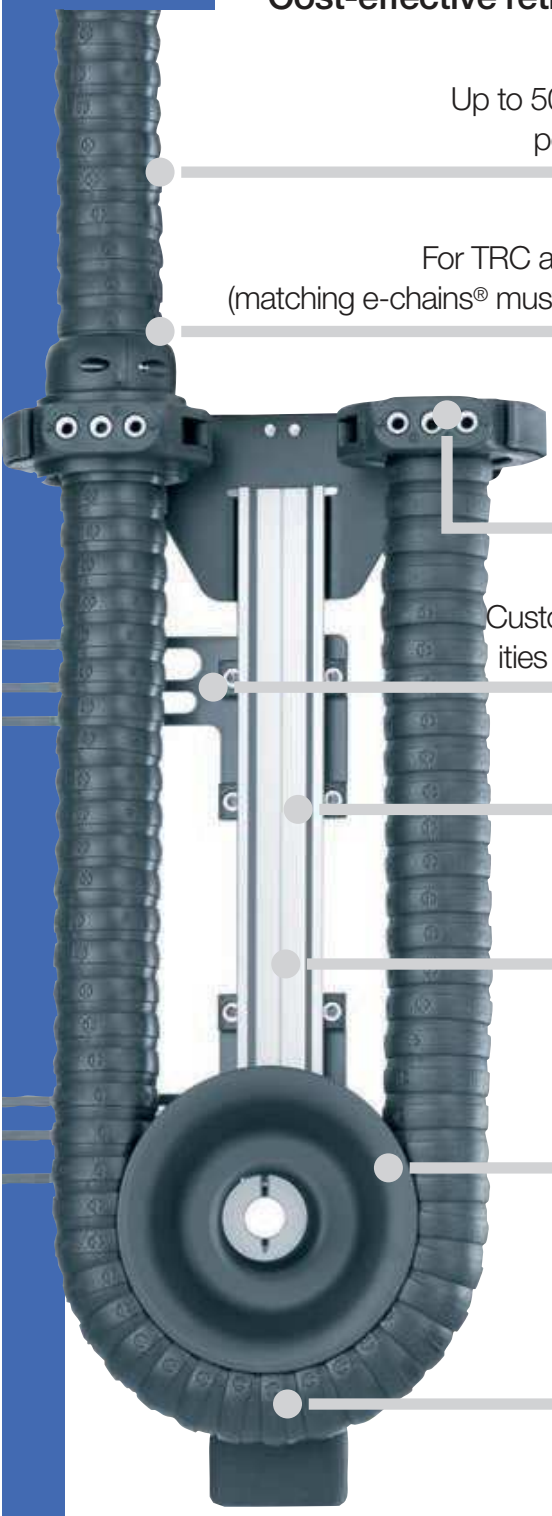
triflex® R | RSE | For series TRC·TRE | Accessories

Cost-effective retraction system with deflection New | Advantages



Up to 500 mm retraction length possible with triflex® RSE

For TRC and TRE with ø index 40 (matching e-chains® must be ordered separately)

Delivered with left or right fixed end already assembled

Custom connection possibilities using adapter consoles

Maintenance-free igus® drylin® W linear unit

Adjustable mounting position

Open system, low profile design

Also for extreme accelerations (due to low weight)

Cost-effective retraction system with deflection for small robots - triflex® RSE

Specially developed for robots with small to medium cable and hose packages, 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 a ø-index of 40 mm
- Extremely fast response, even in highly dynamic robot programs
- Low weight on the robot, very little reduction in robot handling capacity
- Universal adjustable installation brackets
- Maintenance and lubrication-free igus® drylin® W linear unit
- For maximum degrees of freedom
- More tolerance for the robot's programmer
- For cable diameters up to 11 mm

