Kabeltrailere



BKT 18, BKT 23 and BKT 27

- Easy loading
- High versatility
- Excellent trailing performance



BKT 60 and BKT 80

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Kabeltrailere

Trailing Performance:
The twin-axle chassis absorbs severe shocks and high axle loads, even when crossing rough and bumpy ground.

The trailer runs smoothly and does not jump. The extreme loads generated by starting and braking are damped down and thus transmitted only partly to the hook of the towing vehicle.

The type BKT 18, BKT 23 and BKT 27 are hot-dip galvanised serially. The type BKT 40, BKT 60 and BKT 80 are primed and finished in RAL 3020. We recommend the hot-dip galvanisation too.

Versatility:
Trailers of the series BKT 18 up to BKT 27 are applicable for transporting HDPE-tubing drums, cable drums, Pipe coil cages, Loading platforms and carrier set for up to 9 micro pipe drums. All Bagela trailers of series BKT could be used as container transporter up to 9 m³ without conversion work.

Easy Loading:
Irrespective of ground conditions one man can load the trailer in a couple of minutes. The trailer shifts the cable drum into pick up position by fingertip control and hauls it to trailing position between the axles.

Technical Data

Type height adjustable	**BKT 18 ¬oo**	**BKT 23 ¬oo**	**BKT 27 ¬oo**	**BKT 40 ¬o**	**BKT 60 ¬oo**	**BKT 80 ¬oo**
Length (mm)	4950-5200	4950-5200	4950-5200	4200	5050-5400	5050-5400
Width (mm)	2550	2550	2550	2550	2550	2550
Height (mm)	1900-2550	1900-2550	1900-2550	2260	2450	2450
Empty weight (kg)	750	820	860	1500	2100	2500
Payload (kg)	1750	2180	2640	4100	6100	8500
Total weight (kg)	2500	3000	3500	5600	8500	11000
Brake	overrun	overrun	overrun	air pressure	air pressure	air pressure
Max. drum-Ø (mm)	2800	2800	2800	3000	3000	3000
Max. tube coil-Ø (mm)	3700	3700	3700	-	-	-
Clear loading width (mm)	1720	1720	1720	1720	1720	1720
Tyre size	195/70R14	195 R14C	195 R14C	245 70R 17,5	245 70R 17,5	245 70R 17,5
Tow bar height adjustable (mm)	400-1100	400-1100	400-1100	820-930	780-1050	780-1050
Order-No.	**008.023.00**	**008.001.00**	**008.002.00**	**008.009.00**	**008.003.10**	**028.530.10**

Type fixed draw gear	**BKT 18 –oo**	**BKT 23 –oo**	**BKT 27 –oo**
Length (mm)	4000	4000	4000
Empty weight (kg)	710	770	820
Payload (kg)	1790	2230	2680
Order-No.	**008.023.10**	**008.001.10**	**008.002.10**

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Kabeltrailere



BKT 40



BKT 23/27 with HDPE-tubing drum



For BKT 18 up to BKT 80

- Hydraulic Power Pack for drum lifting and driving with petrol engine and lockable steel sheet protection hood
- Drum drive without Hydraulic Power Pack
- Aluminum shaft for cable drums with lathed bearing points and with sliding bearings



For BKT 18 up to BKT 27

- Uncoiling cage for special length 290 m, pipe dia.: 160 mm

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Kabeltrailere



For BKT 18 up to BKT 27

- Additional acceptance for micro duct drums



Tipping container	2,3 m³	**BKT 18 - 27**
Tipping container	4,0 m³	**BKT 40**
Tipping container	4,5 m³	**BKT 18-27 / 60 / 80**
Tipping container	4,5 m³	**BKT 18 - 27 / 60 / 80**
Tipping container	9,0 m³	**BKT 60 / 80**

Acceptance arbor for container



Mechanical drum brake
BKT 10 - BKT 27

Galvanized, steel shaft with plain bearings instead of unsupported shaft and clamps.

