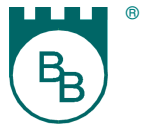


# Cement Mortar Lining Winch Type RW 3ZM



**decreased labour cost    decreased cement mortar consumption    decreased waste removal cost**



**increased site efficiency**

**increased lining rate**

**increased work safety**

When applying a conventional method of internal cement mortar lining in a drinking water mains, you have to put up with the following drawbacks:

High preparatory effort before lining, high labour cost incurred by laying out hoses during lining and high cleaning and clearing effort after lining, unless you decided to use a Bagela cement mortar lining winch.

The Bagela cement mortar-lining winch is self-propelled and may be manoeuvred independently over the working pit. The cement mortar feeding hose, the compressed-air hose and the pulling rope are bound into a bundle, which is neatly stacked on the reel. While the hose bundle is brought into the pipe to be lined, the supply lines may be connected to the swivel inlets. After a test run of the spinning head, lining operation may be started immediately. During the lining process, for which only two operators are needed, i.e. one at the winch and one at the cement mixer, the rope of a second winch may already be brought into the next pipe section.

The speed at which the spinning head is to be pulled through the pipe may be preset at the proportional control with its target and actual data line-up and may be kept absolutely constant, irrespective of the number of hose layers stacked on the drum. The operating data, i.e. lining advance, pulling speed and pulling force are displayed in digital notation and recorded in a lining log.

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



In conventional lining methods, laying out of hoses poses a number of problems:

1. A lot of space is needed. Laid out hoses of 100 m length, for example, with a sufficient large diameter require not only space, which is especially rare in built-up areas, but may also be a hazard to the traffic.
2. During hot summer days there is always the risk of the spinning head getting blocked with the hoses lying on the hot asphalt pavement.

**Moreover, the hose drum is equipped with a water spray jet, which keeps the mortar hose cool at high ambient temperatures.**

3. Laying out the hoses on the dirty pavement stands in direct contradiction to the requirement that relined pipes have to be flushed until a minimal germ percentage is reached before they can be reconnected to the water grid.



With the Bagela cement mortar-lining winch, the hose bundle is wound during lining operation direct on to a large hose reel, from which it may be unreeled immediately into the next section to be lined. There is no interruption by separating the bundle and laying out the hoses

As the motor feeding rate through the hose is rather high, there is no risk of blockage of mortar in the spinning head, in spite of the short curing time of the mortar. The hose need not be cleared and lining operation of the next pipe section may begin immediately.

This advanced technology reduces waste of mortar and saves costs for removal of waste mortar from hose cleaning. With efficient preparation, the lining rate may be increased considerably.

**Painting: traffic red RAL 3020**

**Standard accessory: self-propulsion**

## Technical data:

Type	Max. pulling		Drive engine			Rope		Chassis		Length	Width	Height	Weight	Order No.
	force	speed	kW	fuel	cyl.	diam.	length	type	brake					
<b>RW 3ZM</b>	30 kN	35 m/min	20	Diesel	4 W	10 mm	200 m	—oo 3,5	overrun	6000 mm	2350 mm	3000 mm	3000 kg	<b>026.001.00</b>

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