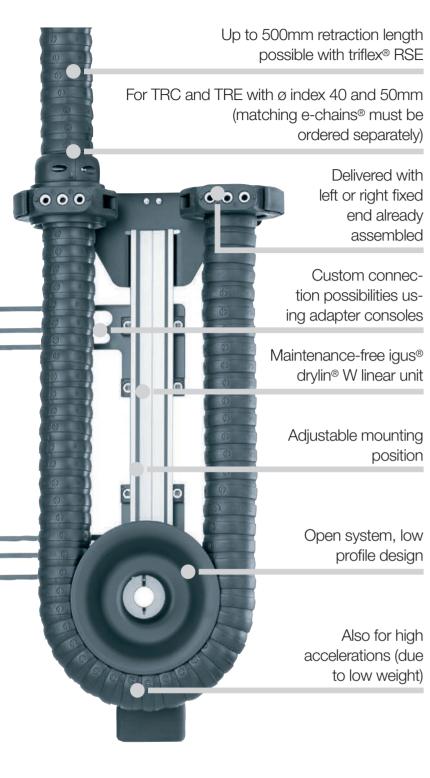
# **RSE** retraction system

Cost-effective retraction system with deflection

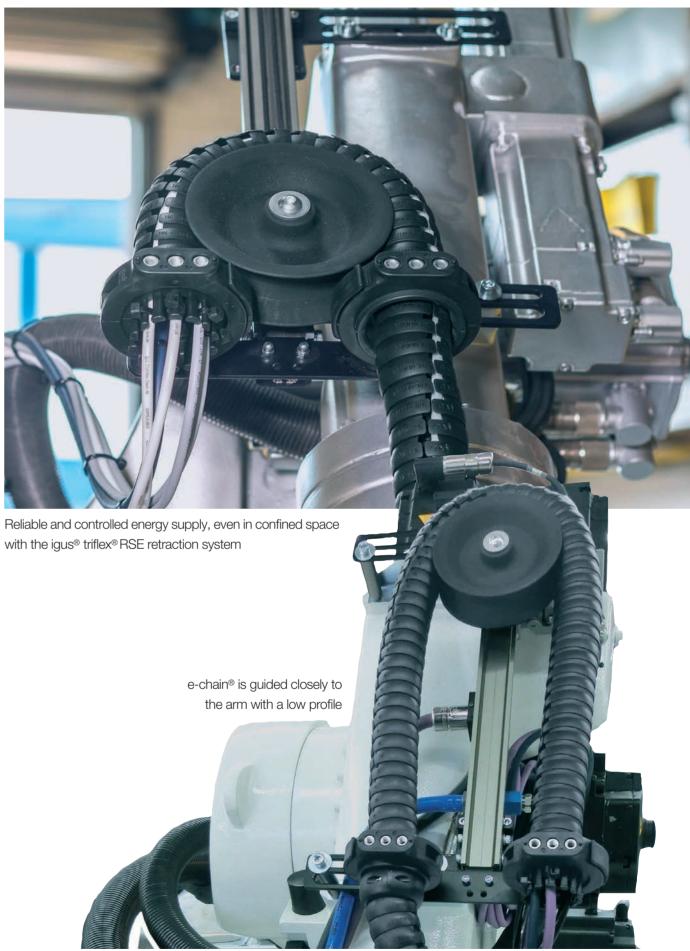


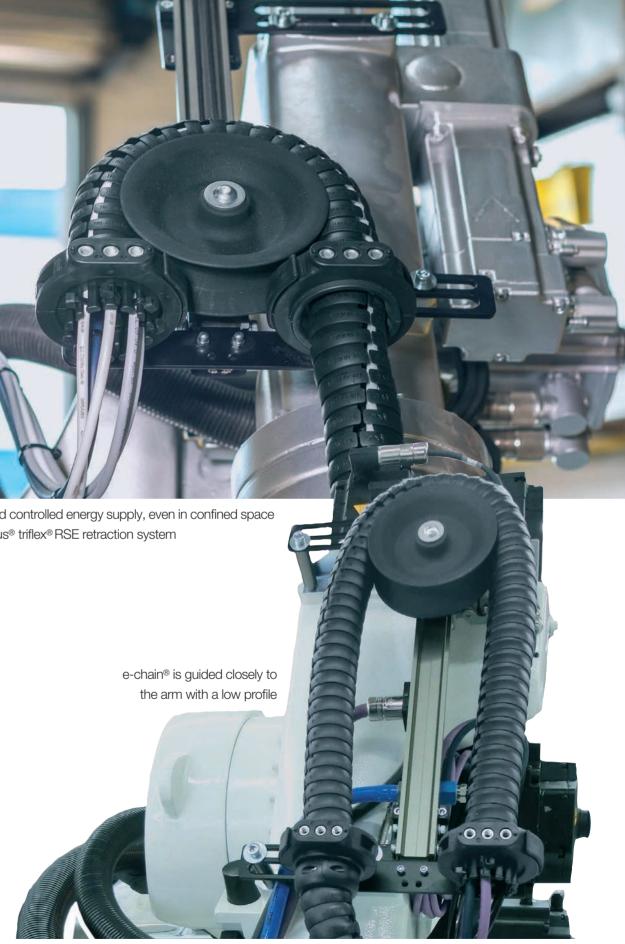
## **Cost-effective** retraction system with deflection for small robots triflex<sup>®</sup> RSE

