



## STEMMANN-TECHNIK

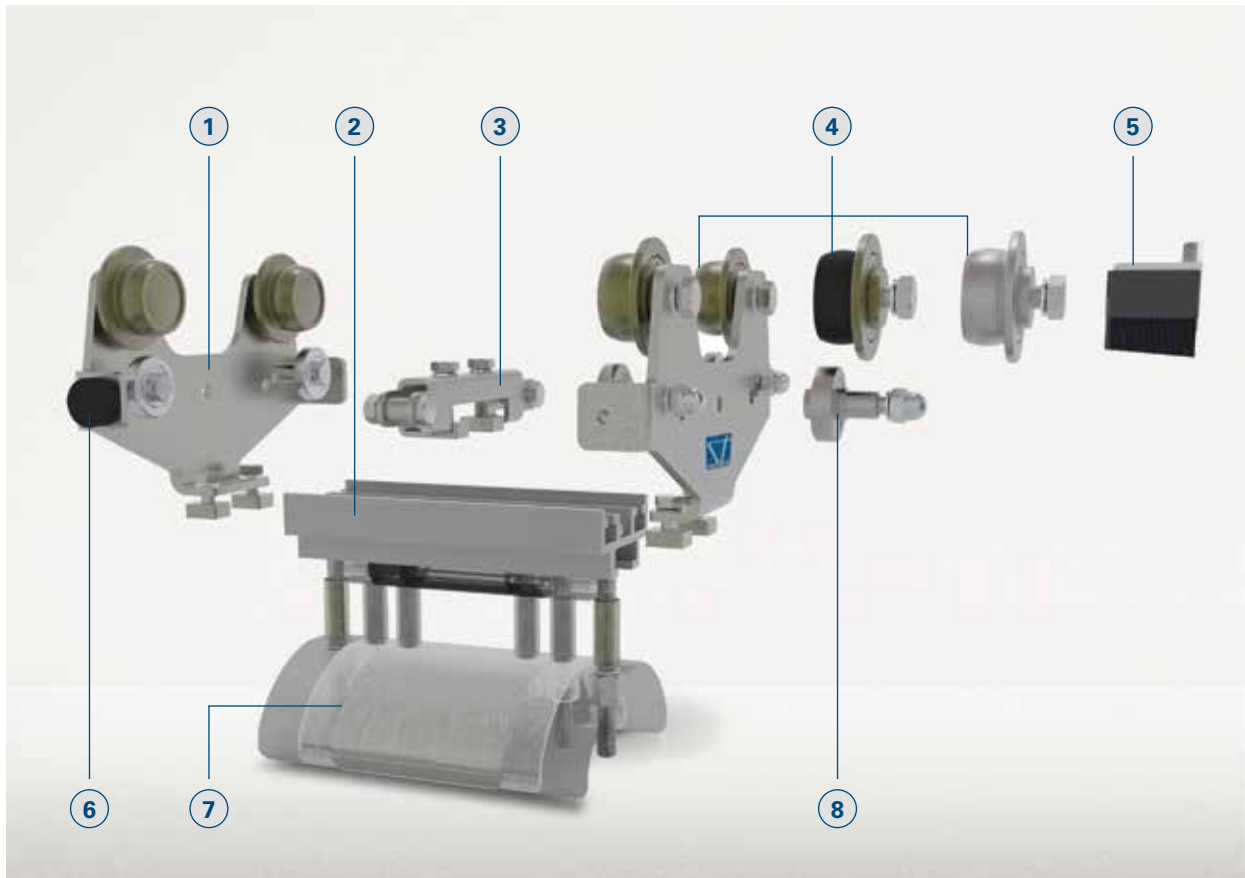
# Cable Trolley, KW80

Our KW80 cable trolley system for i-beam mountings is designed to transport flat and round cables as well as hose packages.

Thanks to the modular design, the KW80 system can be equipped according to customer requirements. The trolleys are adjusted to the applications track beam in our factory.

### TECHNICAL DATA KW80

Travel speed	max. 80 m/min	
Temperature	- 30 °C up to + 80 °C for indoors and outdoors	
Load capacity	max. 600 N (depending on roller type)	
Track beam	I-beam, straight and angled flange (pay attention of dimension „B“)	
Roller material	galvanized flanged roller D = 41/55 mm incl. 2RS ball bearing	
	galvanized flanged roller D = 41/55 mm incl. 2RS ball bearing & PUR coating	
	Niro flanged roller D = 41/55 mm incl. 2RS ball bearing	
Material /coating	steel parts	steel, galvanized incl. thick film passivation
	support profile	aluminium
	fixing material	steel, galvanized
	clamping profile	rubber
	special edition	on request
Main applications	cranes, conveyor & transport systems	



