KEMROC[®] revolution of cutting



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.

train your operators.





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Modern production facilities.

revolution of cutting

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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 3 inches.

	Min. trench width	Max. trench width	Trench depth	Recommended excavator weight	Max. uniaxial com- pressive strength	
	in	in	in	lb	psi (MPa)	Page
DMW Cutter Wheels	3	16	16-40	30,000-264,000	20,000 (140)	20
KTR Trenching Attachments	7	18	39-71	40,000-77,000	8,700 (60)	36
KRX Powertool Drives	15	22	4-120	11,000-110,000	20,000 (140)	24
EK Chain Cutters	15	-	4-300	4,400-154,000	20,000 (140)	6
EKT Rotary Drum Cutters	24	-	8-300	4,400-154,000	22,000 (150)	10
KRC Bullhead Cutters	24	-	8-300	26,000-110,000	15,000 (100)	18
KR Rotary Drum Cutters	28	-	8-300	1,300-275,000	26,000 (180)	12
KRD Rotary Drum Cutters	30	-	8-300	1,100-110,000	15,000 (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.

Cutting depth



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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



The EK range of chain cutters are the first of their type on the market. Designed for use on excavators from 4,400 to 154,000 lb, they are ideal for cutting stone with an uniaxial compressive strength up to 20,000 psi (140 MPa). They are efficient, vibration-free attachments for the excavation of deep narrow trenches with the optimal trench profile. Trench width starts from 15 inches. Another application is mining of medium hard minerals with compressive strength from 2,200 to 12,000 psi (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

wear & tear on the excavator swing gear and save energy



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EK RANGE

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

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

		20 EK	ек 40	ЕК 60	ек 100	ек 110	ек 140	ек 150	ек 160	550 EK
Recommended excavator weight	lb	4,400-13,000	15,500-24,500	26,500-37,500	40,000-66,000	55,000 - 70,000	66,000-100,000	77,000-110,000	77,000-110,000	110,000-154,000
Rated power	hp (kW)	29.5 (22)	59 (44)	80 (60)	134 (100)	147 (110)	187 (140)	200 (150)	200 (150)	295 (220)
Drum cutter length (A)	in	40	51	63	78	78	85	85	85	95
Cutting width (B)	in	15	20	20 24	24 28 32	24 28 32	32 36 40	32 36 40	32 36 40	36
Cutter drum diameter (C)	in	13	19	24	32	32	34	34	34	39
Width of gearbox (D)	in	15	15	18	22	22	28	28	28	34
Recommended rotation speed	rpm	100	80	80	70	65	65	60	60	40
Recommended oil flow	gal/min	5-11	18-24	34-43	48-64	56-69	69-80	74-85	77-88	111-146
Max. oil flow	gal/min	13	32	58	69	80	110	118	118	170
Max. operating hydraulic pressure	psi (bar)	4,350 (300)	5,500 (380)	5,800 (400)	5,800 (400)	5,800 (400)	5,800 (400)	5,800 (400)	5,800 (400)	5,800 (400)
Torque at 5,500 psi (380 bar)	lbf·ft	1,480	4,200	8,110	13,500	18,070	18,730	22,350	25,080	53,840
Cutting force at 5,500 psi (380 bar)	lbf	2,810	5,400	8,250	10,300	13,780	13,760	16,030	17,980	33,160
Max. uniaxial compressive strength	psi (MPa)	3,600 (25)	4,400 (30)	7,300 (50)	12,000 (80)	12,000 (80)	15,000 (100)	15,000 (100)	17,000 (120)	20,000 (140)
Weight	lb	695	1,650	2,760 2,870	5,400 5,535 5,775	5,400 5,535 5,775	8,050 8,160 8,380	8,050 8,160 8,380	8,050 8,160 8,380	13,000
Pick box	Туре	PH14	PH 20	PH 22	PH 32 HD	PH 38 HD				
Number of picks in cutter drums	Pcs	56	52	40 60	28 40 48	28 40 48	44 48 56	44 48 56	44 48 56	44
Number of picks in the cutter chain	Pcs	54	49	53	54	54	63	63	63	58
Standard pick	Туре	0	2	8	4	4	4	4	6	6





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.

