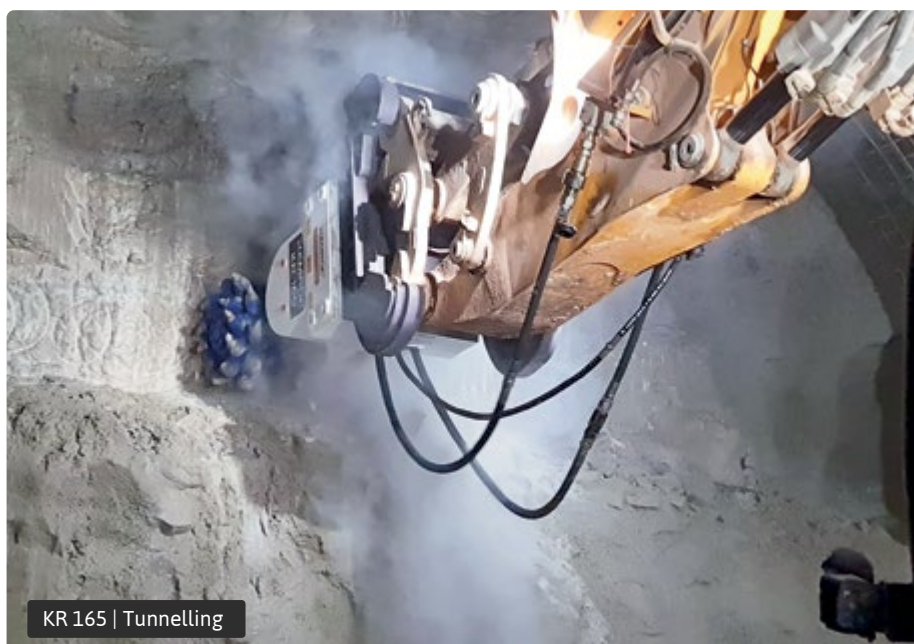


APPLICATIONS

Tunnelling

Demolition

Also used for trenching and pipeline work, renovating concrete, profiling, mining of soft minerals and underwater excavating



KR 165 | Tunnelling

Extra heavy-duty, rigid gear box housing

Exceptional wear protection on the gearbox

Equipped for optional water spray dust suppression system

High torque motors for maximum cutting force

Drums supported on heavy-duty bearings

Protected hose management

Works underwater without need for modifications

KR 70 KR 80 KR 110^[1] KR 120^[1] KR 150^[1] KR 165^[1] KR 175^[1] KR 200 KR 400

15–23	15–25	20–35	25–45 [20–40]	30–50	35–55	40–55	50–70	80–125
70	80	110	120	120	160	160	200	400
1,195	1,235	1,470	1,470	1,470	1,590	1,590	1,650	1,970
805	805	1,040 [880]	1,040 [880]	1,040 [880]	1,250 [1,050]	1,250 [1,050]	1,330	1,600
587	587	718	718	718	720	720	805	920
75	85	75	75	70	65	65	55	50
150–190	150–190	200–280	250–320	250–320	300–390	330–420	350–450	700–950
190	210	300	350	360	400	420	500	1,000
400	400	400	400	400	400	400	380	380
15,100	15,200	20,200	25,400	30,300	36,400	43,000	51,000	118,500
51.5	52.9	56.3	70.8	84.4	101.1	119.4	126.7	257.6
892	1,070	2,000 [1,780]	2,000 [1,780]	2,000 [1,780]	2,800 [2,500]	2,800 [2,500]	3,500	6,000
PH 30 HD	PH 30 HD	PH 32 HD	PH 32 HD	PH 32 HD	PH 32 HD	PH 32 HD	PH 38 HD	PH 38 HD
44	44	60 [44]	60 [44]	60 [44]	64 [60]	64 [60]	64	68
4	4	4	4	5	5	5	6	6

^[1] Also available in a C-version with narrower cutter head (KR 35 C | KR 110 C | 120 C | 150 C | 165 C | 175 C). Revised values shown in square brackets.



Housing with hydraulic hose protection.



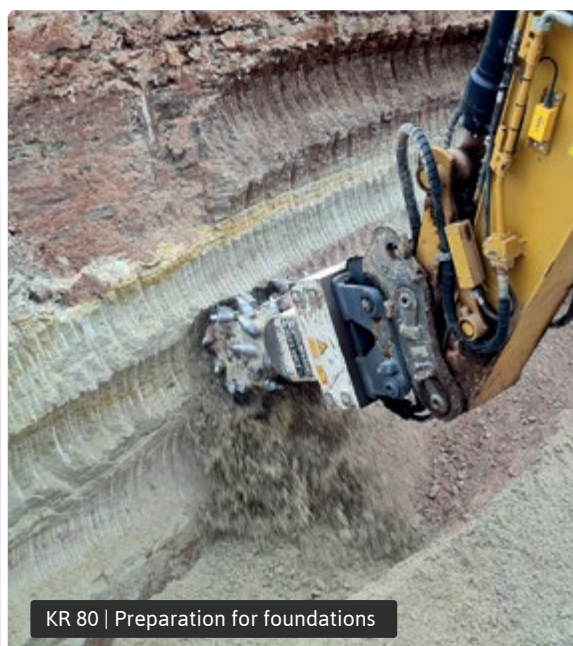
Water jets for dust suppression (optional).



Tool pattern for optimum performance.



KR 120 | Demolition of a bunker



KR 80 | Preparation for foundations



Further application examples on

www.kemroc.com

KRD RANGE

Rotary drum cutters with direct drive

 **0.5–50 t**



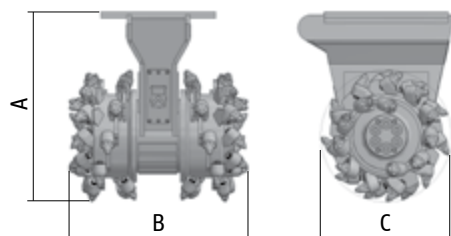
The KRD range of direct drive drum cutters can be described as compact, lightweight but strong. Lighter and shorter, these attachments are ideal for use on long-arm excavators for

demolition and shaft sinking applications. They can also be used for soil stabilisation and concrete renovation applications. Intentionally oversized bearings have been used to support

the cutter drums for a long operating life.

KRD 15 KRD 18 KRD 30 KRD 45 KRD 70

Recommended excavator weight	t	0.5–2	2–4	5–8	9–16	17–25
Rated power	kW	15	18	30	45	70
Drum cutter length (A)	mm	511	511	632	670	951
Cutter head width (B)	mm	500	500	650	743	946
Cutter drum diameter (C)	mm	300	300	370	447	612
Recommended rotation speed	rpm	100	100	100	90	75
Recommended oil flow	l/min	15–25	25–40	50–80	90–120	150–200
Max. oil flow	l/min	40	60	90	130	230
Max. operating hydraulic pressure	bar	400	400	400	400	400
Torque at 380 bar	Nm	950	2,500	4,412	7,543	16,300
Cutting force at 380 bar	kN	6.3	16.7	23.8	33.7	53.3
Weight	kg	135	135	250	380	850
Pick box	Type	PH 14	PH 14	PH 20	PH 22	PH 32 HD
Number of picks	Pcs	66	66	56	46	40
Standard pick	Type	1	1	2	3	4



- 1** ER 15/29/26/14 C
- 2** ER 16/46/38/20 C
- 3** ER 12/45/38/22 HC
- 4** ER 17/75/70/30 Q
- 5** ER 19/75/70/30 Q

For an overview of standard picks, see pages 45 to 47. Depending on application, cutter drums can be supplied with a choice of pick according to the type of pick box used.



