

# twisterband advantages



## Up to 7,000°\* rotary movements in small spaces - twisterband

With the compact igus® twisterband, rotations of up to 7,000°\* can be achieved cost-effectively, even in confined spaces. Energy, data and media are securely guided.

- Up to 7,000° rotation horizontally and 3,000° rotation vertically
- Rotary speeds of up to 180°/s possible
- Openable with film hinge or openable "easy" design
- HD version with strong pin and hook connection for an even longer service life
- Compact, modular and light
- Strips can be shortened as required
- Minimum installation spaces, fits tightly around the rotary axis
- Cost-effective and easy to fill

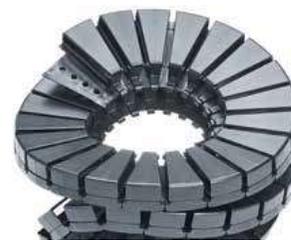
### Typical industries and applications

- Cable reels ● Robots (robot arms, axis 1/6, SCARA robots)
- Machine tools ● Medical equipment
- Radar and telescope equipment ● Aerospace, test, measurement, handling, lifting and installation equipment
- Wind turbines (e.g. blade adjustment)
- Wherever rotary unions are used

\*Rotary movements up to 3,600° can be ordered from stock. Above 3,600°, please contact igus®.

# Selection table

Series	Inner height <i>hi</i> [mm]	Inner width <i>Bi</i> [mm]	Ø <i>X<sub>1</sub></i> [mm]	Ø <i>X<sub>2</sub></i> [mm]	≥ <i>R</i> [mm]	≤ <i>R</i> [mm]	≤ <i>d1</i> [mm]	Interior separation	Opening principle	igus® online
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**twisterband**  
e-chain® links on a strip.  
Openable with film hinge  
or openable "easy" design

TB12.23.9	9	23	40	140	024	035	7	–	●	▶ <a href="http://www.igus.eu/twisterband">www.igus.eu/twisterband</a>
TB20.44.12	12	44	50	220	034	057	9	–	●	▶ <a href="http://www.igus.eu/twisterband">www.igus.eu/twisterband</a>
TB20.44.18	18	44	50	220	034	057	14	yes	●	▶ <a href="http://www.igus.eu/twisterband">www.igus.eu/twisterband</a>
TB29.27.22	22	27	200	320	069	082	17	yes	●	▶ <a href="http://www.igus.eu/twisterband">www.igus.eu/twisterband</a>
TB30.75.22	22	75	90	330	044	077	17	yes	●	▶ <a href="http://www.igus.eu/twisterband">www.igus.eu/twisterband</a>



**twisterband HD**  
e-chain® links with strong pin and hook connection.  
Openable with film-hinge

TBHD12.24.11	11	24	40	140	024	035	10	yes	●	▶ <a href="http://www.igus.eu/twisterbandHD">www.igus.eu/twisterbandHD</a>
TBHD20.44.18	18	44	50	220	037	063	14	yes	●	▶ <a href="http://www.igus.eu/twisterbandHD">www.igus.eu/twisterbandHD</a>
TBHD30.75.22	22	75	90	330	044	077	17	yes	●	▶ <a href="http://www.igus.eu/twisterbandHD">www.igus.eu/twisterbandHD</a>
TBHD42.135.30	30	135	90	500	056	119	24	yes	●	▶ <a href="http://www.igus.eu/twisterbandHD">www.igus.eu/twisterbandHD</a>

Other sizes available upon request. *X<sub>1</sub>* = inner machine limit *X<sub>2</sub>* = outer machine limit

Opening system: ● = "easy" design ● = with closure

 The complete product range with ordering options, D CAD, configurators, PDF and application examples ▶ [www.igus.eu/twisterband](http://www.igus.eu/twisterband)

 Available from stock. Ready to ship in 24 - 48hrs.\*  
\*Average time before the ordered goods are dispatched.

