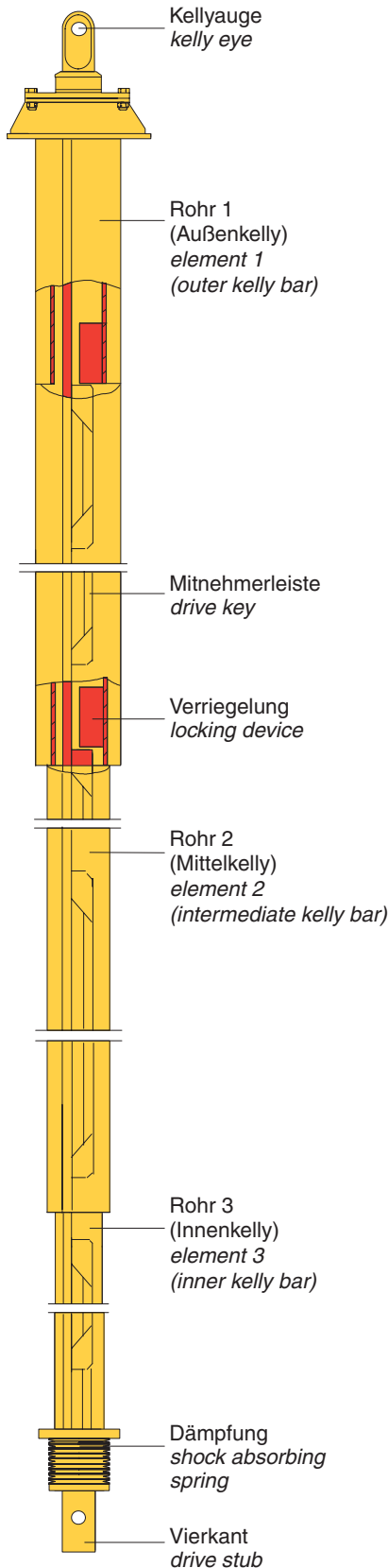


Kellystangen

Kelly Bars

3/2009





Kellystangen sind Schlüsselemente für die Herstellung von Bohrungen mit hydraulischen Drehbohrgeräten. Sie übertragen das Drehmoment des Drehgetriebes und die Vorschubkraft des Vorschubsystems gleichzeitig auf das Bohrwerkzeug. Eine Kellystange besteht aus 2 – 5 teleskopierbaren Rohren mit einem angeschweißten Leistensystem. Standardkellies werden mit 6 Mitnehmerleisten hergestellt. Die Kellyrohre werden aus hochfestem Stahl gefertigt um eine Minimierung der Gewichte bei ausreichender Festigkeit zu gewährleisten.

Kelly bars are key components in the execution of boreholes by hydraulic rotary drilling rigs. They transfer the torque of the rotary drive and the crowd pressure of the crowd system concurrently to the drilling tool. A kelly bar consists of 2 – 5 telescopic tubular sections with a system of drive keys and lock recesses, welded onto their outer surfaces. Standard kelly bars are fabricated with a total of 6 drive keys on each section. The tubular kelly sections are manufactured from high-tensile steel to ensure minimum weight at adequate strength.

Verriegelungssystem

Locking system

Alle Kellystangen werden standardmäßig als verriegelbare Kelly gefertigt. Dabei sind alle Einzelstangen untereinander und im Drehantrieb verriegelbar.

4-fach Kellystangen können auf Wunsch als nichtverriegelbare Reibkellies geliefert werden.

Standard kelly bars are delivered as fully lockable system with a mechanical locking mechanism between each element and between outer bar and rotary drive.

4-element kelly bars can be supplied as non-lockable friction kellys (as option).



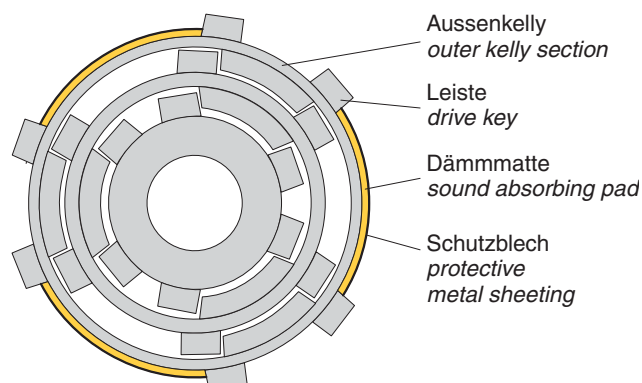
Schalldämmung

Noise damping system

Alle Kellystangen können wahlweise mit einer Schalldämmung geliefert werden. Dabei wird eine Schallabsorptionsmatte zwischen den Leisten am Außenrohr montiert und durch eine Blechabdeckung gegen mechanische Beschädigung geschützt. Das System reduziert hauptsächlich die störenden, hochfrequenten Schallemissionen, die vor allem bei allen ruckartigen Bewegungen der Kellystange entstehen und durch die Hohlquerschnitte der Kellystangen verstärkt werden. Das Schalldämmungssystem kann auch nachträglich an bestehende Kellystangen angebaut werden.