Strong, compact design

Direct drive with particularly strong support for the cutter drums

High power to weight ratio

Protected hose management

Operational to 30 meters underwater without need for modifications

KRD 100 KRD 120 KRD 150 KRD 165

20–40	25–40	30–40	35–50
110	120	120	160
1,070	1,070	1,070	1,072
1,000	1,000	1,000	1,260
730	730	730	720
75	70	65	60
220–300	250–330	280–350	300–390
350	350	350	400
400	400	400	400
20,200	25,400	30,300	43,000
55.3	69.6	83.0	119.4
1,500	1,500	1,500	2,020
PH 32 HD	PH 32 HD	PH 32 HD	PH 32 HD
48	48	48	58
4	4	4	5



Direct drive



APPLICATIONS

Demolition using long arm excavators

Ground stabilisation

Renovating concrete

Also used for trenching and pipeline work, profiling, mining soft minerals, underwater excavations, tunnelling and shaft sinking



KRD 120 | Profiling excavation boundaries



KRD 150 | Excavation work



Further application examples on

www.kemroc.com

KRC RANGE

Bullhead cutters with full-face coverage for narrow trenches

 **12–50 t**



The KRC range of Bullhead cutters have two cutter drums arranged at an angle to one another so that the two sets of picks provide full face coverage without any gap between them, eliminating the need to swing the cutter from side to side. Operating the

cutter without sideways movement creates a trench with the same width as the cutter attachment.

Compared to the EK range of chain cutters, which also have full-face coverage thanks to the central cutter

chain, the KRC range of bullhead cutters are easier to maintain. However, due to their design, they cannot achieve the extreme narrow trenching widths of the EK chain cutters.



**KRC
60**

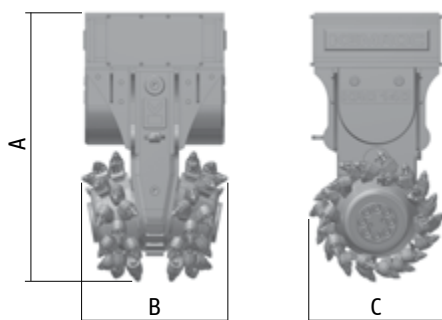
**KRC
100**

**KRC
110**

**KRC
140**

**KRC
150**

Recommended excavator weight	t	12–17	18–30	20–32	25–40	35–50
Rated power	kW	60	100	110	140	150
Drum cutter length (A)	mm	1,200	1,390	1,390	1,520	1,520
Cutting width (B)	mm	600	810	810	880	880
Average cutter head diameter (C)	mm	545	650	650	700	700
Recommended rotation speed	rpm	85	75	70	65	65
Recommended oil flow	l/min	120–170	180–240	210–260	250–320	280–330
Max. oil flow	l/min	220	260	300	380	380
Max. operating hydraulic pressure	bar	400	400	400	400	400
Torque at 380 bar	Nm	9,000	16,000	20,000	25,400	30,300
Cutting force at 380 bar	kN	33.0	49.2	61.5	72.6	86.6
Max. uniaxial compressive strength	MPa	50	80	80	100	100
Weight	kg	850	1,450	1,450	1,950	1,950
Pick box	Type	PH 22	PH 32 HD	PH 32 HD	PH 32 HD	PH 32 HD
Number of picks	Pcs	56	52	52	52	52
Standard pick	Type	1	2	2	2	3



- 1** ER 15/46/38/22 C
- 2** ER 17/75/70/30 Q
- 3** ER 19/75/70/30 Q

For an overview of standard picks, see pages 45 to 47. Depending on application, cutter drums can be supplied with a choice of pick according to the type of pick box used.

Exceptional narrow width due to special design gearbox

Powerful hydraulics thanks to double motor design

Excavate narrow trenches without sideways movement

Ideal for soil stabilisation

Protected hose management

Operational to 30 meters underwater without need for modifications



APPLICATIONS

Trenching and pipeline work

Soil stabilisation



Further application examples on

www.kemroc.com



KRC 140



KRC 140



KRC 140 | Trenching and pipeline work



CUT & BREAK

DMW RANGE

Cutter wheels with double motor for rock up to 140 MPa

 14 – 120 t

Cutter wheels in the DMW range were designed in cooperation with customers for attachment to hydraulic excavators. Two high torque, lateral hydraulic motors guarantee high production rates and maximum cutting forces. As a result, even in hard rock with a uniaxial compressive strength of 140 MPa as well as re-enforced concrete, very high productivity rates can be achieved. KEMROC produces these robust attachments in four sizes for excavators from 14 to 120 tons.

To meet the demands of many applications, KEMROC have developed cutter wheel variations for cutting depths to 1,000 millimeters. A choice of wheels with different tooling configurations and a range of widths up to 400 mm are available. Wheels with non-standard width and cutting depth are available on demand.

The DMW range is designed to work under water to depths of 30 meters, making the cutter wheels ideal for trenching and underwater demolition projects.



DMW 220
Bridge demolition using
the Cut & Break process



DMW RANGE

Cutter wheels with double motor for rock up to 140 MPa

DMW 90

Wheel 400

Wheel 600

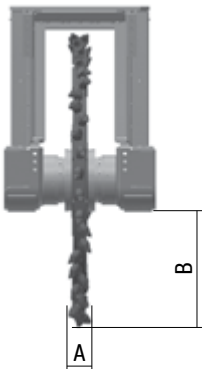
DMW 130

Wheel 400

Wheel 600

Wheel 800

Recommended excavator weight	t	14–25	14–25	20–40	20–40	25–40
Rated power	kW	90	90	130	130	130
Cutting width (A)	mm	80 130 200	80 130 200	80 130 200	80 130 200	80 130 200
Cutting depth (B)	mm	400	600	400	600	800
Cutter wheel diameter	mm	1,210	1,610	1,210	1,610	2,010
Recommended rotation speed	rpm	60	50	60	50	40
Recommended oil flow	l/min	150–190	120–170	280–340	250–340	200–300
Max. oil flow	l/min	200	200	340	340	340
Max. operating hydraulic pressure	bar	400	400	400	400	400
Torque at 380 bar	Nm	15,083	15,083	30,239	30,239	30,239
Cutting force at 380 bar	kN	24.9	18.7	50.0	37.6	30.1
Max. uniaxial compressive strength	MPa	60	40	100	80	60
Weight of drive unit, approx.	kg	1,100	1,100	1,150	1,150	1,150
Weight of cutter wheel, approx. ^[2]	kg	400	800	400	800	1,250
Weight of dipping device, approx.	kg	250	250	300	300	300
Weight of protection cover, approx.	kg	55	55	55	55	55
Total weight, approx.	kg	1,805	2,205	1,905	2,305	3,005
Pick box ^[3]	Type	PH 32 HD	PH 32 HD	PH 32 HD	PH 32 HD	PH 32 HD
Standard pick ^[3]	Type	1	1	1	1	1



1 ER 17/75/70/30 Q

3 ER 25/80/80/38 C

2 ER 22/75/70/30 Q

For an overview of standard picks, see pages 45 to 47. Depending on application, cutter wheels can be supplied with a choice of pick according to the type of pick box used.

KEMROC can supply wheels to order for various cutting widths and depths. Within technical boundaries, cutter wheels can be made to order.

^[2] Cutter wheel weight depends on diameter and width.

^[3] Contrary to what is shown in the table, 80 mm wide cutter wheels are fitted with PH 22 pick boxes and ER 15/46/38/22 C picks as standard.



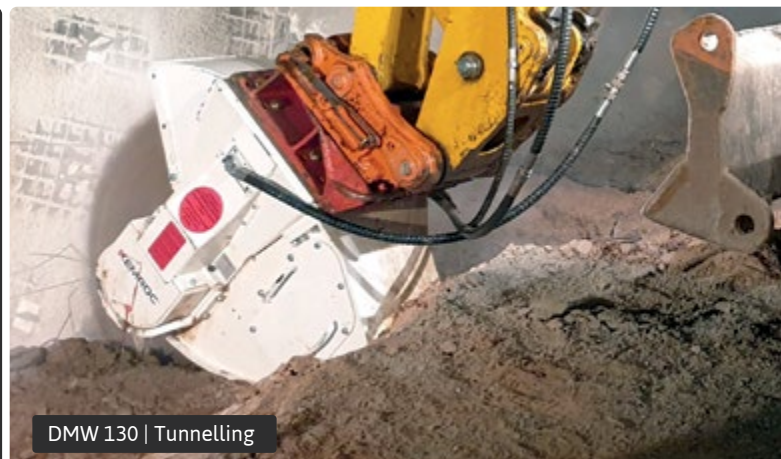
APPLICATIONS

Concrete demolition

Cable trenching

Tunnelling

Soft rock mining



DMW 130 | Tunnelling

Two high torque hydraulic motors
Smooth and regular cutting action
Supports for vibration free cutting

Cutter wheels for various cutting depths and widths
Optional – water nozzles for dust suppression

Operational to 30 meters under-water
Ideally suited for concrete demolition

DMW 220

Wheel 600

Wheel 800

Wheel 1000

DMW 400

Wheel 1000

40–60	40–60	45–60	50–70 ^[1] 70–120
220	220	220	400
130 200 400	130 200 400	130 200 400	130 200 400
550	750	1,000	1,000
1,610	2,010	2,570	2,700
45	35	30	25
450–600	380–600	350–600	600–900
700	700	700	1,000
400	400	400	400
65,317	65,317	65,317	142,730
81.1	65.0	50.8	105.7
120	120	100	140
2,750	2,750	2,750	5,500
800	1,250	2,250	3,300
920	920	920	1,450
180	180	180	250
4,650	5,100	6,100	10,500
PH 32 HD	PH 32 HD	PH 32 HD	PH 38 HD
2	2	2	3

^[1] Attachment only with special adaptor to boom and additional counterweight on excavator.



