

Press release

New floating caliper brake with one-piece brake caliper

Schloß Holte-Stukenbrock, 3 February 2017 – **KTR developed a floating caliper brake which is made of one single piece. The new XS series is optionally available with a hydraulic or electromechanical operating principle and can both be operated in an active and passive mode. The brakes are suitable for sub-zero applications with temperatures ranging down to - 40 °C.**

PR contact

Stefan Holtkoetter
T +49 5971 798-292
E s.holtkoetter@ktr.com

www.ktr.com/Press



Using this image for editorial purposes is free of charge (© KTR Brake Systems GmbH)

The brake caliper of the new XS series combines the housing, spacer plate, and counter plate as one piece and is made of special LT nodular iron. This makes the floating caliper brakes suitable for sub-zero applications with temperatures ranging down to -40 °C. All other components such as pad retainers, pistons and guide pins are made of steel. The brake pads are made of “organic mixture” or “sinter metal” and can easily be replaced by one single person. Depending on the application’s preference and basic conditions, the XS brake can be operated either hydraulically or electromechanically, with clamping forces up to 15 kN being generated in the passive design and 16.5 kN in the active design. The brakes are mounted to the respective machine each by two screws size M16.

“Since the brake caliper of the new series is made of one piece, there are no more exposed contact surfaces“, Fabian Liekam, Product Manager for Brake Systems in KTR explains. “In doing so we improved the brake’s corrosion

1/2



Press release

resistance. In addition, the one-piece design allowed us to extend the guide pins and double the number of bushings, improving the brake's floating operation and the efficiency of transmission of force from the caliper to the base plate. This makes the brake even stronger.“ The new floating caliper brakes series “XS” are intended for applications in the most demanding environmental conditions, both above or underground, onshore or offshore, and can be used both as service brakes, for high numbers of cycles, and as holding brakes.

The brakes are selected and adapted in the “KTR Competence Centre for Brake Systems” located in Schloß Holte-Stukenbrock/East Westphalia. At this location KTR pool their activities for brakes under the umbrella of KTR Brake Systems GmbH. Apart from developing and producing brake systems, tests and functional testing of prototypes and serial products are performed here as well. As an example, tests are performed on a universal brake test bench for rotor and yaw brakes, a tension test bench, a vibrating table or a cryogenic temperature cooling chamber allowing for tests with ambient temperatures down to - 40 °C.

No.: KBS-Li-17-01

PR contact

Stefan Holtkoetter

T +49 5971 798-292

E s.holtkoetter@ktr.com

www.ktr.com/Press