Fine grained cut material Low noise and vibration levels Works underwater without need for modifications



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APPLICATIONS

Trenching and pipeline work

Mining of soft to medium hard minerals

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







Range of cutting widths available





Further application examples on

ww.kemroc.con

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EKT RANGE

Rotary drum cutters — can be converted into EK chain cutters



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

Two motors for extra hydraulic

Fast and strong

power

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



EKT EKT EKT EKT EKT EKT EKT EKT EKT 110 **160**¹¹ 20 60 140 150 220 40 100 Recommended excavator weight lb 4,400-13,000 15,500-24,500 26,500-37,500 40,000-66,000 55,000-70,000 66K-100K 77K-110K 77K-110K 110K-154K 295 (220) Rated power hp (kW) 29.5 (22) 59 (44) 80 (60) 134 (100) 147 (110) 187 (140) 200 (150) 200 (150) Possibility of conversion to a chain cutter yes/no yes yes yes yes yes yes yes yes yes 58 Drum cutter length (A) in 22 40 47 58 61 61 61 70 Cutter head width (B) in 17 20 20|24 28|32 28|32 35 35 35 [42] 37|52 Cutter drum diameter (C) in 9 18 23 27 27 27 27 27 34 Recommended rotation speed 100 80 80 70 65 65 60 60 40 rpm Recommended oil flow gal/min 5-11 18-24 34-43 48-64 56-69 69-80 74-85 77-88 132-159 Max. oil flow 32 110 118 118 170 gal/min 13 58 69 80 5,800 (400) 5,800 (400) Max. operating hydraulic pressure psi (bar) 4,350 (300) 5,500 (380) 5,800 (400) 5,800 (400) 5,800 (400) 5,800 (400) 5,800 (400) Torque at 5,500 psi (380 bar) lbf∙ft 1,480 4,200 8,110 13,500 18,070 18,730 22,350 25,080 53,840 Cutting force at 5,500 psi (380 bar) lbf 4,000 5,760 8,390 11,910 15,960 15,870 18,930 21,220 38,170 Max. uniaxial compressive strength psi (MPa) 3,600 (25) 4,400 (30) 7,300 (50) 12,000 (80) 12,000 (80) 15,000 (100) 15,000 (100) 17,000 (120) 20,000 (140) 4,410 [5,510] 6,835 7,827 lb 290 950 1,600|1,710 2,870 3,000 2,870 3,000 4,410 4,410 Weight PH14 PH 20 PH 22 PH 32 HD PH 38 HD Pick box Туре 56 Number of picks Pcs 52 40|60 40 44 40|44 44 44 44 [56] 44|60 Standard pick Type 1 2 3 4 4 4 4 5 6





ER 15/29/26/14 C
 ER 16/46/38/20 C
 ER 15/46/38/22 C
 ER 17/75/70/30 Q
 ER 19/75/70/30 Q
 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. ^[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 tunneling



EKT 100 | Trenching

Further application examples on



www.kemroc.com



Rotary drum cutters with spur gears



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 tunneling and also for the vibration free and silent demolition of re-enforced concrete structures.

Effective dust control is particularly importand in demolition and tunneling 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



Extra heavy-duty, rigid gear box housing

Т

Exceptional wear protection on the gearbox

dust suppression system

High torque motors for maximum cutting force

		KR	KR	KR	KR	KR	KR	KR									
		15	18	20	30	35	45	50	65	80	110 ^[1]	120	150 ^{II}	160	165	200	400
Recommended excavator weight	lb	1.3K-6.6K	4.4K-8.8K	4.4K-8.8K	11K-18K	11K-18K	20K-33K	20K-33K	26K-40K	33K-55K	44K-77K	44K-100K	66K-110K	77K-121K	77K-121K	110K-154K	175K-275K
Rated power	hp (kW)	20 (15)	24(18)	24 (18)	40 (30)	40 (30)	60 (45)	60 (45)	87 (65)	107 (80)	148 (110)	160 (120)	160 (120)	214 (160)	214 (160)	268 (200)	536 (400)
Drum cutter length (A)	in	24	24	25	32	32	38	40	47	48.50	58	58	58	62	62	65	78
Cutter head width (B)	in	16	16	20	20	24	24	27	31	31	41 [35]	41 [35]	41 [35]	41	49	52	63
Cutter drum diameter (C)	in	9	9	9	15	15	16	18	23	23	28	28	28	28	28	32	36
Recommended rotation speed	rpm	100	100	100	100	100	90	90	80	85	75	75	70	65	65	55	50
Recommended oil flow	gal/min	4-7	7-11	7-11	14-22	14-22	24-32	24-32	32-40	40-51	53-74	66-85	66-85	80-104	80-104	93-119	185-250
Max. oil flow	gal/min	11	16	16	24	24	34	34	45	55	79	92	95	106	106	132	264
Max. operating hydraulic pressure	psi (bar)	5,800 (400)	5,800 (400)	5,800 (400)	5,800 (400)	5,800 (400)	5,800 (400)	5,800 (400)	5,800 (400)	5,800 (400)	5,800 (400)	5,800 (400)	5,800 (400)	5,800 (400)	5,800 (400)	5,800 (400)	5,800 (400)
Torque at 5,500 psi (380 bar)	lbf∙ft	740	1,500	1,500	3,400	3,400	4,700	4,700	8,400	11,300	14,900	18,800	22,400	26,900	26,900	37,700	87,500
Cutting force at 5,500 psi (380 bar)	lbf	2,000	4,000	3,750	5,500	5,500	7,100	6,295	8,900	11,900	13,400	16,800	20,100	24,100	24,100	28,500	58,000
Weight	lb	340	340	370	640	750	1,000	1,170	1,970	2,300	4,410 [3,925]	4,410 [3,925]	4,410 [3,925]	5,600	6,175	7,800	13,300
Pick box	Туре	PH 14	PH14	PH 14	PH 20	PH 20	PH 20	PH 22	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
Number of picks	Pcs	44	44	56	44	64	44	44	44	44	56 [44]	56 [44]	56 [44]	56	64	64	68
Standard pick	Туре	0	0	0	2	2	2	B	4	4	4	4	5	5	5	6	6