Further application examples on

www.kemroc.com



KRX RANGE

Powertool drives with attachments for milling, drilling and mixing



The new range of KRX Powertool drives are extremely robust and use a high torque radial piston motor to generate extremely high torque and cutting forces. Designed for use with a selection of sturdy attachments, they are an ideal addition to your excavator for a wide variety of applications.

Used with a cutter attachment, the KRX drive can be used in trenching, cutting out foundations or for profiling bored pile heads. With a heavy duty hexagonal shaft connection, different attachments can be exchanged quickly and easily.

Milling attachments fitted with dragontooth tools can be used in permafrost or for tree stump grinding. Dragontooth cutters can also be used for mixing and soil stabilisation.

When used with a drilling attachment, the Powertool drive can drill shallow holes up to 1,500 millimeters diameter. With heavy duty bearings and an oversized hexagonal shaft connection, these tools are extremely strong and capable of drilling rock with uniaxial compressive strengths up to 60 MPa.



KRX 120
Working bored pile heads



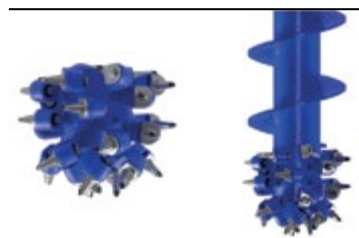
KRX RANGE

Powertool drives with attachments for milling, drilling and mixing

DRIVE



MILLING ATTACHMENT



Cutter head with round attack or dragon tooth picks

Cutter head with spiral extension

DRILLING ATTACHMENT



Drilling auger with pilot bit

KRX 30 KRX 45 KRX 65 KRX 70

Recommended excavator weight	t	5–8	9–12	13–20	15–25
Rated power	kW	30	45	65	70
Length of drive unit	mm	550	610	610	830
Torque at 380 bar	Nm	4,500	7,500	11,300	16,000
Max. oil flow at 10 bar	l/min	110	130	190	300
Max. hydraulic pressure	bar	400	400	400	400
Weight without attachment	kg	160	240	260	520
Hex connection, standard	mm	80	80	80	160

Milling attachment (optional)

Length of standard cutter head	mm	350	350	350	400
Diameter of standard cutter head	mm	370	400	400	450
Cutting force at 380 bar	N	24,324	37,500	56,500	71,111
Recommended rotation speed	rpm	80	70	70	75
Recommended oil flow	l/min	50–70	80–110	120–170	130–190
Pick box	Type	PH 22	PH 22	PH 22	PH 22
Number of picks	Pcs	26	29	29	30
Standard pick (round shaft)	Type	1	1	1	1
Standard pick (dragon tooth)	Type	2	2	2	2

Drilling attachment (optional)

Max. drill diameter	mm	600	800	1,000	1,000
Min. drill diameter	mm	270	270	270	270
Max. drilling depth at max. drill diameter	mm	1,500	1,500	2,000	2,000
Max. drilling depth at min. drill diameter	mm	2,500	3,000	4,000	7,000
Max. uniaxial compressive strength of the ground	MPa	10	20	20	30
Recommended oil flow	l/min	30–70	40–100	80–150	100–190

1 ER 12/45/38/22 HC

2 DT 22/46/38/22 HC

3 ER 17/75/70/30 Q

4 DT 22/90/70/30 HQ

5 ER 19/75/70/30 Q

For an overview of standard picks, see pages 45 to 47. Depending on application, cutter heads can be supplied with a choice of pick according to the type of pick box used.



Multifunctional and versatile thanks to a large selection of attachments

Quick interchangeability of attachments

KRX 110 KRX 120 KRX 130 KRX 140

20–35	25–40	25–40	30–50
110	120	120	140
842	842	842	875
25,400	30,300	33,000	36,400
320	350	350	390
400	400	400	400
540	540	540	900
160	160	160	160
430	430	430	450
500	500	500	550
101,600	121,200	132,000	132,364
70	60	60	50
180–300	200–340	230–340	280–370
PH 32 HD	PH 32 HD	PH 32 HD	PH 32 HD
26	26	26	30
3	3	3	5
4	4	4	4
1,200	1,300	1,300	1,500
270	270	270	270
3,000	4,000	4,000	4,000
7,000	7,000	7,000	8,000
40	50	50	60
150–250	180–300	190–300	220–350



High torque radial piston motors

Heavy duty, long lasting bearings

Exceptionally robust hexagonal shaft connector



APPLICATIONS

Milling attachment

Excavating foundations

Profiling bored pile heads

Tree stump grinding (dragontooth)

Also suitable for use in trenching, mixing soil formations and for cleaning slag out of runners in steel works

Drilling attachment

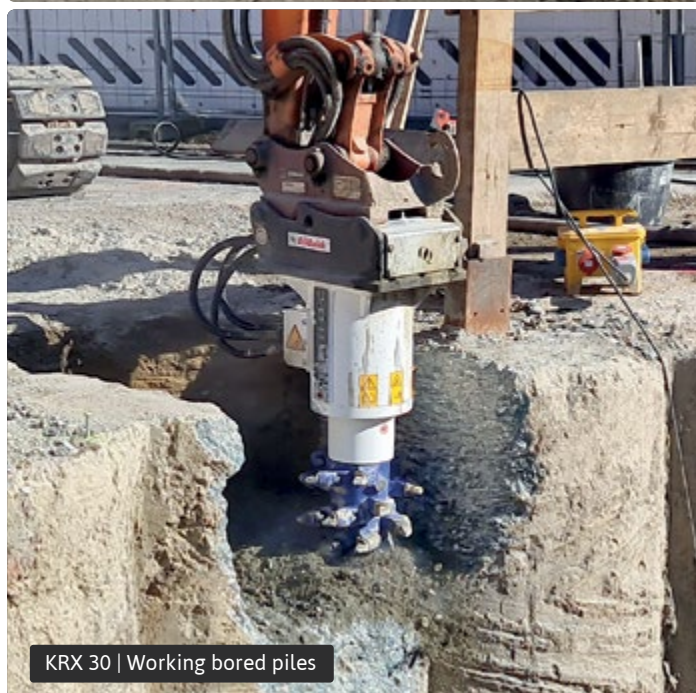
Enlarging holes for sheet pile ramming

Drilling holes for I-beam shoring

Drilling planting holes for trees

Exploratory drilling for ordnance disposal services

Drilling foundations for sound barriers



Further application examples on

www.kemroc.com



APPLICATIONS

- Repairing asphalt surfaces
- Removal of contaminated concrete surfaces
- Milling asphalt for house connections
- Milling walls and plaster removal
- Renovating locks
- Tunnel renovation



EX 45 HD | Tunnel renovation

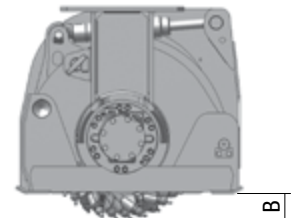
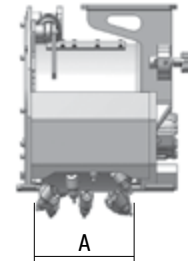


EX 45 HD | Asphalt removal



Further application examples on

www.kemroc.com



Recommended excavator weight

Rated power

Cutting width, standard (A)

Cutting depth, adjustable (B)

Recommended rotation speed

Recommended oil flow at 100 bar

Min. oil flow

Max. oil flow

Max. operating hydraulic pressure

Torque at 350 bar

Cutting force at 350 bar

Operating weight

Pick box

Number of picks

Standard pick

EX RANGE WITH ROTATION UNIT

Recommended excavator weight

Operating weight

EX RANGE

Patch planers for milling asphalt and concrete with accurate depth control



 1–23 t

Patch planers in the EX range are ideally suited for the repair of asphalt surfaces, removal of contaminated concrete or milling layers of screed. Mechanical or hydraulic depth control makes milling to very accurate depth possible, to a maximum of 19 centimeters.

