



Chapter 5



Accessories Part-2

Cable Laying in Ducts





Underground Cable Laying Accessories

Cable Laying Machinery

Pipe Renewal Winches

Asphalt Recycler

Accessories



PVC-pipe cutting-of and chamfering device

For pipe-dia. 32-110 mm with deburring tool and transport box.

The device can be adjusted to the pipe diameter by means of different clamping jaw inserts.

Weight: 4 kg

Basic equipment: Clamping jaw inserts 110 mm.

Order No. 009.664.00



Spare parts

Hard metal cutting plate (without illustration)

**Order No.
009.664.01**

Spare knife for deburring tool (without illustration)

009.664.02

Clamping jaws (without illustration)

Tube-Ø

50 mm

100 mm

**Order No.
009.664.30
009.664.90**

Different sizes (32, 40, 56, 63, 75, 80, 90 mm) upon request.

Rope protection roller galvanized



Duct dia.

Weight

Order No.

50 mm

1.5 kg

009.512.00

80 mm

3.0 kg

009.513.00

100 mm

4.0 kg

009.514.00

120 mm

5.0 kg

009.515.00

150 mm

7.0 kg

009.516.00

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



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Tube assembly tongs galvanized

Tube-Ø	Weight	Order-No.
50 mm	1.5 kg	009.411.00
100 mm	2.0 kg	009.411.10
150 mm	2.8 kg	009.411.20



Manhole-cover lifting tongs with triangular handle

Weight	Order-No.
1.3 kg	009.539.00



Manhole-cover lifting tong galvanized

Weight	Order-No.
5.5 kg	009.536.00



Manhole-cover lifting tongs with triangular support

Weight	Order-No.
11.0 kg	009.537.00



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Accessories for Cable Laying in Ducts

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Universal manhole-cover lifter, galvanized

Ensures quick and easy lifting of triangular, square or round manhole covers. Depending on the type of cover, the lifting grips are hooked into the appropriate holes in the cover, the jack is turned down until the load is relieved from the wheels and the grips hold the cover securely. The jack is then turned up, which will loosen the cover and lift it until the wheels touch the ground and the jack is free. Now the cover may be pushed away.

The universal lifter has to be used pairwise!



Technical Data: (in transport position)

Length:	500 mm
Width:	500 mm
Height:	700 mm
Weight:	17 kg
Lifting height:	200 mm
Order-No.	009.538.00



Folding guards

consisting of 4 elements

Area covered	Weight	Order No.
Length x Width x Height 1000 x 1000 x 800 mm	25 kg	009.659.00

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



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Duct brush with plastic bristles

Duct-Ø	Weight	Order-No.
97 mm	1.2 kg	009.650.00
117 mm	1.4 kg	009.650.10
146 mm	2.0 kg	009.650.20



Duct brush with steel bristles and left spiralled

Duct-Ø	Weight	Order-No.
98 mm	1.0 kg	009.652.10



Pipe file

Duct-Ø	Weight	Order-No.
95 mm	7.4 kg	009.654.00



Glass fibre rod with a strand of copper

Length	Rod-Ø	Cage-Ø	Weight	Order-No.
50 m	9 mm	600 mm *1	12 kg	009.468.50
100 m	9 mm	1000 mm *2	28 kg	009.468.60
100 m	11 mm	1000 mm *2	35 kg	009.468.70
150 m	11 mm	1000 mm *2	43 kg	009.468.80
200 m	11 mm	1000 mm *2	50 kg	009.468.90



*1 = standing cage

*2 = wheel moveable cage

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



Accessories for Cable Laying in Ducts

Cable Laying Machinery

Pipe Renewal Winches

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Glass fibre rod spooled in a galvanized wheel movable cage, completed by starting / ending junctions, spinner and shackle



Length	Rod-Ø	Cage-Ø	Weight	Order-No.
60 m	9 mm	800 mm	18 kg	009.446.00
80 m	9 mm	800 mm	20 kg	009.447.00
100 m	9 mm	1000 mm	28 kg	009.448.00
120 m	9 mm	1000 mm	30 kg	009.449.00
120 m	11 mm	1000 mm	37 kg	009.450.00
150 m	11 mm	1000 mm	43 kg	009.451.00
200 m	11 mm	1000 mm	50 kg	009.452.00
250 m	11 mm	1000 mm	58 kg	009.453.00
300 m	11 mm	1000 mm	65 kg	009.454.00
300 m	15 mm	1500 mm	119 kg	009.457.50
400 m	15 mm	1500 mm	147 kg	009.457.60