Specially developed for robots with small to medium cable and hose filling, the igus® triflex® RSE retraction system offers a way to prevent loop formation in the workspace of the robot, even in highly dynamic applications.

- For series TRC. TRE with sizes 40 and 50mm
- Extremely fast response, even in highly dvnamic robot programs
- Low weight, very little reduction in robot handling capacity
- Universal adjustable installation brackets
- Maintenance and lubrication-free igus<sup>®</sup> drylin<sup>®</sup> W linear unit
- For maximum degrees of freedom
- For cable diameters up to 18.8mm

# RSE - R(etraction) S(ystem) E(lastic)







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igus



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CUS 3D CAD, configurators, service life calculation and more ► www.igus.co.uk/triflexR

83

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

Cover for additional installation space on the robot, optional: TR.RSE.XX.COVER

Matching triflex® R e-chains® for RSE with integrated fibre-rods TRC.RSE.XX.R.LLLL.0 TRE.RSE.XX.R.LLLL.0.B



Overall e-chain<sup>®</sup> length = additional length from the gliding feed-through LLLL + the e-chain<sup>®</sup> length within the system

RSE system (e-chain® not included) + Mounting bracket + Glidina feed-through = TR.RSE.(02).XX.L or TR.RSE.(02).XX.R

Complete retraction system RSE with deflection, fixed end right and triflex® R e-chain<sup>®</sup> TRC series. Mounting bracket and gliding feed-through are included. Please order matching triflex® R e-chain® and optional cover separately.



More information ► www.igus.co.uk/triflex-RSE 84



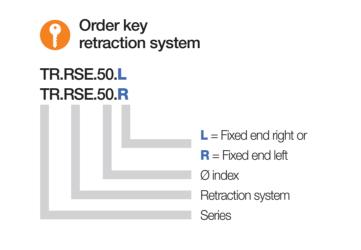
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# RSE retraction system including e-chain®

	order of a complete TR.RSE system cover and e-chain® (standard leng
System	Insert Ø index / select fixed end $\textbf{.L}$ / $\textbf{.R}$
+ Cover	Insert $\varnothing$ index (cover optional)
+ e-chain®	Insert ø index / Insert bend radius R / Insert
Order text:	TR.RSE.50.L + TR.RSE.50.COVER + TRO



## More optional accessories | RS modular retraction system

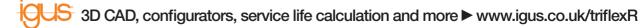




Cover For additional installation space and extreme movements Page 86

Adapter consoles For individual mounting options ▶ Page 111







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n, Ø index 50, fixed end on the left, gth: 500mm)

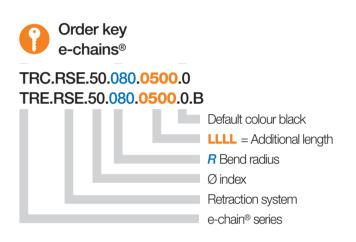
### TR.RSE.50.L

### TR.RSE.50.COVER

standard length LLLL

TRC.RSE.50.080.0500.0

C.RSE.50.080.0500.0





85

# **RSE retraction system Product range**



Product range | RSE cost-effective retraction system with deflection

Ø		Part No.	Part No.	Retraction length <sup>1)</sup>	А	В	С	D	Weight
Index		fixed end left	fixed end right	≤ [mm]	[mm]	[mm]	[mm]	[mm]	[kg]
30.		-	-	_	_	_	_	_	_
40.		TR.RSE.02.40.L	TR.RSE.02.40.R	500	440	220	110	64.7	1.6
50.		TR.RSE.50.L	TR.RSE.50.R	500	497	275	132	79	2.1
60.		-	_	_	_	_	_	_	_
65.		-	_	_	_	_	_	_	_
65. ( <b>R 20</b>	<b>)</b> 🕨	-	_	_	_	_	_	_	_
70.		-	_	_	_	_	_	_	_
85.		-	_	_	_	_	_	_	_
85. ( <b>R 24</b>	<b>)</b> 🕨	-	_	_	_	_	_	_	_
100.		_	_	_	_	_	_	_	_
125.		_	_	_	_	_	_	_	_