Regardless of whether horizontal, vertical or inclined – the EX range can be used on any surface orientation. KEMROC planers can even be used on overhead surfaces, as can be

found for example, in some tunnelling applications. Patch planers produce clean, smooth cut edges (pre-cutting is not necessary) and a fine grained cut material that can be used in other applications.

Depending on the material to be milled, cutter drums can be fitted with different tooling variations. In addition, non-standard drum types and widths can be supplied to meet unusual working conditions and ensure the best performance possible.



A rigid support frame with wear resistant slides

High torque, modifiable, hydraulic motor

Robust housing, low vibration

Accurate depth control (mechanical or hydraulic)

Smooth cut edges and fine grained cut material

Integrated water jets for dust control (connections for vacuum dust extraction optional)

	EX 20	EX 20 HD	EX 30 HD	EX 45 HD	EX 60 HD
t	1–3	2–4	5–10	10–16	15–23
kW	22	22	30	65	80
mm	200	200	300	450	600
mm	0–70	0–70	0–120	0–150	0–190
rpm	80–200	80–200	80–125	70–110	70–95
l/min	20–50	25–65	60–95	110–170	150–200
l/min	20	25	60	100	150
l/min	70	90	110	180	210
bar	310	310	380	380	380
Nm	660 @ 205 bar	1,000 @ 205 bar	4,100	8,700	9,300
kN	4 @ 205 bar	6 @ 205 bar	16	30	28
kg	165	170	400	730	1,230
Type	PH 14	PH 14	PH 20	PH 20	PH 20
Pcs	42	42	35	49	69
Type	1	1	2	2	3
	EXR 20	EXR 20 HD	EXR 30 HD	EXR 45 HD	EXR 60 HD
t	1–3	2–4	6–10	12–16	16–23
kg	250	255	585	1,010	1,700

- 1** ER 16/28/26/14 H
- 2** ER 16/48/32/20 H
- 3** ER 19/48/36/20 H

For an overview of standard picks, see pages 45 to 47. Depending on application, cutter drums can be supplied with a choice of pick according to the type of pick box used.

Cutter heads for asphalt, concrete and rock



 **1–40 t**

The ES range of cutter heads are ideally suited for accurate profiling of horizontal or vertical surfaces. Whether for surface cleaning, profiling, straightening or simply for material removal, depending on the application, various types of cutter drum can be used for processing asphalt, concrete and rock.

ES cutter heads are available for excavators with 1 to 40 ton operating weight and can be used in conjunction with stepless rotation modules.



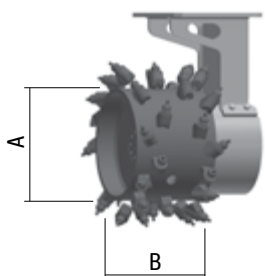
Tool carrier with high torque hydraulic motor

Milling attachment for the precise removal of material from horizontal and vertical surfaces

An integrated rotation unit, providing continuous stepless rotation, is available as an option

ES 20 ES 20 HD ES 30 HD ES 45 HD ES 60 HD

Recommended excavator weight	t	1–3	2–4	5–10	10–16	15–23
Rated power	kW	22	22	30	65	80
Diameter of cutter drum (A)	mm	360	360	520	580	670
Width of cutter drum (B)	mm	200	200	300	450	600
Cutting depth	mm	85	85	110	110	190
Min. oil flow	l/min	20	25	60	100	150
Max. oil flow	l/min	70	90	110	180	210
Max. hydraulic pressure	bar	310	310	380	380	380
Torque at 350 bar	Nm	1,127	1,710	4,100	8,700	11,700
Pick box	Type	PH 14	PH 14	PH 20	PH 20	PH 20
Number of picks	Pcs	42	42	35	49	69
Standard pick	Type	1	1	2	2	2



- 1** ER 16/28/26/14 H
- 2** ER 16/48/32/20 H
- 3** ER 17/75/70/30 Q
- 4** ER 19/75/70/30 Q

For an overview of standard picks, see pages 45 to 47.
Depending on application, cutter drums can be supplied with a choice of pick according to the type of pick box used.



APPLICATIONS

- Grinding jet grouting material
- Lock renovation
- Grinding retaining walls
- Profiling blocks of natural stone
- Grinding shotcrete in tunnels
- Cleaning concrete piled walls

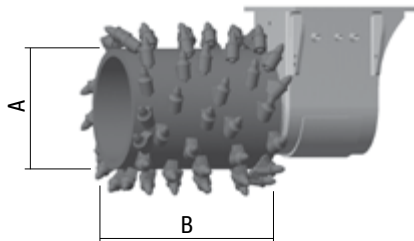
**ES
80 HD**

**ES
110 HD**

15–25	25–40
80	110
825	785
600 800	600 800 1,000
150	105 150
150	210
210	350
380	380
15,200	27,800
PH 32 HD	PH 32 HD
69 (800 mm)	44 (600 mm)

3

4



ES 60 HD | Profiling excavation boundaries



ES 60 HD | Profiling limestone blocks



Further application examples on

www.kemroc.com

KSI RANGE

Injection attachments for permeating cohesive soils with a cement suspension

 35 – 120 t

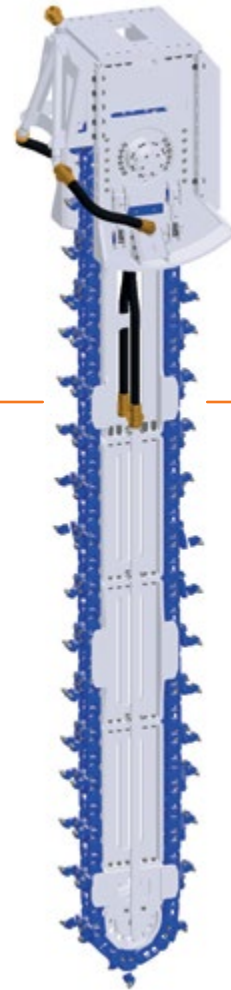
The KSI range of injection attachments were developed in cooperation with a German specialist ground engineering company and are at the core of the Kemsolid KSI process.

The Kemsolid KSI process is a system of soil stabilisation using an excavator attachment to inject and mix a defined concrete suspension in non-load bearing soils (KSI) that, when left to harden, create a homogenous, impermeable and frost resistant soil-cement structure. Depending on soil conditions and desired load bearing requirements, various concentrations of cement and binder fluid are used.

KSI soil mixing attachments are available in two sizes for mounting on excavators between 35 and 120 ton

operating weight and can be supplied with a range of blade lengths. The KSI 7000 model can be equipped with blades suitable for mixing depths of 5, 6 or 7 meters, while the larger KSI 12000 model can take blades for mixing depths of 6, 8, 10 or 12 meters. Depending on the application, the blades can be produced with cutter plates for different mixing widths.

Both models can be supplied with a rotation module as an optional extra.



