Kabelhunde

Whether in power stations, industrial buildings or shipbuilding industry, there is only a very confined space for cable laying. The BKS 400 is the perfect tool for these conditions.



- **Lightweight**
  only 35 kg
- **Compact**
  discharging height= 210 mm
- **Versatile**
  for Ø 11 - 70 mm
  + additional capstan
- **High Capability**
  pulling-/pushing power = 400 dN

The Bagela cable and pipe pushing unit BKS 400 is designed for working sites with confined space, and is to be used also within buildings, power plants or on ships. It can be positioned directly into the cable tray because of the low weight and dimensions.

The single capstan can be used for pulling in cables or pipes; the pushing device is also able to push or to pull in glass fibre rods with a diameter starting from 11 mm.

Function:
The cable passes over two pairs of propelled pulleys. Two counter pulleys press the cable into the grooves of the two driving pulleys. The tapered pulleys consist of a special high elastic and wear resistant rubber material, thus ensuring adequate friction.

The hydraulic power pack is connected with the pusher BKS 400 by two hydraulic hoses; the operation can be easy managed from the ground, also if the pusher is fixed in a tray.

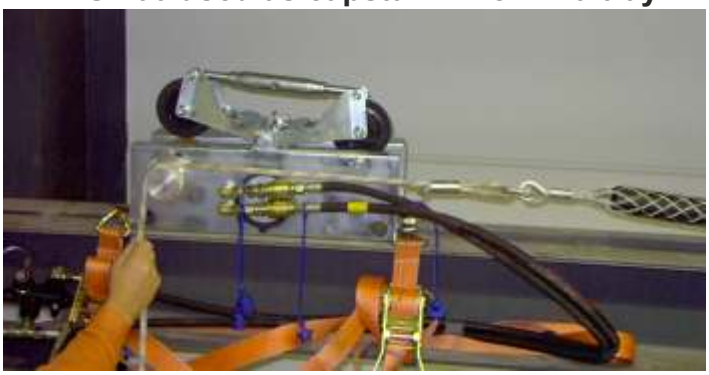
S. Tygesen Energi A/s
Leverandør til energi- entreprenør og telesektoren
Strandvangen 33 · 5300 Kerteminde · +45 65 32 43 80 · www.tygesen-energi.dk

Kabelhunde

BKS 400 in a trench



BKS 400 used as capstan winch in a tray



The hydraulic drive of the BKS 400 can be operated by a separate power pack or by another machine like an excavator, if the below listed parameters can be provided.
The connecting hoses between the BKS 400 and the power pack are equipped with a flow divider, which guarantees the infinitely variable adjusting of speed.



Hydraulic Power Pack with petrol engine type BHA 125/15
Order-No. 010.120.00



Elektrohydraulic Power Pack BHA 120/12

Order-No. 010.106.00



Hydraulic hoses with speed adjustment, 5 m

Order-No. 003.558.04

Technical Data

Type	Pushing Power kN	Rate m/min.	Drive-Engine	Flow Rate/ Pressure bar	Length mm	Width mm	Height mm	Weight kg	**Order-No.**
BKS 400 H	4	0-20	-	-	540	250	350	35	**012.200.00**
BHA 120/12 with E-Motor	-	-	230/400 V 2.2 kW	12L/120	500	400	500	75	**010.106.00**
BHA 125/15 Petrol engine	-	-	4 kW	15L/125	990	485	520	84	**010.120.00**
Hydraulic-hoses, 5 m	With speed control			-	5 m + 1.25 m	-	-	10.2	**003.558.04**
Hydraulic-hoses, 10 m	-			-	10 m	-	-	10.8	**003.558.02**

S. Tygesen Energi A/s
Leverandør til energi- entreprenør og telesektoren
Strandvangen 33 · 5300 Kerteminde · +45 65 32 43 80 · www.tygesen-energi.dk

Kabelhunde



BKS 800

Have you ever been faced with the task of pulling cable along meandering courses, through street under crossings or in narrow ducts? If so, you will know how soon the stress limit of the cable being pulled is reached and how soon you will have to fit a connection piece.

In order to avoid premature cable cutting and fitting of connection pieces, it is advisable to use a Bagela Cable Pusher in front of a bend, which will reduce cable stress and allow longer cable lengths to be pulled.

Each use of the Cable Pusher BKS 800 will save the cost of fitting one connection piece.

No extra time will be squandered for:

- **Cutting the cable,**
- **Moving the cable drum.**
- **Excavating a connection pit,**
- **Barring of the connection pit.**
- **Refilling the connection pit.**

Function:

The cable passes over two pairs of tapered pulleys, which are driven by electric or hydraulic motor. Two counter pulleys press the cable into the grooves of the two driving pulleys, thus ensuring adequate friction. For effective power transmission the tapered driving pulleys are consisting of a special, highly elastic, tough and wear-resistant rubber material with a high coefficient of friction.

The gap between the tapered pulleys can be varied, so that cable and tubes of 30 to 180 mm in diameter and three single lead 20 kV cables in one strand can be pushed.

After the cable has been laid in place, the press-on unit can be removed and the cable taken out and put aside. As the machine is extremely low (340 mm), there will be no unwanted bends in the cable after pushing.

