



# TKR

## Extremely quiet and low-vibration for highly dynamic applications\*

- Long service life
- Ideal for highly dynamic applications
- High lateral stability
- Suitable for clean rooms
- Simple shortening and extension due to modular design

Extremely quiet and low-vibration operation

Variable connection for fast installation

Fixed dividers

Can be quickly and easily opened

Inside height

22  
52

Inside widths

20  
200

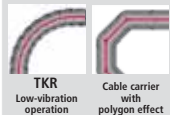
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### ALMOST NO POLYGON EFFECT



### Ideal for highly dynamic applications

The operation of the TKR is extremely low-noise and low-vibration. The so-called polygon effect is minimized.

Optimum uses are especially handling and installation systems, robots, measuring equipment, automatic pick and place systems, printing and textile machines.

Due to their **low noise** during operation, the TKR types are optimally suitable for applications with **low-vibration linear drives**.

### Suitable for clean rooms and long service life

The movable connecting elements are injection molded on the chain links. In contrast to conventional pin-hole joints, there is almost no wear (link wear), whereby the TKR types are excellent for use in clean rooms.

The special shaping of the connecting elements also increases the service life of the system.



Ideal for highly dynamic applications



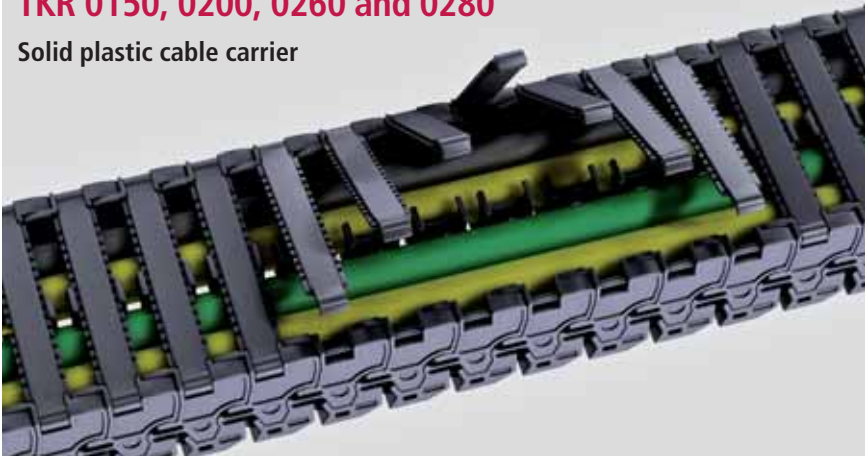
Universal connectors (UMB) for connection above, below or at the front



Injection molded connecting elements

# TKR 0150, 0200, 0260 and 0280

Solid plastic cable carrier



Inside height

22  
-  
52

Inside widths

20  
-  
200

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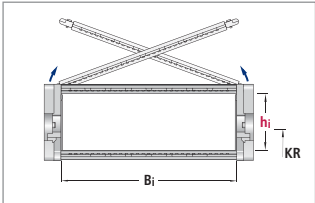
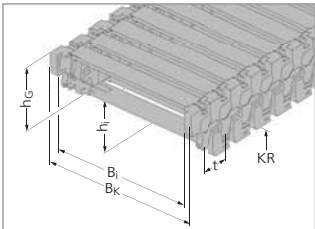
Type	h <sub>i</sub>	B <sub>i</sub>	Maximum travel length unsupported in m	Dynamics of unsupported arrangement		Page
				Travel speed* v <sub>max</sub> in m/s	Travel acceleration* a <sub>max</sub> in m/s²	
TKR 0150	22	20-60	1.77	5	200**	199
TKR 0200	28	40-120	2.76	5	200**	199
TKR 0260	40	50-200	3.95	5	200**	199
TKR 0280	52	50-200	4.94	5	200**	199

\* Possible maximum values: Please contact us.

\*\* At values > 20 m/s² please contact us – we are happy to advise you.

