

SPANN-TWIST: LIGHTWEIGHT 3D-PRINTED CHAIN TENSIONER MADE OF HIGH-PERFORMANCE PLASTIC

PRODUCT FEATURES



CURVED LEVER MOTION

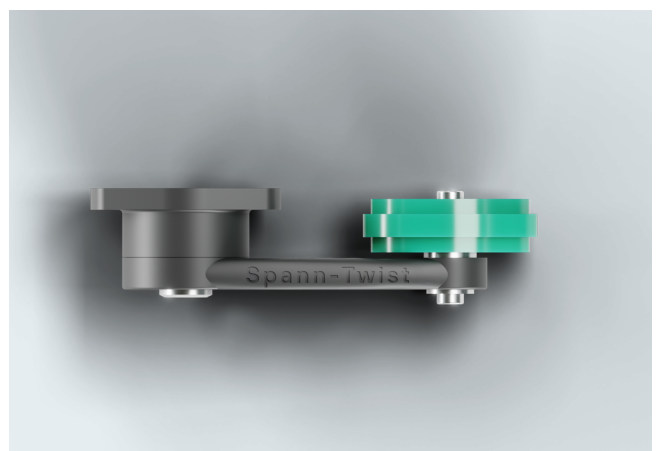
Tensioning stroke up to 60 mm possible

EASY TO INSTALL

Multi-hole plate for flexible mounting and compact design;
CAD data available

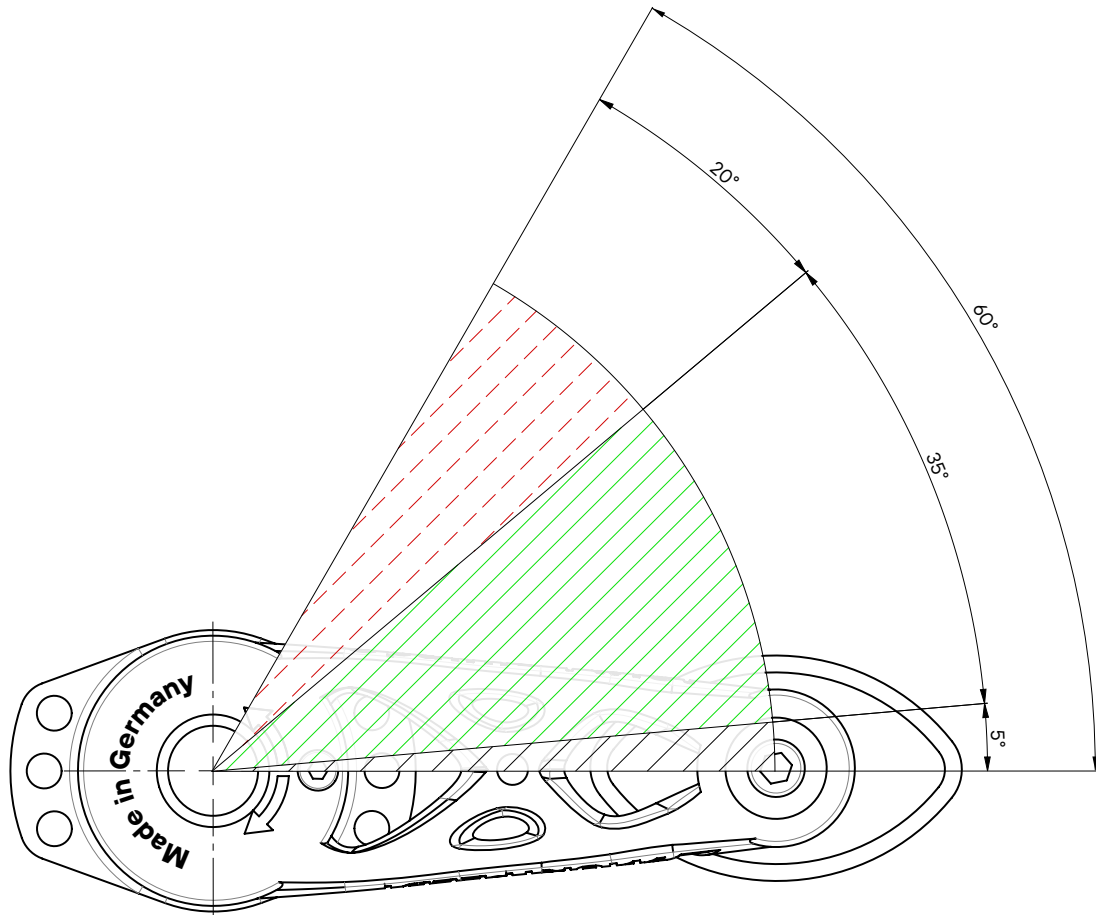
DESIGN FLEXIBILITY

Complex geometries for tight installation spaces, without
tooling costs



TECHNICAL INFORMATION

SPANN-TWIST: Lightweight 3D-printed chain tensioner, made of high-performance plastic



Range	Degree	Travel	Tensioning Force (Light)
Red zone	40° - 60°	8 mm	25 - 0 N
Green zone	5° - 40°	50 mm	50 - 25 N
Preload	0° - 5°	20 mm	65 - 50 N

INSTALLATION INSTRUCTIONS

PREPARATION

The Spann-Twist is delivered in a **locked and secured state**.

The **locking screw (①)** is removed and the chain tensioner is activated only immediately before commissioning.

Installation must be performed **exclusively by qualified personnel**.



INSTALLATION STEPS

1. Positioning:

Position and align the **Spann-Twist in the locked position** at the designated location on the machine.

2. Mounting:

Drill mounting holes for **M6 screws** and secure the Spann-Twist properly.

*An adapter plate is required for chain sizes **10B-2** and larger.*

3. Release the lock:

Do not remove the locking screw (①) until installation is complete.

This releases the lock and activates the chain tensioner.

(Note: See illustration – position and orientation of the locking screw)

4. Inspection:

Check that the tensioning range (**max. 40° / 60 mm**) is fully accessible. Ensure that the chain is properly seated against the guide rail.

FEATURES AND VALUES

Features	Values
Tensioning range	max. 40° / 60 mm
Tensioning force	Light: 65-0 N depending on tensioning range Heavy: available upon request
Material	Arm & Housing: PA2200 (3D-printed) Slide profile: ORIGINAL "S"@ green Torsion spring: V2A
Temperature range	Standard version: -40 °C to +60 °C Custom versions available upon request: up to +200 °C
Compatible chains	DIN 8187: 06B-1 to 12B-1 Duplex and triplex upon request DIN 8188: ASA-35 to ASA-60
Maximum chain speed	max. 1 m/s

CUSTOM MODELS

In addition to our standard versions, we offer the possibility to implement **custom solutions**.

We can adapt the **geometry, tensioning characteristics, materials, or operating parameters** in close coordination with the customer.

Please feel free to contact us for further information.

SAFETY INSTRUCTIONS AND MAINTENANCE



SAFETY INSTRUCTIONS

- Do not attempt to open the housing – Parts are under spring pressure
- Disconnect the machine from the power supply before installation
- Secure the Spann-Twist during maintenance (use the locking mechanism)



MAINTENANCE

- Perform regular visual inspections of the sliding profile.
- To extend its service life, the sliding profile can be rotated.
- If there is significant wear, the sliding profile must **be replaced**.