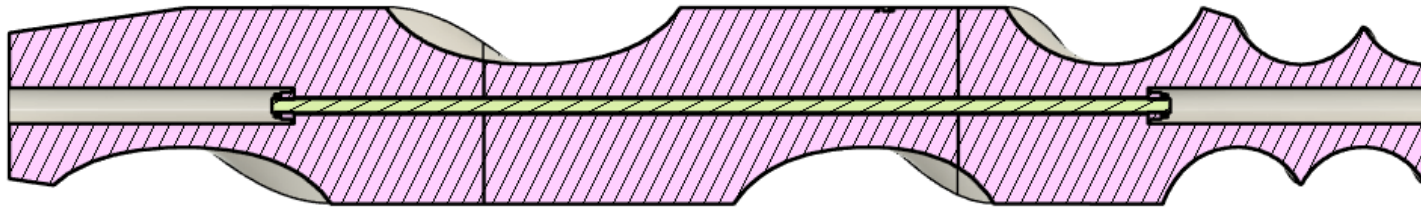


Screw Assembly Options

A customer guide to modular construction and retention options

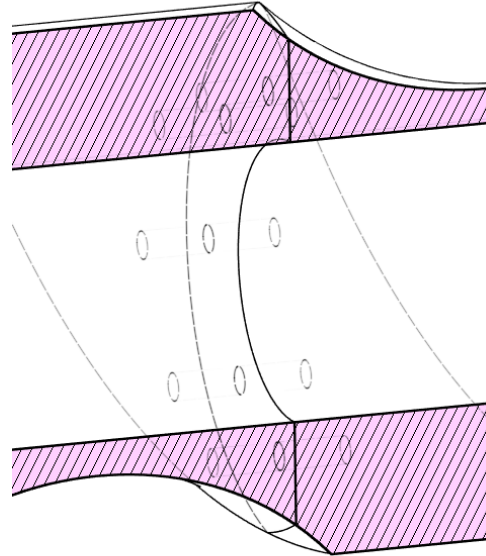
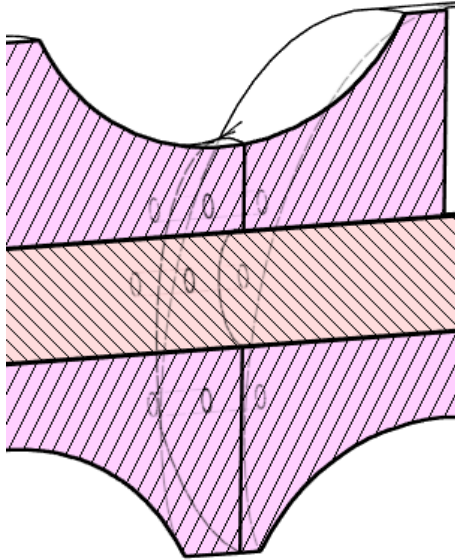


MODULAR CONSTRUCTION

Segments up to 300 mm | Reinforced joints | Three proven retention approaches

Common construction

The foundation used across all screw assembly variants



Modular, aligned and reinforced

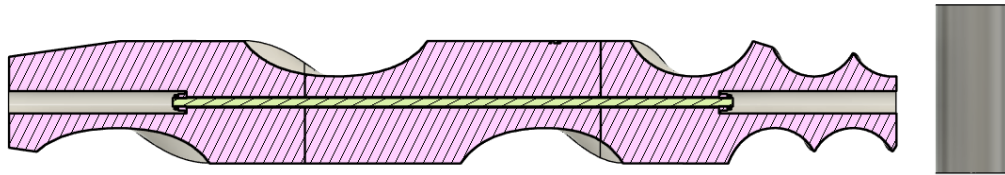
Each screw is produced in practical segments of up to 300 mm. Stainless-steel spring pins connect the segments, maintain alignment and strengthen each joint.

This modular approach makes longer and application-specific screws possible. The pins hold the assembly together during handling, while one of three retention methods provides the required long-term security.

