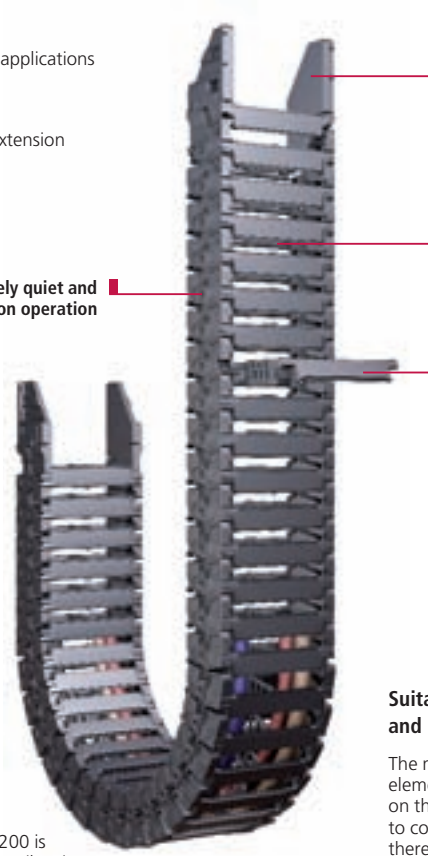

TKR 0200
unleash the power to innovate
product design award
2006

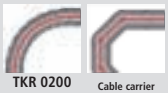
TKR 0200

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



ALMOST **NO POLYGON EFFECT**



Ideal for highly dynamic applications

The operation of the TKR 0200 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 0200 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


Variable connection with rotatable connectors


The modular design makes it easy to shorten and lengthen


Injection molded connecting elements

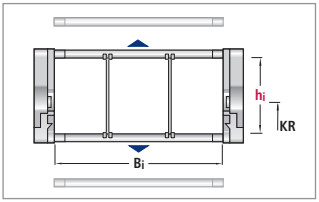
TKR 0200

Solid plastic cable carrier

Type	h_i	B_i	Maximum travel length in m	Dynamics of unsupported arrangement		Page
				Travel speed v_{max} in m/s	Travel acceleration a_{max} in m/s²	
TKR 0200	28	40-100	2.8	10*	200*	192

* Possible maximum values: Please contact us.

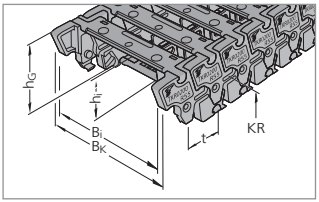
Dimensions in mm



Dimensions and intrinsic weight

Type	h_i	h_G	Inside width B_i Intrinsic chain weight				B_k
			40	60	80	100	
TKR 0200	28	35	0.6	0.7	0.8	0.9	B_i + 16

Dimensions in mm/Weights in kg/m



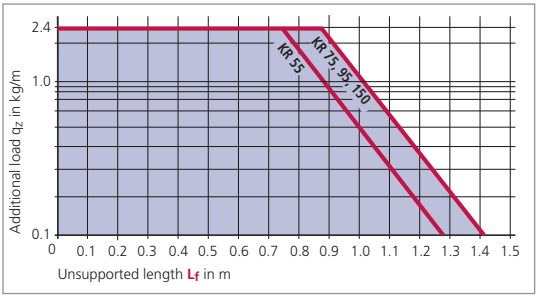
Bend radius and pitch

Bend radii KR mm			
55	75	95	150

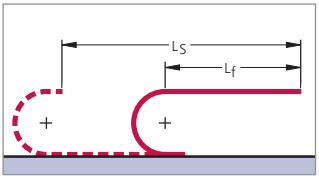
Pitch t = 20.0 mm

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 0200

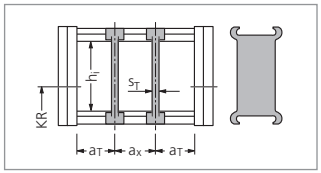
Divider system TS 0

Type	h_i mm	S_T mm	$a_{T\,min}$* mm	$a_{x\,min}$ mm	$a_{x\,section}$ mm
TKR 0200	28	2	14/16	8	4

* $a_{T\,min}$ = 14 mm for B_i = 60, 100 $a_{T\,min}$ = 16 mm for B_i = 40, 80

The dividers are fixed in the cross section.

■ Fixed dividers



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

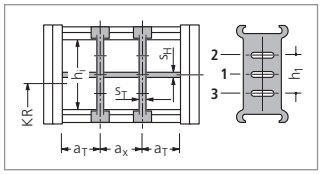
Divider system TS 1 with continuous height subdivision made of aluminium

Type	h_i mm	S_T mm	$a_{T\,min}$* mm	$a_{x\,min}$ mm	S_H mm	h_1 mm	$a_{x\,section}$ mm
TKR 0200	28	2	14/16	8	4	13	4

* $a_{T\,min}$ = 14 mm for B_i = 60, 100 $a_{T\,min}$ = 16 mm for B_i = 40, 80

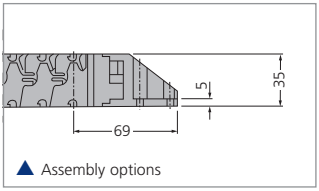
The dividers are fixed in the cross section.

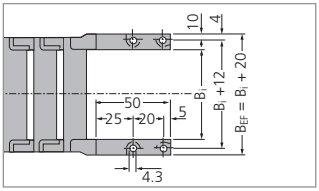
■ Fixed dividers



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

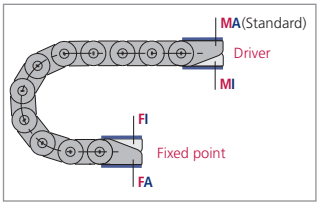
Plastic connectors





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

Connection variants



Connection point

M – Driver

F – Fixed point

Connection type

A – Threaded joint outside (standard)

I – Threaded joint, inside

Easy rotation of the connectors for inside and outside connection