Optional accessories | RS modular retraction system

Cover - for additional mounting space and extreme movements

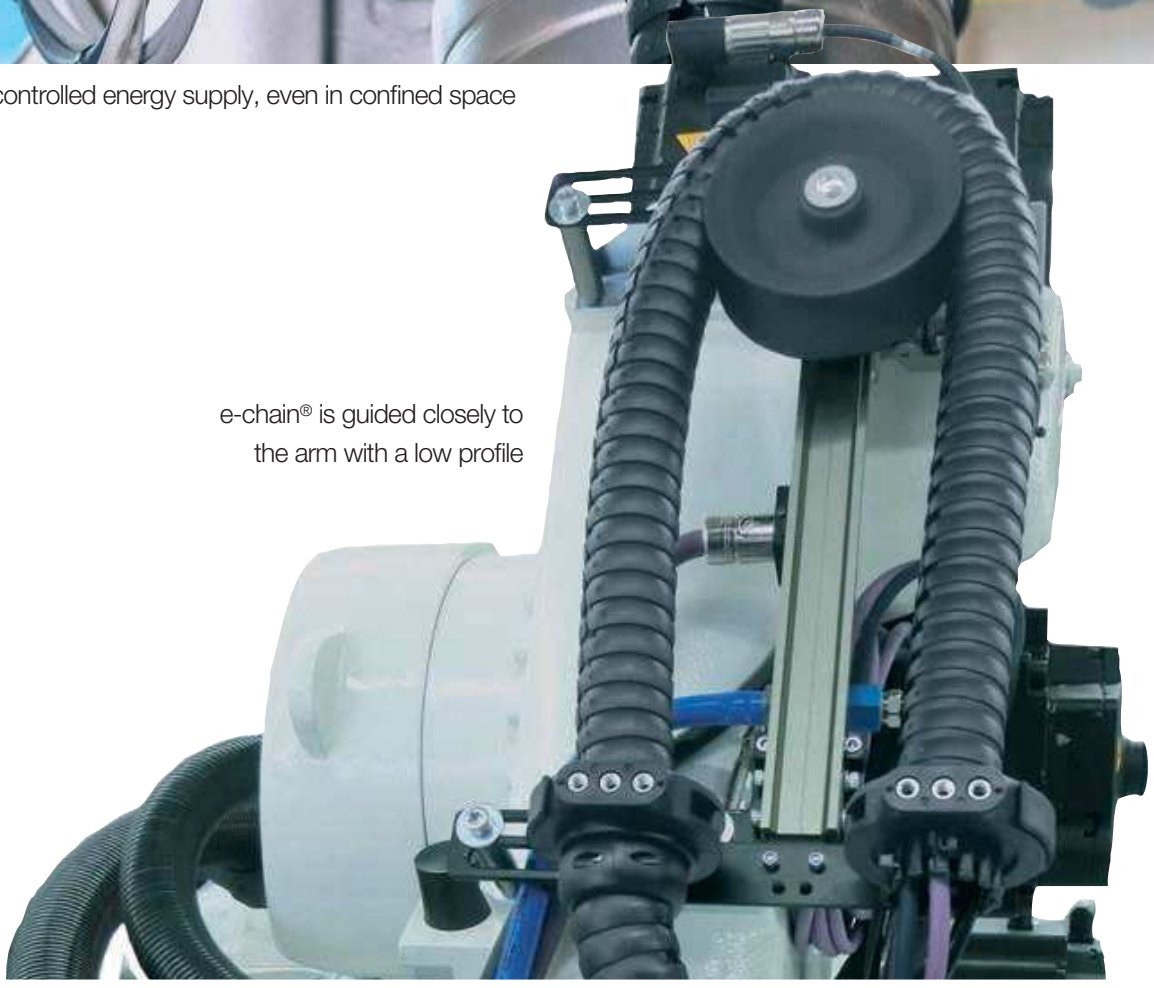
Adapter consoles - for custom mounting options

