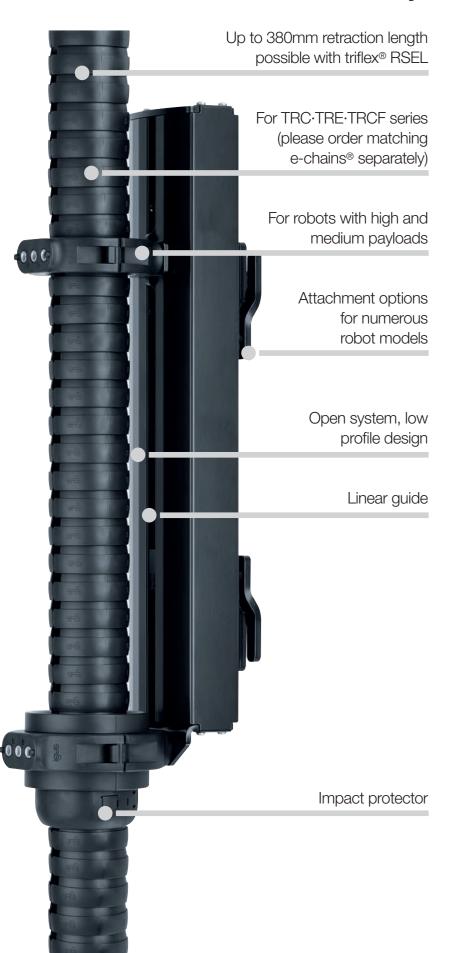
## RSEL retraction system New Cost-effective linear retraction system New