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.

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





Housing with hydraulic hose protection.

Water jets for dust suppression (optional).





Drums supported on heavy-duty bearings

Protected hose management

Works underwater without need for modifications



Tool pattern for optimum performance.



Further application examples on

ww.kemroc.co



Rotary drum cutters with direct drive



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 stabilization 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	кво 70	KRD 100	KRD 120	KRD 150	KRD 165
Recommended excavator weight	lb	1.1K-4.4K	4.4K-8.8K	11K-18K	20K-35K	38K-55K	44K-88K	55K-88K	66K-88K	77K-110K
Rated power	hp (kW)	20 (15)	24 (18)	40 (30)	60 (45)	94 (70)	148 (110)	160 (120)	160 (120)	214 (160)
Drum cutter length (A)	in	20	20	25	27	38	42	42	42	42
Cutter head width (B)	in	20	20	26	29	37	40	40	40	50
Cutter drum diameter (C)	in	12	12	15	18	24	29	29	29	29
Recommended rotation speed	rpm	100	100	100	90	75	75	70	65	60
Recommended oil flow	gal/min	4-7	7–11	14-21	24-32	40-53	58-80	66-88	74–93	80-104
Max. oil flow	gal/min	11	16	24	34	60	92	92	92	105
Max. operating hydraulic pressure	psi (bar)	5,800 (400)	5,800 (400)	5,800 (400)	5,800 (400)	5,800 (400)	5,800 (400)	5,800 (400)	5,800 (400)	5,800 (400)
Torque at 5,500 psi (380 bar)	lbf·ft	700	1,840	3,250	5,560	12,020	14,890	18,730	22,340	31,710
Cutting force at 5,500 psi (380 bar)	lbf	1,420	3,750	5,360	7,580	11,975	12,440	15,640	18,660	26,850
Weight	lb	298	298	552	840	1,875	3,310	3,310	3,310	4,455
Pick box	Туре	PH 14	PH14	PH 20	PH 22	PH 32 HD	PH 32 HD	PH 32 HD	PH 32 HD	PH 32 HD
Number of picks	Pcs	66	66	56	46	40	48	48	48	58
Standard pick	Туре	0	0	2	3	4	4	4	4	5





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 100 feet underwater without need for modifications



APPLICATIONS

Demolition using long arm excavators Ground stabilization Renovating concrete

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







Further application examples on

www.kemroc.com

KRC RANGE

Bullhead cutters with full-face coverage for narrow trenches



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

KRC

KRC

KRC

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

KRC

BULL	
HEAD	

		60	100		140	150
Recommended excavator weight	lb	26K-37K	40K-66K	44K-71K	55K-88K	77K-110K
Rated power	hp (kW)	80 (60)	134 (100)	148 (110)	187 (140)	200 (150)
Drum cutter length (A)	in	47	55	55	60	60
Cutting width (B)	in	24	32	32	35	35
Average cutter head diameter (C)	in	21	26	26	28	28
Recommended rotation speed	rpm	85	75	70	65	65
Recommended oil flow	gal/min	32-45	48-63	55-69	66-85	74-87
Max. oil flow	gal/min	58	69	79	100	100
Max. operating hydraulic pressure	psi (bar)	5,800 (400)	5,800 (400)	5,800 (400)	5,800 (400)	5,800 (400)
Torque at 5,500 psi (380 bar)	lbf·ft	6,640	11,800	14,750	18,730	22,350
Cutting force at 5,500 psi (380 bar)	lbf	7,420	11,060	13,830	16,320	19,470
Max. uniaxial compressive strength	psi (MPa)	7,300 (50)	12,000 (80)	12,000 (80)	15,000 (100)	15,000 (100)
Weight	lb	1,870	3,200	3,200	4,300	4,300
Pickbox	Туре	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	Туре	0	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 stabilization



APPLICATIONS Trenching and pipeline work Soil stabilization



Further application examples on

ww.kemroc.com







Protected hose management

Operational to 100 feet underwater without need for modifications





Cutter wheels in the DMW range were designed in cooperation with customers for attachment to hydraulic excavators. Two high torque, lateral hydraulic motors garuantee high production rates and maximum cutting forces. As a result, even in hard rock with a uniaxial compressive strength of 20,000 psi as well as reenforced concrete, very high productivy rates can be achieved. KEMROC produces these robust attachments in four sizes for excavators from 30,000 to 264,000 lb.