All kelly bars can optionally be supplied with a sound damping system. It consists of sound absorbing pads which are glued into the recesses between the drive keys on the outer surface of the outer kelly section. The pads are protected against mechanical damage by metal sheeting. The system mainly reduces disturbing high-frequency sound emissions that are generated primarily by jerky kelly movements and amplified by the hollow kelly sections.

The sound damping system can also be fitted retrospectively to existing kelly bars.



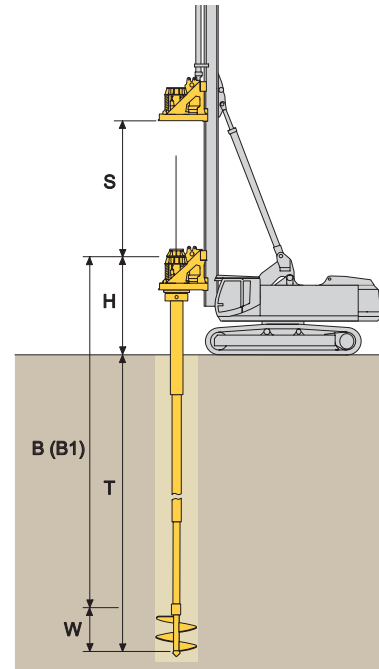
Bohrtiefenermittlung

Calculation of drilling depth

- S** Hub Vorschubsystem
stroke of crowd system
- H** Höhe KDK über Gelände
height of rotary drive above ground level
- W** Werkzeuglänge
height of tool
- B** Kellylänge ausgefahren, unverriegelt
length of kelly bar fully extended, unlocked
- B1** Kellylänge ausgefahren, verriegelt
length of kelly bar fully extended, locked
- T** Bohrtiefe
drilling depth

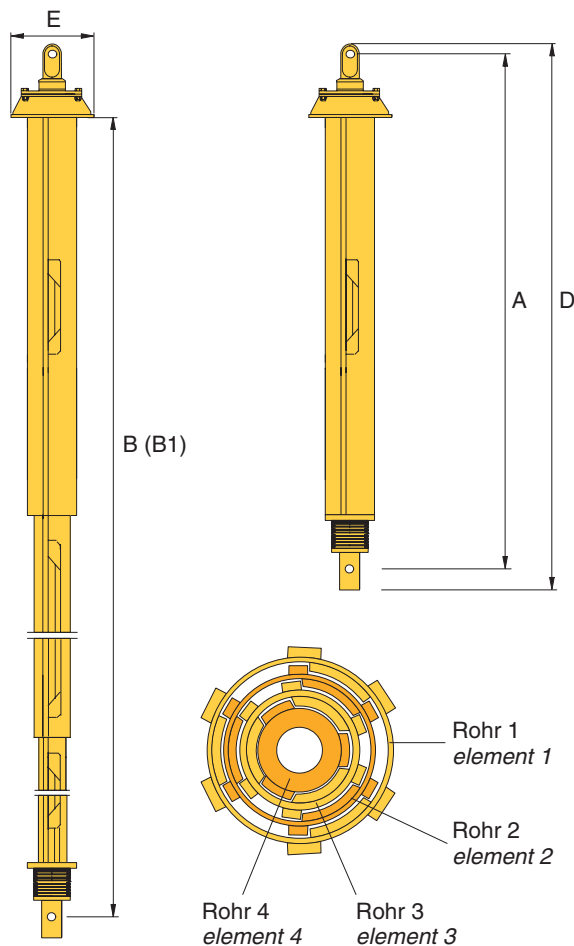
$$T = B + W - H \quad \text{max. Tiefe unverriegelt} \\ \text{max. depth unlocked kelly bar}$$

$$T = B1 + W - H \quad \text{max. Tiefe verriegelt} \\ \text{max. depth, locked kelly bar}$$



Definitionen Kellyabmessungen und Kellybezeichnungen

Definitions of kelly bar dimensions and kelly type classifications



BK 25 / 394 / 3 / xx

Kellytyp
Kelly type

nominale Bohrtiefe
Nominal drilling depth

Anzahl der Einzelstangen
No of kelly bar sections

Durchmesser Außenrohr
Diameter outer pipe

Bemerkungen:

- Der Kellymitnehmer am Kraftdrehkopf ist auf den Kellystangentyp abzustimmen.
- Kellygewichte können bis zu +/- 10% von den angegebenen Werten abweichen.
- Maximale Kellylänge und Bohrtiefe ist abhängig vom Gerätetyp, der Windenzugkraft und der Werkzeuglänge.
- Sonderlängen, andere Vierkante und Kellystangen für ältere BG-Geräte auf Anfrage.

