

# T3 Light, highly flexible and low-vibration

clean-  
room



## Advantages of the T3 system:

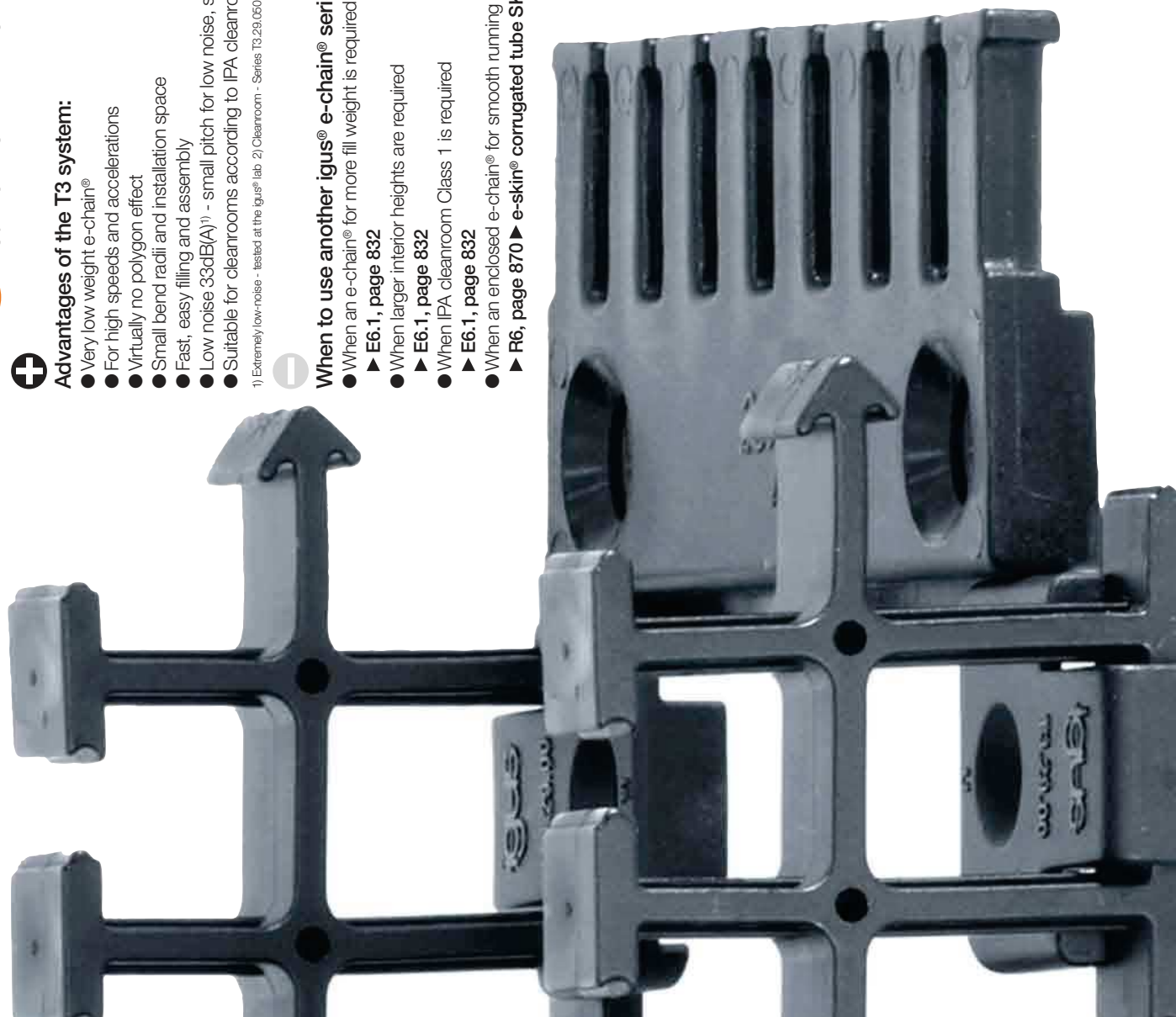
- Very low weight e-chain®
- For high speeds and accelerations
- Virtually no polygon effect
- Small bend radii and installation space
- Fast, easy filling and assembly
- Low noise 33dB(A)<sup>1)</sup> - small pitch for low noise, smooth running
- Suitable for cleanrooms according to IPA cleanroom Class 1<sup>2)</sup>