S. Tygesen Energi A/s

Leverandør til energi- entreprenør og telesektoren

Strandvangen 33 · 5300 Kerteminde · +45 65 32 43 80 · www.tygesen-energi.dk

Kabelhunde

Owing to its compact design the cable pusher may be used in any cable trench or pit.

The cable pusher is driven by an electric motor. By means of appropriate power distributors, several cable pushers may be operated in parallel. Upon request, the cable pusher will be supplied with hydraulic motor to be connected to a hydraulic power pack or the hydraulic system of a mini-excavator.



Hydraulic Power Pack with petrol engine type BHA 200/10
Order-No. 010.120.01



Hydraulic hoses with speed adjustment, 5 m

Order-No. 003.558.04



Laying of 3 x single core 30 kV

Technical Data

Type	Pushing Power kN	Rate m/min.	Drive Engine	Length mm	Width mm	Height mm	Weight kg	Order-No.
BKS 800 E	8	10	1.5 kW / 380 V	1300	450	650	168	**012.002.00**
BKS 800 H	8	0-10	-	1300	450	650	157	**012.002.10**
BHA 200/10 Hydr. Power pack	-	-	petrol, 4 kW	990	485	520	84	**010.120.01**
Hydraulic-hoses, 5 m	With speed control			5 m + 1.25 m	-	-	10.2	**003.558.04**
Hydraulic-hoses, 10 m	-			10 m	-	-	10.8	**003.558.02**
Cable Pusher System	For 5 BKS 800E			-	-	-	-	**003.220.90**
Cable Pusher System	For 10 BKS 800E			-	-	-	-	**003.220.91**

Type E : Electric motor with mechanical gear
Type H : Hydraulic motor driven by external hydraulic power pack
Painting: Traffic red RAL 3020

S. Tygesen Energi A/s
Leverandør til energi- entreprenør og telesektoren
Strandvangen 33 · 5300 Kerteminde · +45 65 32 43 80 · www.tygesen-energi.dk

Kabelhunde



If one neither can set up a tubing trailer nor a pipe renewal winch at the pit from lack of space, the solution is called:

BKS 1200 Relining via Pipe pushing

From, in the cable laying approved cable pushers BKS 400 and BKS 800, we further developed a robust pipe-pushing device.
The pushing strength was increased by the duplication of the number of the conical friction wheels and pressure wheels to 12 kN.



The cable and pipe diameter, which can be pushed in, starts with 50 mm and ends with 150 mm.

Is to be pushed only into one direction, it is sufficient to place the pipe pusher axially with downward gradient in front of the manhole and to fix it at the excavation wall.

S. Tygesen Energi A/s

Leverandør til energi- entreprenør og telesektoren

Strandvangen 33 · 5300 Kerteminde · +45 65 32 43 80 · www.tygesen-energi.dk

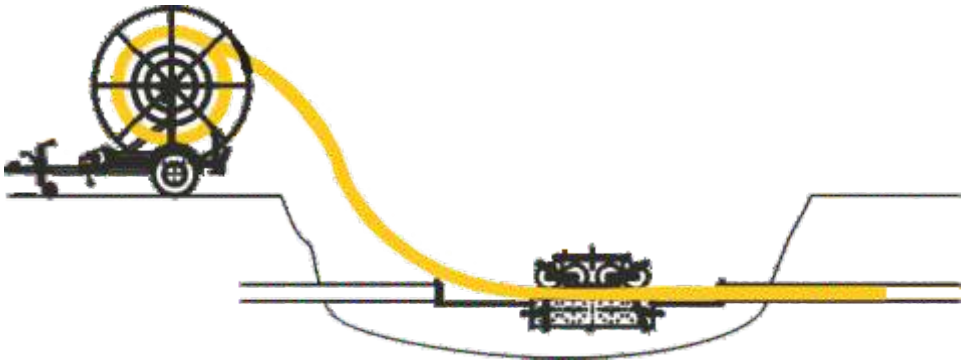
Kabelhunde





For cable and pipe diameter of 50-150 mm

If the old pipe or cable should be reconstructed on the whole line, the BKS 1200 is to be fixed between the two endings of the pipe in the manhole, so that one can push a 100 m in both directions



Due to the population decrease, the increased environmental awareness and smaller losses in the future it showed up that smaller diameters have to be laid; which can be pushed in easily.

Technical Data

Type	Push power kN	Rate m/min.	Drive-engine	Length mm	Width mm	Height mm	Weight kg	**Order-No.**
BKS 1200 H	12	0 - 10	-	1300	450	650	210	**012.150.00**
BHA 200/10 Hydr. Power Pack.	-	-	petrol, 4 kW	990	485	520	84	**010.120.01**
Hydraulic-hoses, 5 m	With speed control Forward-Stop-Back			5 m + 1.25 m	-	-	10.2	**003.558.04**
Hydraulic-hoses, 10 m	-			10 m	-	-	10.8	**003.558.02**

Type H: Hydraulic motor driven by external hydraulic power pack.

S. Tygesen Energi A/s

Leverandør til energi- entreprenør og telesektoren

Strandvangen 33 · 5300 Kerteminde · +45 65 32 43 80 · www.tygesen-energi.dk