## KW80 COMPONENTS

### ① Lateral part

TYPE A, incl. flanged rollers and buffer

TYPE B, incl. flanged rollers, buffer and galvanized counter roller D = 33 mm

TYPE C, incl. flanged rollers, buffer, galvanized counter roller D = 33 mm and steel rope fixing

### ② Aluminium support profile

### ③ Towing rope fixing

### ④ Flanged rollers for straight and angled flange

TYPE A, galvanized flanged rollers D = 41/55 mm incl. 2RS ball bearing

TYPE B, galvanized flanged rollers D = 41/55 mm incl. 2RS ball bearing & PUR coating

TYPE C, niro flanged rollers D = 41/55 mm incl. 2RS ball bearing

### ⑤ Brush set

### ⑥ Buffer

### ⑦ Supports

Basic size widths, 60 mm / 100 mm / 150 mm

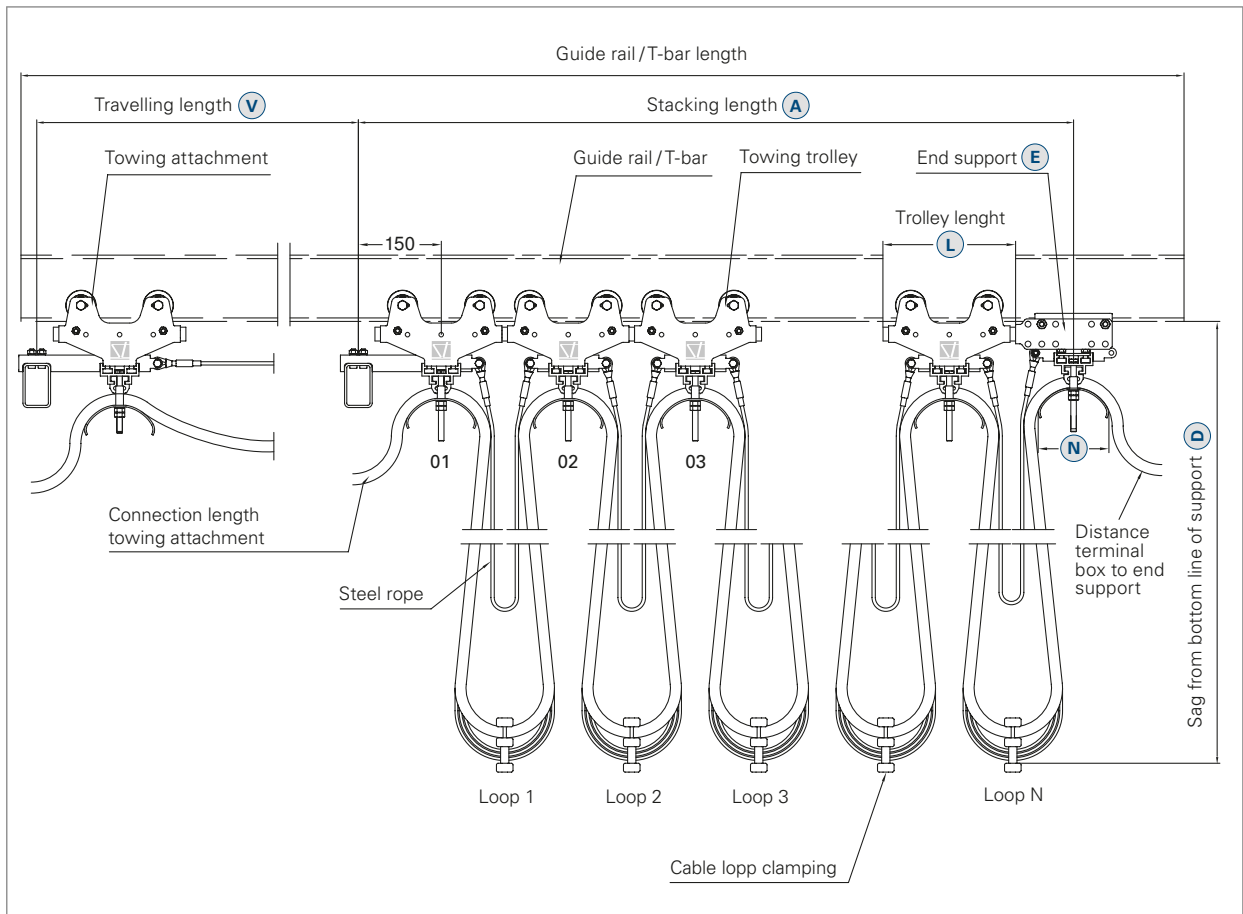
Support radii, 50 mm / 70 mm / 100 mm

Support widths, 98 mm / 140 mm / 190 mm

### ⑧ Counter roller

Coating: galvanized / niro / plastic (polyamide)