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Kabeltrailere

Type BKT 10 - 12 - 15

The BKT 10-15 gets loaded by a tilting frame which is operated by a manually operated hydraulic pump and two double acting hydraulic cylinders.



Type BKT 10K - 12K - 15K

The loading frame is tilted up with a non-recoiling, hand-operated windlass and secured by two eccentric claps.

Upon request, all trailers may be delivered with extendible loading jibs for picking up tube reels (for BKT 10 and BKT 12/15 serially).

Larger diameters of pipe coils than mentioned for the cable drums can be transported with that additional extensions.

The trailers of both construction series are hot galvanised.



BKT 10 K with tube reel RH 63

Technical Data

Type height adjustable	**BKT 10**	**BKT 12**	**BKT 15**	**BKT 12/15**	**BKT 10K**	**BKT12K**	**BKT 15K**
Length (mm)	4330	4540	4600	-	4030	4290	4350
Width (mm)	2140	2340	2340	2340	2140	2340	2300
Height (mm)	1750	1980	2000	2100	1750	1980	2000
Payload (kg)	970	1080	1500	-	950	1200	1500
Total weight (kg)	1350	1600	2300	1600	1350	1650	2300
Max. drum/tube coil Ø (mm)	2600	2500	2500	2800/3800	2600	2500	2500
Clear loading width (mm)	1360	1580	1580	1580	1360	1580	1580
Order-No.	**008.020.01**	**008.021.01**	**008.022.01**	-	**008.015.01**	**008.016.01**	**008.017.01**
Type fixed draw gear							
Length (mm)	3320	3780	3740	3930	3220	3780	3740
Payload (kg)	970	1100	1500	1080	950	1200	1500
Order-No.	**008.020.00**	**008.021.00**	**008.022.00**	**008.740.00**	**008.015.00**	**008.016.00**	**008.017.00**

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Kabeltrailere

Cable drum trailer type BKT 15

The tilting frame tilts hydraulically backwards and the platform swings behind the trailer.



Cable drum trailer type BKT 15 with a 4 kW hydraulic power pack and a single arm drum drive

especially for fibre optic cables; The hydraulic power pack is available for all types of the hydraulic series BKT 10 - BKT 15.



Cable drum trailer type BKT 12/15 with extendible pick-up jibs and tube coil cage RH 160

The pick-up jibs and the cage may be adjusted to coil diameters of up to 3700 mm. After the packing straps have been removed from the coil, the tube can be uncoiled out of the centre.

Capacity:
Tube-Ø: 90-160 mm
Max. length: 100 m



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Kabeltrailere



The KSP 80 pulls cable rests from a submarine cable ship and rewinds it directly on cable drums of up to 80,000 kg total weight. The drums get tensed up by the drive rollers. A tensile and braking force of up to 110 kN depending on the drum diameter.

The winding and rewinding speed is regulated steplessly between 0 up to 25 m/min. What means that cables can be rewinded even in steep trails.

Application fields:

- Laying of submarine cables
- Connection of wind parks
- Cable laying in steep trails



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Kabeltrailere

Layered Arrangement:
A remote control with potentiometer controls the drive rollers and the layered arrangement.



Control of the Cable Rewinding Unit:
The remote control regulates speed and direction oft he drum and the layered arrangement. Therefore the operator is out of the danger zone and at the same time flexible to supervise the rewinding.



External Hydraulic Aggregate BHA 22060:
For powering the cable rewinding unit an external hydraulic aggregate is to be used.

The BHA 22060 is sound insulated and to be positioned in sufficient distance.

Design flow rate: 60 l/min
Design pressure: 220 bar
Max. pressure: 250 bar



Hydraulic Control:
The gauges indicate the locking and drum drive pressure.
They inform permanently about the current pressures and how much reserves are remaining.
Especially for the winding these information are crucial.