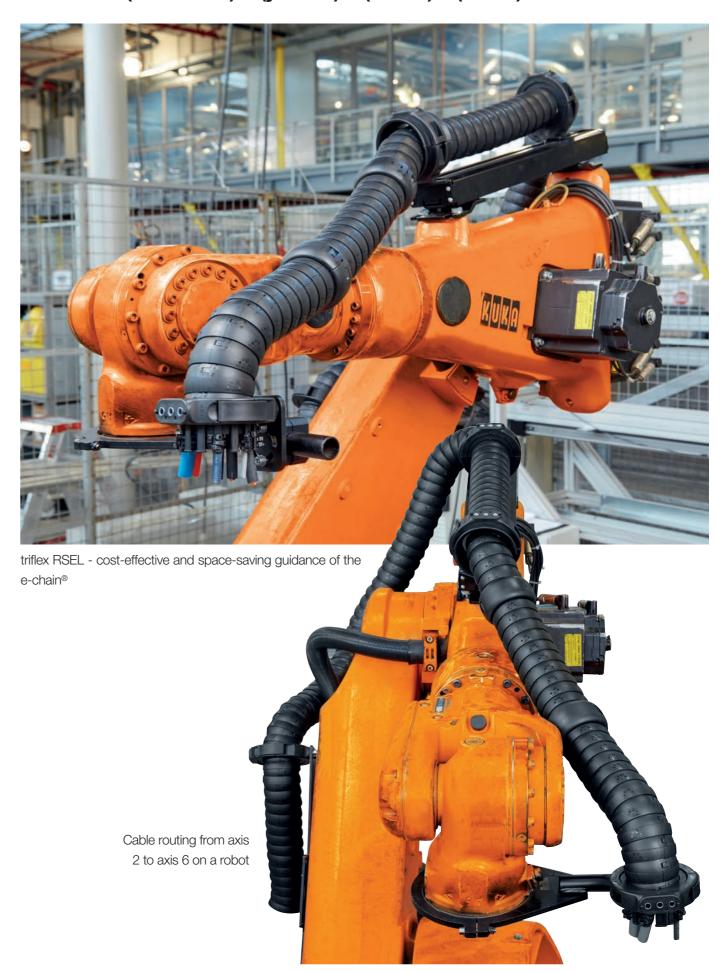


### Cost-effective, linear retraction system triflex® RSEL

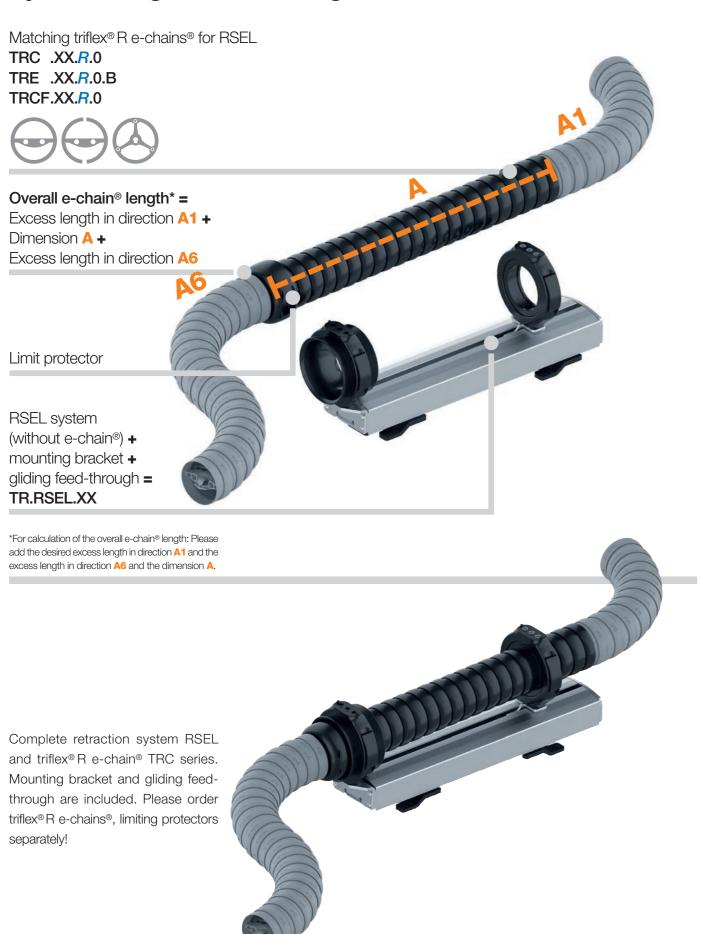
Avoid looping on the robot head - even more cost-effective and even for corrugated tubes, with the RSEL retraction system. Especially designed for robots with medium to high payload, the igus® triflex® RSEL retraction system offers an option to actively avoid looping in the working area of the robot by keeping the e-chain® as close as possible to the robot arm.

- Cost-optimised retraction system, easy to retrofit
- Due to its standard dimensions and the very compact design, the RSEL retraction system can be mounted directly on the 3rd axis of all common types of robots
- Retraction element with elastomer band
- Prevents the e-chain<sup>®</sup> from looping or blocking the motion, even in highly dynamic applications
- Short type
- Attachment options for numerous robot
- For robots with high and medium
- The fixed end of the e-chain® can be freely selected due to the linear design of the RSE retraction system

# RSEL - R(etraction) S(ystem) E(lastic) L(inear)



# RSEL retraction system System design with matching e-chain®

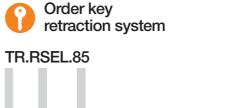


# RSEL retraction system Order examples for retraction system including e-chain®

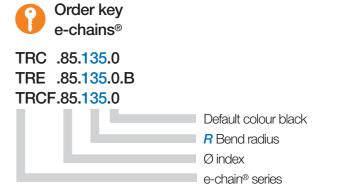


Sample order of a complete TR.RSEL system, Ø index 85, and e-chain® (length: 2m)

System	Select ø index	TR.RSEL.85
+ e-chain®	Insert Ø index / Insert bend radius R / Insert standard length in metres	2m TRCF.85.135.0
+ Protector	Select protector option / specify ø index	TR.85.30
Order text:	TR.RSEL.85. + 2 m TRCF.85.135.0 + TR.85.30	







