

BECK®

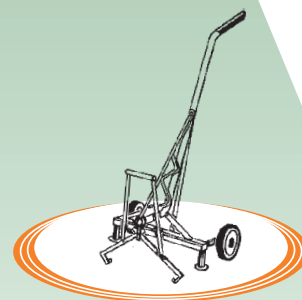
*Manhole and sewer equipment
Manhole rehabilitation*

Manhole cover
lifting devices
and shaft accessories



Issue 2006

The right device
for every cover!



Overview (Selection)



Extract from the accident prevention regulations: UVV § 34 (2)

Suitable tools must be provided by the contractor for the safe raising and lowering of manhole covers, and these must be used by the insured person.
 Suitable tools are, for instance, cover lifting devices.

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We reserve the right to make changes - All details and illustrations are without obligation!

Basic Devices (without tools) *(protected by law)*

- The proven professional device for safe and effortless "single-person operation"
- Saving your strength and back (in accordance with the safety regulations and UVV).
- Power transfer to support feet to ensure the maximum lifting power when initially releasing the cover with 2-stage transfer.
- For problem-free lifting and targeted use on all manhole covers up to max. Ø and distance between axes (when using the respective accessories, see page 5)

With plug-on or folding handle or and suitable location of all lifting gear.



Manhole cover lifter HR for round covers

Lifting force:	approx. 600 kg
with additional spindle	approx. 1000 kg
Lifting height	approx. 20 cm
Device height, complete	185 cm
Weight	approx. 17/19 kg
Device height without plug-on handle	115 cm
Device height without folding handle	43 cm

Article name:	DH HR
Device width	94 cm
Distance between axes	70 cm

Version with folding handle: DH-HR/KG

Article name:	DH-HR/B
Device width	140 cm
Distance between axes	90 cm

Version with folding handle: DH-HR/KG



Manhole covers lift truck HK for cable shaft covers, rectangular and square manhole covers as well as all current round covers up to max. Ø 115 cm.

Article name	DH-HK
Device width	140 cm
Distance between axes	115 cm

Version with folding handle: DH-HK/KG



Additional lifting spindle only for HR, HK and HSA

(not for use with normal grips DH-EW/05)
 For powerful breaking away of seized or frozen on covers

Article name:	
for HR and HAS:	DH-ZU/11-HR
Weight	approx. 6 kg
Length	38 cm

for HK:	DH-ZU/11-HK
Weight	approx. 6 kg
Length	58 cm



Folding handle version KG

Transport and storage even more space saving and simpler!
 It would be best if you ordered the version with the folding handle right from the start!

Article name: see above

Basic Devices and accessories (protected by law)



Allround cover lifter

The complete, light and collapsible manhole cover lift truck

This universal tool can be used to lift, transport and re-install all currently used shaft covers

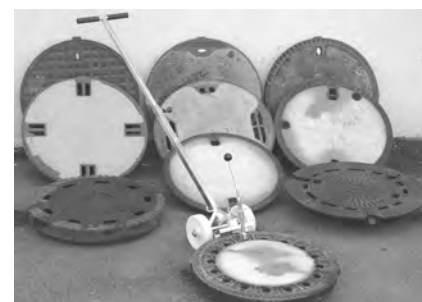
- simple handling
- universal lifting tool for circular and elongated holes, slots, lifting brackets etc.
- optimal power transfer
- space saving
- saves your back
- multiple adjustment



Article name:

DH-AR

Lifting force	approx.	150 kg
Length, min.	approx.	100 cm
Length, max.	approx.	150 cm
Device width		32 cm
Construction		galvanised
Weight	approx.	8.5 kg



Accessory only for AR

Lifting out tool for rainwater gratings

from 16 mm wide slots

Article name:

DH-AR/ZU-RO

Weight	approx.	0.6 kg
Length	approx.	45 cm
Construction		galvanised



Manhole covers lifter HSA for road drains and all current cast gratings and round covers up to max. Ø 70 cm

Complete with grips for standard cast gratings and rotating hook for dirt tank

Special for lifting cast gratings and dirt tanks in line with kerbstones without directly inhibiting the traffic

1-hand operation
no bending or kneeling



Article name:

DH-HSA

Lifting force	approx.	400 kg
with additional spindle	approx.	800 kg
Lifting height	approx.	20 cm
Device height compl.		185 cm
Device width		46 cm
Weight	approx.	23 kg
Device height without plug-in handle		115 cm
Device height without folding handle		43 cm

Version with folding handle **DH-HAS/KG**



Accessories only for HSA

Grips for gratings with high flange

without high edges
mostly used for older gratings

Lifting bar for dirt baskets

Open size approx. 80 cm

Article name:

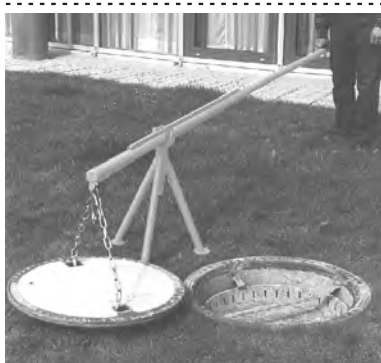
DH-EW/HSA

Weight	approx.	2 kg
Jaw size	approx.	11 cm

Article name:

DH-ZU/SA

Weight	approx.	3.5 kg
Opening size	approx.	80 cm



Lifting beam with 3-point foot

- complete with 3 hooks and chains
- for swinging out
- for round and angular covers
- up to an outside dimension of 90 cm
- weight of cover up to approx. 250 kg

Article name:

DH-DF

Lifting force	approx.	300 kg
Lifting height	approx.	20 cm
Device length extended		180 cm
Device length		310 cm
Device width		40 cm
Weight	approx.	20 kg



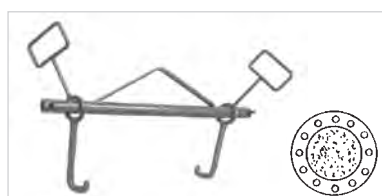
Lifting Gear for HR and HK



Normal grips

Universal standard tool for round covers with round or oval openings and slots. Adjustable in that the respective cover diameter of the attachment bolts is fixed on the basic device. Effortless 1-hand operation, no bending or kneeling (Do not use with additional spindle!)

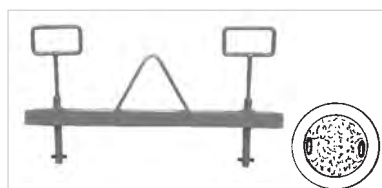
Article name: **DH-EW/05**
 for cover Ø 50 - 70 cm
 on basic device
 HR, HR/B and HK
 Weight approx. 3kg



Lifting gear with circular hooks

for covers with round or oval openings Of Ø min. 32 mm, for heavy weights, especially when used with additional spindle

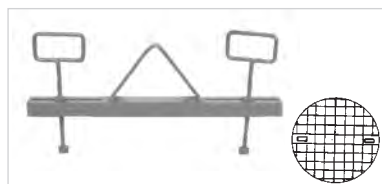
Article name: **DH-EW/06**
 for cover Ø 50 - 75 cm
 Weight approx. 4 kg



Lifting gear with turning handles

for covers without ventilation holes

Article name: **DH-EW/08**
 for covers Ø 50 - 75 cm
 Weight approx. 5 kg



Lifting gear with small turning handles

For cast covers on water pipes with small turning handles holes

Article name: **DH-EW/09**
 for covers Ø 40-75 cm
 Weight approx. 5 kg



Lifting beam with brackets for suspension tools (without tools)

Suspension tools: see page 7

Article name: **DH-EW/10-HR**
 for covers Ø 50 - 85 cm
 on basic device HR
 Length approx. 70 cm
 Weight approx. 4 kg

Article name: **DH-EW/10-HK**
 for cover Ø 50 - 110 cm
 on basic device HR/B and HK
 Length approx. 100 cm
 Weight approx. 4 kg

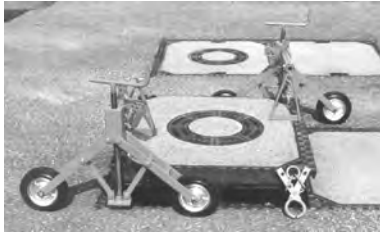
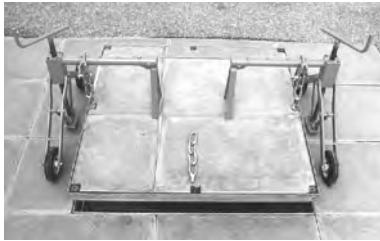