1) Extremely low-noise - tested at the Igu® lab 2) Cleanroom - Series T3.29.050.038.0



## When to use another igus® e-chain® series:

- When an e-chain® for more fill weight is required
  - ▶ E6.1, page 832
- When larger interior heights are required
  - ▶ E6.1, page 832
- When IPA cleanroom Class 1 is required
  - ▶ E6.1, page 832
- When an enclosed e-chain® for smooth running is required
  - ▶ R6, page 870 ▶ e-skin® corrugated tube SK / SKS / SKY, page 812



# Smooth running T-band", quiet, ost-effective T3 ystem

3 T3 system combines low noise operation, ple assembly and economy. The side nds, which snap together, replace a ventional pin and bore connection and vent relative movements between the its giving extremely low wear. This means ually no wear or abrasion (cleanroom). The el geometrical shape of the t-band, means it hardly any polygon effect is generated in eration. The t-band therefore rolls in a very ooth arc, giving extremely low vibration and se. In order to reduce the manufacturing d installation costs, the t-band is made in a yment of 8 links. Due to its low mass, the s® t-band, is suitable for applications with / fill weights and short strokes, combined h high speeds and accelerations.

extremely low-noise - tested at the igus® lab 2) Cleanroom - Series 3.050.038.0

## ical industries and applications




- Printer and plotter
- Cleanroom
- Applications
- Production and processing of microconductors
- Optics
- Pick and place machines
- Measuring technology

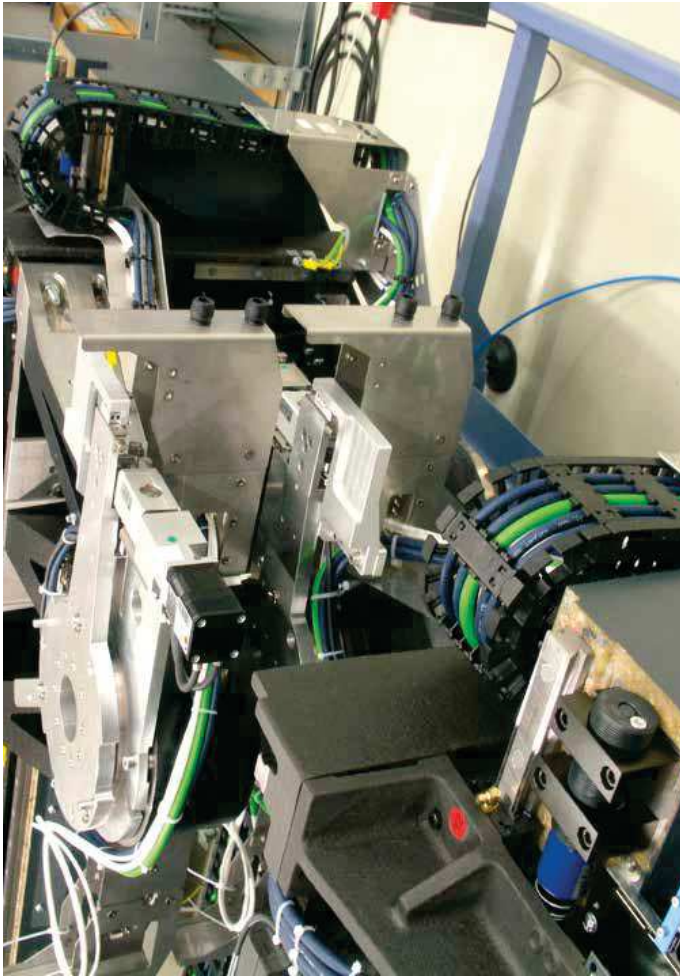


Qualification Certificate<sup>3)</sup> - Report IG 1303-640-1: Class 2, according to DIN EN ISO 14644-1 for system series T3.29.050.038 at v = 0.5m/s, 1.0m/s, 2.0m/s

igus® tests at 1m measuring distance: = 33dB(A) for T3.29.050.038.0 at v = 1m/s and 26.5dB(A) basic sound level