**KW80 FESTOON SYSTEM**



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### KW80 FESTOON SYSTEM SET UP

L = Trolley length

V = Travelling length

W = Number of trolleys

D = Sag

A = Stacking length

f = Length plus-factor

### CALCULATING THE TRACK LENGTH

Travelling length (V) + stacking length (A) + 1% plus-factor

### CALCULATING THE STACKING LENGTH

Stacking length (A) = Number of trolleys (W) x Trolley length (L) + end support (E) + 150 mm

Note: For measurement (E) please refer to the table on page 8.

### CALCULATING THE NUMBER OF TROLLEYS

Calculation formula:

$$W = \frac{f \times V}{2 \times D}$$

Always round up the result value.

### CALCULATING THE LENGTH PLUS-FACTOR „f“

Travelling length (v)	Sag (D)	Length plus-factor
< 50 m/min	< 1,25 m	f = <b>1,15</b>
< 50 m/min	> 1,25 m	f = <b>1,1</b>
> 50 m/min	< 1,25 m	f = <b>1,2</b>
> 50 m/min	> 1,25 m	f = <b>1,15</b>

### CALCULATING THE TROLLEY LENGTH „f“

To calculate the trolley length (L) you need to know the minimum bending radiuses (R) of the used cables. The biggest bending radius determines the support radius. For those measurements please refer to the manufacturer information of the cables. You can then determine the trolley length on basis of the support radius from the table on page 5!

### NUMBER OF CARRYING ELEMENTS

A cable festoon system consists of

End support

Number of trolleys

Towing trolley

Note: - Every festoon systems contains an end support.  
- Calculating the number of cable trolleys as described above.  
- If no towing trolley is required; the number of cable trolleys is increasing in accordance.

### CALCULATING THE CABLE LOOP MOUNTING

Number of loops = (W) + 1

Note: The suitable cable clamp, in reference to the cable package, can be taken from the table on page 9.

### TOWING ROPE

For speeds > 50 m/min, travelling length > 30 and weight load > 450 N/cable trolley we recommend to use steel ropes to relieve the cable package!

### NOTES

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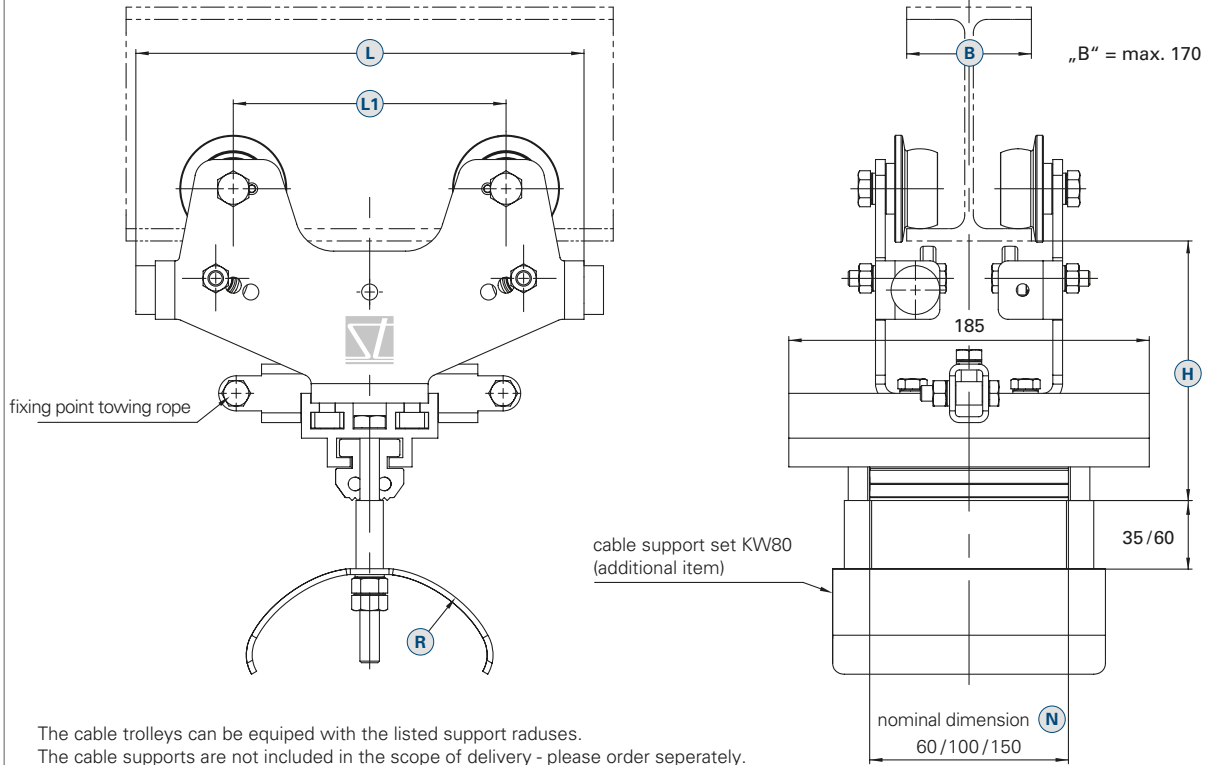