Type	Load kg	Weight kg	Drum-Ø mm	Max.Drum Width mm	Length mm	Width mm	Height mm	Order-No.
KSP 80	80000	8600	2500 - 5000	6000	9000	3572	2000	**029.400.00**
Layered A.	-	2000			9524	2124	3000	**029.430.00**
BHA 22060	-	990			1520	920	1620	**010.170.00**

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Kabeltrailere



BTT 300.10V hydraulic extendable

Cable trailers of this construction series are capable of picking up, transporting and unreeling heavy power cable drums from 2200 up to 4500 mm diameter and 30 t weight. For drums of dia. 2200 - 3270 mm are additional lifting pockets available. For larger drum diameters this type of trailer offers a solution too.

The rear open U-type design of the trailer, allows the cable drum to be placed directly into loading position, where it is only lifted up for transport or payout by two vertical rows of lifting pockets driven by a power-hydraulic system.

This trailer gets loaded by the motor hydraulic lift. The air suspension enables the laterally lowering of the trailer to adapt to angular standing drums on difficult ground. This suspension assures the permanent load spreading on all tires while driving.

Optional accessories:

- Twin roller drum drive with hydraulic press cylinders
- Additional pockets for picking up small cable drums
- Hydraulic extendable system
- Remote control

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Kabeltrailere

Standard version:

In the standard version the BTT 300.10E is flanged and the speed is limited to 10 km/h.
For shipment the trailer can be separated in 3 parts.



Remote Control:

The remote control with 10 m cable ensures an optimal overview to the operator while loading, reeling and unreeling (fast- slow)

For hydraulic extendable versions on request.

Extendable Version:

For driving on public roads or for shipment the trailer is retractable to an outer width of 2550 mm. Admitted speed is 80 km/h (depending on national road restrictions).



Technical Data

Type	Payload kg	Total weight kg	Max. Drum dia. mm	Max. Loading width mm	Chassis Type	Chassis Brake	Length mm	Width mm	Height mm	Order-No.
BTT 300.10E	32060	39760	5000	1690	¬ooo	Air press.	8750	2550	3750	**048.500.00**
BTT 300.10V	30000	39760	5000	3200	¬ooo	Air press.	8750	2550-4060	3750	**048.501.00**

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Kabeltrailere



BTT 131.80V hydraulic extendable with power hydraulic drum drive and lifting system

The connection of the expanding renewal energy e.g. offshore wind parks demands a massive net extension. Instead of overhead lines, high-voltage cables with large conductor cross-sections are laid in the ground. In order to avoid cable joint boxes the cable manufacturers produce the greatest possible lengths and supply the cable only on broad drums what means the laying with conventional trailers could not be managed.

Cable Drum Transport and Laying Trailer BTT 131.80V could be extended hydraulically. The air suspension enables the laterally lowering of the trailer to adapt to angular standing drums on difficult ground.
The U-type design of the trailer, open at the rear, enables the mounting of a different triangle towing bar in which the hydraulic cylinders for the widening function are implemented.

- **Simple extending operation of the trailer and the drum drive via the own hydraulic system**
- **Just secure in the required width with the locking bolts, ready**
- **The drum axles in the suitable length are fixed at the trailer**

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Kabeltrailere

BTT 131.80V
narrowest way

Extending:

The total width of the retracted trailers is 2550 mm, so you need no special permit for a MOT approval. A maximum widening up to 4000 mm can be reached at the building site. The maximum loading width could be extended from 1690mm up to 3090 mm (the dimensions are depending on the trailer type).
The drum drive is divided and will proceed the extending automatically.



BTT 131.80V
extended



Operation:

The operation instruments for loading and controlling the drum drive are located at the left rear side. The operation lever for extending at the left front. While this function the trailer must be moved.

We build all hydraulic extendable trailers in fixed version which is flanged too!



Technical Data

Type	Payload kg	Total weight kg	Max. Drum dia. mm	Loading width mm	Chassis Type	Chassis Brake	Length mm	Width mm	Height mm	Max. km/h	Order-No.
BTT 131.80V	11700	18000	4500	1690-3090	¬of	Air press.	7950	2550-3950	3295	80	**048.400.00**
BTT 131.80	13000	18000	4500	1690	¬oo	Air press.	6000	2550	3295	80	**048.801.00**

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Kabeltrailere



BTT 200.20 with drum drive in flanged version

Cable trailers of this construction series are capable of picking up, transporting and unreeling heavy power cable drums of up to 16 t weight.