RELIABLE ALIGNMENT DURING HANDLING

Internal threaded rod

Axial clamping without an external shaft



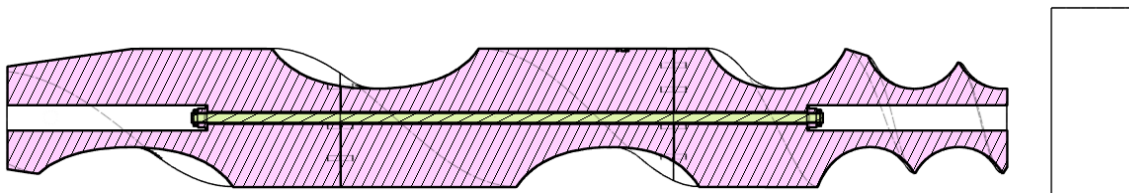
BEST FOR SHAFTLESS DESIGNS

HOW IT WORKS

A threaded rod runs through the center of the screw and pulls the segments together. This creates continuous axial clamping while leaving the outside of the screw free from a supporting shaft.

CUSTOMER BENEFITS

- Compact solution with no external supporting shaft.
- Keeps the outside of the screw clear for direct mounting through the plastic.
- Continuous axial clamping helps keep every segment securely together.
- A good choice when simple end access is available.



