







Capstan Winches for Pipe Renewal 30-50 kN RW 3000 RW 4000 RW 5000

Cable Laying Machinery

Pipe Renewal Winches

es As

Asphalt Recycler

Accessories



The approved and compact Bagela cable pulling winches are manufactured in the shock-resistant, recovering Terpolymer (ABS) housing on a hot-dip galvanized base frame.

The longevity of the winch aggregate in combination with this housing makes the winch a worth-stable construction machine. The plastic is solid-coloured and available in red, blue, orange and white. Of course it can be painted although. For operation the soundproofed housing remains closed, only the cover of the control panel has to be opened.

The winch is powered by a diesel engine and is equipped with a steplessly controlled hydrostatic gear. Every Bagela Pipe Renewal Winch is outfitted with automatic hold-on system. The required line pull can be preselected by control of the hydraulic oil pump (pressure/flow control) which keeps the winching rope in permanent tension even at varying pull resistance. This system ensures full self-control of the winch and is more effective than manual control of line speed. The line pull may be increased until the hydraulic overflow valves are activated.

The winch itself is consisting of a twin capstan drive and rope storage drum with automatic rope stacking device. A rope protecting, grooved double capstan system generates the whole pulling force.

The chassis is spring mounted and can be approved with **100 km/h** (depending on national road traffic regulations).

The winch is to be retained by two telescopic and pretensionable rear props and a deflection boom against an end trestle.





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Capstan Winches for Pipe Renewal Systems 30-50 kN RW 3000 - RW 4000 - RW 5000

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Accessories

Winch control

Serial outfit:

- Hydr. Pulling force indicator
- Gear speed shifter
- Pulling force pre-selection
- Rope speed
- Rope: In/Stop/Out
- Emergency stop
- Elapsed hour counter
- Backwards extendable and lowerable rear props
- Central loading rail on top

Optional:

- Remote Control
- Printer
- PC 310, with Touchscreen:
- Preselected pulling force
- Actual pulling force
- Length (progress bar)
- Speed
- USB Port
- (no add. Software neccessary)

The plastic housing is solid-coloured and available in red, blue, orange and white. It may be painted in any RAL colour if desired.

Additional outfit:

Other type of engines, chassis, paintings and more rope if needed .

Dimensions and weights may differ if extras are fitted.

Telescopic deflection boom:

All Bagela winches can be fitted out with a telescopic deflection boom. An appropriate holder at the winch assures the safe transport of the boom in which the end of the rope can remain.

Accessory capstan

For pulling in the UV radiator.



Easy maintenance: If needed the cover can be lifted totally.



Winch control with PC 310





Туре	max. pulling force kN	max. pulling speed m/min	Engine Diesel kW	Rope length m	Rope diam. mm	Length mm	Width mm	Height mm	Weight kg	Order-No.
RW 3000	30	40	16.5	300	10	3800	1650	1380	1300	001.002.16
RW 4000	40	35	18	300	11	4450	1650	1380	1450	001.003.13
RW 5000	50	30	18	300	12	4450	1650	1380	1450	001.004.28

Technical Data

Capstan Winches for Pipe Renewal Systems 100-1000 kN RW 10

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Accessories



- Lockable, sound proved ABS plastic housing
- Interior freely accessible by upwards tiltable side parts
- Higher rope output speed up to 100 m/min possible
- Longer rope length possible
- Fully tinted ABS housing in red, blue, white and orange
- Deflection boom optional, stored in the housing with pivot mounting
- Front supports countersunk in the housing
- Minimal noise immission, operation of the winch with closed housing, only operation panel remains open

Specifications are subject to change without notice. Output details are depending on use conditions.



Capstan Winches for Pipe Renewal Systems 100-1000 kN RW 10 RW 20 RW 40 RW 100

Cable Laying Machines

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Accessories

Bagela RW 20 Renewal of sewer pipe



Bagela RW 40 for swage lining of Scottish offshore pipelines





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Crossing below the river Rhine

Bagela RW 100

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Capstan Winches for Pipe Renewal 100-1000 kN RW 10 RW 20 RW 40 RW 100

Cable Laying Machinery

Pipe Renewal Winches

Asphalt Recycler

Accessories



Winch control with PC 310

Winch control

Serial outfit:

- Hydr. Pulling force indicator
- Gear speed shifter
- Pulling force reselection
- Rope speed
- Rope: In/Stop/Out
- Emergency stop
- Elapsed hour counter

- Optional:
- Remote Control
- Printer
- PC 310, indicating:
- Preselected pulling force
- Actual pulling force
- Length (progress bar)
- Speed
 - USB-port
 - (no add. software neccessary)

