



**SEBA**  
HYDROMETRIE

# Cable Way Installations

## Discharge Measurement in Rivers & Channels

### Key Features:

- Robust and reliable, (TÜV compliant) even under extreme environmental conditions
- Easy mounting
- Stationary and portable installations
- Unit-composed system, individually configurable

### Cable Way Installations Examples



SEBA cable way installation with electric winch SDW-ESM



portable SEBA cable way installation SKA-T



Use with sinker weight



Universal current meter in use



Measuring station



Application with operation terminal



Wir sind zertifiziert

**ISO 9001:2000**

Zertifikat Nr. 01110505

Qualität ist unser Standard

# SEBA cable way installation type SKA

The **SEBA cable way installation SKA** is deployed to measure discharge in rivers and channels. Depending on the kind of waters and the maximum possible current velocity, a suspended current meter equipment, with sinker weights of 25, 50 and 100 kg can be used.

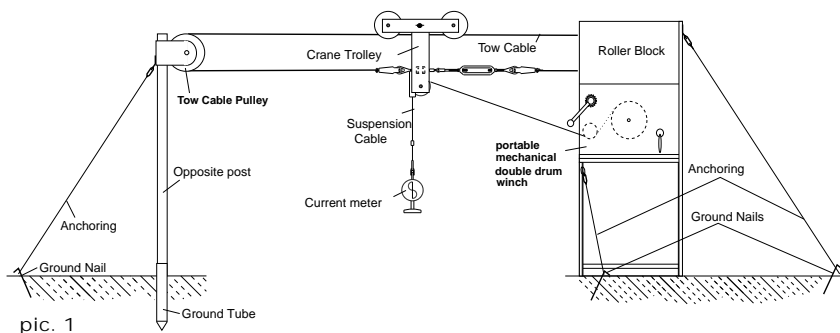
For the different fields of application and the different local conditions, several types of cable way installations are available:

- Type SKA-T: completely portable cable way installation for quick mounting at site (pic. 1)
- Type SKA-S-T: stationary cable way installation with portable double drum winch and crane trolley. (pic. 2)
- Type SKA-S: stationary cable way installation with tension of track- and tow-cable by turn-buckles (pic. 3)
- Type SKA-G: stationary cable way installation with tension of track- and tow-cable by weights (pic. 4)
- Type SKA-H: stationary cable way installation with hydraulic tension of track-cable and tension of tow-cable by turn-buckles. (pic. 5)

By means of the double drum winch, the meterbody can be moved horizontally and vertically. The corresponding position of the meterbody can be determined by means of the two counters. So a determination of current velocities from river banks is possible.

Due to the solid construction of the stationary cable way installation, a safe operation is possible even under extreme environmental conditions. (flood, extensive span etc).