Glass fibre rod spooled in a galvanized cage, standing design, completed by starting / ending junctions and spinner, 9 mm with shackle



Length	Rod-Ø	Cage-Ø	Weight	Order-No.
30 m	9 mm	600 mm	10 kg	009.445.00
40 m	9 mm	600 mm	11 kg	009.445.10
50 m	9 mm	600 mm	12 kg	009.445.20
60 m	9 mm	600 mm	13 kg	009.445.30
70 m	9 mm	600 mm	14 kg	009.445.40
80 m	9 mm	600 mm	15 kg	009.445.50
30 m	6 mm	600 mm	6.8 kg	009.444.50
40 m	6 mm	600 mm	7.2 kg	009.444.55
50 m	6 mm	600 mm	7.8 kg	009.444.60
60 m	6 mm	600 mm	8.3 kg	009.444.65
70 m	6 mm	600 mm	8.9 kg	009.444.70
80 m	6 mm	600 mm	9.4 kg	009.444.75

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



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Accessories for Cable Laying in Ducts



Cable Laying Machines

Pipe Renewal Winches

Asphalt Recycler

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Glass fibre rod spooled in a galvanized horizontal cage,

Length	Rod-Ø	Cage-Ø	Weight	Order No.
30 m	6 mm	550 mm	5.8 kg	009.444.00
40 m	6 mm	550 mm	6.2 kg	009.444.05
50 m	6 mm	550 mm	6.8 kg	009.444.10
60 m	6 mm	550 mm	7.3 kg	009.444.15
70 m	6 mm	550 mm	7.9 kg	009.444.20
80 m	6 mm	550 mm	8.4 kg	009.444.25



Glass fibre rod spooled in a galvanized cage, standing design, completed by starting / ending junctions and eye bolt

Length	Rod-Ø	Cage-Ø	Weight	Order No.
20 m	4.5 mm	330 mm	4.8 kg	009.443.00
30 m	4.5 mm	330 mm	5.0 kg	009.443.10
40 m	4.5 mm	330 mm	5.2 kg	009.443.20
50 m	4.5 mm	330 mm	5.4 kg	009.443.30
60 m	4.5 mm	330 mm	6.0 kg	009.443.40
70 m	4.5 mm	330 mm	6.4 kg	009.443.50
80 m	4.5 mm	330 mm	6.8 kg	009.443.60



Glass fibre rod „Mini-Flex“

completed by container, flexible grips, spinner, starting junctions, pliers and glue

Length	Rod-Ø	Weight	Order No.
20 m	3 mm	1.2 kg	009.456.00
30 m	3 mm	1.3 kg	009.456.10
50 m	3 mm	1.6 kg	009.456.20



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Accessories for Cable Laying in Ducts

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Starting spinner with shackle

Rod- Ø	Order-No.
4.5 mm	009.470.70
6 mm	009.470.20
9 mm	009.482.00
11 mm	009.482.00



Starting roller

Rod- Ø	Order-No.
6 mm	009.470.30
9 mm	009.487.00
11 mm	009.487.00



Coupling joint for transmitter

Rod- Ø	Order-No.
9 -15 mm	009.479.00



Coupler device - Rod-Ø 9-

Inner pipe Ø	Order-No.
46 mm	009.489.20
100 mm	009.489.30



Roller device for wheel mobile cage

Rod- Ø	Order-No.
9 -15 mm	009.477.00



Coupling swivel

Order-No.	009.485.00
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Starting bushing

Rod-Ø	Order-No.
4,5 mm	009.470.50
6 mm	009.470.00
9 mm	009.484.00
11 mm	009.481.00
15 mm	009.481.10



Repair bushing

Rod-Ø	Order-No.
4,5 mm	009.470.60
6 mm	009.470.10
9 mm	009.483.00
11 mm	009.480.00
15 mm	009.480.10



Special glue
for repair bushing and/or
starting bushing

Order-No.	009.486.00
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Specifications are subject to change without notice. Output details are depending on use conditions.



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Stringing Gun EZ 100

Easy and trouble-free stringing or sucking with the EZ.100
Conduit diameter: 50 - 150 mm
Standard-Set : Power Source 230V/10A

Order-No. 009.930.00

The advantages:

- big time-savings during cable pulling
- compact dimensions allows excellent accessibility
- simple operation of the machine
- string roll of approx. 900 m
- double functionality blowing and sucking mode
- calibration is no longer necessary

Max. strain	Order-No.
24 kg	009.943.00
220 kg	009.944.00

Blow up to 900 m tube length within 3 minutes!