DWM 550 Bridge demolition using the Cut & Break process

DMW RANGE

Cutter wheels with double motor for rock up to 20,000 psi

🛋 30,000-264,000 ю

To meet the demands of many applications, KEMROC have developed cutter wheel variations for cutting depths to 40 inches. A choice of wheels with different tooling configurations and a range of widths up to 16 inches are available. Wheels with nonstandard width and cutting depth are available on demand.

The DMW range is designed to work under water to depths of 100 feet, making the cutter wheels ideal for trenching and underwater demolition projects.



DMW RANGE

Cutter wheels with double motor for rock up to 20,000 psi

┿ 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

		DMW		DMW			DMW			DMW
		90		130			220			400
		Wheel 400	Wheel 600	Wheel 400	Wheel 600	Wheel 800	Wheel 600	Wheel 800	Wheel 1000	Wheel 1000
Recommended excavator weight	lb	30K–55K	30K–55K	44K-88K	44K-88K	55K-88K	88,000-132,000	88,000-132,000	100,000-132,000	110,000 - 154,000 [1] 154,000 - 264,000
Rated power	hp(kW)	120 (90)	120 (90)	175 (130)	175 (130)	175 (130)	295 (220)	295 (220)	295 (220)	536 (400)
Cutting width (A)	in	3 5 8	3 5 8	3 5 8	3 5 8	3 5 8	5 8 16	5 8 16	5 8 16	5 8 16
Cutting depth (B)	in	16	24	16	24	32	22	30	40	40
Cutter wheel diameter	in	48	64	48	64	80	64	80	100	106
Recommended rotation speed	rpm	60	50	60	50	40	45	35	30	25
Recommended oil flow	gal/min	40-50	32-45	74-90	66-90	53-80	120-160	100-160	92-160	160-240
Max. oil flow	gal/min	53	53	90	90	90	185	185	185	264
Max. operating hydraulic pressure	psi (bar)	5,800 (400)	5,800 (400)	5,800 (400)	5,800 (400)	5,800 (400)	5,800 (400)	5,800 (400)	5,800 (400)	5,800 (400)
Torque at 5,500 psi (380 bar)	lbf·ft	11,125	11,125	22,303	22,303	22,303	48,175	48,175	48,175	105,272
Cutting force at 5,500 psi (380 bar)	lbf	5,600	4,200	11,240	8,450	6,770	18,230	14,610	11,420	23,760
Max. uniaxial compressive strength	psi (MPa)	8,700 (60)	5,800 (40)	15,000 (100)	12,000 (80)	8,700 (60)	17,000 (120)	17,000 (120)	15,000 (100)	20,000 (140)
Weight of drive unit, approx.	lb	2,430	2,430	2,540	2,540	2,540	6,060	6,060	6,060	12,130
Weight of cutter wheel, approx. ^[2]	lb	880	1,760	880	1,760	2,760	1,760	2,760	4,960	7,280
Weight of dipping device, approx.	lb	550	550	660	660	660	2,030	2,030	2,030	3,200
Weight of protection cover, approx.	lb	120	120	120	120	120	400	400	400	550
Total weight, approx.	lb	3,980	4,860	4,200	5,080	6,080	10,250	11,250	13,450	23,160
Pick box ^[3]	Туре	PH 32 HD	PH 32 HD	PH 32 HD	PH 32 HD	PH 32 HD	PH 32 HD	PH 32 HD	PH 32 HD	PH 38 HD
Standard pick ^[3]	Туре	0	0	0	0	0	2	2	2	3



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, 3 inches 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 Tunneling Soft rock mining



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





Operational to 100 feet underwater

Ideally suited for concrete demolition





Further application examples on

KEMROC SPECIAL ROCK CUTTERS





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 stabilization.

When used with a drilling attachment, the Powertool drive can drill shallow holes up to 59 inches 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 8,700 psi.