Remarks:

- Compatibility of kelly drive adapter at the rotary drive has to be observed.
- Weight tolerance +/- 10%
- Maximum length of kelly bar and drilling depth is subject to type of drilling rig, capacity of winch and type of drilling tool.
- Other lengths, other kelly stub dimensions or Kelly bars for older BG rigs are available on request.

- A** eingefahrene Länge / retracted length
- B** ausgefahrene Länge / extended length
- B1** ausgefahrene Länge (verriegelt) / extended length (locked)
- D** Transporthöhe / transport length
- E** Transporthdurchmesser (max) / transport diameter (max)

Übersicht Kellystangen

Overview kelly bars

	BK 12	BK 12	BK 15	BK 20	BK 25	BK 28	BK 40	BK 48
Außenrohr Ø (mm) Dia outer kelly (mm)	305	305	343	368	394	419	470	559
Anzahl Kelly-Elemente No of elements	3	4	3/4	3/4	3/4	3/4	3/4	3/4
Mitnehmerart Drive adapter	III	III	II	I	I	I	I	I
KDK 125	● H	□ H						
KDK 150			● G	■ A				
KDK 180			□ G	● A				
KDK 200			□ G	● A				
KDK 235					● B	■ C		
KDK 275					□ B	● C		
KDK 367							● D	
KDK 390							● D	
KDK 480								● E

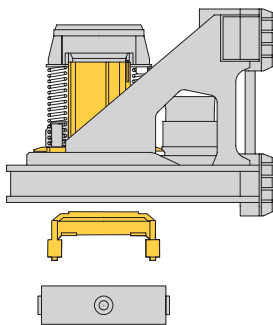
Legende / legend

- Standardkelly / standard kelly bar
- uneingeschränkter Einsatz / non-restricted use
- Einsatz mit begrenztem Drehmoment / to be used with reduced torque only
- A – H Kennbuchstaben für Kellyausrüstung / identification letters for kelly key system

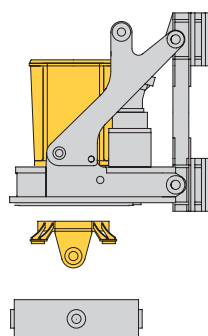
Kellymitnehmer

Kelly drive adapter

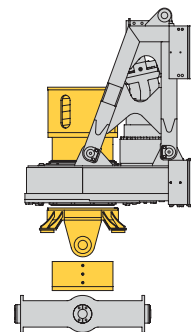
System I



System II



System III



Kellyausrüstung am KDK

Kelly key system on rotary drive

ID No	Typ/Type	ID No	Typ/Type	ID No	Typ/Type
A 279 459	KA 420/368	G 368 258	KA 420/343	H 406 310	KA 360/305
B 419 990	KA 500/394				
C 420 033	KA 500/419				
D 276 739	KA 800/470				
E 392 758	KA 900/559				

KA 420/368

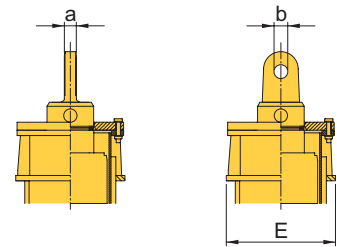
Außenrohr Kelly
outer pipe kelly bar

Hohlwelle
hollow stem

KA für BG
KA for BG

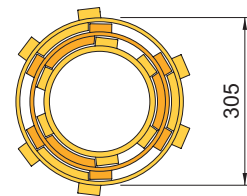
BK 12/305

Kellyvierkant / kelly drive stub	200 mm
Transportbreite / Width for transport	E = 410 mm
Kellyauge / Kelly eye	a = 42 mm b = 60/51 mm



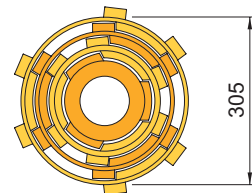
BK 12/305/3

	A (mm)	B (mm)	B1 (mm)	D (mm)	Gewicht Weight (kg)
BK 12/305/3/12	5.750	13.089	11.865	5.900	1.850
BK 12/305/3/15	6.750	16.089	14.867	6.900	2.210
BK 12/305/3/18	7.750	19.089	17.865	7.900	2.570
BK 12/305/3/21	8.750	22.089	20.865	8.900	2.930
BK 12/305/3/24	9.750	25.089	23.865	9.900	3.290



