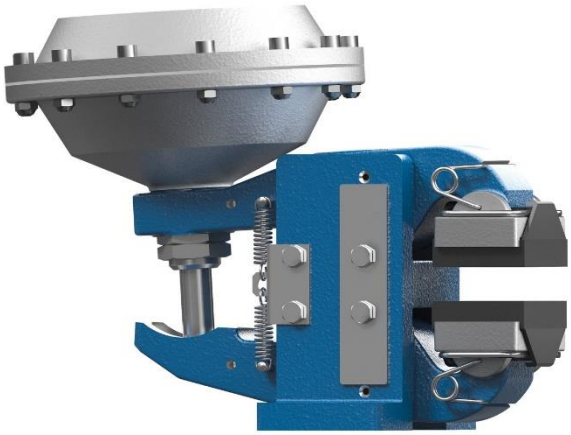
KTR extends its portfolio by a pneumatic brake system

Rheine, 25 March 2024 – **KTR has extended its portfolio of brakes by a pneumatic caliper brake. The new series „KTR-STOP PB“ can be used as an operating or holding brake being operated either actively or passively. It is designed as a construction kit system and available in seven sizes with braking forces of up to 31 kilonewtons. Main applications are general drive technology, automation, packaging machinery and test bench technology.**



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KTR-STOP PB consists of two brake levers that are swivel-mounted in the caliper housing. On the one end of the brake levers there are the brake pads with brake shoes and retaining springs. On the other end there is the actuator, in other words brake cylinder. The return springs and the splash plate are mounted on this side, too. Clamping of the brake is based on the principle of „action equals reaction“ so that one actuator is required at a time to apply the brake.

If the brake is designed as an active brake, the clamping force is generated by applying compressed air on the actuator. The brake is released via the return springs in the actuating element and/or the return springs on the brake caliper as soon as the actuator is depressurized. If the brake is designed as a passive brake, the clamping force is generated by pressure springs in the actuator. The brake is released by applying compressed air on the actuator.

The new series is designed as a construction kit system, consisting of various brake calipers and actuators. In total the system comprises seven sizes with braking forces of up to 31 kilonewtons. Some sizes can be provided with a sensor for checking the braking condition (brake released or applied). Depending on the application, the pneumatic caliper brake is provided with different brake pads. Here

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KTR is in a position to select between various compounds: standard, sinter metal, increased rubber share and graphitized. If requested, the wear of pad can be monitored by a wear sensor in the brake pads.

„Due to the construction kit system there are many possible combinations“, Michelle Sandmann who is responsible for the new brake system at KTR explains. „This allows us to respond flexibly to the diverse customer needs.“

Main applications are general drive technology, automation, packaging machinery and test bench technology.

KTR-STOP PB is selected and assembled in the „KTR Competence Center for Brake Systems“ in Schloß Holte-Stukenbrock/East Westphalia. Here is where KTR bundles its activities relating to brakes under the umbrella of KTR Brake Systems GmbH. Meanwhile the portfolio of KTR’s subsidiary company comprises three different brake systems with different characteristics: pneumatic, hydraulic or electromechanical.