KRX 120 Working bored pile heads



KRX RANGE

Powertool drives with attachments for milling, drilling and mixing

Multifunctional and versatile thanks to a large selection of attachments

Quick interchangeability of attachments

RIVE				KRX 30	квх 45	квх 65	квх 70	квх 110	квх 120	квх 130	квх 140
		Recommended excavator weight	lb	11K-18K	20K-26K	28K-44K	33K-55K	44K-77K	55K-88K	55K-88K	66K-110K
		Rated power	hp (kW)	40 (30)	60 (45)	87 (65)	94 (70)	148 (110)	160 (120)	160 (120)	187 (140)
		Length of drive unit	in	22	24	24	33	33	33	33	35
9		Torque at 5,500 psi (380 bar)	lbf·ft	3,320	5,532	8,335	11,800	18,735	22,348	24,340	26,848
9 ° ° ° ° °		Max. oil flow at 150 psi (10 bar)	gal/min	29	34	50	79	84	92	92	103
-		Max. hydraulic pressure	psi (bar)	5,800 (400)	5,800 (400)	5,800 (400)	5,800 (400)	5,800 (400)	5,800 (400)	5,800 (400)	5,800 (400)
		Weight without attachment	lb	355	530	575	1,150	1,190	1,190	1,190	1,985
6		Hex connection, standard	in	3¼	3¼	3¼	6¼	6¼	6¼	6¼	6¼
LLING ATTA	CHMENT	Milling attachment (optional)									
-		Length of standard cutter head	in	14	14	14	16	17	17	17	18
		Diameter of standard cutter head	in	15	16	16	18	20	20	20	22
1.5	To Bo	Cutting force at 5,500 psi (380 bar)	lbf	5,469	8,430	12,700	15,986	22,840	27,246	29,675	29,757
The W		Recommended rotation speed	rpm	80	70	70	75	70	60	60	50
	A States -	Recommended oil flow	gal/min	13-18	21-29	31-44	34-50	47 – 79	52-89	60-89	73–97
er head with	Cutter head	Pick box	Туре	PH 22	PH 22	PH 22	PH 22	PH 32 HD	PH 32 HD	PH 32 HD	PH 32 HD
nd attack or	with spiral	Number of picks	Pcs	26	29	29	30	26	26	26	30
gon tooth picks	extension	Standard pick (round shaft)	Туре	0	0	0	0	B	B	3	5
		Standard pick (dragon tooth)	Туре	2	2	2	2	4	4	4	4
	ACHMENT	Drilling attachment (optional)									
		Max. drill diameter	in	24	32	39	39	47	51	51	59
		Min. drill diameter	in	11	11	11	11	11	11	11	11
		Max. drilling depth at max. drill diameter	in	60	60	80	80	120	160	160	160
		Max. drilling depth at min. drill diameter	in	100	120	160	280	280	280	280	320
		Max. uniaxial compressive strength of the ground	psi (MPa)	1,500 (10)	2,900 (20)	2,900 (20)	4,400 (30)	5,800 (40)	7,300 (50)	7,300 (50)	8,700 (60)
	Drilling auger with pilot bit	Recommended oil flow	gal/min	8-18	10-26	21-59	26-50	39–66	47–79	50-79	58-92
		 ER 12/45/38/22 HC DT 22/46/38/22 HC For an overview of standard picks, 	B ER 17/75/70, DT 22/90/70, see pages 45 to	/30 Q /30 HQ 0 47. Dependin	5 ER 19/75 g on applicatio	5/70/30 Q n, cutter heads		+ High to	rque radial pisto	on motors	
		can be supplied with a choice of pi	ck according to	o the type of pi	ck box used.			Неруги	duty long lacting	hearings	

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

27

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







Further application examples on







Patch planers for milling asphalt and concrete with accurate depth control



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 7.5 inches.

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 tunneling

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.

EX EX EX 20 **20HD 30**HD

Recommended excavator weight	lh	2 200 - 6 600	4 400 - 8 800	11 000 - 22 000	22 000 - 35 000	33 000 - 50 000
	LU h::: (L)(L)	2,200-0,000	4,400-0,000	11,000-22,000	22,000-33,000	100(00)
kated power	пр (кw)	30 (22)	30 (22)	40 (30)	88 (65)	108 (80)
Cutting width, standard (A)	in	8	8	12	18	24
Cutting depth, adjustable (B)	in	0-3	0-3	0-5	0-6	0-8
Recommended rotation speed	rpm	80-200	80-200	80-125	70-110	70–95
Recommended oil flow at 1,500 psi (100 bar)	gal/min	6-13	7-17	16-25	29-44	40-52
Min. oil flow	gal/min	6	7	16	27	40
Max. oil flow	gal/min	19	24	30	48	56
Max. operating hydraulic pressure	psi (bar)	4,350 (310)	4,350 (310)	5,500 (380)	5,500 (380)	5,500 (380)
Torque at 5,000 psi (350 bar)	lbf·ft	500 @ 3,000 psi	740 @ 3,000 psi	3,100	6,500	6,900
Cutting force at 5,000 psi (350 bar)	lbf	900 @ 3,000 psi	1,350 @ 3,000 psi	3,600	6,750	6,300
Operating weight	lb	165	170	400	730	1,230
Pick box	Туре	PH 14	PH 14	PH 20	PH 20	PH 20
Number of picks	Pcs	42	42	35	49	69
Standard pick	Туре	0	0	2	2	8
EX BANGE		EXR	EXR	EXR	EXR	EXR
WITH ROTATION UNIT		20	20 HD	30 HD	45 HD	60 HD
Recommended excavator weight	lb	2,200-6,600	4,400-8,800	13,000-22,000	26,000-35,000	35,000 - 50,000
Operating weight	lb	560	570	1,290	2,230	3,750