Axis 6 clamp - for triflex® R mounting bracket

triflex® R | RSE | For series TRC·TRE | Application example

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

Reliable and controlled energy supply, even in confined space



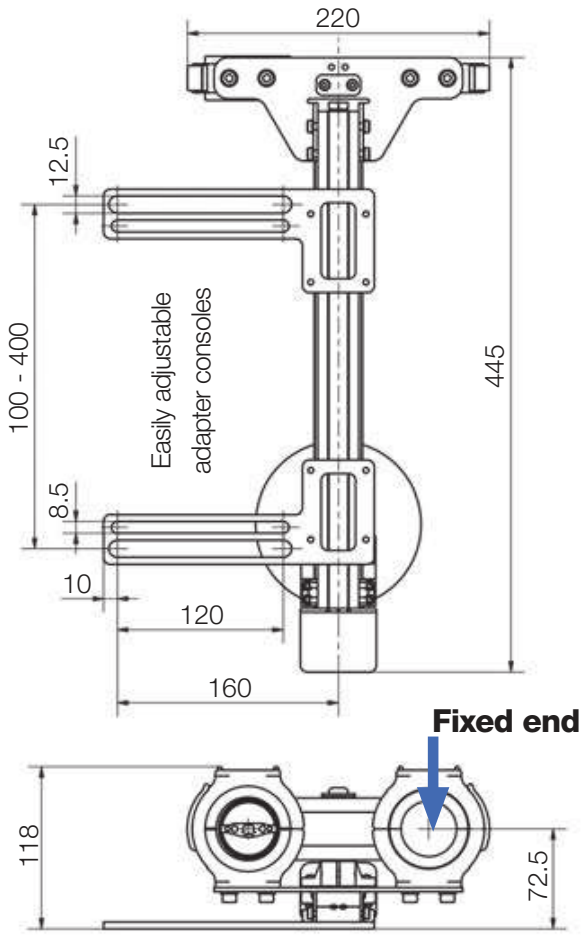
e-chain® is guided closely to
the arm with a low profile

