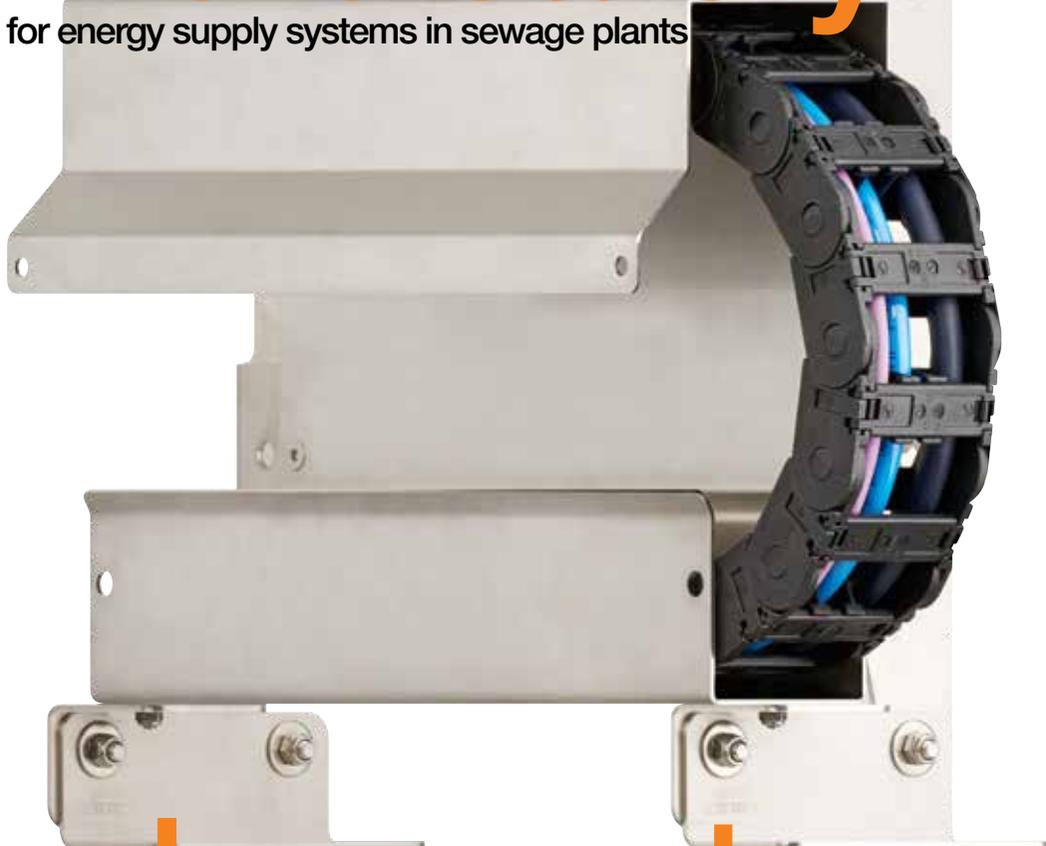


# More safety ...

for energy supply systems in sewage plants



# ... less cost

tough, maintenance-free e-chains



Sewage plants must work reliably and without problems. They operate continuously and in variable weather conditions such as sun, wind, snow and ice.

The basic flizz® system has been tested in our in-house laboratory and is also field-proven in hundreds of installations. This helps avoid downtime, reducing operating and maintenance costs for the plant.

Whether in longitudinal scrapers, grit or fat traps: igus® supplies energy chains, cables and guide troughs that are designed specifically for sewage treatment plants. They are available as single components or as ready-built complete systems – all from a single source. From stock.

► More information at [www.igus.eu/sewage-plants](http://www.igus.eu/sewage-plants)



#### e-chains®

- Guide cables reliably and safely, while protecting them from damage
- Cables cannot tangle or get damaged
- Modular design allows for changes, even after installation

► [igus.eu/e-chains](http://igus.eu/e-chains)



#### chainflex® cables

- For continuous use outdoors
- No cutting costs
- No minimum order quantity
- 36-month guarantee\*

► [igus.eu/chainflex](http://igus.eu/chainflex)



#### basic flizz®

- Protection against adverse weather conditions
- Cables are guided reliably
- Long service life, online calculation
- Easy wall, floor or ceiling mounting
- Travels of 200 m and more with igus® rol e-chain®
- Telescopic moving end arm
- Standard assembly, including moving end towing arm, available from stock

► [igus.eu/basicflizz](http://igus.eu/basicflizz)

\* Guaranteed for 36 months or 10 million double strokes (up to 5 million double strokes for cables in the chainflex® M family). Whichever occurs first. The number of double strokes depends on the type of installation and cable quality. These are described in the current catalogue, data sheets and in service life calculator at: [www.igus.eu/chainflexlife](http://www.igus.eu/chainflexlife)

## Potential savings with igus®

- No need to regularly replace the cables
- Cables cannot tangle or get damaged
- No power use as with motorised cable reels
- Cable lengths up to 50% shorter than festoons
- No slip-ring contact

## Where igus® solutions are already successfully in use ...



Volmetal sewage plant  
Travel: 26m



Sand traps; sewage plant in Bamberg (Germany)  
Travel: 26m



Longitudinal scraper, installed in the tank at Plauen sewage plant (Germany)  
Travel: 53m



Sand traps with telescopic moving end arm  
Travel: 19m

# Tested for billions of movements

All chainflex® cables are tested with e-chains® at our in-house test lab. Using the test data, the expected service life of the e-chains® and cables can be calculated.



- ▶ Largest test-lab in our industry with 2,750m<sup>2</sup> floor area
- ▶ 2 billion test strokes a year for highly flexible cables
- ▶ 4,100 tests and 7,512 result added to the database. Long-term durability.  
10 billion e-chain® cycles per year in the e-chains® and chainflex® laboratory
- ▶ 12,000 tribological tests on over 50 different types of test machine
- ▶ [igus.eu/testlab](http://igus.eu/testlab)



- ▶ New installation
- ▶ Repair
- ▶ Modernisation
- ▶ Inspection
- ▶ Maintenance



[igus.eu/installationservice](http://igus.eu/installationservice)



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e-chain systems® ... chainflex® cables ... iglidur®  
... igubal® ... drylin® bearing technology ...

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plastics for longer life®