Series	Inner height <i>h<sub>I</sub></i> [mm]	Inner width <i>Bi</i> [mm]	Outer width <i>Ba</i> [mm]	Outer height <i>ha</i> [mm]	Bend radius <i>R</i> [mm]	Unsupported length ≤ [m]	Page
<div><div>System T3 - t-shaped band e-chains® crossbars removable along the inner and outer radius</div></div>							
T3.29.	29	30 - 140	55 - 165	35	038	≈ 1,45	940
<div><div>Available from stock. Ready to ship in 72hrs.*</div><div>*Average time before the ordered goods are dispatched.</div></div>							
<div><div>Further information about igus® cleanroom e-chains® and the new, unique igus® cleanroom laboratory for IPA cleanroom Class 1 components ► From page 144</div></div>							







T3 system on the Z-axis of a positioning system. It has very low noise and vibration

igus 3D CAD, configurators, service life calculation and more ► [www.igus.eu/T3](http://www.igus.eu/T3)

T3 | Options and order keys


Options with order keys | Examples based on series T3.29

	Standard	NC version - (No Camber) without pretension	Reverse Bend Radius (RBR) for circular movements
	Part No. Standard	Part No. NC version	Part No. RBR
			
	T3.29.050.R.0	T3.29.050.R.0.NC	T3.29.050.038/R2.0

	Ready to ship in 72hrs.*	Ready to ship in 12 business days*	Ready to ship in 12 business days*
	*Average time before the ordered goods are dispatched.		

Order example | Order key and colour examples | Examples based on series T3.29

	Order example for complete e-chain® (1.0m), colour black, with mounting brackets and interior separation:		
e-chain® (1.0m)	Please indicate e-chain® length or number of links: 1.0m or 67 links		T3.29.050.038.0
+ Mounting brackets	1 set (with tie-wrap plates)		T3.29.050.12PZ
Interior separation	with 2 separators assembled every 2nd link		2 x .29.1.1
Order text:	1m T3.29.050.038.0 + T3.050.12 + 2 x 29.1.1		

	Order key	Order index for colour options			
	t-shaped band e-chains®	T3.29.050.038.0			
		Colour	Order index	Colour	Order index
		Black	.0	Orange	.2
		Silver-grey	.31	Yellow	.4
		White	.1	Light grey	.14
		Grey-white	.1S		
	Series / Type				
	Width index (depends on B)				
	Band radius R				
	Colour index (standard black)				
	Black e-chains® ready to ship in 72hrs.* Above special colours upon request.				

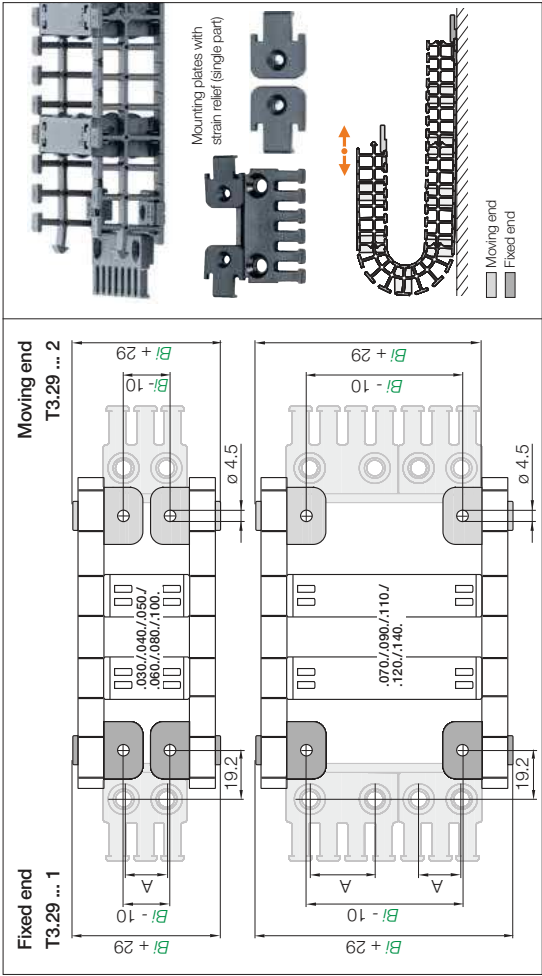
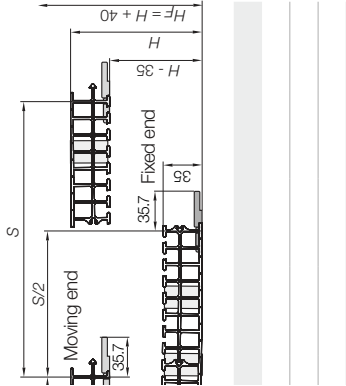