The winch is powered by a Diesel engine and is equipped with a steplessly controlled hydrostatic gear. Every Bagela Pip Renewal Winch is equipped with the automatic hold-on system. The required line pull can be preselected by control of the hydraulic oil pump (pressure/flow control) which will keep the winching rope in permanent tension even at varying pull resistance. This system ensures full self-control of the winch and is more effective than manual control of the line speed. The line pull may be increased until the hydraulic overflow valves are activated. The winch itself is consisting of a twin capstan drive and rope storage drum with automatic rope stacking device. The whole pulling force is generated by a grooved double capstan system.

For operation the plastic or respectively the steel made and soundproofed housing remains closed, only the cover of the control panel has to be opened.

The winch is to be retained by two telescopic and pretension- able rear props and a deflection boom against an end trestle.





Additional outfit:

Other type of engines, chassis, paintings and more rope if needed. **Dimensions and weights may differ if extras are fitted.**

						Technical	Data		-	-		
Туре	Max. F Force kN	Pulling Speed m/min	Engine Diesel kW	Rop Length m	e- Diam. mm	Chassis Twin axle	Brake	Length mm	Width mm	Height mm	Weight kg	Order-No.
RW 10	100	60	18	300	16	Height adj.	overrun	5200	1850	1650	2650	002.003.01
RW 20	200	30	36	300	22	Height adj.	overrun	5000	2000	2000	5200	002.301.01
RW 40	400	25	74	1100	32	On tra	cks	4750	2550	2500	20000	002.603.03
RW 100	1000	25	140	1500	52	On tra	cks	6000	2730	3450	20000	032.505.00
		R	ope stora	ge		On tra	cks	4750	2700	3250	25000	032.560.00



Capstan Winches for Pipe Renewal Systems 100-1000 kN RW 100

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RW 100

at the reconstruction of the main water supply via pipe reducing system from a pipe diameter of 1030 mm down to 919 mm in Great Britain.

The distances between the excavating pit were extended up to 800 m. The Pulling speed was at an average of 3 m/min.



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Telescopic deflection booms for Bagela capstan winches



Telescopic deflection boom with revolute joint

Type of winch	Max. boom length	Order-No.
RW 3000-5000	2500 mm	004.014.01
RW 10	5000 mm	004.001.02
RW 20	5000 mm	004.034.04

Adjustable spindles

with revolute joint

Type of winch	Max. boom length	Order-No.
RW 3000-5000	2500 mm	004.074.00
RW 10	5000 mm	004.075.00
RW 20	5000 mm	004.065.00

Telescopic deflection boom

with two adjustable spindles and revolute joint

Type of winch	Max. boom	Order-No.
	length	
RW 10	5000 mm	004.001.05



Rope deflection roller with spindles Adjustable from 920-1200 mm, Max. rope dia. 16 mm Max. working load: 100 kN, Weight: 55 kg Order No.: 004.219.00





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Manhole tensioning pulley

There is hardly ever space enough between the tube exit and the deflection pulley when cleaning appliances or cameras are pulled through. Using the Bagela tensioning pulley the whole cross section of the manhole is used. The deflection pulley is set against the manhole wall and tightened with two threaded spindles. Due to the inclined position of the spindles the pulley gets increasingly pressed against the manhole wall with rising pulling force. The groove and size of the pulley allow it to be used also for camera cable. The rope or cable is held on the pulley by means of three pins.

Max. Working load	Weight	Order-No.
20 kN	29.2 kg	004.224.00
50 kN	52 kg	004.224.50





Rope protection roller for pipe cleaning

During pipe cleaning, winches cannot always be placed in a straight line with the excavation, so that the rope may rub against the wall. The rope protection roller will prevent such rubbing and will ensure that the cleaning gear is pulled out unhindered.

Diameter range	Weight	Order-No.
100 - 350 mm	18 kg	004.223.10
200 - 550 mm	20 kg	004.223.15

Different sizes on request.