Internal punch pliers

for covers with a centre hole as lifting opening

Article name: **DH-EW/12**
 Weight approx. 1 kg

Basic Devices DH 18 (protected by law)



All-purpose cover lifter DH 18b
 Ideal for all covers up to approx. 400 kg
 dead weight

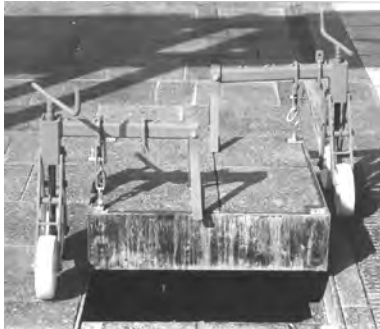
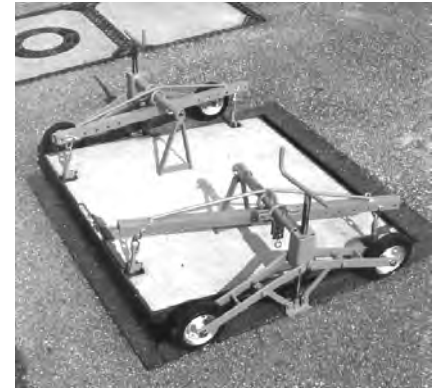
with brackets for suspension tools

- **Breaking away force approx. 2600 kg**
- **Patented principle**
- **Spindle with support plate for initial break-away of extremely tight covers with several times the weight of the cover**

Article name **DH-AZ/18b**

Initial break-away Force	approx. 2600 kg
Lifting power	approx. 1200 kg
Lifting height	approx. 27 cm
Device height	65 cm
Device width or wheels, top	45 cm
Device length	89 cm
Weight	approx. 14 kg

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All-purpose cover lifter DH 18c
 ideal for all covers up to approx. 2400 kg
 dead weight

With brackets for suspension tools

- **Breaking away force approx. 5000 kg**
- **Heavy-duty wheels**
- **Patented principle:**
 Spindle with support plate for initial break-away of extremely tight covers with several times the weight of the cover

Article name **DH-AZ/18b**

Initial break-away force	approx. 5000 kg
Lifting power	approx. 2400 kg
Lifting height	approx. 30 cm
Device height	70 cm
Device width or wheels, top	50 cm
Device length	83 cm
Weight	approx. 17 kg



Suspension Tools *for lifting beams and DH 18 (protected by law)*



Beams for DH 18

Each with 2 universal joint turning handles

Article name for DH AZ/18b **DH-WZ/6b**

For DH AZ/18c **DH-WZ/6c**

Length approx. 93 cm
 Weight approx. 11 kg



Claw with locking device

Article name
 Material Ø 14 mm **DH-WZ/ZA 14**
 (Standard)

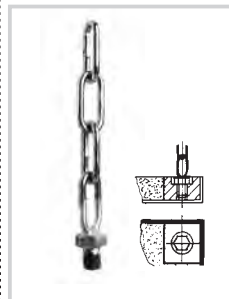
Material Ø 12 mm **DH-WZ/ZA 12**
 (for smaller holes)
 Weight approx. 2 kg



Wire rope loop

For especially tight covers with hole Ø min. 14 mm

Article name: **DH-WZ/7**
 Weight approx. 0.5 kg



Threaded link

Article name
 Threaded link M 8 **DH-WZ/M8**
 Threaded link M 10 **DH-WZ/M 10**
 Threaded link M 12 **DH-WZ/M12**
 Threaded link M 16 **DH-WZ/M16**
 Threaded link M 20 **DH-WZ/M20**
 Threaded link M 24 **DH-WZ/M24**
 Threaded link M8-M24 approx. 1 kg



Chain loop

For especially tight covers with hole Ø min. 30 mm

Article name **DH-WZ/8**
 Weight approx. 1.5 kg



Hook with chain

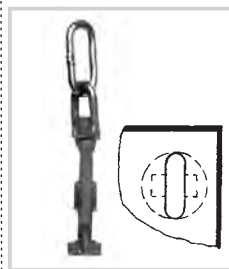
Article name
 Material Ø 16 mm **DH-WZ/HA16**
 reinforced version
 Material Ø 20 mm **DH-WZ/HA20**
 Weight approx. 1 kg