Dimensions in mm

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## Dimensions and intrinsic weight

Type	h <sub>i</sub>	h <sub>G</sub>	Inside width B <sub>i</sub>						B <sub>k</sub>
Intrinsic chain weight									
TKR 0150	22	27,5	20	40	60	–	–	–	B <sub>i</sub> + 14
			0,3	0,4	0,5	–	–	–	
TKR 0200	28	37,0	40	50	60	80	100	120	B <sub>i</sub> + 16
			0,6	0,6	0,7	0,8	0,9	1,0	
TKR 0260	40	54,0	50	75	100	125	150	200	B <sub>i</sub> + 26
			1,5	1,7	1,9	2,1	2,3	2,7	
TKR 0280	52	66,0	50	75	100	125	150	200	B <sub>i</sub> + 30
			2,0	2,2	2,4	2,6	2,8	3,2	

Dimensions in mm/Weights in kg/m

Subject to change.

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## TKR 0150, 0200, 0260 and 0280

### Bend radius and pitch

Type	Bend radii KR mm			
TKR 0150	40	50	75	—
TKR 0200	55	75	95	150
TKR 0260	75	100	125	150
TKR 0280	75	100	150	200

#### Pitch:

TKR 0150:  $t = 15$  mm

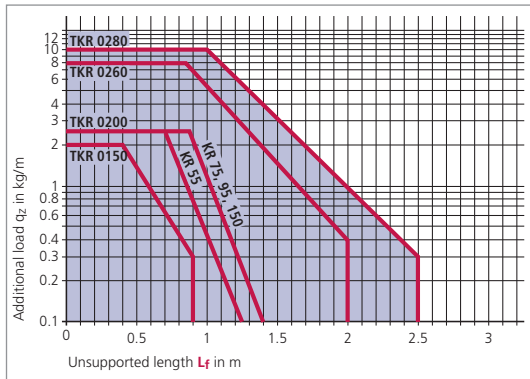
TKR 0200:  $t = 20$  mm

TKR 0260:  $t = 26$  mm

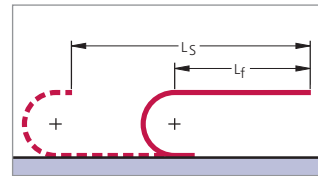
TKR 0280:  $t = 28$  mm

### Load diagram

for unsupported length  $L_f$  depending on the additional load



### Unsupported length $L_f$



In the case of longer travel lengths, sag of the cable carriers is technically permissible depending on the application.

We are at your service to advise on these applications.

### Example of ordering

Cable Carrier				Divider system		Connection
TKR 0200	100	95	800	TS 0	3	FA/MA
Type	Inside width $B_i$ in mm	Bend radius KR in mm	Chain length $L_k$ in mm (without connection)	Divider system	Number of dividers $n_T$	Connection Fixed point/ Driver

#### Ordering divider systems:

Please state the designation of the divider system (TS 0, TS 1 ...) and the number of dividers. Possibly attach a sketch with the dimensions.

# TKR 0150, 0200, 0260 and 0280

## Fixing the dividers

In the standard version, dividers or the complete divider system (dividers with height separation) can be moved in the cross section. (Mounting version A)

Fixed dividers are available for applications with transverse accelerations and where the carrier is rotated through 90° (Version B).

If the fixed installation version is desired, please state this on the order.

Inside height

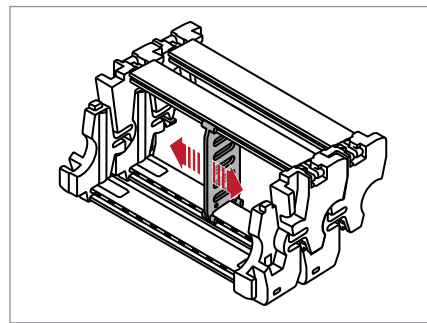


Inside widths



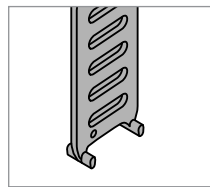
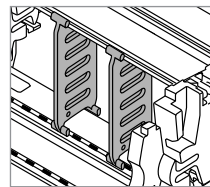
## Version A (Standard)