#### More optional accessories | RSEL retraction system



**Protectors** with screw connections or quick release ▶ Page 106

Adapter consoles For custom mounting options ► Page 111



Axis 6 clamp For triflex® R mounting brackets

▶ Page 114

### RSEL retraction system

Product range

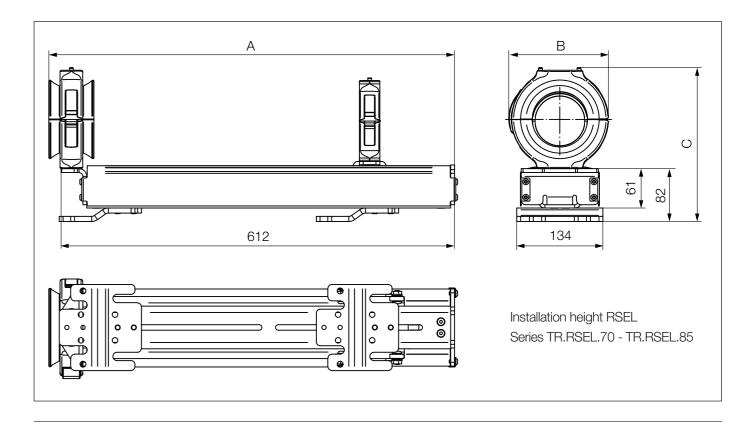


#### Product range | RSEL retraction system

Ø		Part Number	Retraction length <sup>1)</sup>	Α	В	С	Weight
Index		RSEL	≤ [mm]	[mm]	[mm]	[mm]	[kg]
30.	<b>&gt;</b>	_	_	_	_	_	_
40.	<b>&gt;</b>	_	_	_	_	_	_
50.	<b>&gt;</b>	_	_	_	_	_	_
60.	<b>&gt;</b>	_	_	_	_	_	_
65.	<b>&gt;</b>	_	_	_	_	_	_
65. ( <b>R</b> 2	200)	_	_	_	_	_	_
70.	<b>&gt;</b>	TR.RSEL.70	380	631	155	239	8.8
85.	<b>&gt;</b>	TR.RSEL.85	380	638	155	251	8.9
85. ( <b>R</b> 2	240)	_	_	_	_	_	_
100.	<b>&gt;</b>	_	_	_	_	_	_
125.	<b></b>	_	_	_	_	_	_

Please order matching triflex® R e-chain® separately. 1) Maximum retraction length

## RSEL retraction system Installation dimensions





### RSEL e-chains®

### Product range



#### Product range | Matching e-chains® for RSEL

Ø	Part No.	Part No.	Part No.
Index	TRC	TRE	TRCF with
	enclosed	"easy" design	snap lock mechanism
30.	_	_	_
40.	_	_	_
50.	_	_	_
60.	_	_	_
65.	_	_	_
65. ( <b>R 200</b> )	_	_	_
70.	TRC.70.110.0	TRE.70.110.0.B	_
85.	TRC.85.135.0	TRE.85.135.0.B	TRCF.85.135.0
85. ( <b>R 240</b> )	_	_	_
100.	_	_	_
125.	_	_	_
1) Available for	or B- and C-versions		

Please note that all triflex® R e-chains can be lengthened and shortened individually and can be customized to meet the needs of your application.

Please order e-chains® as piece parts and purchase a protector for each one.

#### Product range | Matching protectors for RSEL

Ø Index		• Part No. protector with screw fastener	Part No. protector with quick-lock fastener	General image protector options
30.		_	_	
40.	<b></b>	_	-	
50.	<b></b>	_	-	
60.	<b></b>	_	-	
65.	<b></b>	_	-	2
65. ( <b>R 200</b> )	<b></b>	_	-	9
70.	<b></b>	TR.70.10	TR.70.30	
85.	<b></b>	TR.85.10	TR.85.30	
85. ( <b>R 240</b> )	<b></b>	_	-	
100.	<b></b>	_	-	More information on
125.	<b></b>	-	_	Protectors ▶ Page 47

<sup>\*</sup>Available upon request. Please consult igus® for delivery time.

Please order protectors with screw connections or quick release as limit protectors.

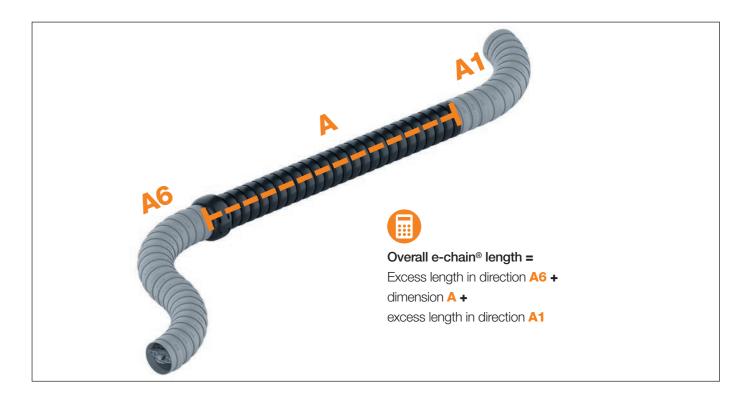
### RSEL e-chains®

### Cable length calculation

Calculation of the overall e-chain® length | RSEL e-chains®

Ø		Bend radius	Dimension A	General image	Direction A1
Index		R [mm]	[mm]	overall e-chain® length	excess length
30.	•	_	_	Dimension A	X
40.	<b></b>	_	_		
50.	<b></b>	_	_	Direction A6	
60.	<b></b>	_	_	excess length	
65.	<b></b>	_	_		
85. ( <b>R</b> 2	240)	_			
70.	<b></b>	110	530		
85.	<b></b>	135	530		10
85. ( <b>R</b> 2	240)	_	_		
100.	<b></b>	_	_	91	
125.	•	_	_		

For calculation of the overall e-chain® length: Please add the desired excess length in direction A1 and the excess length in direction A6 and the dimension A. Additionally, at least 1 limit protector must be ordered.





More information and installation height | RSEL e-chains®

- TRC series enclosed design, chip-protection, smooth outer contour ▶ from page 28
- TRE series "easy" design, very easy to fill, simply press cables in ▶ from page 30
- TRCF series enclosed design with snap-lock mechanism, chip-repellent, smooth outer contour ▶ from page 32