Interlocking claw

for lifting out brackets

Article name **DH-WZ/9**
 Weight approx. 2 kg



Turning handle with locking device

Article name: **DH-WZ/DS**
 Weight approx. 1 kg



ENO interlocking tool

also for round holes (hole Ø min. 32 mm) and lifting brackets

Article name: **DH-WZ/ENO**
 Weight approx. 3 kg

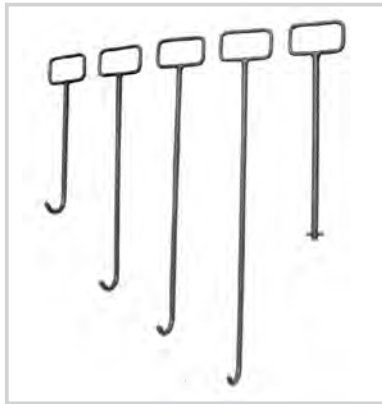


Key with wedge

For covers with min. hole Ø 16 mm to max. Ø 25 mm

Article name: **DH-WZ/SK**
 Weight approx. 1 kg
 Key Ø 15 mm

Manual Lifting Gear



Hand hooks

Article name:

Length 40 cm

DH-HH/40

Length 60 cm

DH-HH/60

Length 70 cm

DH-HH/70

Length 80 cm

DH-HH/80

Version:

galvanised steel

Weight

approx. 1 kg

Turning handle

Article name:

DH-HH/DS

Version:

galvanised steel

Weight

approx. 1 kg

Length

approx. 50 cm



Hand grips for cable shafts

Article name:

DH-HH/ZA14

Version:

galvanised steel

Weight

approx. 2 kg



Universal hand grips with hook

- For all current shaft covers, gratings and dirt collectors

Article name:

DH-HH/ZA15

Version:

galvanised steel

Weight

approx. 2 kg



Universal hand grips with hook and break-away lever

- for initial break-away of tight covers or gratings
- for all current shaft covers, gratings and dirt collecting gratings

Article name:

DH-HH/ZA16

Version:

galvanised steel

Weight

approx. 2,2 kg



Universal Lifting Handles



Universal lifting handle with threaded spindle

Proven over more than 15 years

- power-saving
- simple
- light
- space-saving

- Safe working due to tightening clamp
- Multi-use: turning and height adjustable hook
- Powerful initial break-away of tight covers by fitting the threaded spindle on to the shaft frame

Suitable for

- Shaft covers
- Hydrant shaft covers
- Hydrant caps
- Water slide valve caps
- Gas slide valve caps
- Road drains
- Longitudinal drains
- Gratings



Article name:

DH-AG/1

Length: approx. 95 cm
 Width: appr. 12.5 cm
 Weight: approx. 4 kg
 Version: galvanised steel
 Trapezoidal thread: Tr 16 x 4 mm



DH-AG/ZU1

DH-AG/ZU2

Accessories for AG/1

Additional suspension tool for gullies and cast gratings

Additional suspension tool for small water slide valve or gas caps

Article name:

DH-AG/ZU1

Weight: approx. 0.5 kg
 Version: galvanised steel

Article name:

DH-AG/ZU1

Weight: approx. 0.5 kg
 Version: galvanised steel



Lifting handle for hydrant caps

- power-saving
- simple
- light
- space-saving
- universal

- effortless initial break-away and lifting of tight covers

suitable for:

- Hydrant caps
- Water slide valve caps
- Gas slide valve caps

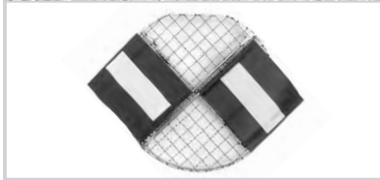
Article name:

DH-AG/Hydrant

Length: approx. 90 cm
 Width: approx. 15 cm
 Weight: approx. 2,3 kg
 Version: galvanised steel



- To protect shaft openings and road drains during aeration, cleaning and flushing work
- Provides the required safety against falling in accordance with directive 98/37/EC (machinery)