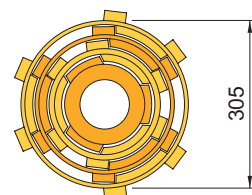
BK 12/305/4

	A (mm)	B (mm)	B1 (mm)	D (mm)	Gewicht Weight (kg)
BK 12/305/4/20	6.545	20.835	20.194	6.680	2.200
BK 12/305/4/24	7.545	24.835	24.194	7.680	2.520
BK 12/305/4/28	8.545	28.835	28.194	8.680	2.840
BK 12/305/4/32	9.545	32.835	32.194	9.680	3.160
BK 12/305/4/36	10.545	36.835	36.194	10.680	3.480



BK 12/305/4 (Reibkelly / Friction kelly)

	A (mm)	B (mm)	D (mm)	Gewicht Weight (kg)
BK 12/305/4/20	6.545	20.535	6.680	1.950
BK 12/305/4/24	7.545	24.535	7.680	2.250
BK 12/305/4/28	8.545	28.535	8.680	2.550
BK 12/305/4/32	9.545	32.535	9.680	2.850
BK 12/305/4/36	10.545	36.535	10.680	3.150

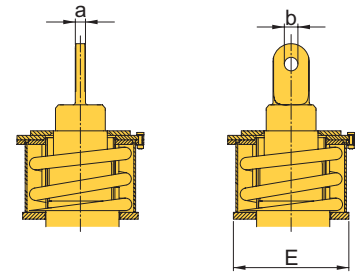


Weitere Längen auf Anfrage

Other lengths on request

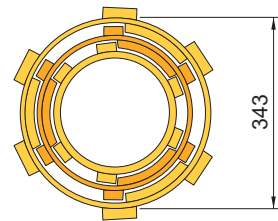
BK 15/343

Kellyvierkant / kelly drive stub	200 mm
Transportbreite / Width for transport	E = 620 mm
Kellyauge / Kelly eye	a = 42 mm b = 60/51 mm



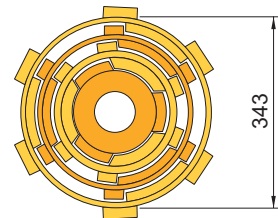
BK 15/343/3

	A (mm)	B (mm)	B1 (mm)	D (mm)	Gewicht Weight (kg)
BK 15/343/3/15	7.300	17.204	16.950	7.480	2.600
BK 15/343/3/18	8.300	20.204	19.950	8.480	2.925
BK 15/343/3/21	9.300	23.204	22.950	9.480	3.250
BK 15/343/3/24	10.300	26.204	25.950	10.480	3.575
BK 15/343/3/27	11.300	29.204	28.950	11.480	3.900



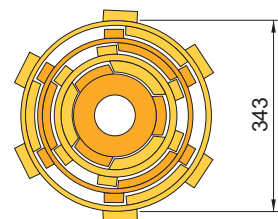
BK 15/343/4

	A (mm)	B (mm)	B1 (mm)	D (mm)	Gewicht Weight (kg)
BK 15/343/4/24	8.160	26.394	26.185	8.325	3.840
BK 15/343/4/32	10.160	34.394	34.185	10.325	4.620
BK 15/343/4/40	12.160	42.394	42.185	12.325	5.400
BK 15/343/4/48	14.160	50.394	50.185	14.325	6.180



BK 15/343/4 (Reibkelly / Friction kelly)

	A (mm)	B (mm)	D (mm)	Gewicht Weight (kg)
BK 15/343/4/24	8.160	26.394	8.325	3.550
BK 15/343/4/32	10.160	34.394	10.325	4.200
BK 15/343/4/40	12.160	42.394	12.325	4.850
BK 15/343/4/48	14.160	50.394	14.325	5.600

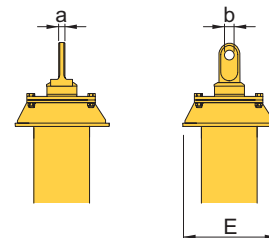


Weitere Längen auf Anfrage

Other lengths on request

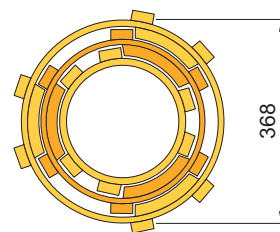
BK 20/368

Kellyvierkant / kelly drive stub	200 mm
Transportbreite / Width for transport	E = 650 mm
Kellyauge / Kelly eye	a = 40 mm b = 60 / 51 mm



