

Press release

New floating caliper brake with one-piece brake caliper

Schloß Holte-Stukenbrock, 3 February 2017 – **KTR developed a floating caliper brake the brake caliper of 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 brake is suitable for applications in the cryogenic temperature range down to -40 °C.**

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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 brake being qualified for applications in the cryogenic temperature range 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 „powder metal“ and can easily be replaced by one single person. Depending on the application's preference and basic conditions, the 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 bright contact surfaces“, Fabian Liekam, Product Manager for Brake Systems in KTR explains. „In doing so we improved the brake's corrosion

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resistance. In addition, the one-piece design allowed us to extend the pin guides and double the number of guide pins, improving the brake's floating operation with the power transmission from the brake caliper to the base plate being more consistently. This makes the brake even stronger.“ The new floating caliper brakes series „XS“ are intended for applications in the most demanding environmental conditions and can be used both as service brakes, for high numbers of cycles and as stop brakes, no matter whether this is above ground or underground, onshore or offshore.

The brakes are selected and adapted in the „KTR Competence Center 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.

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