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**KW80 CABLE TROLLEY**



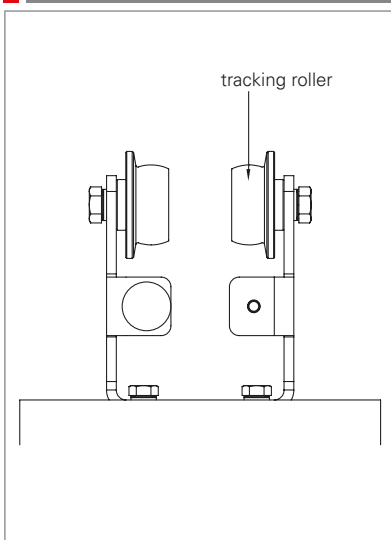
Art.No.	support radius (R)	counter roller	towing attachment	type	roller-version	(L)	(L1)	(H)	max. clamp height
6602833	(R) = 50			A	1	180	90	124	35 ((R) = 50)
6602834		<input checked="" type="checkbox"/>		B					
6602835		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	C					
6602836				A	2				
6602837		<input checked="" type="checkbox"/>		B					
6602838		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	C					
6602842	(R) = 50 up to 70			A	1	230	140	124	60 ((R) = 50) 35 ((R) = 70)
6602843		<input checked="" type="checkbox"/>		B					
6602844		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	C					
6602845				A	2				
6602846		<input checked="" type="checkbox"/>		B					
6602847		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	C					
6602851	(R) = 70 up to 100			A	1	280	190	134	60 ((R) = 70) 35 ((R) = 100)
6602852		<input checked="" type="checkbox"/>		B					
6602853		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	C					
6602854				A	2				
6602855		<input checked="" type="checkbox"/>		B					
6602856		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	C					

### KW80 CABLE SUPPORT SET

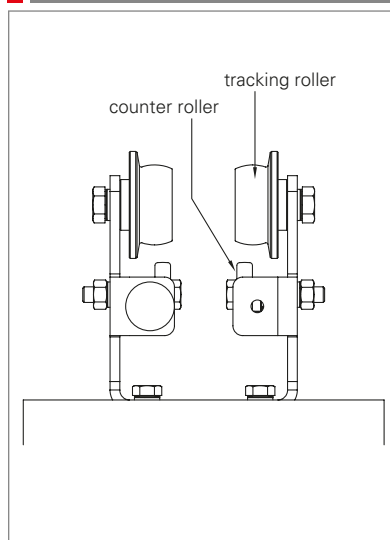
Art.-No.	carrier radius $\text{\textcircled{R}}$	nominal dimension $\text{\textcircled{N}}$	carrier width
6602873	50 mm	60 mm	98 mm
6602874	50 mm	100 mm	140 mm
6602875	50 mm	150 mm	190 mm
6602876	70 mm	60 mm	98 mm
6602877	70 mm	100 mm	140 mm
6602878	70 mm	150 mm	190 mm
6602879	100 mm	60 mm	98 mm
6602880	100 mm	100 mm	140 mm
6602881	100 mm	150 mm	190 mm