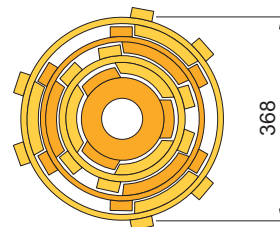
BK 20/368/3

	A (mm)	B (mm)	B1 (mm)	D (mm)	Gewicht Weight (kg)
BK 20/368/3/18	8.400	20.650	20.397	8.550	3.000
BK 20/368/3/21	9.400	23.650	23.397	9.550	3.300
BK 20/368/3/24	10.400	26.650	26.397	10.550	3.600
BK 20/368/3/27	11.400	29.650	29.397	11.550	3.900
BK 20/368/3/30	12.400	32.650	32.397	12.550	4.200
BK 20/368/3/33	13.400	35.650	35.397	13.550	4.500



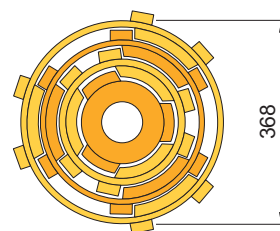
BK 20/368/4

	A (mm)	B (mm)	B1 (mm)	D (mm)	Gewicht Weight (kg)
BK 20/368/4/28	9.400	30.990	30.637	9.576	4.600
BK 20/368/4/32	10.400	34.990	34.637	10.576	5.100
BK 20/368/4/36	11.400	38.990	38.637	11.576	5.600
BK 20/368/4/40	12.400	42.990	42.637	12.576	6.100
BK 20/368/4/48	14.400	50.990	50.637	14.576	7.100
BK 20/368/4/52	15.400	54.990	54.637	15.576	7.600



BK 20/368/4 (Reibkelly / Friction kelly)

	A (mm)	B (mm)	D (mm)	Gewicht Weight (kg)
BK 20/368/4/28	9.400	30.990	9.576	4.250
BK 20/368/4/32	10.400	34.990	10.576	4.700
BK 20/368/4/36	11.400	38.990	11.576	5.150
BK 20/368/4/40	12.400	42.990	12.576	5.600
BK 20/368/4/48	14.400	50.990	14.576	6.500
BK 20/368/4/52	15.400	54.990	15.576	6.950

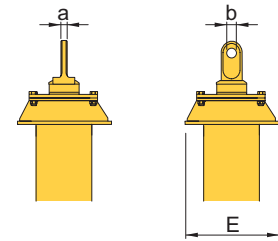


Weitere Längen auf Anfrage

Other lengths on request

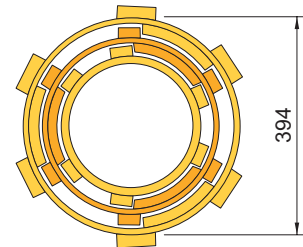
BK 25/394

Kellyvierkant / kelly drive stub	200 mm
Transportbreite / Width for transport	E = 750 mm
Kellyauge / Kelly eye	a = 42 mm b = 60/51 mm



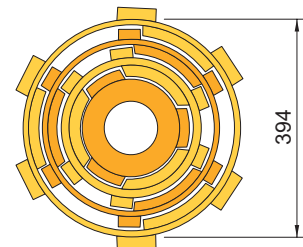
BK 25/394/3

	A (mm)	B (mm)	B1 (mm)	D (mm)	Gewicht Weight (kg)
BK 25/394/3/21	9.715	24.200	23.958	9.895	4.300
BK 25/394/3/24	10.715	27.200	26.958	10.895	4.710
BK 25/394/3/27	11.715	30.200	29.958	11.895	5.120
BK 25/394/3/30	12.715	33.200	32.958	12.895	5.530
BK 25/394/3/36	14.715	39.200	38.958	14.895	6.350



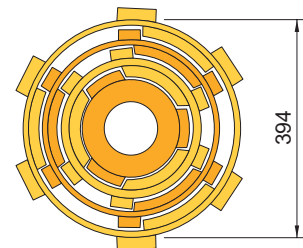
BK 25/394/4

	A (mm)	B (mm)	B1 (mm)	D (mm)	Gewicht Weight (kg)
BK 25/394/4/28	9.715	31.470	31.117	9.895	5.950
BK 25/394/4/32	10.715	35.470	35.117	10.895	6.550
BK 25/394/4/40	12.715	43.470	43.117	12.895	7.650
BK 25/394/4/48	14.715	51.470	51.117	14.895	8.800
BK 25/394/4/56	16.715	59.470	59.117	16.895	10.050
BK 25/394/4/64	18.715	67.470	67.117	18.895	11.250



BK 25/394/4 (Reibkelly / Friction kelly)

	A (mm)	B (mm)	D (mm)	Gewicht Weight (kg)
BK 25/394/4/28	9.715	31.470	9.895	5.550
BK 25/394/4/32	10.715	35.470	10.895	6.100
BK 25/394/4/40	12.715	43.470	12.895	7.200
BK 25/394/4/48	14.715	51.470	14.895	8.300
BK 25/394/4/56	16.715	59.470	16.895	9.400
BK 25/394/4/64	18.715	67.470	18.895	10.500