The U-type design of the trailer, open at the rear, allows the cable drum to be placed directly into loading position, where it is only lifted up for transport or payout by two vertical rows of lifting pockets. In the standard version of the trailer the drum is lifted by hand-operated pump via two separately controllable hydraulic jacks.

Optional accessories:

- Power hydraulic lifting system
- Power hydraulic lifting system and drum drive
- Additional pockets for picking up small cable drums
- Bigger drum dia. on request

Technical Data

Type	Payload kg	Total Weight kg	Max. Drum dia. mm	Loading Width mm	Chassis Type	Chassis Brake	Length mm	Width mm	Height mm	Max. km/h	Order-No.
BTT 100.80	10000	13000	3600	1720	¬oo	Air press.	6000	2550	2600	80	**028.603.00**
BTT 160.25	16000	19100	3600	1660	¬oo	Air press.	6000	2550	2600	25	**028.605.00**
BTT 200.20	19500	24000	3600	1697	¬oo	Druckl.	6500	2750	2775	20	**028.607.00**

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Kabeltrailere

BTT 5825 / 7525

The U-shaped structure of the trailer with its open rear allows the backing up directly to the position of the cable drum into the BTT 5825/7525. After the drum shaft has been pushed through the centre bore of the drum and engaged into the appropriate carrying pockets of the trailer, the drum is lifted hydraulically and ready for transport and unreeling. With the standard version, the drum is lifted by hydraulic hand pump via two individually controllable cylinders. The BTT 5825M and BTT 7525M differ in the loading with a hand-operated windlass.



BTT 5825 / 7525 with extras
(picture without mud guards and lightning system)

Optional extras:

- Power hydraulic system for lifting and rotating the drum
- Additional carrying pockets for smaller drums



BTT 8020 E / BTT 140.20 (E= Export version)

The trailer Type BTT 8020 E/ BTT 140.20 is based on the Type BTT 7525 and differs only in the equipment. Here it is reduced to a minimum to keep the price low. It is build without light and brake system and mud guards but with parking brake.

Optional extras:

- Power hydraulic system for lifting and rotating the drum
- Additional carrying pockets for smaller drums



All trailers of the BTT series are available as a collapsible version, which reduces loading space and freight charges.

Technical Data

Type	Payload kg	Total Weight kg	Max. Drum dia. mm	Loading Width mm	Chassis Type	Chassis Brake	Length mm	Width mm	Height mm	Max. km/h	Order-No.
BTT 5825	5800	6950	3200	1685	-o	Air Press..	4000	2550	2300	25	**028.600.00**
BTT 5825 M	5800	6950	3200	1685	-o	Air Press	4000	2550	2300	25	**028.600.50**
BTT 7525	7500	8650	3200	1685	-o	Air Press	4000	2550	2300	25	**028.601.01**
BTT 7525 M	7500	8650	3200	1685	-o	Air Press	4000	2550	2300	25	**028.601.51**
BTT8020 E	8000	9150	3200	1685	-o	Parking brake	4000	2550	2300	20	**028.601.30**
BTT 140.20E	14000	16200	3600	2389	-o	Parking brake	4625	3582	2600	20	**028.786.00**

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Kabeltrailere



For winding and transportation of compact inline pipe of 400 mm dia., reels of an outer diameter of 3700 mm are needed. For carrying such large reels we have designed our trailer BRT 65 with an open rear side to enable the reel to be placed inside the trailer frame for being picked up. Serially the trailer is equipped with a rear gate to be opened to one side.



Two vertical pocket jacks, which may independently be moved up and down by an engine-driven hydraulic drive system and which are secured for transport by locking pins, lift the reel.

The twin roller reel drive system for turning and braking the reel is also driven by this hydraulic drive system.

The towing eye is height adjustable between 840 up to 950 mm.

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Kabeltrailere

Hydraulic drum drive and brake

The twin driving rollers, each running on three bearings, have a diameter of 150 mm and thus provide high frictional power. Each roller consists of several segments.