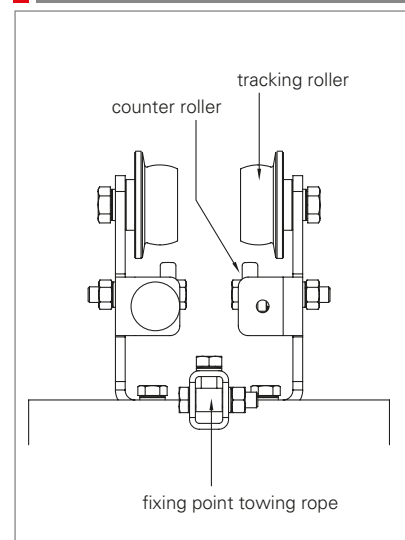
**TYP A**



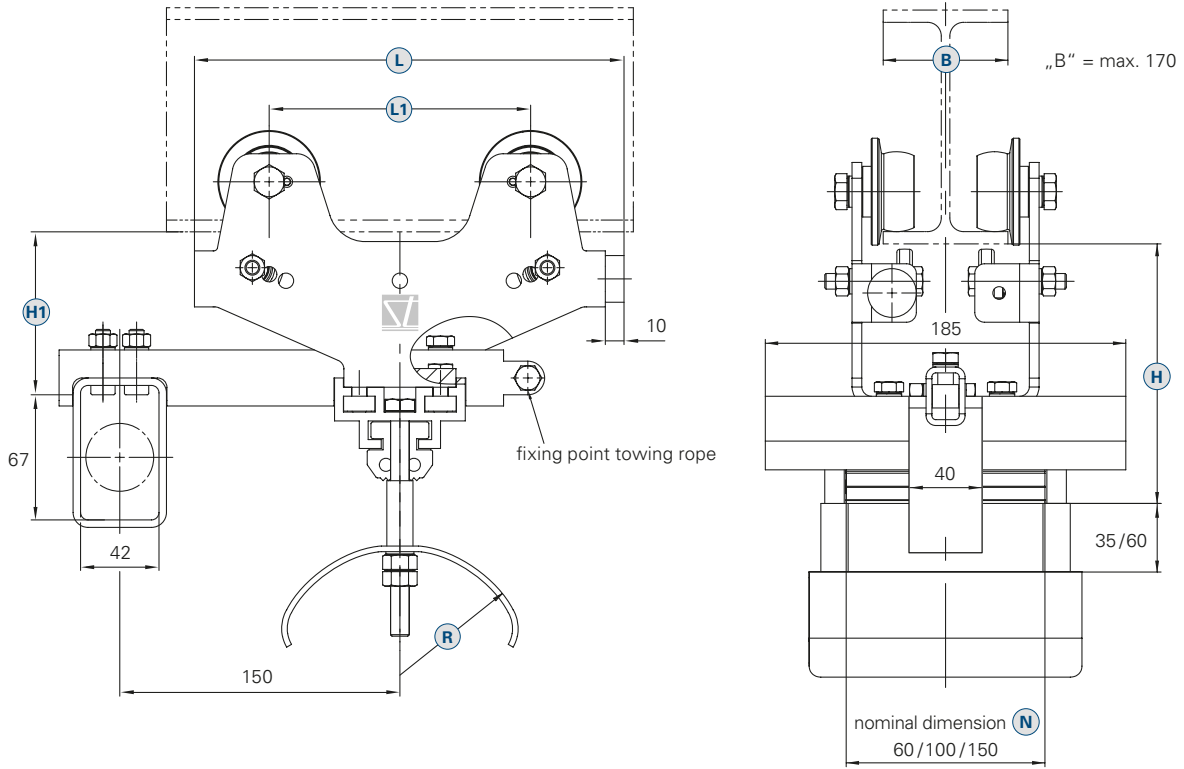
**TYP B**



**TYP C**



**KW80 TOWING TROLLEY**

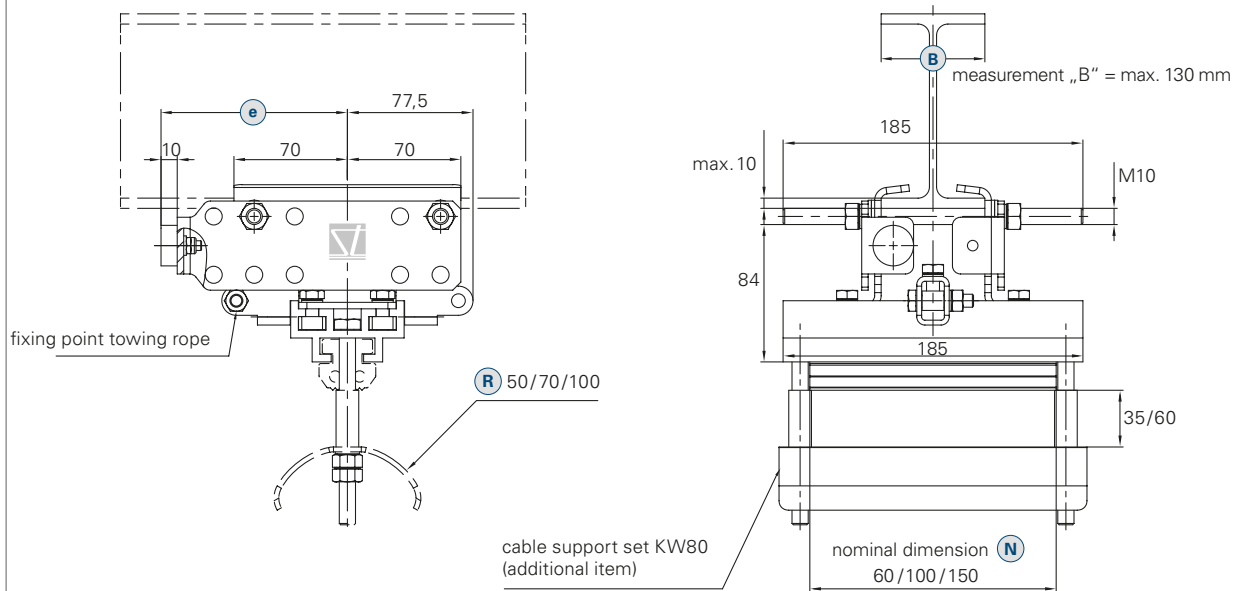


Trolley length L 180 mm =  $\textcircled{H1}$  ca. 80 mm  
 Trolley length L 230 mm =  $\textcircled{H1}$  ca. 90 mm  
 Trolley length L 280 mm =  $\textcircled{H1}$  ca. 100 mm

The cable trolleys can be equipped with support in various radiuses.  
 The cable supports are not included in the scope of delivery - please order seperately.

Art.-No.	support radius $\textcircled{R}$	counter roller	towing attachment	type	roller version	$\textcircled{L}$	$\textcircled{L1}$	$\textcircled{H}$	max. clamp height
6602840	$\textcircled{R} = 50$	<input checked="" type="checkbox"/>		B	1	180	90	124	35 ( $\textcircled{R} = 50$ )
6602841		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	C					
6602849		<input checked="" type="checkbox"/>		B	2				
6602850	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	C						
6602858	$\textcircled{R} = 50 \text{ bis } 70$	<input checked="" type="checkbox"/>		B	1	230	140	124	60 ( $\textcircled{R} = 50$ ) 35 ( $\textcircled{R} = 70$ )
6602859		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	C					