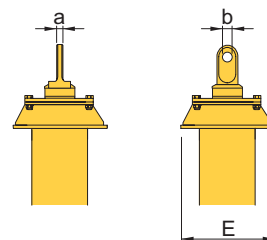


Weitere Längen auf Anfrage

Other lengths on request

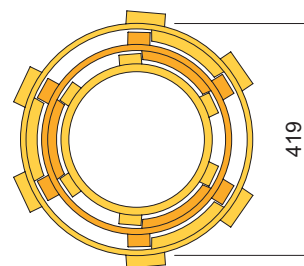
BK 28/419

Kellyvierkant / kelly drive stub	200 mm
Transportbreite / Width for transport	E = 750 mm
Kellyauge / Kelly eye	a = 40 mm
	b = 60 mm



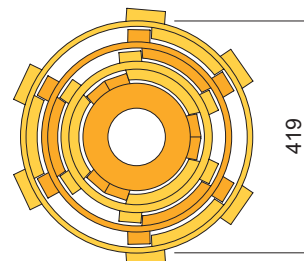
BK 28/419/3

	A (mm)	B (mm)	B1 (mm)	D (mm)	Gewicht Weight (kg)
BK28/419/3/24	10.715	26.928	26.732	10.895	4.950
BK28/419/3/27	11.715	29.928	29.732	11.895	5.400
BK28/419/3/30	12.715	32.928	32.732	12.895	5.850
BK28/419/3/33	13.715	35.928	35.732	13.895	6.300
BK28/419/3/36	14.715	38.928	38.732	14.895	6.750
BK28/419/3/39	15.715	41.928	41.732	15.895	7.200



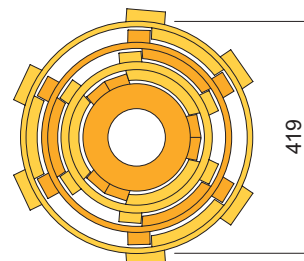
BK 28/419/4

	A (mm)	B (mm)	B1 (mm)	D (mm)	Gewicht Weight (kg)
BK28/419/4/32	11.330	34.745	34.582	11.510	7.800
BK28/419/4/36	12.330	38.745	38.582	12.510	8.400
BK28/419/4/40	13.330	42.745	42.582	13.510	9.000
BK28/419/4/44	14.330	46.745	46.582	14.510	9.600
BK28/419/4/48	15.330	50.745	50.582	15.510	10.200
BK28/419/4/52	16.330	54.745	54.582	16.510	10.800
BK28/419/4/64	19.330	66.745	66.582	19.510	12.600
BK28/419/4/68	20.330	70.745	70.582	20.510	13.400



BK 28/419/4 (Reibkelly / Friction kelly)

	A (mm)	B (mm)	D (mm)	Gewicht Weight (kg)
BK28/419/4/32	11.330	34.745	11.510	7.350
BK28/419/4/36	12.330	38.745	12.510	7.950
BK28/419/4/40	13.330	42.745	13.510	8.550
BK28/419/4/44	14.330	46.745	14.510	9.150
BK28/419/4/48	15.330	50.745	15.510	9.750
BK28/419/4/52	16.330	54.745	16.510	10.350
BK28/419/4/64	19.330	66.745	19.510	12.150
BK28/419/4/68	20.330	70.745	20.510	13.000

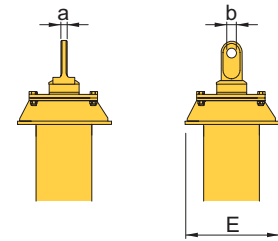


Weitere Längen auf Anfrage

Other lengths on request

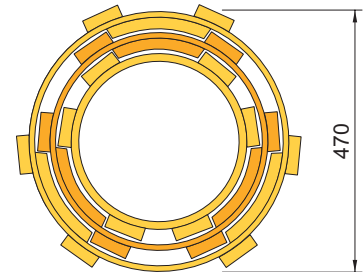
BK 40/470

Kellyvierkant / kelly drive stub	200 mm
Transportbreite / Width for transport	E = 826 mm
Kellyauge / Kelly eye	a = 42 mm b = 80 / 60 mm



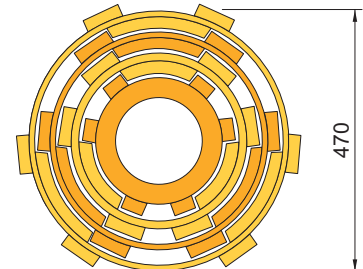
BK 40/470/3

	A (mm)	B (mm)	B1 (mm)	D (mm)	Gewicht Weight (kg)
BK 40/470/3/27	12.250	30.161	29.951	12.430	7.100
BK 40/470/3/30	13.250	33.161	32.951	13.430	7.650
BK 40/470/3/36	15.250	39.161	38.951	15.430	8.750
BK 40/470/3/42	17.250	45.161	44.951	17.430	9.850
BK 40/470/3/48	19.250	51.161	50.951	19.430	10.950