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Spongeball for final cleaning

Ball-Ø 40 mm 60 mm 70 mm 80 mm 110 mm 120 mm 135 mm 150 mm 150 mm 160 mm 170 mm 210 mm	Weight 0.005 kg 0.021 kg 0.031 kg 0.057 kg 0.150 kg 0.192 kg 0.267 kg 0.339 kg 0.377 kg 0.377 kg 0.491 kg 0.782 kg 0.935 kg 1.717 kg	Order-No. 009.834.03 009.834.05 009.834.07 009.834.08 009.834.10 009.834.20 009.834.25 009.834.30 009.834.40 009.834.45 009.834.46 009.834.48
	0	

Tube cleaning brush for secondary cleaning with stable plastic bristles

DN mm	Weight	Order-No.:
80	0.4 kg	009.850.00
100	0.5 kg	009.851.00
150	1.5 kg	009.852.00
200	2.7 kg	009.853.00
250	5.0 kg	009.854.00
300	7.1 kg	009.855.00
350	9.5 kg	009.856.00
400	1.0 kg	009.857.00
450	13.0 kg	009.858.00
500	15.5 kg	009.859.00



DN mm	Weight	Order-No.:
100	5 kg	009.860.00
125	6 kg	009.861.00
150	8 kg	009.862.00
200	12 kg	009.863.00
250	19 kg	009.864.00
300	25 kg	009.865.00

Other sizes upon request.





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Plunger for final cleaning

rigid version

DN (mm)	Weight	Order-No.:
100	2.5 kg	009.870.00
125	3.5 kg	009.871.00
150	4.0 kg	009.872.00
200	7.0 kg	009.873.00
250	12.0 kg	009.874.00
300	22.0 kg	009.875.00
350	25.0 kg	009.876.00
400	33.0 kg	009.877.00
500	68.0 kg	009.878.00
600	94.0 kg	009.879.00

Plunger for final cleaning

linked version

DN (mm)	Weight	Order-No.:
100	2.5 kg	009.890.00
125	3.5 kg	009.891.00
150	5.5 kg	009.892.00
200	6.2 kg	009.893.00
250	13.0 kg	009.894.00
300	23.5 kg	009.895.00
350	26.5 kg	009.896.00
400	35.0 kg	009.897.00
500	70.0 kg	009.898.00
600	96.5 kg	009.899.00

Scraper

made of spring steel for removal of hard incrustations

DN (mm)	Weight	Order-No.:
100	2.5 kg	009.800.00
125	4.2 kg	009.801.00
150	5.1 kg	009.802.00
200	6.5 kg	009.803.00
250	11.0 kg	009.804.00
300	16.0 kg	009.805.00
350	21.2 kg	009.806.00
400	26.0 kg	009.807.00
500	31.5 kg	009.808.00
600	54.0 kg	009.809.00







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Accessories



Tube roller with base plate galvanized for welding of single lengths and inserting inliners of 300 mm diameter. Carrying load: 300 kg, Weight: 4.0 kg Order No.: 009.100.00



Tube roller jack galvanized

Max. Tube-Ø	Max. Load	Weight	Order-No.
500 mm	500 kg	11.5 kg	009.409.20
750 mm	1000 kg	29 kg	009.409.30

Tube suspension tackle for excavator boom, Max. tube dia. 300 mm Gewicht / Weight: 15 kg Order No.: 004.101.00



Tube roller device for welding Max. tube dia. 400 mm Weight: 9 kg Load: 500kg Order No.: 009.911.00

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Cable Laying Machines

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Accessories

Pulling head for PEHD-Tube

-without seal-

Tube-Ø outside	Clamping range	Order-No.
32 mm	24-28 mm	009.563.04
40 mm	32-36 mm	009.563.06
50 mm	39-47 mm	009.563.08
63 mm	49-60 mm	009.563.12
75 mm	59-70 mm	009.563.14
90 mm	71-85 mm	009.563.16
110 mm	87-103 mm	009.563.18
125 mm	99-116 mm	009.563.20
140 mm	111-130 mm	009.563.22
160 mm	127-148 mm	009.563.24
180 mm	144-166 mm	009.563.26
200 mm	158-184 mm	009.563.28
200 mm	158-184 mm	009.563.28
225 mm	178-206 mm	009.563.30
250 mm	198-230 mm	009.563.36

Pulling head for PEHD-Tube

-with seal-

Tube-Ø outside	Clamping range	Order-No.
32 mm	24-28 mm	009.563.60
40 mm	32-36 mm	009.563.61
50 mm	39-47 mm	009.563.62
63 mm	49-60 mm	009.563.63
75 mm	59-70 mm	009.563.64
90 mm	71-85 mm	009.563.65
110 mm	87-103 mm	009.563.66
125 mm	99-116 mm	009.563.67
140 mm	111-130 mm	009.563.68
160 mm	127-148 mm	009.563.69
180 mm	144-166 mm	009.563.70
200 mm	158-184 mm	009.563.71
225 mm	178-206 mm	009.563.72
250 mm	198-230 mm	009.563.73





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