## SKA-T (portable)



pic. 1

### Completely portable type

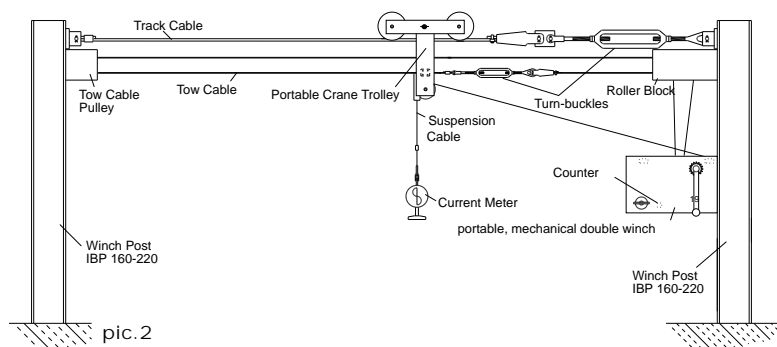
with double drum winch  
Type SDW-T

Max. span: 50 m

Max. load: 50 kg

for use with sinker weight of max.  
25 kg

## SKA-S-T



pic. 2

### Stationary cable way installation

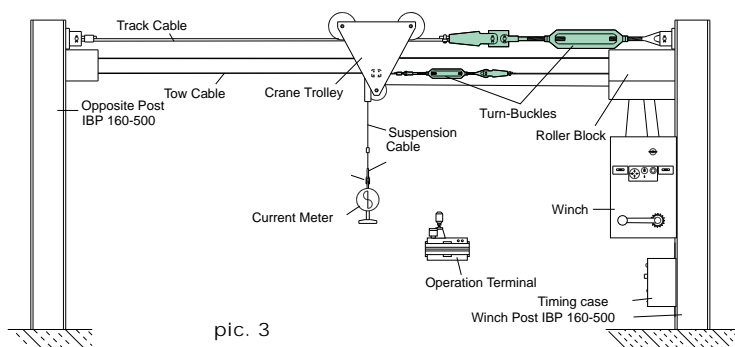
incl. portable double drum winch Type SDW-T or SDW-TE and turn-buckles with detachable crane trolley.

Max. Span: 50 m

Max. Load: 100 kg

for use with sinker weight of max.  
50 kg

## SKA-S



pic. 3

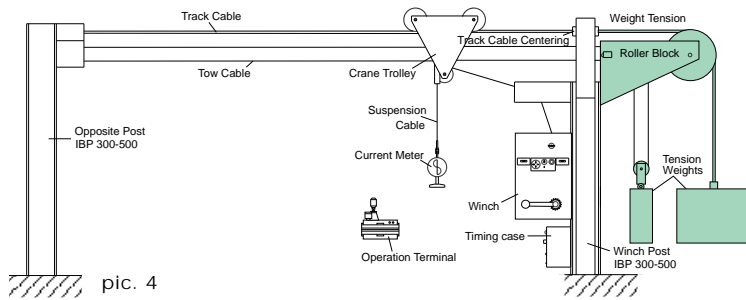
### Stationary cable way installation

with turn-buckles and double drum winch Type SDW-M or SDW-ESM.

Max. Span: 250 m

Max. Load: 300 kg

or use with sinker weight of max.  
100 kg



pic. 4

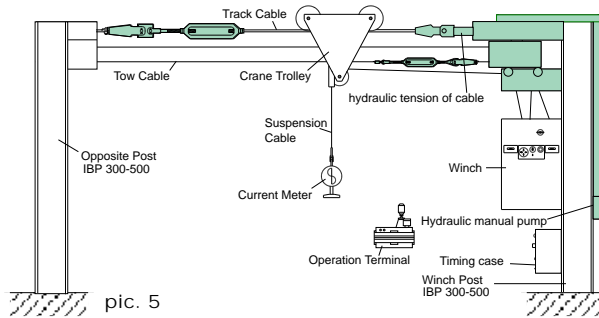
### Stationary Cable Way Installation

Tension with weights and double drum winch type SDW-M or type SDW-ESM.

Max. Span: 250 m

Max. Load: 150 kg

to be used with sinker weight max. 100 kg



pic. 5

### Stationary Cable Way Installation

Hydraulic tension and double drum winch type SDW-M or SDW-ESM.

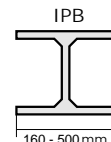
Max. Span: 250 m

Max. Load: 300 kg

to be used with sinker weight max. 100 kg

## Main Components of a cable way installation

- Double Drum Winch SDW: built with modern non-corrosive parts as a unit-composed system  
Following types are available:
  - SDW-T Portable, mechanical double drum winch (manual operation)
  - SDW-TE Portable, electrical double drum winch with motor (24V)
  - SDW-M Mechanical double drum winch (manual operation)
  - SDW-ES Electrical double drum winch with infinitely variable motor
  - SDW-ESM Electrical double drum winch with infinitely variable motor and magnet (230V)
- Roller Block: for operation of the tow-cable with 2 ½-fold cable tension, sliding of the cable can be prevented
- Tow Cable Pulley: for mounting at opposite post
- Track Cable Fixing: for winch and opposite post
- Crane Trolley: solid construction with gummed rollers; with ball bearings
- Track cable: Ø 20 - 24 mm, zinc steel cable acc. to DIN 3060 (not necessary for type SKA-T).
- Tow Cable: Ø 6 mm, zinc steel cable.
- Cable posts: acc. to span and usage of the cable way installation from IPB 160 - 500.