triflex® R | RSE | For series TRC·TRE | Accessories

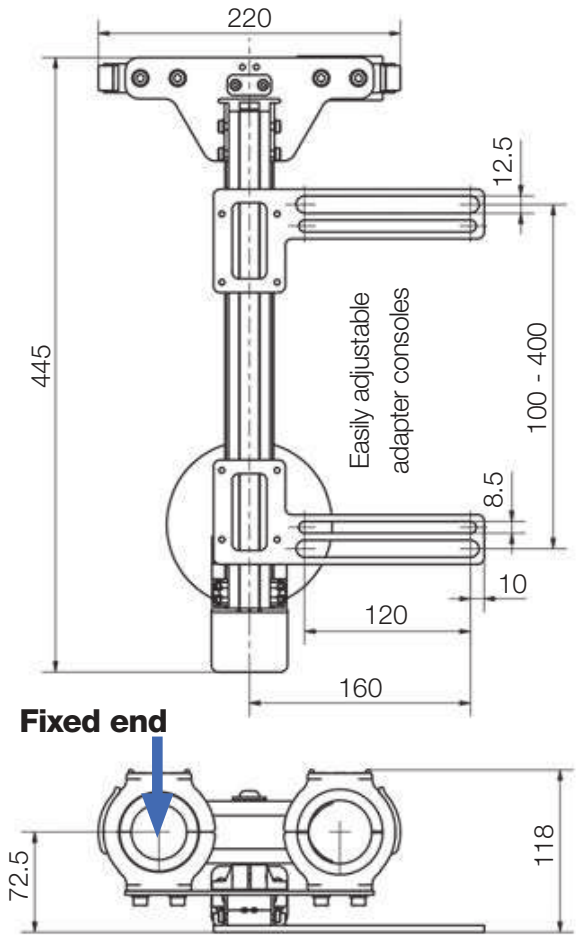
Technical data

Dimensions | RSE cost-effective retraction system

Fixed end left
TR.RSE.40.L



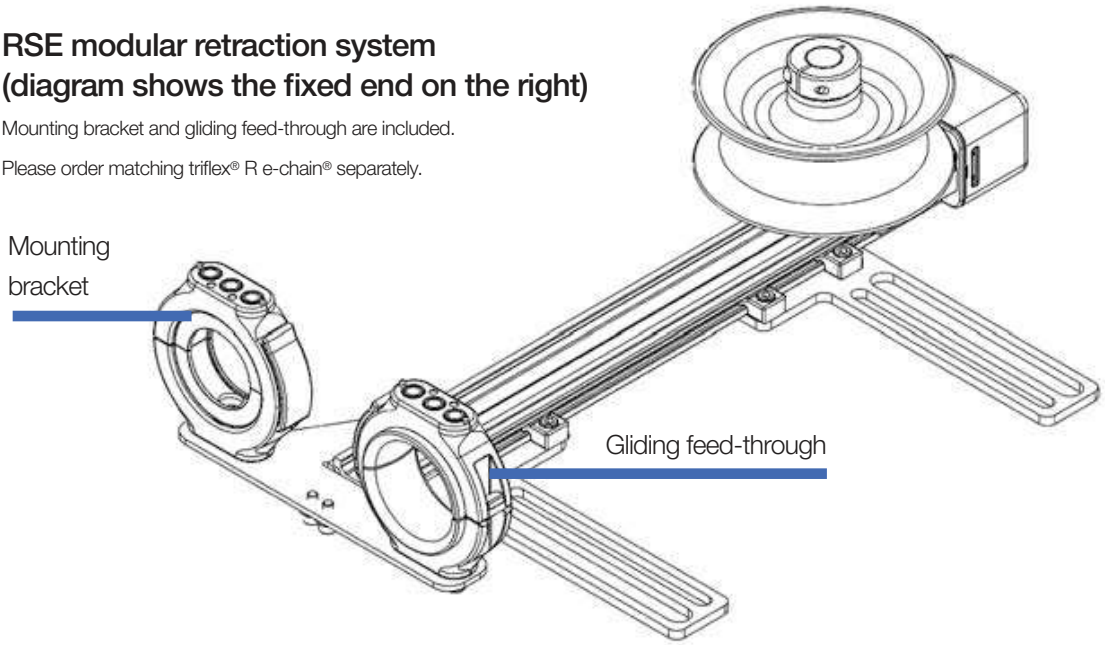
Fixed end right
TR.RSE.40.R



RSE modular retraction system
(diagram shows the fixed end on the right)

Mounting bracket and gliding feed-through are included.

Please order matching triflex® R e-chain® separately.



triflex® R | RSE | For series TRC·TRE | Accessories

Product range

Product range | RSE cost-effective retraction system with deflection

Ø Index		Part No. fixed end **left**	Part No. fixed end **right**	Retraction length[1] ≤ [mm]	Weight* [kg]
40.	▶	TR.RSE.40.**L**	TR.RSE.40.**R**	500	1.6

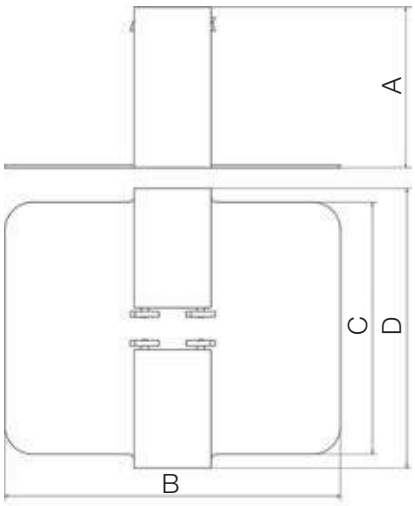
1) These are the maximum values. In normal operation a filling of no more than 70% is advised.