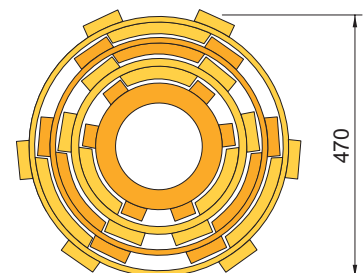
BK 40/470/4

	A (mm)	B (mm)	B1 (mm)	D (mm)	Gewicht Weight (kg)
BK 40/470/4/36	12.250	38.790	38.480	12.430	9.750
BK 40/470/4/40	13.250	42.790	42.480	13.430	10.500
BK 40/470/4/48	15.250	50.790	50.480	15.430	12.000
BK 40/470/4/56	17.250	58.790	58.480	17.430	13.500
BK 40/470/4/64	19.250	66.790	66.480	19.430	15.000
BK 40/470/4/72	21.250	74.790	74.480	21.430	16.500



BK 40/470/4 (Reibkelly / Friction kelly)

	A (mm)	B (mm)	D (mm)	Gewicht Weight (kg)
BK 40/470/4/36	12.250	38.790	12.430	8.800
BK 40/470/4/40	13.250	42.790	13.430	9.450
BK 40/470/4/48	15.250	50.790	15.430	10.750
BK 40/470/4/56	17.250	58.790	17.430	12.050
BK 40/470/4/64	19.250	66.790	19.430	13.350
BK 40/470/4/72	21.250	74.790	21.430	14.650

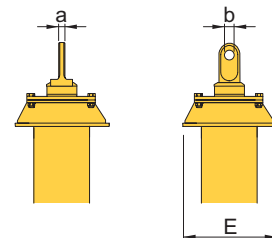


Weitere Längen auf Anfrage
BK 40/470/5 (Reibkelly) auf Anfrage

Other lengths on request
BK 40/470/5 (Friction kelly) on request

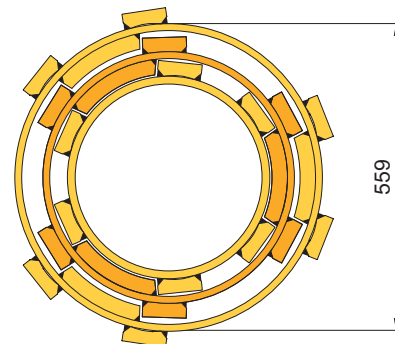
BK 48/559

Kellyvierkant / kelly drive stub	200 mm
Transportbreite / Width for transport	E = 960 mm
Kellyauge / Kelly eye	a = 76 mm
	b = 100 mm



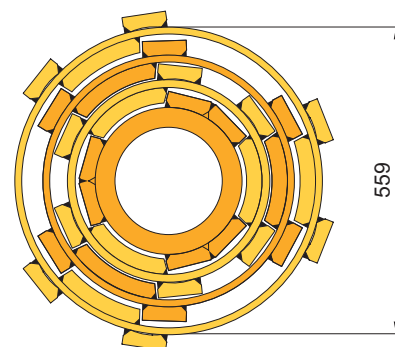
BK 48/559/3

	A (mm)	B (mm)	B1 (mm)	D (mm)	Gewicht Weight (kg)
BK 48/559/3/30	13.750	34.638	34.486	13.973	12.550
BK 48/559/3/36	15.750	40.638	40.486	15.973	13.400
BK 48/559/3/42	17.750	46.638	46.486	17.973	14.250
BK 48/559/3/48	19.750	52.638	52.486	19.973	15.100
BK 48/559/3/54	21.750	58.638	58.486	21.973	15.950



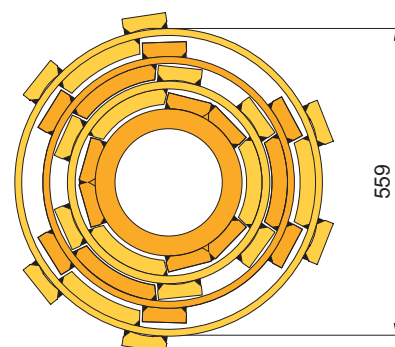
BK 48/559/4

	A (mm)	B (mm)	B1 (mm)	D (mm)	Gewicht Weight (kg)
BK 48/559/4/40	13.750	45.336	45.134	13.973	15.450
BK 48/559/4/48	15.750	53.336	53.134	15.973	17.000
BK 48/559/4/56	17.750	61.336	61.134	17.973	18.550
BK 48/559/4/64	19.750	69.336	69.134	19.973	20.100
BK 48/559/4/72	21.750	77.336	77.134	21.973	21.650
BK 48/559/4/80	23.750	85.336	85.134	23.973	23.200