Movable divider



## Version B

Fixed divider



■ Locking profile in the crossbar

■ Divider with arresting cams

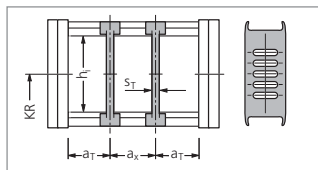
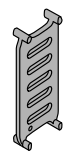
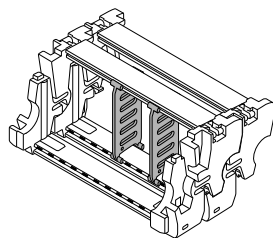
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## Divider system TS 0

Type	h <sub>i</sub> mm	Version A			Version B			
		S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm	S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm	a <sub>x</sub> section mm
0150	22	2.0	5.0	6.0	2.0	6.0	6.0	2.0
0200	28	2.0	4.0	8.0	2.0	4.0/5.0/6.0*	8.0	4.0
0260	40	2.4	3.0	8.0	2.4	5.5/6.0/7.0**	8.0	4.0
0280	52	2.4	3.0	8.0	2.4	5.5/6.0/7.0**	8.0	4.0

\* a<sub>T</sub> min = 4.0 mm for B<sub>i</sub> = 40, 80  
a<sub>T</sub> min = 5.0 mm for B<sub>i</sub> = 50  
a<sub>T</sub> min = 6.0 mm for B<sub>i</sub> = 60, 100, 120

\*\* a<sub>T</sub> min = 5.5 mm for B<sub>i</sub> = 75  
a<sub>T</sub> min = 6.0 mm for B<sub>i</sub> = 100  
a<sub>T</sub> min = 7.0 mm for B<sub>i</sub> = 150



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## TKR 0150, 0200, 0260 and 0280

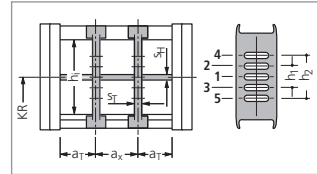
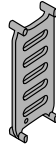
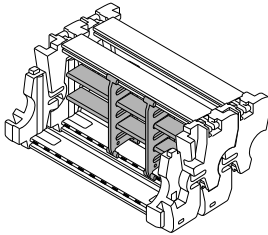
### Divider system TS 1

with continuous height subdivision made of aluminium (TKR 0150, 0260, 0280)  
or plastic (TKR 0200)

Type	h <sub>i</sub> mm	Version A			Version B				S <sub>H</sub> mm	h <sub>1</sub> mm	h <sub>2</sub> mm
		S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm	S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm	a <sub>x</sub> section mm			
0260	40	2.4	3.0	8.0	2.4	5.5/6.0/7.0**	8.0	4.0	2.6	14	28
0200	28	2.0	4.0	8.0	2.0	4.0/5.0/6.0*	8.0	4.0	2.6	11	–
0280	52	2.4	3.0	8.0	2.4	5.5/6.0/7.0**	8.0	4.0	2.6	18	36

\*  $a_T$  min = 4.0 mm for  $B_i = 40, 80$   
 $a_T$  min = 5.0 mm for  $B_i = 50$   
 $a_T$  min = 6.0 mm for  $B_i = 60, 100, 120$

\*\*  $a_T$  min = 5.5 mm for  $B_i = 75$   
 $a_T$  min = 6.0 mm for  $B_i = 100$   
 $a_T$  min = 7.0 mm for  $B_i = 150$