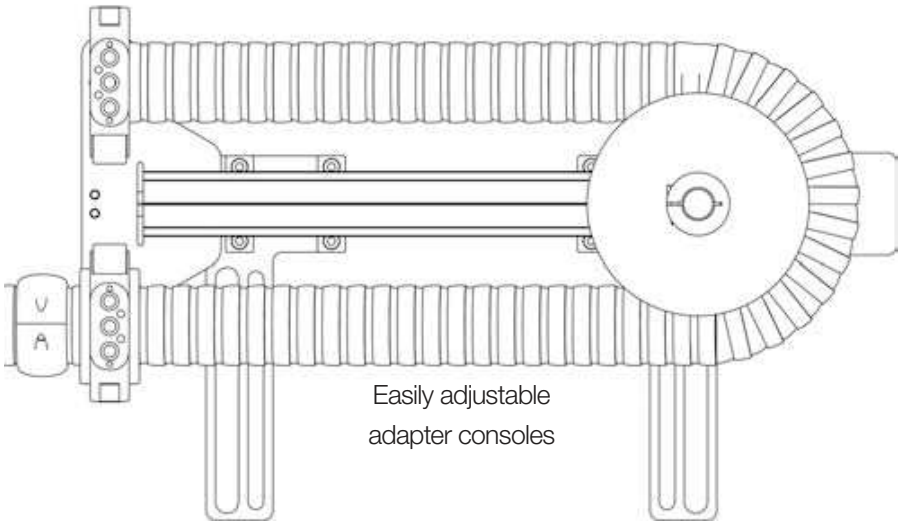
Please order matching triflex® R e-chain® separately.

Product range | Cover, optional

Ø Index		Optional cover retrofit kit	A [mm]	B [mm]	C [mm]	D [mm]	Load* ≤ [kg]	Weight [kg]
40.	▶	TR.RSE.40.COVER	115	240	180	200	1.5	1.1

*Maximum fill weight to be used with the cover





Easily adjustable
adapter consoles

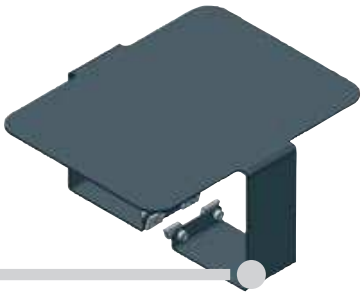
Order key

TR.RSE.40.**L** / **R**

- **R** = Fixed end right
- **L** = Fixed end left
- Ø Index
- System
- e-chains® series