Special features:

- for circular shafts and openings, clearance 62.5 cm and smaller as well as road drains
- 2 red / white mountable flags
- 8 independent, downward pointing movable safety devices i.a.w. UVV, fit the various sizes of circular shafts as well as road drains
- walkable, not trafficable

THE ORIGINAL



Universal safety shaft cover grating

Closed

Article name:	RO/01
Outer diameter:	Ø 65.5 cm
Load capacity up to	approx. 100 kg
Weight:	approx. 8 kg
Version:	galvanised steel
Weight:	approx. 8 kg



Universal safety shaft cover grating

With 12 cm wide cut-out

- Features as above, but also:
- for cables and hose ducts.

Article name:	RO/02
Outer diameter:	Ø 65.5 cm
Load capacity up to	approx. 100 kg
Weight:	approx. 8 kg
Version:	galvanised steel
Weight:	approx. 8 kg



Universal safety shaft cover grating

With 12 cm wide cut-out and deflector roller

- for easy and safe conducting and insertion of cables, hoses etc.

Article name:	RO/03
Outer diameter:	Ø 66.5 cm
Load capacity up to	approx. 100 kg
Weight:	approx. 10 kg
Version:	galvanised steel
Weight:	approx. 10 kg



Cover grating

Plain version, sealed

Without displacement lock and flags

Article name:	RO-AG/01
Outside diameter	Ø 65.5 cm
Load capacity up to	approx. 100 kg
Weight:	approx. 6 kg
Version:	galvanised steel
Weight:	approx. 6 kg

Extract from the safety regulations for technical waste water installations GUV 17.8:

5.4.1.1 Every opened entrance, also those not used at the time, must be protected against persons falling in. Suitable safety precautions against falling in, e.g. locked grating to protect against displacement, ...

Anti-Clatter-Rings

- Environmental protection by silencing clattering shaft covers with inserting rings
- Full surface contact for all shaft covers i.a.w. DIN 4290 or DIN 19584



- High-quality, wear-resistant plastic with locating grooves for the best fitting capability and silent cover position
- Resistant against frost and friction as well as indifferent against foreign substances (e.g. de-icing salt, wetness), this special plastic has proven its value over more than 20 years.
- The cost-effective solution providing long service life and the best functionality



Combination rings

For DIN 4290 - 66 cm outside diameter and DIN 19584 68 cm outside diameter

- Suitable for loose installation in shaft frames as well as gluing to the underside of the cover

Article name: **UR-KO-66**
 For DIN 4290 Outside Ø 66 cm

Article name: **UR-KO-68**
 For DIN 19584 Outside Ø 68 cm

Packing unit: Band with 25 rings
Thickness: approx. 2 mm
Weight: approx. 0.2 kg/each



LILA anti-clatter ring

For DIN 4290 - 66 cm outside diameter and DIN 19584 - 68 cm outside diameter

- Easy inlay due to the form stability. The new innovative structure assures an optimal adjustment and a noiseless and secure position of the cover.

Article name: **UR-KO-66**
 For DIN 4290 Outside Ø 66 cm

Article name: **UR-KO-68**
 For DIN 19584 Outside Ø 68 cm

Packing unit: Band with 25 rings
Thickness: approx. 2 mm
Weight: approx. 0.1 kg/each



Shim strips

Should be glued to the frame



Article name: **UR-ST/01**
Packing unit: Roll à 5 m
Thickness: approx. 2 mm
Weight: approx. 0.5 kg



Special glue

Sufficient to glue approx. 25 rings

Article name: **UR-KL/01**
Packing unit: 800 g tin
Weight: approx. 1 kg



Aluminium ring retainer

For approx. 15 shim rings

- Protects against deformation of the rings during storage

Article name: **UR-RH/01**
Weight: approx. 1 kg

Other **BECK**[®] – Products:

- Pipe stoppers
- Pipe and shaft test device
- Bracing Kits
- Shaft frame lifters
- Shaft shutters and rubble plates
- Shaft bedding mortar “EBRALIT[®]”
- Anti-clatter inserts from a bag!
- Shaft sealing bubbles
- Pipe rehabilitation packers

BECK[®]
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Manhole rehabilitation

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