KEMSOLID®
build on solid foundations



APPLICATIONS

Road construction – soil cement, edge beams, shoulder renovation, slope and embankment stabilisation

Flood defences – sealing walls, dam stabilisation, diaphragm walls

De-contamination

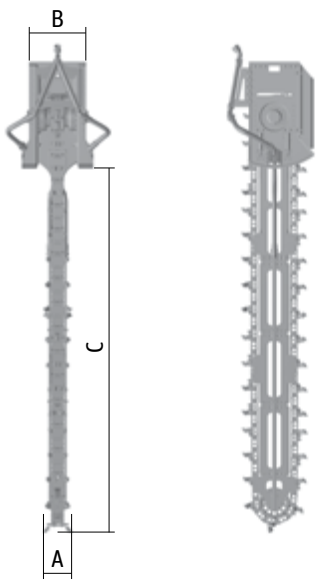
Retaining walls – building construction, civil engineering, pipelines

Foundations

Railway construction



KSI 7000 | Installing a diaphragm wall from soil-cement mixture



Mixing blade extendable to 12 meters

The attachment can be mounted on standard excavators

Optimal pattern of tungsten carbide tipped tools for the mixing process

High torque drive motors provide enough power to mix heavy soils

Simple, heavy-duty construction

Hydraulic tensioning of the mixing chain is possible

**KSI
7000**

**KSI
12000**

Recommended excavator weight	t	35–55	50–80 ^[1] 80–120
Rated hydraulic power	kW	130	220
Mixing width (A)	mm	350–500	450–600
Width of gearbox (B)	mm	1,000	1,360
Modular mixing depth (C)	m	5 6 7	6 8 10 12
Recommended chain speed	m/s	2.0–2.5	2.0–2.5
Recommended oil flow at 150 bar	l/min	300–400	550–700
Max. oil flow	l/min	400	700
Max. operating hydraulic pressure	bar	400	400
Max. permissible ground compressive strength	MPa	10	10
Standard mixing tool	Type	DT 22/46/38/22 HC	DT 22/90/70/30 HQ
Weight			
Weight of attachment built for max. mixing depth	kg	4,500	12,500
Weight per meter for extension	kg	350	700

^[1] Attachment only with special adaptor to boom and additional counterweight on excavator. Size of counterweight depends on excavator and should be agreed with excavator manufacturer.



A completed soil cement structure exposed for inspection and testing



KSI 12000 | Installing a diaphragm wall



Further application examples on

www.kemsolid.com



APPLICATIONS

- Pre-drilling for rammed sheet piles
- Drilling holes for I-beam shored walls
- Drilling holes for tree planting
- Exploration drilling for ordnance disposal services



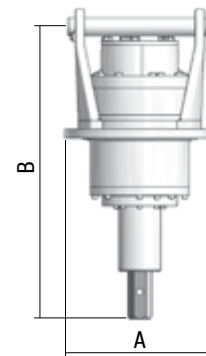
EBA 2300 | Special foundation work



EBA 2300 | Drilling for support shoring



EBA 2800 | Drilling for support shoring



Recommended excavator weight

Max. drill diameter

Min. drill diameter

Max. drilling depth at max. drill diameter

Max. drilling depth at min. drill diameter

Diameter of drive unit (A)

Length of drive unit (B)

Max. torque

Recommended oil flow

Max. oil flow

Max. operating hydraulic pressure

Max. rotation speed

Auger connection

Weight excl. hydraulic hoses and mounting plate



Alignment monitor



Further application examples on

www.kemroc.com

EBA RANGE

Auger drive attachments for excavators and backhoe loaders

 **7–40 t**

The EBA range of auger drive units allows you to quickly convert your excavator or backhoe loader into a drill rig by simply changing the attachment.

These auger drive units are ideal for drilling holes in soft to compact

soils, cobbles and in soft rock with compressive strengths up to 50 MPa.

For use in harder rock, KEMROC have developed special drilling tools to ensure higher drilling speeds.



Short and heavy duty construction

Robust and rigid bracket

Direct drive without planetary gears

Robust hexagonal shaft connector



	EBA 500	EBA 1000	EBA 2300	EBA 2800	EBA 3300
t	7–13	14–17	18–35	25–40	25–40
mm	800	1,000	1,200	1,500	1,500
mm	200	200	300	300	300
mm	2,000	3,000	4,000	4,000	4,000
mm	5,000	5,000	8,000	8,000	8,000
mm	390	390	500	500	500
mm	600	600	980	980	980
Nm	5,200	10,400	23,400	28,000	33,000
l/min	50–70	80–150	150–250	180–280	180–280
l/min	85	150	300	300	300
bar	380	380	380	380	380
rpm	90	80	75	75	75
Type	H 80	H 80	H 80	H 80	H 80
kg	160	180	360	360	360



Alignment monitor to guarantee vertical drilling

Wear resistant augers

Auger drives for tough applications



Notes for drilling with KEMROC auger drive units:

When mounted on an excavator arm, the augers are not supported in a feeder. Due to the natural curve of the excavator arm, augers can be bent during drilling. Therefore, special care must be taken to ensure that the augers are always working vertically. Only by keeping the auger in the vertical position can you guarantee a straight bore hole. Take great care to avoid bending the augers. Excessive bending of the auger can result in the hex drive breaking and damage to the auger drive. Select the auger rotation speed that corresponds to the auger diameter and material being drilled. Generally, rotation speeds should be lower for larger diameter augers or when drilling in harder material.

KTR RANGE

Trenching attachments for medium hard rock

 **18–35 t**



The KTR range of trenchers can produce trenches with perfect profiles in widths from 17 to 45 centimeters to a maximum depth of 1.8 meters. Chose from a range of cutting chain widths, each fitted with wear resistant picks.

desired cutting depth. When the trencher has reached the required depth, the excavator is driven backwards or the trencher is pulled forward with the excavator arm. Finally, the milled material is transported via

a special discharge housing or screw conveyor and deposited next to the trench.

When starting the trench, the KTR is supported while sumping down to the

KTR 65

KTR 130

Recommended excavator weight	t	18–25	25–35
Rated power	kW	65	130
Cutting width, standard (A)	mm	170–350	200–450
Cutting depth (B)	mm	1,000–1,800	1,000–1,500
Recommended oil flow at 150 bar	l/min	170–200	250–350
Max. oil flow	l/min	200	350
Max. uniaxial compressive strength	MPa	50	60
Weight	kg	2,700	3,000
Pick box	Type	PH22	PH22
Standard pick	Type	ER12/45/38/22 HC	ER12/45/38/22 HC

For an overview of standard picks, see pages 45 to 47. Depending on application, cutter chains can be supplied with a choice of pick according to the type of pick box used.



APPLICATIONS

Trenching and pipeline work



KTR 130 | Trenching and pipeline work

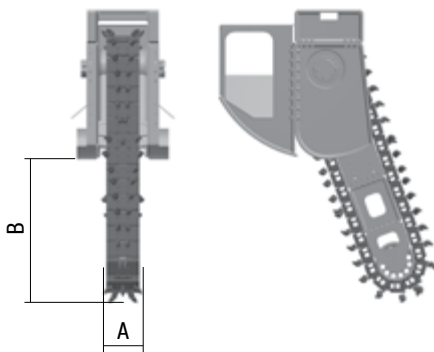
Driven by two high torque hydraulic motors to obtain maximum cutting force



Housing with spoil discharger and sumping aid

Adjustable length cutter chain

Maintenance free cutter chain with high operating life



Further application examples on

www.kemroc.com



KDS 50 | Cutting concrete



KDS 50 | Aircraft recycling



KDS 50 HD | Recycling wind turbine components

KDS RANGE

Diamond saws for rock, concrete, plastic, GRP, aluminium, wood and foil



 2–30 t

The KDS range of diamond saws were designed to cut concrete, stone and GRP (glass fiber reinforced plastic) as used for wind turbine blades. High rotation speeds combined with a large choice of different saw blade types makes them very effective in a wide range of applications.

Saw blades for:

- + Natural stone, granite, concrete and reinforced concrete
- + Asphalt and plastics (as e.g. wind turbines)
- + Wood, plastics, foil and aluminium

For an overview of range of saw blades, see page 49.