Advantage:

Since the rollers are worn locally, i.e. where they get into contact with the reel flanges, there is no need of replacing both rollers at the same time; instead the segments may be interchanged among one another.



Mechanical drum brake

In order to resist the high expansion power of the „Compact Pipe“ coil, the twin driving rollers are equipped with a mechanical disc brake.



Central control board at the rear and hydraulic rear supports

Advantage:

All controls are provided at a central position at the rear for easy reel handling, i.e. loading, unloading, reeling and unreeling.



Supported Rollers at the front and back

These rollers protect the Compact-Liner from damages.
Loose loops of the liner were guided over the rollers to protect the liner from sagging.



Technical Data

Type	Payload-	Empty- weight	Total weight	Max. Drum dia.	Max. Drum width	Chassis Type	Chassis Brake	Length mm	Width mm	Height mm	Order- No.
BRT 65	6500 kg	2420 kg	8920 kg	3700 mm	1630 mm	¬o	Air press	6500	2550	2500	**008.513.00**

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Kabeltrailere



BRT 25 picking -up a U-liner drum



It is essential that contractors should adapt their tools and equipment to the development of underground tube renewal techniques. While tube manufacturers first and foremost think of the most efficient way of manufacturing and packing, tube laying contractors are faced with the problem of how to transport and install the tubing.

To be able to transport a drum of U-liner with a width of 2150 mm and a diameter of 3200 mm, a completely new loading concept had to be developed. On the basis of the BKT series of cable trailers a loading frame has been designed which lifts the tube drum from the rear of the trailer by engine/hydraulic drive over the rear axle and lowers it on the centre of the loading platform exactly between both axles.

Almost the full width of the trailer is used as loading area without exceeding the permissible width according to the motor vehicles licensing regulations.

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Kabeltrailere

BRT 50
With Drum-Drive





Drum drive system with brake device:

This accessory prevents expanding the coils from passing over the sides of the drum. Moreover, a rubber friction roller is provided for braking and driving the drum as required.
When the U-liner is lowered into the pit, the drive system remains operational and the rubber friction roller remains pressed against the drum.

Technical Data

Type	Payload	Total weight	Max. Drum dia.	Max. Drum width	Chassis		Length	Width	Height	**Order-No.**
	kg	kg	mm	mm	Type	Brake	mm	mm	mm	
BRT 25	2500	3500	3000	2150	¬oo	Overrun	4400	2500	2500	**008.005.00**
BRT 50	5800	8800	3200/3400/3600	2315	¬oo	Air press.	5900	2550	2750	**028.340.00**

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Kabeltrailere





There are a lot of reasons for a small light tube coil trailer:

- 80 % of all standard tube coils have a winding length of 100 m.
- With a pay load of 900 kg and a permissible total weight of 1600 kg the BRVT 09 is to be classified as a passenger car trailer. The large trailers for 300 m pipe lengths have a permissible total weight of 3000 kg and require a small truck or a passenger car with tachograph as towing vehicle.
- The BRVT 09 is a good opportunity to the larger and more expensive coil transport trailer

Whether with HDD drilling machines or all in pipe renewal processes, especially on urban working sites, the space is confined.

With BRVT 09/BRVT 16 the pipe is guided from the top out of the basket parallel to the coil under the axle of the trailer to the rear.

There is no bending tension on the pipe coil. The roll resistance is less than of conventional solutions. No more inner rollers are necessary and the inner end of the pipe can be pulled into the coil.
The BRVT 16 is able to load and uncoil wider pipe coils.

Technical Data

Type	Pay load kg	Empty weight kg	Max. dia.Pipe Max. dia. Pipe coil mm	Max. Coil Width mm	Length mm	Width mm	Height mm	**Order-No.**
BRVT 09	680	920	3750 / 160	1100	5070	2250	2950	**038.700.04**
BRVT 16	1400	1100	3750 / 160	1500	5150	2300	3030	**038.700.06**

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Kabeltrailere

- Lateral movable limit bar for limitation of different pipe coil width.
- The quick roller change system shortens the changeover time for 60 % and lowers the danger of accidents which is imminent by two handed screwing.
- Depending on the big loading width coil dimensions of up to 180 mm can be loaded.
- The sturdy lower rollers enable the transport of HDPE-tubing drums too.
- Simultaneous uncoiling of three pipe coils is possible (pipe dia. 100 mm, pipe coil length: 100 m)





Attention: The inner end of the pipe is to be cut. It has to be flush to the pipe coil!