Inside height

22  
—  
52

Inside widths

20  
—  
200

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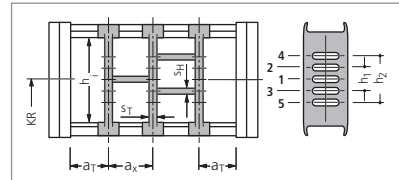
### Divider system TS 3

with section subdivision, partitions made of aluminium

		Version A			Version B						
Type	h <sub>i</sub> mm	S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm	S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm	a <sub>x</sub> section mm	S <sub>H</sub> mm	h <sub>1</sub> mm	h <sub>2</sub> mm
0260	40	6.0	3.0	26.0	6.0	5.5/6.0/7.0*	28.0	4.0	4.0	14	28
0280	52	6.0	3.0	26.0	6.0	5.5/6.0/7.0*	28.0	4.0	4.0	18	36

\*  $a_T$  min = 5.5 mm for  $B_i = 75$   
 $a_T$  min = 7.0 mm for  $B_i = 150$

$a_T$  min = 6.0 mm for  $B_i = 100$



In the standard version, the divider systems are mounted on every second chain link.

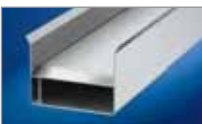
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Guide channels  
➤ from page 305

Strain relief devices  
➤ from page 311

Cables for cable carrier systems  
➤ from page 354



## TKR 0150, 0200, 0260 and 0280

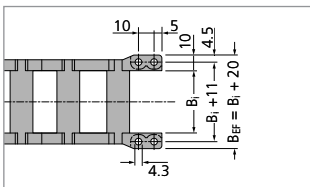
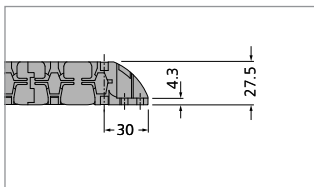
### Plastic connectors (Type TKR 0150)

Inside height

22  
-  
52

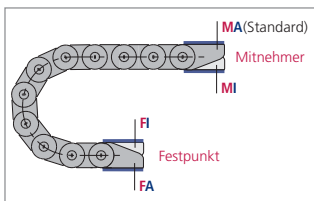
Inside widths

20  
-  
200



The dimensions of the fixed point and driver connections are identical.

### Connection variants (Type TKR 0150)



#### Connection point

- M** – Driver
- F** – Fixed point

#### Connection type

- A** – Threaded joint outside (standard)
- I** – Threaded joint, inside

In the standard version, the connectors are mounted with the threaded joint outwards (**FA/MA**).

When ordering please specify the desired connection type (see ordering key on page 348).

The connection type can subsequently be altered simply by varying the connectors.

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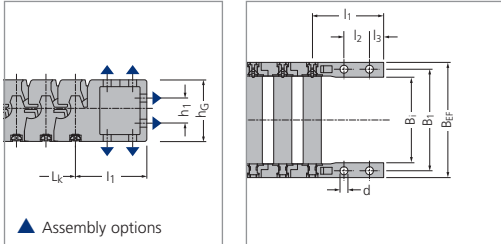
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## TKR 0150, 0200, 0260 and 0280

### UMB (Universal Mounting Brackets) made of plastic (Types TKR 0200, 0260 and 0280)

Universal connectors for connection above, below or at the front.



The dimensions of the fixed point and driver connections are identical.

End connectors made of steel plate available on request.

**Optional C-rails and strain relief elements for cables can be found on the following pages.**

When ordering please specify the connection type FU/MU (see ordering key on page 348).

Type	$B_{EF}$	$b_1$	$d$	$l_1$	$l_2$	$l_3$	$h_1$	$h_G$
TKR 0200	$B_i + 20$	$B_i + 12$	4.3	50/53*	20.0	10.0	15	37
TKR 0260	$B_i + 26$	$B_i + 16$	7.0	63	22.5	12.5	22	54
TKR 0280	$B_i + 30$	$B_i + 16$	7.0	66/70**	22.5	15.0	22	66

$B_{EF}$  = chain width over connecting piece

\* Fixed point = 50 mm, driver = 53 mm

\*\* Fixed point = 66 mm, driver = 70 mm

Dimensions in mm

Inside height

22  
52

Inside widths

20  
200

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