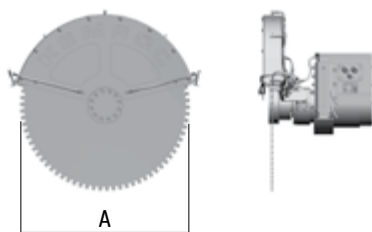


High rotation speed up to 2,000 rpm

Drive motors with heavy-duty bearings

Effective cooling of saw blades

Lateral pull-out protective covers for all saw blade diameters



**KDS
20**

**KDS
30**

**KDS
40**

**KDS
50**

**KDS
50 HD**

Recommended excavator weight	t	2–4	5–10	10–16	15–25	18–30
Rated power	kW	55	80	130	135	230
Max. saw blade diameter (A)	mm	800	1,200	1,500	1,500	1,800
Max. torque at 350 bar	Nm	140	311	600	721	1,528
Max. rotation speed	rpm	1,200	2,000	2,000	2,000	1,700
Max. oil flow	l/min	40	115	180	260	470
Max. operating hydraulic pressure	bar	350	350	350	350	350
Weight of drive unit excl. saw blade and protective cover	kg	100	210	310	720	850



APPLICATIONS

Cutting rotor blades from wind turbines

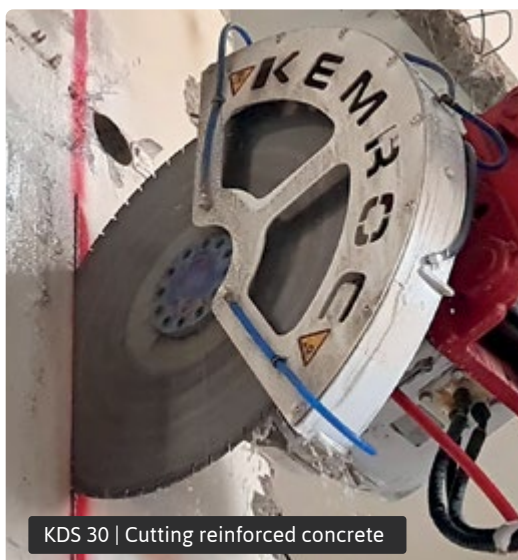
Cutting asphalt in road works

Demolition of reinforced concrete

Cutting aluminium sheets

Cutting wood

Cutting natural stone such as granite, sandstone, etc



KDS 30 | Cutting reinforced concrete



Further application
examples on

www.kemroc.com

KRM RANGE

Rotation units with endless rotation



Rotation units in the KRM range have been developed for use with KEMROC milling attachments. In combination with rotation units, milling attachments can always be placed in the correct position while facing in the right direction. As a result, in most cases work is completed faster and with more accuracy.

When used with EX patch planers, it is possible to mill longitudinally in front of the excavator as well as 90° across the excavator without having to move the excavator. You can even work to the side of the excavator. DMW, EK or KTR attachments working in combination with KRM rotation units can also benefit from this flexibility of working

position. Horizontal slots can be cut easily using a KDS attachment together with a KRM rotation unit.

Depending on the application, productivity can be increased by up to 50 percent when using KRM rotation units – especially in sewer and pipeline construction, profiling and tunnelling.

KRM 20

KRM 30

KRM 35

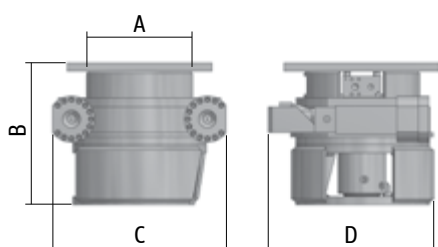
KRM 40

KRM 50

Recommended excavator weight	t	2-6	5-12	7-15	12-18	19-27
Diameter (A)	mm	240	320	320	460	488
Height (B)	mm	330	371	371	520	394
Length (C)	mm	510	610	640	760	720
Width (D)	mm	350	500	620	600	700
Max. oil flow at 10 bar	l/min	40	40	40	40	40
Max. holding torque	Nm	6,000	9,000	18,000	44,700	95,000
Weight	kg	150	275	320	440	700
Number of drive motors	Pcs	1	1	2	2	2

Recommended KEMROC attachments

EK Chain Cutters	Type		EK 20	EK 40	EK 60	
EKT Rotary Drum Cutters	Type		EKT 20	EKT 40	EKT 60	
KR Rotary Drum Cutters	Type		KR 18	KR 30	KR 45 65	KR 80
KRD Rotary Drum Cutters	Type		KRD 18	KRD 30	KRD 45	KRD 70
KRC Bullhead Cutters	Type				KRC 60	
DMW Cutter Wheels	Type					DMW 90
EX Surface Milling Attachments	Type	EX 20	EX 30 45 60			
ES Cutter Heads	Type	ES 20	ES 30		ES 45	ES 60 80
KTR Trenching Attachments	Type					KTR 65
KDS Diamond Saw Attachments	Type	KDS 20	KDS 30 40	KDS 50 50 HD		