6602860		<input checked="" type="checkbox"/>		B	2				
6602861		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	C					
6602862	$\textcircled{R} = 70 \text{ bis } 100$	<input checked="" type="checkbox"/>		B	1	280	190	134	60 ( $\textcircled{R} = 70$ ) 35 ( $\textcircled{R} = 100$ )
6602863		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	C					
6602864		<input checked="" type="checkbox"/>		B	2				
6602865		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	C					

**KW80 TOWING TROLLEY**



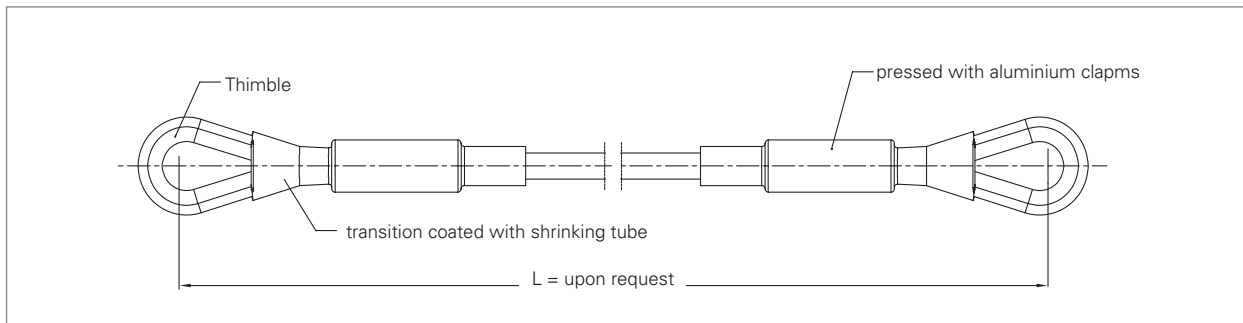
Measurement **B** max. 130 mm (wider upon request)

Art.No.	support radius <b>R</b>	towing attachment	max. clamp height	for cable trolleys
6602882	<b>R</b> = 50 mm		35 mm ( <b>e</b> = 90) / 60 mm ( <b>e</b> = 115)	A + B
6602883	<b>R</b> = 50 mm	<input checked="" type="checkbox"/>	35 mm ( <b>e</b> = 90) / 60 mm ( <b>e</b> = 115)	C
6602884	<b>R</b> = 70 mm		35 mm ( <b>e</b> = 115) / 60 mm ( <b>e</b> = 140)	A + B
6602885	<b>R</b> = 70 mm	<input checked="" type="checkbox"/>	35 mm ( <b>e</b> = 115) / 60 mm ( <b>e</b> = 140)	C
6602886	<b>R</b> = 100 mm		35 mm ( <b>e</b> = 140)	A + B
6602887	<b>R</b> = 100 mm	<input checked="" type="checkbox"/>	35 mm ( <b>e</b> = 140)	C