triflex® R | RSE | For series TRC·TRE | Accessories

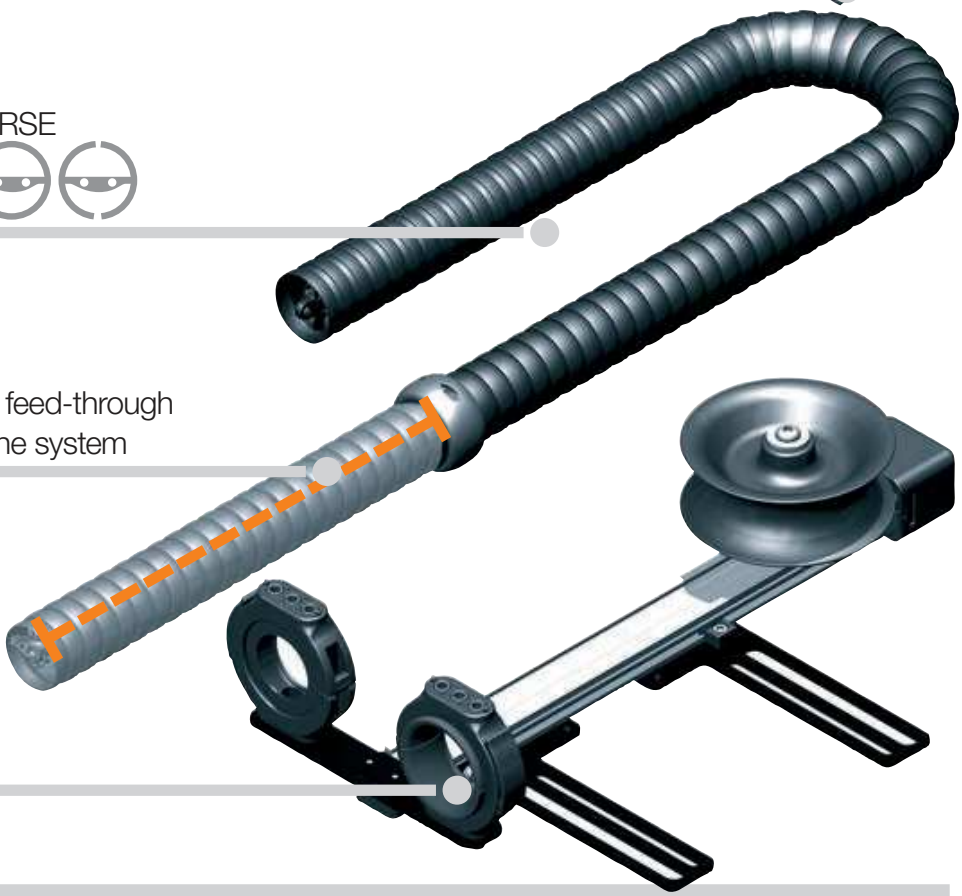
RSE and matching e-chains®



System design | RSE and matching e-chains®

Cover for additional installation space
on the robot, optional: TR.RSE.40.**COVER**

Matching triflex® R e-chains® for RSE
TRC.RSE.40.058.LLLL.0
TRE.RSE.40.058.LLLL.0.B



Overall length =
additional length from the gliding feed-through
LLLL + the chain length within the system

RSE system
(e-chain® not included) +
Mounting bracket +
Gliding feed-through =
TR.RSE.40.L or **TR.RSE.40.R**

Sample order of a complete TR.RSE system, Ø Index 40, fixed end on the left, including cover and e-chain® (standard length: 500 mm)

System	Insert Ø index **XX** / select fixed end **.L / .R**	TR.RS.40.**L**
+ Cover	Insert Ø index **XX** / Insert Ø index **XX** (cover optional)	TR.RSE.40.COVER
+ e-chain®	Insert ø-index **XX** / Insert bend radius ***R*** / Insert standard length **LLLL**	TRC.RSE.40.058.500.0

Order text: TR.RSE.40.L + TRE.RS.40.COVER + TRC.RSE.40.058.500.0

TRC.RSE.40.058.LLLL.0
TRE.RSE.40.058.LLLL.0.B

- Default colour black
- Additional length
- ***R*** Bend radius
- Ø Index
- System
- e-chains® series

triflex® R | RSE | For series TRC·TRE | Accessories

RSE e-chains® and cable length calculation

Product range | Matching e-chains® for RSE

Ø Index		Part No. **TRC** enclosed	Part No. **TRE** "easy" design
40.	▶	TRC.RSE.40.058. **LLLL**.0	TRE.RSE.40.058. **LLLL**.0.B

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

e-chains® standard lengths*

LLLL [mm] | **500** | **750** | **1000** | **1250** |

Part No. with desired value for the standard length **LLLL** (measured from the gliding feed-through) corresponds to the robot arm length from axis 3. Supplement to **TRC.RS.60.087.500.0, for example**

Calculating the overall chain length | RSE e-chains®

Ø Index		Bend radius *R* [mm]	Chain length* [mm]	Number of e-chain® links	Total e-chain® length [mm]
40.	▶	058	904	65	**LLLL** + 904

*Values are related to the chain length within the system

Please add the chain length within the system to the standard length **LLLL** (measured from the gliding feed-through) to get the **overall chain length**