ing the inner and outer radius

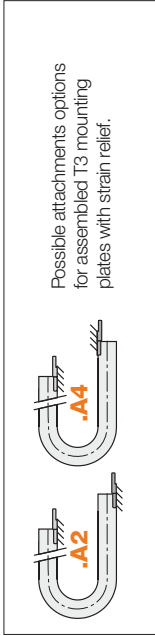
nd radii	T3.29 [kg/m]
	≈ 0.40
	≈ 0.42
	≈ 0.44
	≈ 0.46
	≈ 0.48
	≈ 0.50
	≈ 0.51
	≈ 0.53
	≈ 0.55
	≈ 0.57
	≈ 0.59

Inner height [mm]	29
Pitch [mm/link]	15
Links/m	67
corresponds to [mm]	1,005
e-chain® length	$L_K - S/2 + K$



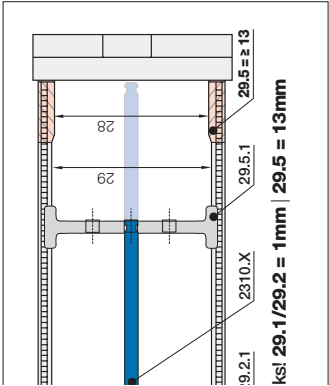
Width index	Part No. full set with tiewrap plates	Part No. full set without tiewrap plates	A [mm]	Bi [mm]	Number of teeth
030. ▲	T3.29.030.12PZ	T3.29.030.12	15	30	3
040. ▲	T3.29.040.12PZ	T3.29.040.12	20	40	4
050. ▲	T3.29.050.12PZ	T3.29.050.12	30	50	5
060. ▲	T3.29.060.12PZ	T3.29.060.12	40	60	6
070. ▲	T3.29.070.12PZ	T3.29.070.12	15 + 20*	70	7
080. ▲	T3.29.080.12PZ	T3.29.080.12	60	80	8
090. ▲	T3.29.090.12PZ	T3.29.090.12	20 + 30*	90	9
100. ▲	T3.29.100.12PZ	T3.29.100.12	80	100	10
110. ▲	T3.29.110.12PZ	T3.29.110.12	30 + 40*	110	11
120. ▲	T3.29.120.12PZ	T3.29.120.12	40 + 40*	120	12
140. ▲	T3.29.140.12PZ	T3.29.140.12	60 + 40*	140	14

\*Strain relief consisting of 2 tiewrap plates



Strain relief e.g. clamps, tiewrap plates, nuggets and clips are available from stock. The complete chainfix range with ordering options ▶ From page 1392





**ard - for any application**

or with a wide base for maximum holding force.

**en faster installation**

one side for high holding force, narrow on opposite  
easy cable fitting.

**securely in preset increments**

operator for exact positioning. Recommended for  
unt applications.

**ntal separation**

h shelf locks securely into separators at both ends,  
fixed width. Can be used as full-width or partial shelf.

assembled	X [mm]	unassembled	assembled
2310.060	087	2300.87	2310.087
2310.062	090	2300.90	2310.090
2310.065	100	2300.100	2310.100
2310.070	103	2300.103	2310.103
2310.075	110	2300.110	2310.110
2310.077	120	2300.120	2310.120
2310.080	125	2300.125	2310.125



SUS



Cleanroom-suitable igus® chainflex® cables are safely guided in a T3 e-chain®. 1,125 IPA certified chainflex® cables according to ISO Class 1 or Class 2 are available from stock

igus 3D CAD, configurators, service life calculation and more ► [www.igus.eu/T3](http://www.igus.eu/T3)