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 49 to 51. Depending on application, cutter drums can be supplied with a choice of pick according to the type of pick box used.



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 **60**HD

29



Cutter heads for asphalt, concrete and rock



The ES range of cutter heads are ideally suited for accurate profiling

of horizontal or vertical surfaces.

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.

Whether for surface cleaning,

ES cutter heads are available for excavators with 2,200 to 88,000 lb 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 availabe as an option

		ES 20	ES 20HD	es 30 HD	es 45 HD	ES 60HD	es 80 HD	еs 110 но
Recommended excavator weight	lb	2,200-6,600	4,400-8,800	11,000-22,000	22,000-33,000	33,000 - 50,000	33,000 - 55,000	55,000-88,000
Rated power	hp (kW)	30 (22)	30 (22)	40 (30)	87 (65)	107 (80)	107 (80)	148 (110)
Diameter of cutter drum (A)	in	14	14	20	23	26	32	31
Width of cutter drum (B)	in	8	8	12	18	24	24 32	24 32 39
Cutting depth	in	3	3	4	4	7	6	4 6
Min. oil flow	gal/min	6	7	16	27	40	40	56
Max. oil flow	gal/min	18	23	29	47	55	55	92
Max. hydraulic pressure	psi (bar)	4,350 (310)	4,350 (310)	5,500 (380)	5,500 (380)	5,500 (380)	5,500 (380)	5,500 (380)
Torque at 5,000 psi (350 bar)	lbf·ft	840	1,300	3,100	6,500	8,700	11,300	20,600
Pick box	Туре	PH14	PH14	PH 20	PH 20	PH 20	PH 32 HD	PH 32 HD
Number of picks	Pcs	42	42	35	49	69	69 (32 in)	44 (24 in)

2

2



Standard pick

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

1

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.

2



4

3







Туре

1

APPLICATIONS

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

Further application examples on



Injection attachments for permeating cohesive soils with a cement suspension



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 stabilization using an excavator attachment to inject and mix a defined concrete suspension in nonload bearing soils (KSI) that, when left to harden, create a homogenous, impermeable and frost resistant soilcement 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 77,000 and 264,000 lb 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 16, 19 or 22 ft, while the larger KSI 12000 model can take blades for mixing depths of 19, 26, 32 or 39 ft. 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.



Recommended excavator weight	lb	77,000-120,000	110,000-176,000 ^[1] 176,000-264,000
Rated hydraulic power	hp (kW)	175 (130)	295 (220)
Mixing width (A)	in	13-19	17-23
Width of gearbox (B)	in	39	53
Modular mixing depth (C)	ft	16 19 22	19 26 32 39
Recommended chain speed	ft/s	6-8	6-8
Recommended oil flow at 2,200 psi (150 bar)	gal/min	79-105	145-185
Max. oil flow	gal/min	105	185
Max. operating hydraulic pressure	psi (bar)	5,800 (400)	5,800 (400)
Max. permissible ground compressive strength	psi (MPa)	1,500 (10)	1,500 (10)
Standard mixing tool	Туре	DT 22/46/38/22 HC	DT 22/90/70/30 HQ
Weight			
Weight of attachment built for max. mixing depth	lb	9,900	27,500
Weigth per meter for extension	lb	770	1,500

^[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.



APPLICATIONS

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

Flood defences – sealing walls, dam stabilization, diaphragm walls

De-contamination

Retaining walls – building construction, civil engineering, pipelines

Foundations

Railway construction







Mixing blade extendable to 39 feet

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	KSI
7000	12000





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







Further application examples on



Recommended excavator weight

Max. drilling depth at max. drill diameter Max. drilling depth at min. drill diameter

Max. drill diameter Min. drill diameter

Diameter of drive unit (A) Length of drive unit (B)

Recommended oil flow

Max. rotation speed Auger connection

mounting plate

Max. operating hydraulic pressure

Weight excl. hydraulic hoses and

Max. torque

Max. oil flow



Auger drive attachments for excavators and backhoe loaders



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.

soils, cobbles and in soft rock with compressive strengths up to 7,250 psi.