EZ 100 in case



EZ 100 in use

Accessories EZ 100



Shuttle

Composed of an axle, 2 black and 4 coloured discs



Sigma

Intake socket with a ring made of foam



Adapter black plus

with a special nozzle for small duct inner diameter of 25 - 50 mm

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



Accessories for Cable Laying in Ducts

Cable Laying Machinery

Pipe Renewal Winches

Asphalt Recycler

Accessories



Basic inserting dev. without spout

galvanized

Weight: 14.5 kg

Order No.: 009.491.20



guiding bend for manholes

galvanized

Weight: 17 kg

Order No.: 009.495.70

PLEASE NOTE: Do not forget to order suitable spout!

Spout for:	Inner duct Ø	Weight	Order No.
009.491.20	100 mm	2.5 kg	009.491.31
	120 mm	3.5 kg	009.491.34
	150 mm	4.5 kg	009.491.40



Cable drawing head

Max. cable-Δ	Max. Δ conductor	Weight	Order No.
48 mm	20 mm	2.0 kg	009.560.00
65 mm	32 mm	2.4 kg	009.561.00
80 mm	46 mm	3.5 kg	009.562.00



Split cable protection bend

with clamping device

Weight: 3.5 kg

Order-No.: 009.500.00

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



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Cable protection bend

without stop for inner duct dia. 100mm
Weight: 1.9 kg

Order No.: 009.502.00



Cable protection bend

with stop and handle
Weight: 2.5 kg

Order No.: 009.503.00



Cable protection bend

for the rim of manhole, pivoted and tiltable
Weight: 7.5 kg

Order No.: 009.506.00



Guide roller with angled base

pivoted for the rim of manhole
Weight: 16 kg

Order No.: 009.509.00



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



Accessories for Cable Laying in Ducts

Cable Laying Machinery

Pipe Renewal Winches

Asphalt Recycler

Accessories



Anti-twist Swivel

with slide bearing, made of aluminium

Max. pulling force	Diameter	Weight	Order No.
5 kN	20 mm	0.08 kg	009.564.00
25 kN	30 mm	0.25 kg	009.565.00
35 kN	45 mm	0.55 kg	009.566.00
			<i>009.566.00 incl. shackle</i>



Anti-twist Swivel

with slide bearing, straight version galvanized steel

Max. Pulling force	Diameter	Weight	Order No.
4 kN	12 mm	0.05 kg	009.568.00
30 kN	32 mm	0.50 kg	009.568.10
60 kN	45 mm	1.30 kg	009.568.20
110 kN	60 mm	3.00 kg	009.568.30
180 kN	60 mm	3.90 kg	009.568.40



Steel wire sling

Dia. Steel Wire	Dia. Sling	Weight	Order No.
4 mm	200 mm	0.10 kg	107.135.00
10 mm	450 mm	0.65 kg	107.136.00



Cable slip grease

Order-No.
Barrel 15Kg 117.050.01
Barrel 23Kg 117.050.00

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



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Auxiliary rope winch Type 30/11

for blowing-in of auxiliary ropes

Technical Data:

Pulling force:	3 kN
Rope speed:	0 - 72 m/min.
Rope-Ø:	4 mm
Rope length usable:	1100 m
Drive:	Mechanical
Engine:	4 kW, 4-stroke, petrol
Fuel:	Regular petrol
Length:	1100 mm
Width:	650 mm
Height:	800 mm
Weight:	215 kg

Order-No. 007.950.00



Plug, slit

for rope dia. of 4 mm,
Other rope dia. on request.

Inner duct-Ø	Weight	Order-No.
26 - 29 mm	0.44 kg	009.532.00
33 - 36 mm	0.58 kg	009.532.10
40 - 43 mm	0.67 kg	009.532.20
50 - 53 mm	0.85 kg	009.532.50
97 - 103 mm	1.46 kg	009.532.30
107 - 118 mm	1.95 kg	009.532.40
145 - 160 mm	2.50 kg	009.532.60



Sleeved piston with plastic collar

Other sizes upon request

Inner duct-Ø	Weight	Order-No.
28 mm	0.05 kg	009.760.00
35 mm	0.06 kg	009.761.00
40 mm	0.07 kg	009.762.00
45 - 47 mm	0.15 kg	009.763.00
73 - 76 mm	0.28 kg	009.764.00
89 - 91 mm	0.30 kg	009.765.00
98-101 mm	0.50 kg	009.766.00
102-104 mm	0.60 kg	009.767.00
109-112 mm	0.65 kg	009.768.00

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



Accessories for Coaxial and Fibre-Optic Cable Laying

Cable Laying Machinery

Pipe Renewal Winches

Asphalt Recycler

Accessories



Spong ball piston

Other sizes upon request.