Uncoiling cages can be used also without trailer as freestanding device. Tool trailer are suitable likewise, however a safe attachment must be ensured.



The Bagela cable drum trailer of the series BKT 23 and 27 is equipped with the necessary attachment for the Uncoiling cage and are able to load and unload it independently.

In addition, the Uncoiling can be used in a cable drum trailer of strange brand.

Technical Data

Type	Pay load	Empty weight	Total weight	Max. dia. pipe coil	Loading width	Chassis Type	Chassis Brake	Length mm	Width mm	Height mm	Order-No.
BRVT 17	1700 kg	1300 kg	3000 kg	3700 mm	1720 mm	¬oo	overrun	5800	2520	3050	**038.700.00**
BRVT 17	1800 kg	1200 kg	3000 kg	3700 mm	1720 mm	-oo	overrun	5300	2520	3050	**038.700.10**
Cage		450 kg		3700 mm	1465 mm			3900	1994	2570	**008.339.01**
Cage wide		580 kg		3700 mm	1700 mm			3900	2230	2570	**008.339.02**

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Kabeltrailere



The BRT 20 is able to pick up, load and uncoil pipe coils without any help. Even laying coils can be picked up without any auxiliary equipment. Tube coils of varying diameters may be picked up with the aid of the vertical hydraulic jacks and put down on the bearing rollers. Then three guiding rollers are inserted on the inside of the coil, and the coil is ready for unreeling.

Since the coils are picked up from the rear, all hydraulic control levers are arranged at the rear. The operator's stand within the slewing range of the pick-up frame is provided with a protection guard.



Even coils lying flat on the ground can be picked up by the frame and slewed into the roller cage. The pick-up shaft runs on bearings and is provided with spherical ends, which prevent the shaft from being stressed irrespective of the relative position of the lifting arms. During tube unreeling two steadying wheels hold the narrow coils (100m length) in centre position.

Attention: The inner end of the pipe has to be cut flush to the pipe coil!

Technical Data

Type	Pay-load kg	Total-Weight kg	Max. dia. reel coil mm	Loading Width mm	Chassis Type	Chassis Brake	Length mm	Width mm	Height mm	**Order-No.**
BRT 20	1600	3500	3700	1500	¬oo	Auflauf	5850	2500	3050	**038.250.00**

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Kabeltrailere

Gas or water pipes made of PE up to a diameter of 63 mm are generally delivered in bundles. When the packing strops are removed the coils will expand and find to be muddled up due to their own tension.

Tube laying until now,
<u>WITHOUT</u> Bagela Coil Reels:

- High labour costs while tube laying
- Danger of scratches on the tube
- Chaos at site due to expanding of the remaining coil



Tube laying today,
<u>WITH</u> Bagela Coil Reels:

- Cost-saving tube laying by one person only
- Easy and careful handling of the tubes
- Bundling of the remaining tube into the reel
- Easy storing and re-usage of the remaining tube



The Coil Reels type RH 40 and RH 63 may be used in a cable drum trailer, without the rack.



Bagela Coil Reel with standing rack

Technical Data

	Pipe	Tube coil		Max. Coil dimensions	Length	Width	Height	Weight	**Order-No.**
Type	Ø mm	outer-Ø mm	Width mm	Length (m) / Ø (mm)	mm	mm	mm	kg	
RBH 40	max. 40	max. 1350	max. 400	200 / 32 100 / 40	1450	730	1500	95	**004.450.00**
RBH 63	max. 63	max. 2200	max. 570	400 / 50 300 / 63	2350	1060	2470	215	**004.750.02**

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