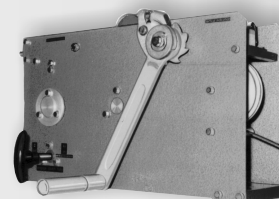
### Portable, mechanical SEBA Double Drum Winch Type SDW-T

Due to the light material and the small dimensions, fixing and dismantling at site is possible without problems. Changing from horizontal to vertical operation (lifting and lowering) by manual operation of the clutch.

#### Technical Data:

- Distance- and Depths-Counter (4-digits)
- Manual operation with safety clutch

Dimensions: 470 x 130 x 275 mm (L x W x H) without crank  
 Weight: 20 kg  
 Operation Side: right side  
 Max. Load: 100 kg  
 Drum Capacity: max. 60 m suspension cable  
 (other lengths are available as a special version upon request)



pic.6: Portable Double Drum Winch Type SDW-T

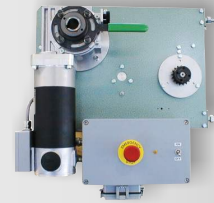


## Portable Double Drum Winch, electrically driven type SDW-TE

Same construction as type SDW-T but with fitted motor. Operation with generator is possible.

### Technical Data:

Electric motor: 0,315kW, 24VDC  
Velocity: 0...31cm/s - depending on load  
Load: 25...100 kg



Pic. 7: portable electrical double drum winch

## Stationary Double Drum Winches

### SDW-M

#### Mechanical, Stationary Double Drum Winch

Switching from horizontal to vertical operation (lifting and lowering) by manual operation of clutch.

#### Technical Data:

Manual operation with safety crank  
Distance- and Depth counter, 5-digits  
Operation side: on request left or right  
Mounting: horizontally or vertically

### SDW-ES

#### Electric, Stationary Double Drum Winch

Same construction as SDW-M, but with fitted motor (pic.8b). In case of power failure, manual operation with safety crank is possible. On request equipped with electrical switching of clutch.

#### Technical Data:

#### Type SDW-ESM

Electric motor 1,5 kW, 230 V AC,  
Infinitely variable velocity anywhere from 0 to approx. 50 cm/s.  
Operation with generator possible.

#### Operation Terminal for SDW-ESM

portable with 7m connection cable to winch available as:

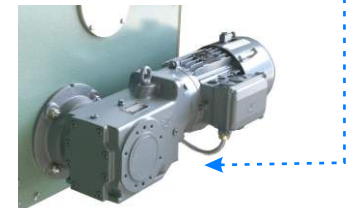
- standard version
- incl. LC-Display,
- incl. LC-Display & integrated counter



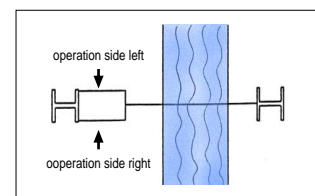
Pic. 10:  
SEBA Operation Terminal



Pic. 8a : Mechanical Double Drum Winch Type SDW-M



Pic. 8b : Type SDW-ESM with motor



Pic. 9: SEBA cable way installations type SKA-S, SKA-G and SKA-H are available with operation side left or right.

## SEBA Drift Indicator

The Drift Indicator is used to determine the drift angle of a suspended current meter equipment. The entire instrument, consisting of monocular, plate with division marks, adjustment screw and angle scale are fixed at the winch, resp. the winch post.



Pic. 11:  
Drift Indicator



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