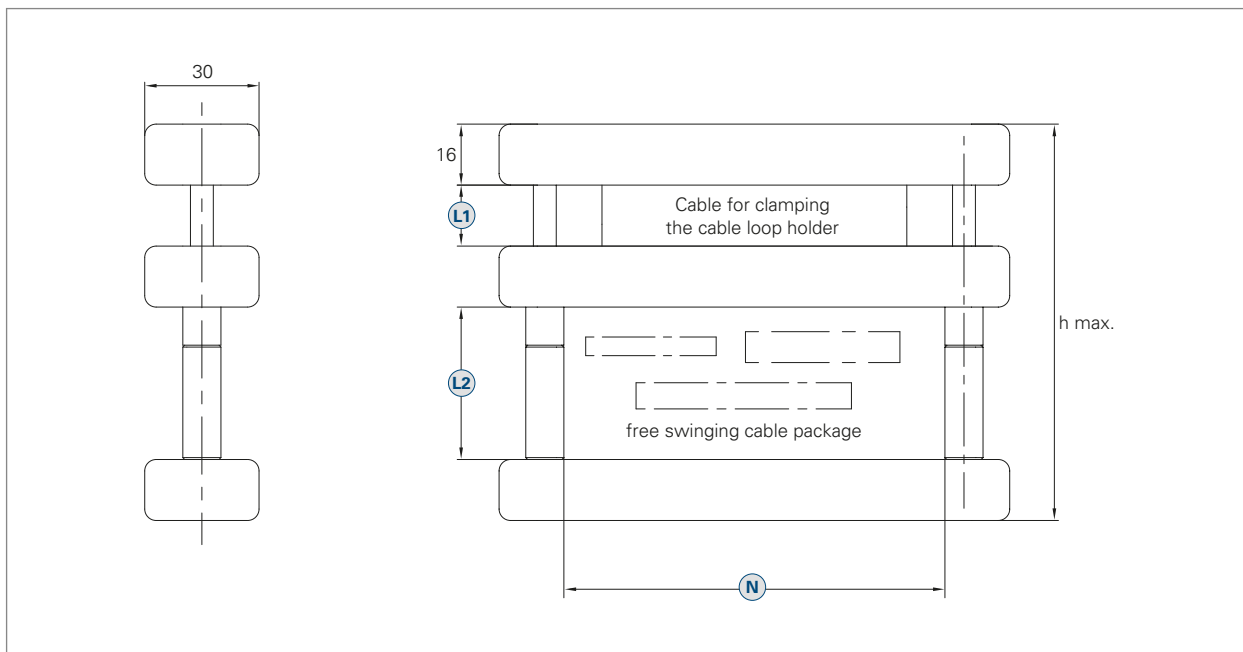


### KW80 STEEL ROPE



Length upon request.  
The steel rope and thimble are galvanized by standard. Stainless steel- or nylon ropes are available upon request.