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

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

	500	1000	2300	2800	3300
lb	15,500-28,000	30,000-37,000	40,000-77,000	55,000-88,000	55,000-88,000
in	32	40	48	60	60
in	8	8	12	12	12
in	79	118	158	158	158
in	197	197	315	315	315
in	16	16	20	20	20
in	24	24	39	39	39
lbf∙ft	3,900	7,700	17,300	20,700	25,900
gal/min	13-18	21-39	39-66	47-74	47-74
gal/min	22	39	79	79	79
psi (bar)	5,500 (380)	5,500 (380)	5,500 (380)	5,500 (380)	5,500 (380)
rpm	90	80	75	75	75
Туре	H 80				
lb	353	397	794	794	794



Allignment monitor



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.

Short and heavy duty construction Robust and rigid bracket Direct drive without planetary gears Robust hexagonal shaft connector







Allignment monitor to garuantee vertical drilling



Wear resistant augers

Auger drives for tough applications

KTR RANGE

Trenching attachments for medium hard rock



The KTR range of trenchers can produce trenches with perfect profiles in widths from 7 to 18 inches to a maximum depth of 71 inches. Chose from a range of cutting chain widths, each fitted with wear resistant picks.

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

KTR



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

KTR

130 65 Recommended excavator weight lb 40,000-55,000 55,000-77,000 175 (130) Rated power hp (kW) 87 (65) Cutting width, standard (A) in 7-14 8-18 40-60 Cutting depth (B) 40-71 in Recommended oil flow at 2,200 psi (150 bar) 45-53 66-93 gal/min Max. oil flow gal/min 52 93 Max. uniaxial compressive strength psi (MPa) 7,300 (50) 8,700 (60) Weight lb 6,000 6,650 Pick box PH 22 PH 22 Туре Standard pick ER 12/45/38/22 HC ER 12/45/38/22 HC Туре

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.



Trenching and pipeline work

36





Further application examples on



Driven by two high torque

hydraulic motors to obtain maximum cutting force

sumping aid

high operating life

Housing with spoil discharger and

Maintenance free cutter chain with

Adjustable length cutter chain





37





KDS RANGE

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



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
- turbines)
- + Wood, plastics, foil and aluminium

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





Recommended excavator weight	lb	4,400-8,800	11,000-22,000	22,000-35,000	33,000 - 55,000	40,000-66,000
Rated power	hp (kW)	74 (55)	107 (80)	174 (130)	181 (135)	208 (230)
Max. saw blade diameter (A)	in	32	47	59	59	71
Max. torque at 5,000 psi (350 bar)	lbf·ft	104	230	445	535	1,130
Max. rotation speed	rpm	1,200	2,000	2,000	2,000	1,700
Max. oil flow	gal/min	10	30	47	68	124
Max. operating hydraulic pressure	psi (bar)	5,000 (350)	5,000 (350)	5,000 (350)	5,000 (350)	5,000 (350)
Weight of drive unit excl. saw blade and protective cover	lb	220	465	685	1,590	1,875



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





+ Asphalt and plastics (as e.g. wind

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





Further application examples on

w.kemroc.com



KRM RANGE

Rotation units with endless rotation



🛋 4,400–154,000 њ

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 tunneling. **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

		квм 20	KRM 30	KRM 35	KRM	KRM 50	KRM 60	KRM 70	KRM 80
Recommended excavator weight	lb	4,400-13,000	11,000-24,000	15,500-33,000	26,000-40,000	42,000-60,000	55,000-88,000	66,000-110,000	110,000-154,000
Diameter (A)	in	9	13	13	18	19	24	28	36
Height (B)	in	13	15	15	21	16	25	25	32
Length (C)	in	20	24	26	30	28	31	36	46
Width (D)	in	14	19	24	24	28	31	32	40
Max. oil flow at 150 psi (10 bar)	gal/min	10	10	10	10	10	10	10	10
Max. holding torque	lbf·ft	4,500	6,700	13,300	32,960	70,000	147,512	199,141	258,146
Weight	lb	330	610	710	970	1,540	1,980	2,200	4,410
Number of drive motors	Pcs	1	1	2	2	2	2	2	2
Recommended KEMROC attachments									
EK Chain Cutters	Туре		EK 20	EK 40	EK 60		EK100 110	EK140 150	EK 220
EKT Rotary Drum Cutters	Туре		EKT 20	EKT 40	EKT 60		EKT100 110 140 150	EKT 160	EKT 220
KR Rotary Drum Cutters	Туре		KR18	KR 30	KR 45 65	KR 80	KR120 150	KR165	KR 200
KRD Rotary Drum Cutters	Туре		KRD 18	KRD 30	KRD 45	KRD 70	KRD 100 120 150	KRD 165	
KRC Bullhead Cutters	Туре				KRC 60		KRC100 110 140 150		
DMW Cutter Wheels	Туре					DMW 90	DMW 130		DMW 220
EX Surface Milling Attachments	Туре	EX 20	EX 30 45 60						
ES Cutter Heads	Туре	ES 20	ES 30		ES 45	ES 60 80	ES 110		
KTR Trenching Attachments	Туре					KTR 65	KTR130		
KDS Diamond Saw Attachments	Туре	KDS 20	KDS 30 40	KDS 50 50 HD					