External shaft with mechanical clamping

The shaft provides support and axial retention

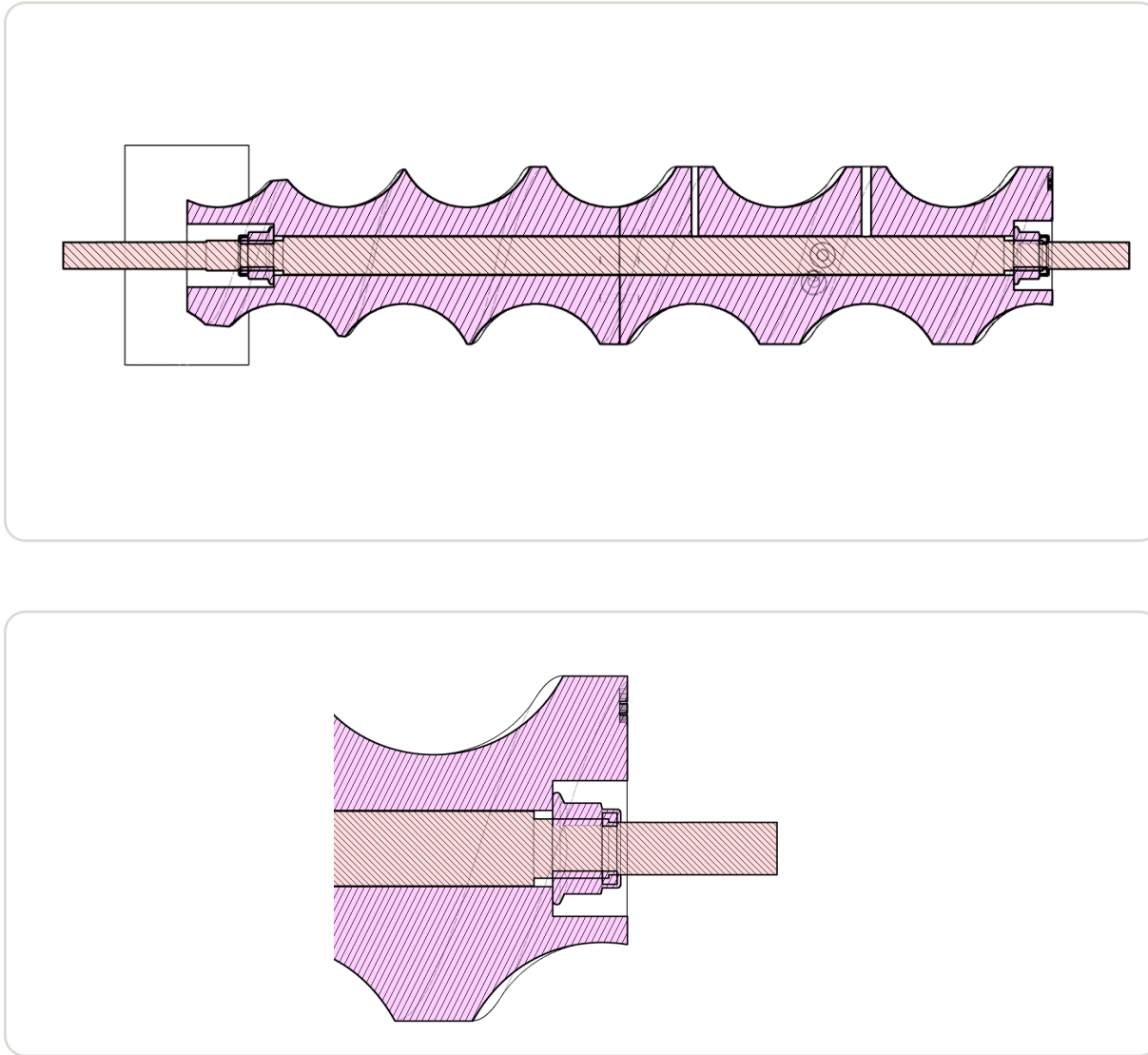
BEST WHEN SHAFT ENDS ARE ACCESSIBLE

HOW IT WORKS

The segments are assembled around a supporting shaft. When the shaft ends are accessible, end clamping compresses and securely retains the complete screw assembly.

CUSTOMER BENEFITS

- External shaft support with positive mechanical retention.
- Easy to understand, inspect and service when the shaft ends remain accessible.
- Suitable for installations where end nuts or clamping features can be accommodated.
- Often the preferred shafted option when mechanical clamping is practical.



Bonded assembly

Permanent retention where external clamping is not possible

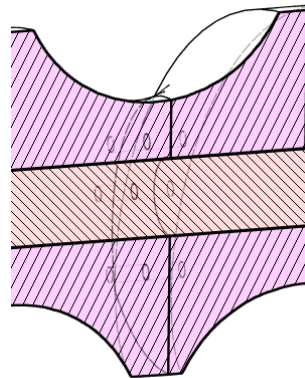
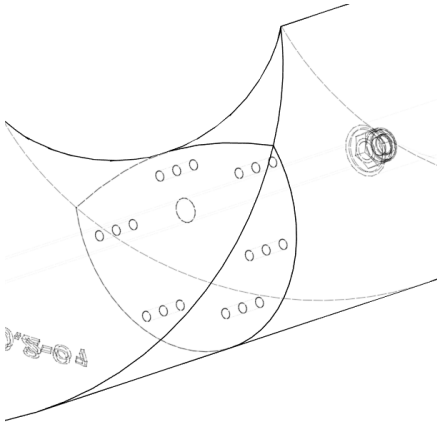
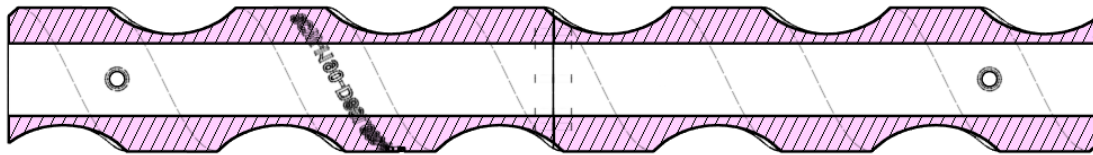
BEST FOR INACCESSIBLE SHAFT ENDS

HOW IT WORKS

Where an external shaft is required but cannot be clamped at the ends, the segments are permanently bonded together with a high-strength two-part adhesive. The spring pins maintain alignment and add mechanical reinforcement.

CUSTOMER BENEFITS

- Provides a clean solution where external nuts or clamping features cannot be used.
- Retains the benefit of an external supporting shaft in space-constrained installations.
- Spring pins provide alignment and reinforcement while the adhesive secures the assembly.
- Adhesive selection can be matched to the materials and operating environment.





Selection overview

Choose the retention method to suit the installation constraints

01

Internal threaded rod

BEST SUITED FOR
No external shaft required

HOW IT IS SECURED
Threaded rod + locknuts + thread-locking compound

02

External shaft / clamped

BEST SUITED FOR
Shaft ends accessible

HOW IT IS SECURED
Mechanical end clamping on one or both sides

03

External shaft / bonded

BEST SUITED FOR
External clamping unavailable

HOW IT IS SECURED
High-strength two-part adhesive at segment joints

GENERAL NOTE We can help select the most suitable assembly type for your mounting arrangement, access requirements and operating conditions.