# twisterband features



A central shaft must be installed for horizontal orientation angles of rotation above 1,500°



Max. angle of rotation: as a rule of thumb: each segment gives 180° = 360° more rotation



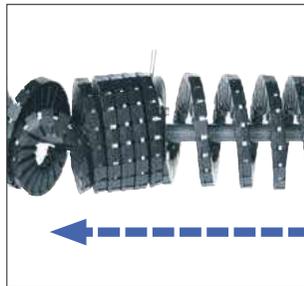
igus® twisterband: minimum installation space, fits tightly around the rotary axis



Film hinge: easy access and quick filling with cables and hoses



Compact, modular, cost-effective - up to 7,000° rotary movement\* in the most confined spaces



Can be reliably used in various installation positions (horizontal: 7,000° and more). Limited length compensation possible



The twisterband HD is an advanced version of the standard twisterband ...



... instead of bands with integral hinges, the twisterband HD version is composed of separate e-chain® links with the pin/hook connecting system ...



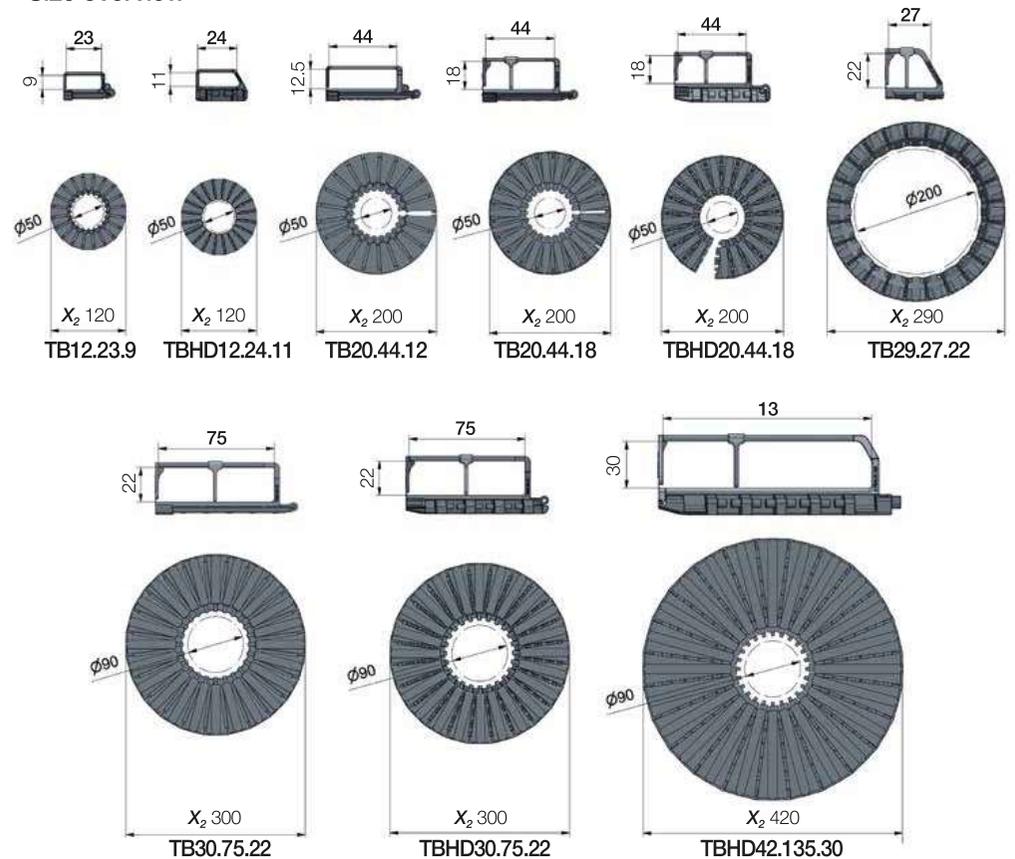
... the advantage is a defined radius with higher strength.

# Technical data

	Speed / acceleration*	180°/s
	twisterband - material - permitted temperature °C, igumid® TE	0°C / +70°C
	twisterband HD - material - permitted temperature °C, igumid® G	0°C / +80°C
	Flammability class, igumid® G	VDE 0304 IIC UL94-HB
	Flammability class, igumid® TE	VDE 0304 IIC UL94-HB

\*Speed / acceleration for TB29.27. upon request

## Size overview



**i** Bi = Inner width e-chain® Xi = Inner machine limit  $\geq R$  = Minimum bend radius e-chain® d1 = Max. cable diameter  
 hi = Inner height e-chain® Xo = Outer machine limit  $\leq R$  = Max. bend radius e-chain® **XX** = Number of strips