### KW80 LOOP HOLDER

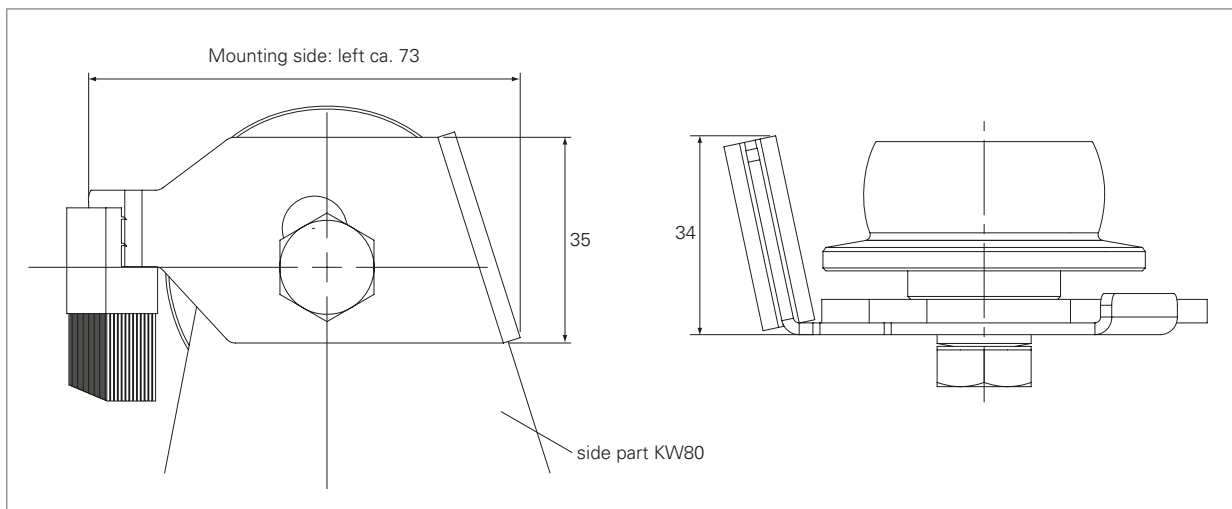


Art.-No.	nominal dimension (N)	cable height (L1)	(L2)	h (maximal)
6603099	60 mm	5 mm bis 18 mm	30 mm	97 mm
6003100	60 mm		40 mm	107 mm
5403101	60 mm		50 mm	117 mm
4803102	100 mm		30 mm	97 mm
4203103	100 mm		40 mm	107 mm
3603104	100 mm		50 mm	117 mm
3003105	150 mm		30 mm	97 mm
2403106	150 mm		40 mm	107 mm
1803107	150 mm		50 mm	117 mm

### DATA CABLE SUPPORT

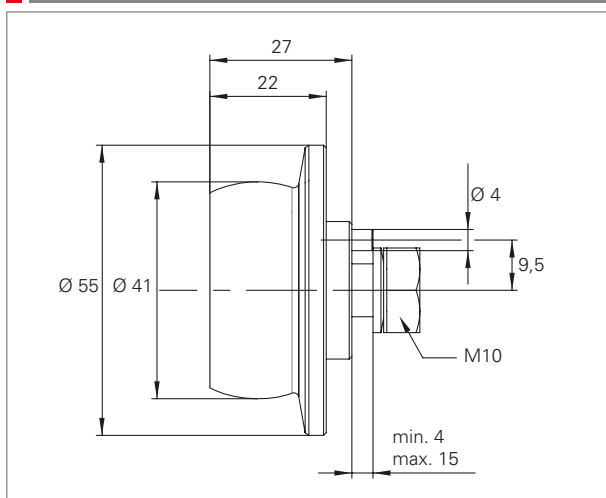
Cable clamp for round cables upon request.

### KW80 BRUSH HOLDER METAL SHEET



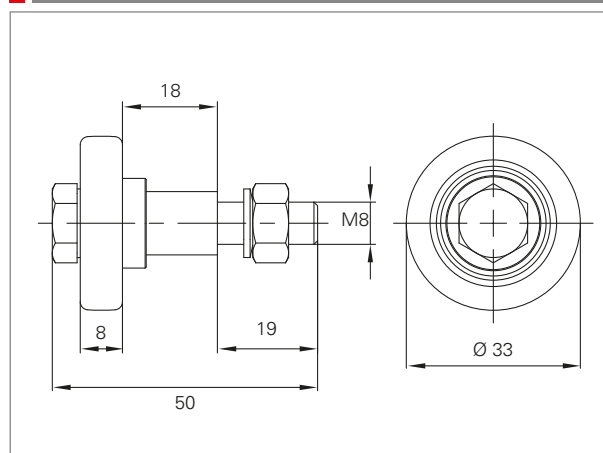
Art.-No.	Mounting side
2106284	right
2106089	left

### KW80 ROLLER



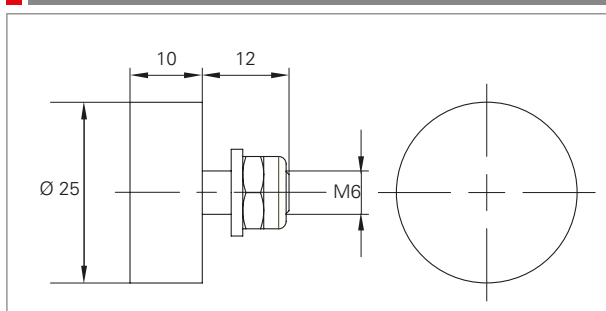
Art.-No.	Roller material	Version
6602783	steel , galvanized	1
6602869	polyurethane (incl. bearing)	2

### KW80 COUNTER ROLLER



Art.-No.	Roller material
2106056	steel, galvanized
2106086	Niro stainless steel (1.4301)
2106087	plastic (polyamide)

### KW80 BUFFER



Art.-No.	Mounting material
2106057	steel, galvanized
2106090	Niro stainless steel (1.4301)