APPLICATIONS

Trenching and pipeline work Tunneling Demolition and renovation Profiling

KRM 50 | Trenching and pipeline work





Further application examples on

/ww.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 tunneling, 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



Picks with matching retainers





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 grove 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.

PH 20



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

Application Concrete, soft to medium hard rock Part No. 12453821



Application Asphalt

Part No. 19483620



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





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

Concrete, medium hard and abrasive rock Part No. 12453823





Application

Round attack pick ER 15/46/38/22 C Application Concrete, medium hard

rock Part No. 15463822



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

Application Asphalt, soft and abrasive Part No. 19514522

> QuickSnap QS 25 Part No. 99250025

PH

25

Round attack pick

ER 17/64/60/25 Q

Concrete, medium hard

Application

Part No. 17646026

Round attack pick

ER 17/64/60/25 C

Part No. 17646025

Concrete, medium hard

Application

rock

rock



Part No. 22463822

 \bigcirc Retaining clip ES 22 Part No. 99999996

> Retaining clip ES 25 Part No. 99999994



rock

Application Concrete, medium hard

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



DT 22/58/46/25 K Application Soft and abrasive ground and rock, wood

Part No. 22465825



30|30н0|32н0

PH

Part No. 17757036

QuickSnap^[1] QS 30 Part No. 99500030

QuickSnap^[1]

Concrete, medium hard

Round attack pick

ER 19/75/70/30 Q

Application

Part No. 19757035

rock

QS 30 Part No. 99500030

NEW: Triple-plane milling teeth For better rotation in soft rock





Round attack pick

Round attack pick ER 17/75/70/30 HD TP Q Application Soft and medium hard rock

Application Soft and medium hard rock

QuickSnap^[1]

QS 30 Part No. 99500030

Part No. 17757037

Part No. 19757036 QuickSnap^[1] QS 30

Part No. 99500030

 $\mathbf{ }$

Retaining clip

Part No. 99500032

ES 30

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



6 QuickSnap^[1] QS 30 Part No. 99500030

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

Application

hard rock

Part No. 22757032

QuickSnap^[1]

Part No. 99500030

QS 30

 \bigcirc

Concrete, medium hard to



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

Only suitable for **PH 32 HD**



Dragontooth pick DT 22/90/70/30 HQ

Application Soft and abrasive rock, wood Part No. 22907030

QuickSnap^[1] QS 30

Part No. 99500030

PH **38 HD**



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

KEMROC SPECIAL ROCK CUTTERS





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.

Standard pick box without wear sleeve



Pick box with wear resistant, exchangeable wear sleeve



Part No. 721025UA

Pick box

Part No. 721024E

PH 20



PH 25 Part No. 761025UA

Pick box

Pick box

PH 15

Part No. 791004E

Part No. 711222

PH 14



Pick box PH 30 Part No. 711610

Pick box

PH 30 HD Part No. 711084





PH 32 HD Part No. 711039





Pick box **PH 38 HD** Part No. 753022



Replacement wear sleeve Part No. 753021

Diamond saw blades for models in the KDS range



Diamond saw blades for natural stone, granite, concrete and reinforced concrete Diameter 32 in Diameter 39 in Diameter 47 in Diameter 55 in Diameter 59 in Diameter 63 in



Diameter 71 in

Diamond saw blades for asphalt and plastics (as e.g. wind turbines) Diameter 32 in Diameter 39 in Diameter 47 in Diameter 55 in Diameter 59 in

Diameter 63 in Diameter 71 in



Carbide tipped saw blades for wood, plastics, foil and aluminium Diameter 16 in Diameter 24 in Diameter 36 in Diameter 40 in Diameter 44 in



picks

Knock-out tool

Part No. 99 99 99 95

For picks with shaft

diameter 20-30 mm

as for all dragontooth

Puller tool for picks with retaining sleeves

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





Mounting and dismantling tools



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



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



NOTES







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revolution of cutting