Compact and low maintenance

Continuous and stepless rotation

High holding torques

Durable worm gear drive

Heavy duty bearings

Save up to 50 percent working time

**Oil distributors developed in-house guarantee
flow rates of oil and water**

KRM 60

25-40

610

636

780

770

40

200,000

900

2

KRM 70

30-50

700

620

910

800

40

270,000

1,000

2

KRM 80

50-70

900

820

1,170

1,000

40

350,000

2,000

2

EK100|110

EKT100|110|140|150

KR120|150

KRD100|120|150

KRC100|110|140|150

DMW130

ES110

KTR130

EK140|150

EKT160

KR165

KRD165

EK220

EKT220

KR200

DMW220



APPLICATIONS

Trenching and pipeline work

Tunnelling

Demolition and renovation

Profiling



KRM 50 | Trenching and pipeline work

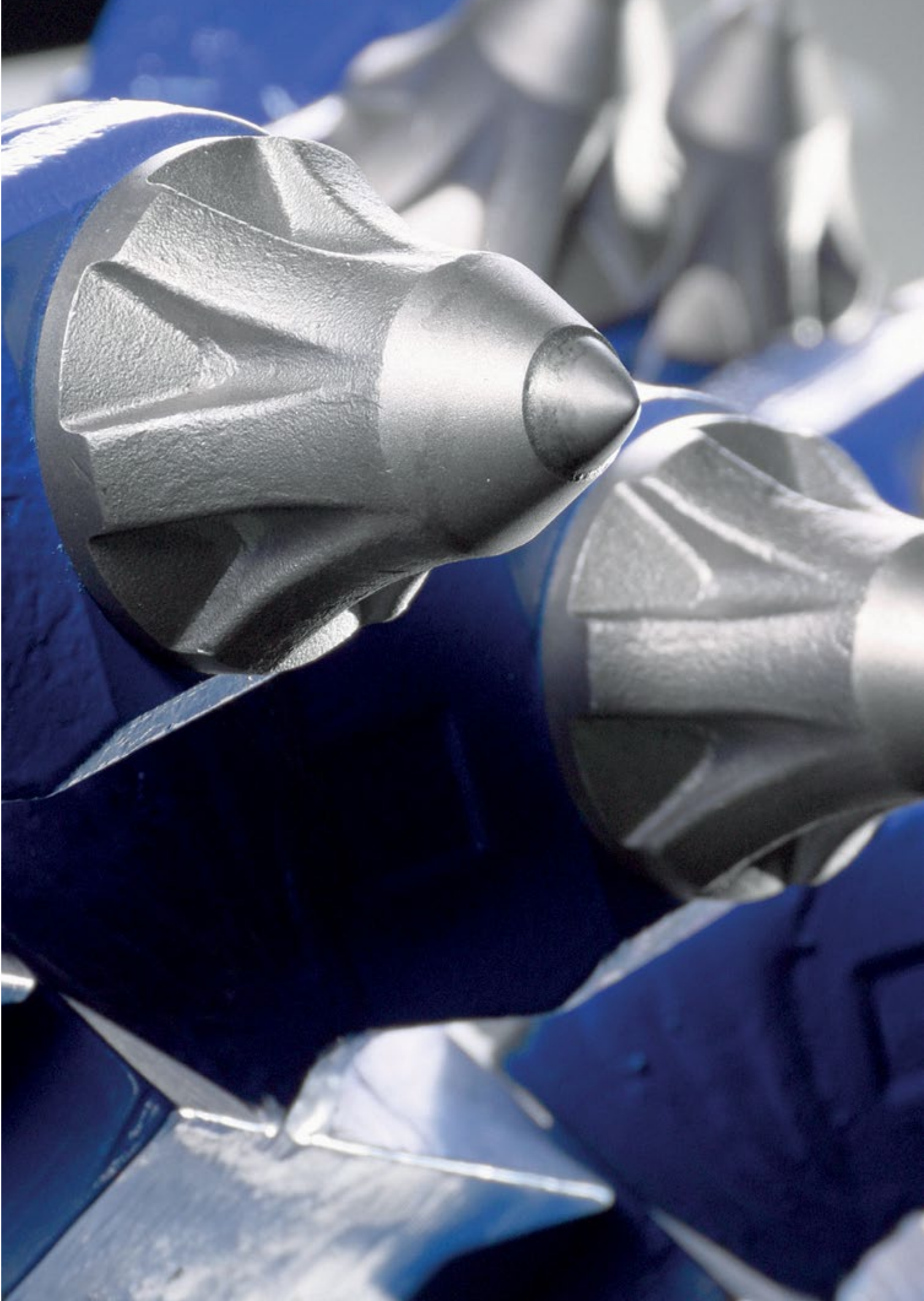


KRM 60 | Foundation work



Further application examples on

www.kemroc.com





TOOLS

Picks with matching retainers

Pick boxes

Diamond saw blades

Mounting and dismantling tools

KEMROC cutters and cutting wheels 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 around the world, can be seen in the type of picks used and their placement on the drums. This unique combination provides maximum productivity with minimum wear, ensuring the economical performance of KEMROC products even in the hardest conditions.

Modern technology and continuous product development are the basics for ensuring the economic benefits of using our cutting tools and attachments. 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.

The following pages are intended to provide an overview of our standard range of picks, retainers and pick boxes suitable for the majority of applications.

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

Simple facts about picks

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 dimensions can be found from the numbers in the four-part numbering system:

XX/xx/xx/xx	1. Number: Diameter of tungsten carbide insert (mm)
xx/XX/xx/xx	2. Number: Length of the head of the pick (mm)
xx/xx/XX/xx	3. Number: Diameter of pick shoulder (mm)
xx/xx/xx/XX	4. Number: Diameter of shaft of the pick (mm)

Example:

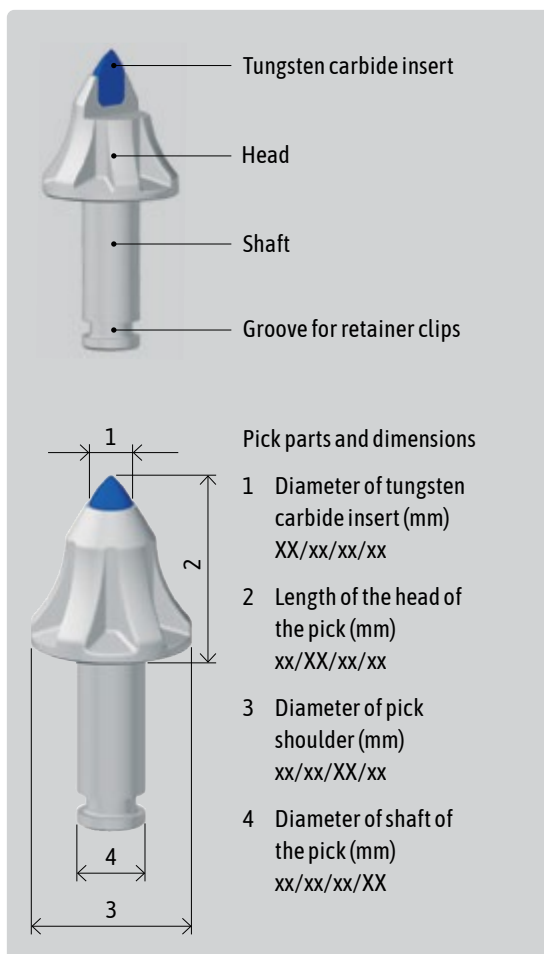
Round attack pick ER 19/75/70/30 Q:

1. Number - Diameter of tungsten carbide insert:	19 mm
2. Number - Length of the head of the pick:	75 mm
3. Number - Diameter of pick shoulder:	70 mm
4. Number - Diameter of shaft of the pick:	30 mm

THE RETAINER

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, KEMROC offers the QuickSnap retaining system, which allows picks to be changed in a matter of seconds. This represents a saving of over 50 percent in time compared with normal circlip or knock on retainer systems. Due to the deeper groove in the shaft of the pick and the larger surface area between pick and holder, the KEMROC QuickSnap system is more secure and has less wear.



Easier and quicker pick changes with KEMROC QuickSnap.

Picks with matching retainers

**PH
14**



Round attack pick
ER 15/29/26/14 C
incl. **ES 14**

Application
Asphalt, concrete, soft to
medium hard rock

Part No. 15292614



Round attack pick
ER 16/28/26/14 H

Application
Asphalt, concrete, soft to
medium hard rock

Part No. 16282614

**PH
15**



Round attack pick
ER 19/33/30/15 S

Application
Asphalt, concrete, soft to
medium hard rock

Part No. 19333015



Circlip retainer
SG 15

Part No. 99999990

**PH
20**



Round attack pick
ER 12/45/38/20 K

Application
Concrete, soft to medium
hard rock

Part No. 12453821



Round attack pick
ER 19/48/36/20 H

Application
Asphalt

Part No. 19483620



Round attack pick
ER 16/46/38/20 C

Application
Concrete, soft to medium
hard rock

Part No. 16463820



Retaining clip
ES 20

Part No. 99999991



Round attack pick
ER 16/48/32/20 H

Application
Asphalt

Part No. 16483220



TOOLS

Picks with matching retainers

PH 22



Round attack pick
ER 12/45/38/22 HC

Application
Concrete, medium hard
and abrasive rock

Part No. 12453823



Retaining clip
ES 22

Part No. 99999996



Round attack pick
ER 15/46/38/22 C

Application
Concrete, medium hard
rock

Part No. 15463822



Retaining clip
ES 22

Part No. 99999996



Round attack pick
ER 19/51/45/22 H

Application
Asphalt, soft and abrasive
rock

Part No. 19514522



Dragontooth pick
DT 22/46/38/22 HC

Application
Soft and abrasive ground
and rock, wood

Part No. 22463822



Retaining clip
ES 22

Part No. 99999996

PH 25



Round attack pick
ER 17/64/60/25 Q

Application
Concrete, medium hard
rock

Part No. 17646026



QuickSnap
QS 25

Part No. 99250025



Round attack pick
ER 17/64/60/25 C

Application
Concrete, medium hard
rock

Part No. 17646025



Retaining clip
ES 25

Part No. 99999994



Round attack pick
ER 19/64/60/25 Q

Application
Concrete, medium hard
rock

Part No. 19646026



QuickSnap
QS 25

Part No. 99250025



Round attack pick
ER 22/64/60/25 H

Application
Asphalt, soft and abrasive
rock

Part No. 22646025



Dragontooth pick
DT 22/58/46/25 K

Application
Soft and abrasive ground
and rock, wood

Part No. 22465825

PH 30 | 30 HD | 32 HD



Round attack pick
ER 17/75/70/30 Q

Application
Concrete, medium hard
rock

Part No. 17757036



QuickSnap^[1]
QS 30

Part No. 99500030



Round attack pick
ER 19/75/70/30 Q

Application
Concrete, medium hard
rock

Part No. 19757035



QuickSnap^[1]
QS 30

Part No. 99500030



Round attack pick
ER 22/75/70/30 Q

Application
Concrete, medium hard to
hard rock

Part No. 22757032



QuickSnap^[1]
QS 30

Part No. 99500030



Round attack pick
ER 30/77/70/29 Q

Application
Asphalt, soft, medium hard
and abrasive rock

Part No. 30777032



QuickSnap^[1]
QS 30

Part No. 99500030



Round attack pick
ER 25/80/80/38 C

Application
Concrete, medium hard to
very hard rock

Part No. 25808039



Retaining clip
ES 38

Part No. 99500034

NEW: Triple-plane milling teeth

For better rotation in soft rock



Round attack pick
ER 17/75/70/30 HD TP Q

Application
Soft and medium hard
rock

Part No. 17757037



QuickSnap^[1]
QS 30

Part No. 99500030



Round attack pick
ER 19/75/70/30 HD TP Q

Application
Soft and medium hard
rock

Part No. 19757036



QuickSnap^[1]
QS 30

Part No. 99500030



Round attack pick
ER 15/90/70/30 Q

Application
Salt, gypsum, medium
hard, fractured rock

Part No. 15907035



QuickSnap^[1]
QS 30

Part No. 99500030



Dragontooth pick
DT 22/90/70/30 HQ

Application
Soft and abrasive rock,
wood

Part No. 22907030



QuickSnap^[1]
QS 30

Part No. 99500030

^[1] QuickSnap QS 30 is the standard retainer for this pick. Retaining clip ES 30 available as an alternative.