Inner duct-Ø	Weight	Order No.
45- 55 mm	0.20 kg	009.755.30
50- 60 mm	0.22 kg	009.755.35
60- 70 mm	0.26 kg	009.755.40
70- 90 mm	0.30 kg	009.755.45
80-100mm	0.34 kg	009.755.50
100-120mm	0.55 kg	009.755.55
120-140mm	0.70 kg	009.755.60



Parachute for blowing-in

Inner duct-Ø	Weight	Order-No.
50 – 100 mm	0,087 kg	009.754.60
100 – 150 mm	0,113 kg	009.754.70
150 – 200 mm	0,199 kg	009.754.80



Drawing-head for multiple tubes

For inner duct-dia. 28 and 35 mm (two units each)

Weight: 2.5 kg

Order-No.: 009.541.00



Funnel-shaped insertion device for multiple tubes

Flexible hose, length: 3m

Weight: 15 kg

Order-No.: 009.542.00

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



Bagela

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Accessories for Cable Laying Cable Pulling Grips



Cable Laying Machines

Pipe Renewal Winches

Asphalt Recycler

Accessories

Cable pulling grips made of galvanized steel wire

With 1 eyed thimble and pressed clamp, open at one end. Different types upon request.

Diameter mm	Length mm	Weight kg	Order-No.
8-15	1250	0.4	009.599.00
15-20	1250	0.4	009.600.00
20-30	1250	0.5	009.601.00
30-40	1250	0.5	009.602.00
40-50	1250	1.0	009.603.00
50-60	1250	1.2	009.604.00
60-80	1500	1.2	009.605.00
80-100	1500	1.3	009.606.00
100-120	1500	1.6	009.607.00
120-150	1500	2.2	009.609.00



Cable pulling grips made of galvanized steel wire

With 2 eyed thimbles and pressed clamps, open at both ends. Different types upon request.

Diameter mm	Length mm	Weight kg	Order-No.
15-20	1250	0.5	009.610.00
20-30	1250	0.6	009.611.00
30-40	1250	0.6	009.612.00
40-50	1250	1.2	009.613.00
50-60	1250	1.3	009.614.00
60-80	1500	1.3	009.615.00
80-100	1500	1.5	009.616.00
100-120	1500	1.9	009.617.00
120-150	1500	2.6	009.618.00



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



Accessories for Cable Laying Cable Pulling Grips

Cable Laying Machinery

Pipe Renewal Winches

Asphalt Recycler

Accessories



Cable pulling grips made of galvanized steel wire

With 2 eyed thimbles and pressed clamps, open type, with two binding strands for subsequent in-braiding.

Diameter mm	Length mm	Weight kg	Order No.
15-20	1250	0.5	009.620.00
20-30	1250	0.6	009.621.00
30-40	1250	0.6	009.622.00
40-50	1250	1.2	009.623.00
50-60	1250	1.3	009.624.00
60-80	1500	1.3	009.625.00
80-100	1500	1.5	009.626.00
100-120	1500	1.9	009.627.00
120-150	1500	2.6	009.629.00



Connecting grips made of galvanized steel wire

Diameter mm	Length mm	Order-No.
10-15	2000	009.700.00
15-20	2000	009.701.00
20-30	2000	009.702.00
30-40	2000	009.703.00
40-50	2000	009.704.00
50-60	3000	009.705.00
60-80	3000	009.706.00
80-100	3000	009.707.00
100-120	3000	009.708.00

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



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Cable connecting grips, made of galvanized steel wire

With 1 thimble and pressed clamp, open at both ends.

Diameter mm	Length mm	Order-No.
10-15	700	009.710.00
15-20	700	009.711.00
20-28	700	009.712.00
28-35	700	009.713.00
35-45	700	009.714.00
45-55	700	009.715.00
55-65	700	009.716.00

Cable connecting grips, made of galvanized steel wire

With 2 thimbles and pressed clamps, open at both ends.

