

# Robotics – Tool Changers

## WPR5000 Series

### MAXIMUM FLEXIBILITY AND EFFICIENCY

The WPR5000 series tool changer features a flat, compact design that minimizes moment load, offers increased repeatable accuracy and maximizes the tightening stroke. The high-load capacity ensures that even heavy tools weighing up to 500 kg or more are handled with ease.



Up to 5 million maintenance-free cycles



Protection class according to IEC 60529



Corrosion-protected



Mechanical self-locking



Magnetic field sensor



Up to 8 energy element mounting points

### INTERNAL TECHNICAL COMPONENTS

#### Spring-Loaded Locking 1

Locking kinematics ensure safety and precision with both stationary and loose parts made of hardened corrosion-resistant steel components.

#### Integrated Pneumatic Feed-Through 2

A tubeless connection is possible with integrated axial and pneumatic feed-throughs.

#### Locking Bolts 3

Locking parts of hardened steel and bolts between stationary and loose parts provide high tightening stroke at maximum forces and torques.

#### Energy Elements 4

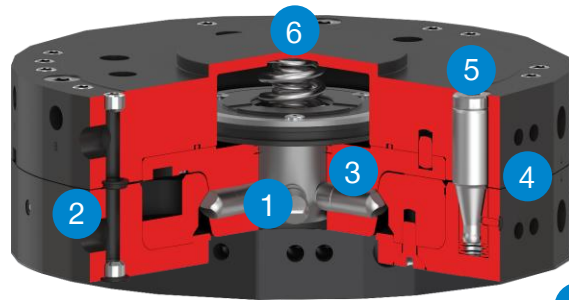
A nearly endless variety of optional energy elements transmit pneumatics, electrical signals, load, communication, and hydraulics.

#### Safety 6

Ensure safety via spring-loaded locking, which secures parts even during pressure drops or emergency stops.

#### Pre-Centering Feature 5

Pre-centering with conical pins ensures smooth changes and high rigidity.



#### Advantages – Here's Why it Stands Apart:

- **Bolt-Based Locking** – Delivers superior surface contact for higher load capacity and rigidity
- **Adapter-Free Integration** – For standard energy element connections
- **ISO-Compliant Flange Options** – Available in TK 40 to TK 160 sizes
- **Compact & Lightweight** – Flat, low-profile design

#### Storage Stations

Two storage stations are available 1) with an integrated in-plane axis compensation module and secure loose part locking or 2) the classic variant.

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