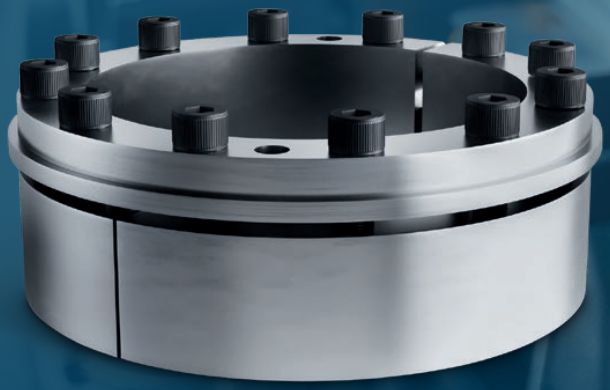
KEEP IT SIMPLE

FASTEX CLAMPING ELEMENTS FOR THE SHAFT-HUB CONNECTION



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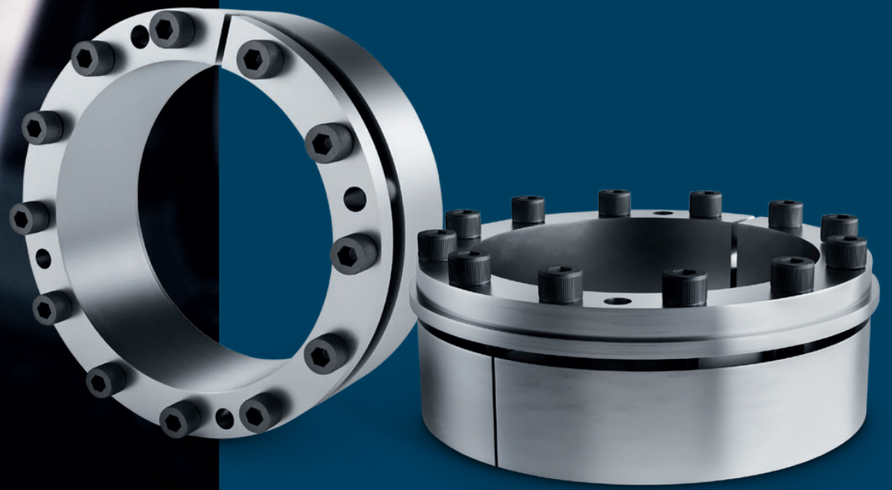
FLENDER

FOR QUICK, EASY AND SECURE CONNECTIONS

Shaft-hub connections are found in almost every industrial application. This element, which is crucial to mechanical engineering, must meet a simple requirement: transmit torque and power reliably and efficiently. The broad range of versions is classified into groups: mechanical connections, material connections and friction connections.

The new **FASTEX® series** expands Flender's product range with compact and backlash-free clamping elements for friction connections. This adds another option for connecting the shaft and hub beyond the classic solution that uses a feather key. This series increases the variety of combinations and the flexibility available in the Flender coupling portfolio. The simple design of these connections enables quick assembly and disassembly, which makes service easy and convenient.



PORTFOLIO FOR A WIDE RANGE OF APPLICATIONS

Flender currently offers ten types of internal clamping sets and two types of external clamping sets. They differ in terms of functionality: some versions are self-centering and others are not. The correct clamping set can be selected based on the application.

Users can also decide whether or not an axial displacement of the hub during assembly is permissible. Based on machine and plant design, units can be selected with regard to dimensions, torque and design safety. Flender offers solutions for many applications and industries.

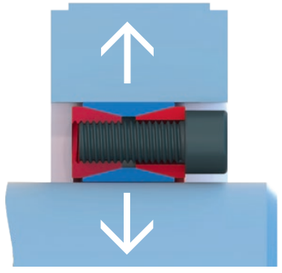
INTERNAL CLAMPING SET

EXTERNAL CLAMPING SET

The mode of operation of the clamping elements is based on pushing conical pressure rings onto a conical pressure sleeve using clamping screws.

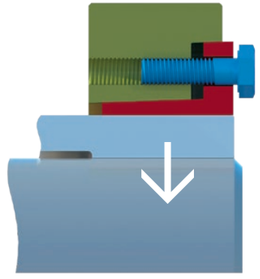
INTERNAL CLAMPING SETS

In these solutions, radial expansion at the contact surfaces generates radial forces toward the inside and the outside, which establishes the friction connection between the parts transmitting the torque and the forces. This means that the internal clamping sets participate in the flow of forces.



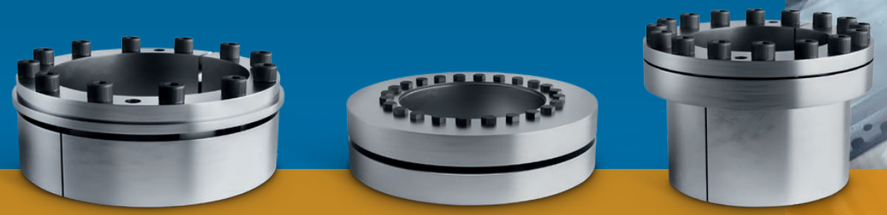
EXTERNAL CLAMPING SETS

Here radial expansion generates radial forces only toward the inside in the friction connection at the contact surfaces. This means that the external clamping sets do not participate directly in the flow of forces, but instead apply the forces to the shaft through the hub. They are particularly suitable for use with large shaft diameters and high torques.



ADVANTAGES

- Backlash-free, easy to align
- High power capacity
- Easy to use in couplings
- Compact design, high concentricity
- Low contact surface pressure
- Transmission of torques, axial and lateral forces, bending moments
- Quick assembly and disassembly
- Detachable connection, can be reused
- Perfectly suited for operation in reverse



APPLICATION AREAS

Chain drives, belt drives, elevators, cranes, sawmills, conveyor belts, mining, mills, mixers, fans, forklift trucks, pumps, agricultural machinery, compressors, presses, crushers, comminuters, packaging machines, cable winding machines, paternoster lifts, industrial furnaces, extruders, paper machines, reactors, marine technology, textile plants, printing systems, driers, turbines

INTERNAL CLAMPING SETS

Series	Shaft diameter D1 [mm]	Torque range TCI [Nm]	Self-centering	Not self-centering	With axial hub displacement	Without axial hub displacement
FASTEX IC110	19–220	500–82,000	•		•	
FASTEX IC120	18–400	370–487,000	•		•	
FASTEX IC130	5–50	5–1,900	•		•	
FASTEX IC210	19–220	300–59,900	•			•
FASTEX IC220	18–400	290–342,000	•			•
FASTEX IC230	14–50	287–1,796	•			•
FASTEX IC240	24–600	700–1,640,000	•			•
FASTEX IC250	6–130	11–25,000	•			•
FASTEX IN110	6–500	2–278,000		•	•	
FASTEX IN220	17–520	260–861,000		•		•

EXTERNAL CLAMPING SETS

Series	Hollow shaft/ hub diameter [mm]	Torque range TCI [Nm]	Self-centering	Not self-centering	With axial hub displacement	Without axial hub displacement
FASTEX EC210	16–500	70–1,915,000	•			•
FASTEX EC220	14–500	28–1,460,000	•			•

WE MOVE the WORLD

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