Diameter mm	Length mm	Order-No.
10-15	700	009.720.00
15-20	700	009.721.00
20-28	700	009.722.00
28-35	700	009.723.00
35-45	700	009.724.00
45-55	700	009.725.00
55-65	700	009.726.00

Upon request:

Cable grips made of PVC-coated steel wire or made of PVC, fibre optic cable pulling grips Grips for overhead line construction, made of galvanized steel wire, with 1 thimble, open at one end.



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



Accessories for Industrial Cable Laying

Cable Laying Machinery

Pipe Renewal Winches

Asphalt Recycler

Accessories



Triple cable pulling grips made of galvanized steel wire With 1 eyed thimble and pressed clamp, open at one end.

Diameter mm	Length mm	Weight kg	Order-No.
20-30	1250	1.8	009.639.00
30-40	1250	1.8	009.640.00
40-50	1250	1.9	009.641.00
50-60	1250	2.0	009.642.00
60-80	1250	2.1	009.643.00



Cable rack roller, open- type

galvanized

Weight: 5.5 kg

Order-No.: 009.590.00



Cable rack roller, closed-type

galvanized

Weight: 6.0 kg

Order-No.: 009.591.00

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



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Cable drum transport devices

Payload (kg)	Max. Drum-diameter (mm)	Max. Drum width (mm)	Weight (kg)	Order-No.
800	1250	930	70	009.660.00



Loading ropes for cable drums (without

Carrying cap./ pair	Rope Ø	Rope length	Weight	Order-No.
6000 kg	20 mm	2000 mm	19 kg	009.692.00
10000 kg	24 mm	2000 mm	29 kg	009.693.00

Quick-action gripping hooks

Load per pair	Drum Bore Ø	Weight	Order-No.
6000 kg	80 - 125mm	7 kg	009.694.00
10000 kg	90 - 140mm	13 kg	009.695.00
16000 kg	125 -140mm	20 kg	009.696.00



Cross-head loading devices for cable drums with two sling ropes

Carrying cap.	Drum width	Drum-Ø	Weight	Order-No.
3000 kg	1200 - 1800 mm	3000 mm	39 kg	009.691.03
5000 kg	1200 - 1800 mm	3000 mm	64 kg	009.691.05
8000 kg	1200 - 1800 mm	3000 mm	98 kg	009.691.08
10000 kg	1200 - 1800 mm	3500 mm	108 kg	009.691.10
12000 kg	1700 - 2500 mm	4000 mm	174 kg	009.691.12
15000 kg	1700 - 2500 mm	4500mm	187 kg	009.691.15
18000 kg	1750 - 2750 mm	4500mm	285 kg	009.691.18
21000 kg	1750 - 2750 mm	4500mm	296 kg	009.691.21



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

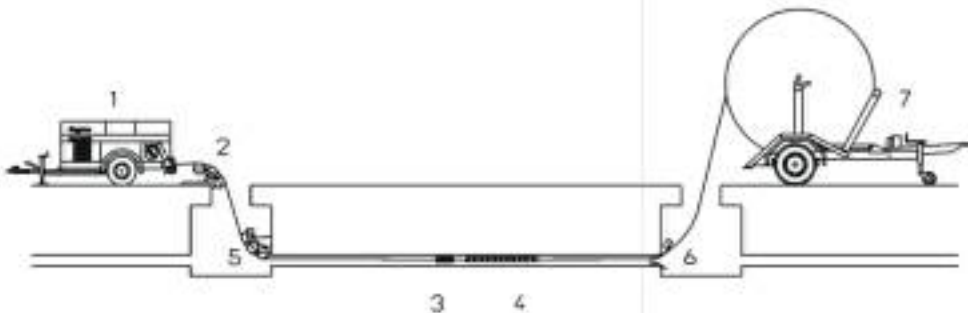
2.) DEVICES FOR CABLE LAYING IN DUCTS



- 1= Cable pulling winch
- 2= Guide roller
- 3= Protection roller
- 4= Protection bend
- 5= Glass fibre rod



- 1= Cable pulling winch
- 2= Guide roller
- 3= Piston
- 4= Plug
- 5= Rope winch
- 6= Compressor



- 1= Cable pulling winch
- 2= Triple roller
- 3= Anti-twist device
- 4= Pulling grip
- 5= Entrance device
- 6= Protection bend
- 7= Cable trailer

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