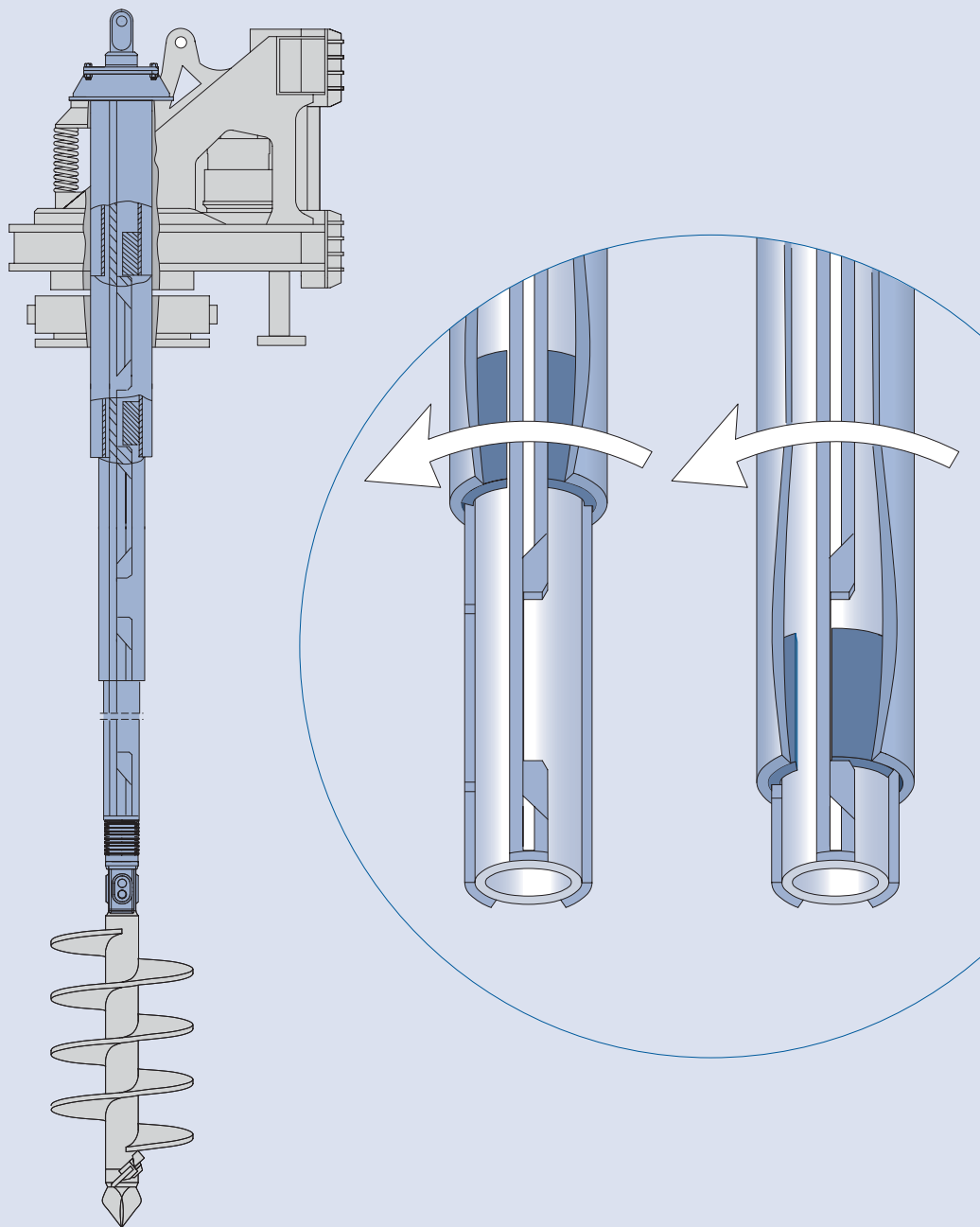
BK 48/559/4 (Reibkelly / Friction kelly)

	A (mm)	B (mm)	D (mm)	Gewicht Weight (kg)
BK 48/559/4/40	13.750	45.336	13.973	13.550
BK 48/559/4/48	15.750	53.336	15.973	14.800
BK 48/559/4/56	17.750	61.336	17.973	16.100
BK 48/559/4/64	19.750	69.336	19.973	17.300
BK 48/559/4/72	21.750	77.336	21.973	18.600
BK 48/559/4/80	23.750	85.336	23.973	20.000



Weitere Längen auf Anfrage
BK 48/559/5 (Reibkelly) auf Anfrage

Other lengths on request
BK 48/559/5 (Friction kelly) on request



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