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

## Product range | RSE cover, optional

Ø		Optional cover	А	В	С	D	Load*	Weight
Index		retrofit kit	[mm]	[mm]	[mm]	[mm]	$\leq$ [kg]	[kg]
30.			-	-	_	-	_	-
40.		TR.RSE.40.COVER	115	240	180	200	1.5	1.1
50.		TR.RSE.50.COVER	126	300	248	248	1.5	1.7
60.			_	_	_	_	_	_
65.			_	_	_	_	_	_
65. ( <b>R 20</b>	)		_	_	_	_	_	_
70.			_	_	_	_	_	_
85.			_	_	_	_	_	_
85. ( <b>R 2</b> 4	<b>10</b> )		_	_	_	_	_	_
100.			_	_	_	_	_	_
125.			_	_	_	_	_	_
	<i>c</i>							

\*Maximum fill weight to be used with the cover

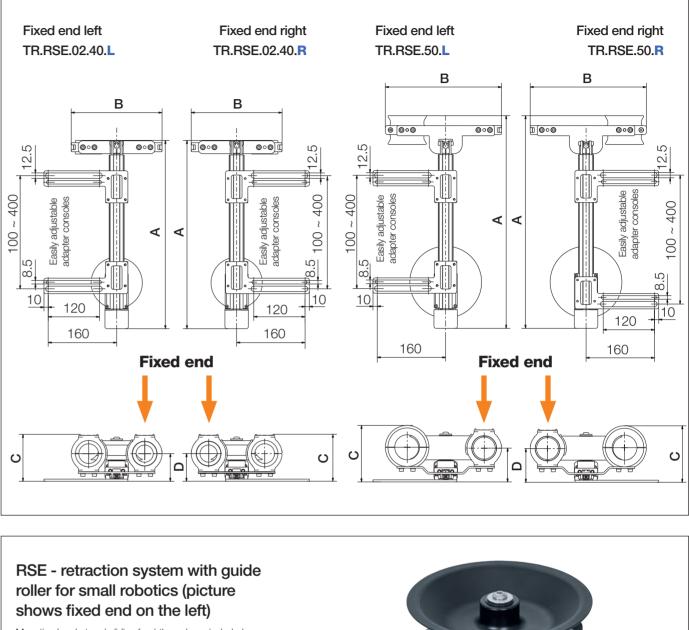
### 86 More information ► www.igus.co.uk/triflex-RSE



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В

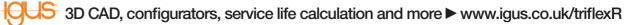
# **RSE retraction system** Installation dimensions













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87

# **RSE e-chains**<sup>®</sup> **Product range**



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

Ø		Part No. TRC	Part No. TRE	
Index		enclosed	"easy" design	
30.		_	-	
40.		TRC.RSE.40.058. LLLL.0	TRE.RSE.40.058. LLLL.0.B	
50.		TRC.RSE.50.080. LLLL.0	TRE.RSE.50.080. LLLL.0.B	
60.		_	-	
65.		_	-	
65. ( <b>r</b> 2	200)	_	-	
70.		_	-	
85.		_	_	
85. ( <b>r</b> 2	240)	_	-	
100.		_	_	
125.		_	_	

\*Standard lengths from the gliding feed-through outside the system - special lengths upon request.

### e-chains® standard lengths\*

LLLL [mm] | 0500 | 0750 | 1000 | 1250 |

Part No. with LLLL standard length value (measured from the gliding feed-through) corresponds to the robot arm length from axis 3. For example: TRC.RSE.40.058.0500.0

# **RSE e-chains**<sup>®</sup> Cable length calculation

## Calculating the overall e-chain<sup>®</sup> length | RSE e-chains<sup>®</sup>

Ø		Bend radius	e-chain® length*	Number of	Overall e-chain® length
Index		<b>R</b> [mm]	[mm]	e-chains® links	[mm]
30.		_	-	-	-
40.		058	904	65	<b>LLLL</b> + 904
50.		080	1044	60	<b>LLLL</b> + 1044
60.		_	-	_	-
65.		_	-	_	-
65. ( <b>R 2</b> 0	)	_	-	_	-
70.		_	-	_	-
85.		_	-	_	-
85. ( <b>R 2</b> 4	40)	_	-	_	-
100.		_	-	_	-
125.		_	_	_	_

\*Values are related to the e-chain® length within the system

To calculate the overall e-chain<sup>®</sup> length: Please add the e-chain<sup>®</sup> length<sup>\*</sup> within the system to the standard length LLLL (measured from the gliding feed-through)



More information and installation height | RSE 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

### More information ► www.igus.co.uk/triflex-RSE



88

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