Retaining clip
ES 30

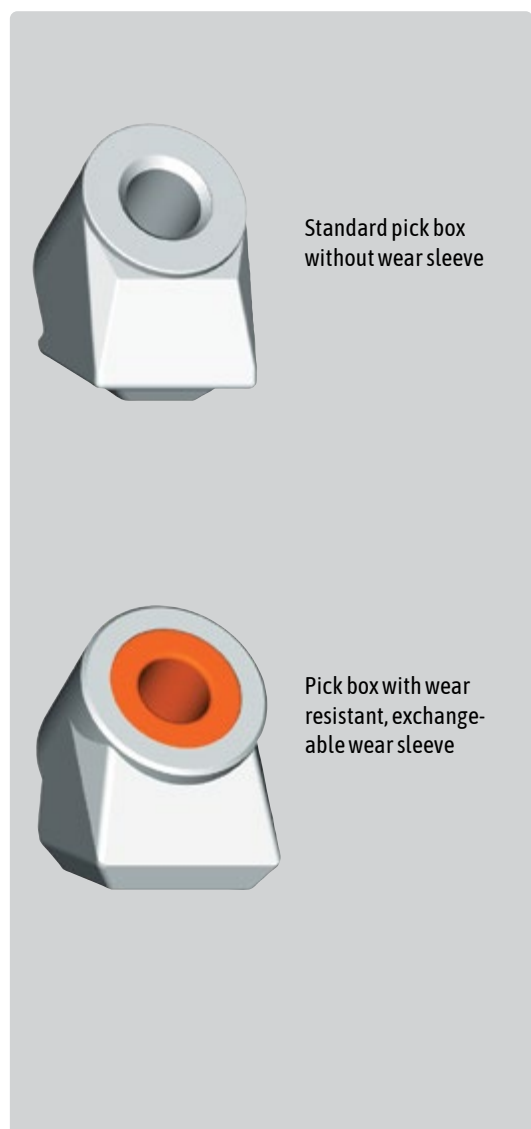
Part No. 99500032

PH 38 HD

Pick boxes

Pick boxes welded onto the cutter head or cutter wheel 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 made from specially heat treated steel and depending on applications, are available with exchangeable wear sleeves.



Pick box
PH 14

Part No. 711222



Pick box
PH 25

Part No. 761025UA



Pick box
PH 32 HD

Part No. 711039



Replacement wear sleeve

Part No. 711029



Pick box
PH 15

Part No. 791004E



Pick box
PH 30

Part No. 711610



Pick box
PH 38 HD

Part No. 753022



Replacement wear sleeve

Part No. 753021



Pick box
PH 20

Part No. 721024E



Pick box
PH 30 HD

Part No. 711084



Replacement wear sleeve

Part No. 711029



Pick box
PH 22

Part No. 721025UA

Diamond saw blades for models in the KDS range



Diamond saw blades for natural stone, granite, concrete and reinforced concrete

Diameter 800 mm
Diameter 1,000 mm
Diameter 1,200 mm
Diameter 1,400 mm
Diameter 1,500 mm
Diameter 1,600 mm
Diameter 1,800 mm



Carbide tipped saw blades for wood, plastics, foil and aluminium

Diameter 400 mm
Diameter 600 mm
Diameter 900 mm
Diameter 1,000 mm
Diameter 1,100 mm



Diamond saw blades for asphalt and plastics (as e.g. wind turbines)

Diameter 800 mm
Diameter 1,000 mm
Diameter 1,200 mm
Diameter 1,400 mm
Diameter 1,500 mm
Diameter 1,600 mm
Diameter 1,800 mm

Mounting and dismantling tools



Knock-out tool

For picks with shaft diameter 20–30 mm as for all dragontooth picks
Part No. 99 99 99 95



Puller tool for picks with retaining sleeves

For picks with shaft diameter 20–25 mm
Part No. 99 99 99 97



Puller tool for QuickSnap retainers

Part No. 99 99 50 00



Mounting tool for retaining clips

For retaining clip ES 20
Part No. 99 99 99 42

For retaining clip ES 22
Part No. 99 99 99 47

For retaining clip ES 25
Part No. 99 99 99 83

For retaining clip ES 30
Part No. 99 99 99 39

For retaining clip ES 38
Part No. on request



Dismantling tool for retaining clips

For retaining clip ES 20
Part No. 99 99 99 43

For retaining clip ES 22
Part No. 99 99 99 48

For retaining clip ES 25
Part No. 99 99 99 82

For retaining clip ES 30
Part No. 99 99 99 36

For retaining clip ES 38
Part No. on request



Mounting gripper for circlip retainers

For picks with shaft diameter up to 25 mm
Part No. 99 99 99 40

For picks with shaft diameter from 30 mm
Part No. 99 99 99 46



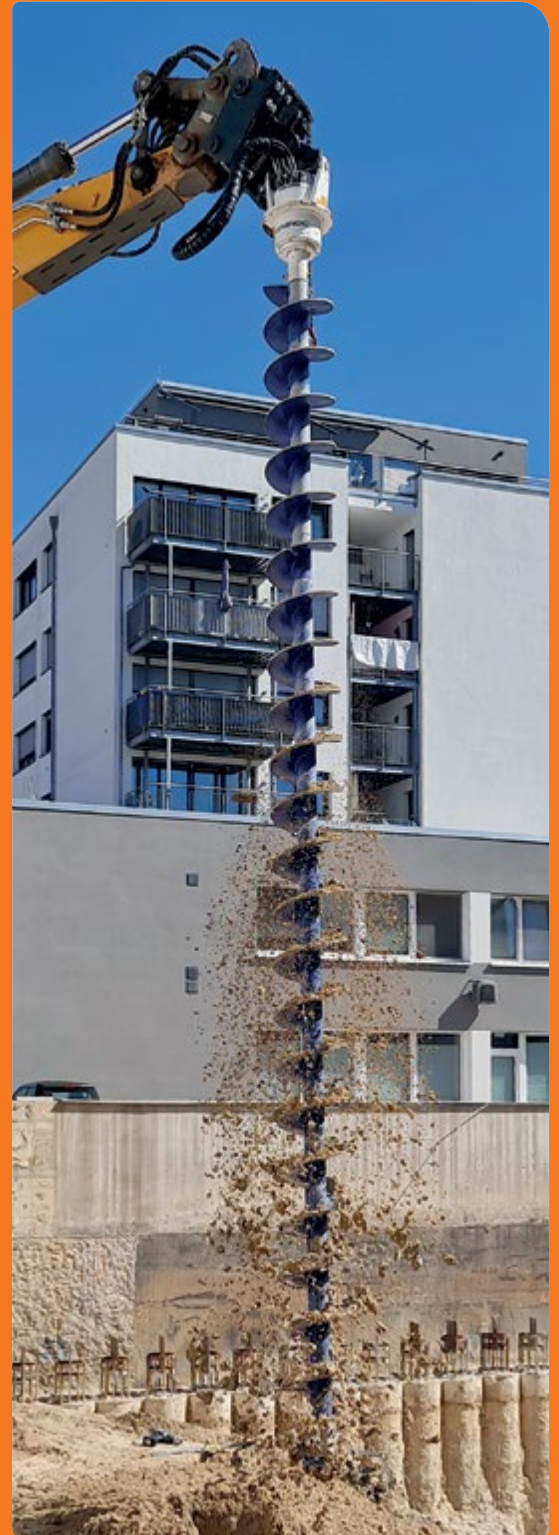
Knock-out tool for stuck picks

For picks with shaft diameter 20–25 mm
Part No. 99 99 99 38

For picks with shaft diameter 30–38 mm
Part No. 99 99 99 37



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