

Newsletter

News from Universal Hydraulik

Spring 2013

Hannover Messe · Product lines extended · Cooling systems · Test stands · Customer applications



News from the Hannover Messe 2013

Universal Hydraulik GmbH presented at this year's Hannover Messe with a set of extensions of existing product lines. Universal Hydraulik GmbH is particularly well known for customized solutions for coolers and systems, but also for the high demand of quality.

HYBRID COOLING

ELECTRICAL HEATING

The Hybrid-design cooler and the EDH series has been extended further!

Universal Hydraulik GmbH has extended the Hybrid-design cooler series by the EKM-1700 (best performance) and by the SCM-1000 and -1700 (large water tubes).

Further innovations:

- Stainless steel material partly or fully available.
- Higher pressures or temperatures possible now.
- A new Bypass-solution replaces the external Bypass-Valve and -piping completely.



The electrical pre-heater (EDH-series) has been extended to 5 diameters or max. 90 kW heat capacity.

FAIL SAFE COOLING

The Fail Safe Heat Exchanger receives a new size now (2400)!



Universal Hydraulik GmbH expanding the manufacturing capabilities with the size 2400 (CKM-Series), which is the basis of the Fail Safe Heat Exchangers. Further innovations:

Fail Safe Heat Exchangers can now be ordered with Atex-approval (Atex II 2G IIB T3) or can be build for seawater applications.

Customer application Press (EKM + EDH):

Power pack for Gearbox and roller bearing cooling (Motor 2 x 450 kW, pressing force 1.000 to).

Request: operating temperature must be constantly between 25 °C and 35 °C.

Solution: pump and electrical pre-heater (EDH) are running before the press starts, up to 25 °C oil temperature.

Advantage compared to heating rods in-tank: The oil will be completely heated-up and not partly. After the press start to work the heater (EDH) will be turned off and from 32 °C onwards the oil-cooler (EKM) is activated by the water supply.



COOLING SYSTEMS

Cooling Systems from Universal Hydraulik GmbH

Universal Hydraulik GmbH offers special solutions of any kind, eg. Bypass-solutions to cool and filter a hydraulic system on the basis of the standard oil-air cooler series (LKI).

Further on is the oil-air cooler series (LKI) also now available for Atex-applications (Atex II 2G IIC T3).

Customer application Gearbox (LKI):

Oil conditioning for a gearbox (800 kW): In this example our customer has given a start-up viscosity of 5000 mm²/s and an environmental temperature of -40 °C to +35 °C. We easily found a solution with the well proven components from our modular assembly system (Heat Exchanger, pumps and filters). Universal Hydraulik GmbH designs any kind of oil conditioning system per request.

Test stands from Universal Hydraulik GmbH

Universal Hydraulik GmbH offers test stands to analyse parts, to measure series production and to test the burst pressure of parts since 25 years now. We produce test stands in the automotive sector for gear boxes, engine- and gear box mechatronics, ABS-tests, wheels and shock absorbers. We produce test stands in the industrial sector for hydraulic, pneumatic and leakage tests.



Customer application delta P - Test stand:

The shown Test stand investigates pressure drops of different hydraulic components. It will be up to 20 measure points regulated and the differential pressure drop is stored in a database. The temperature of the media is kept exactly between +/- 1 °K, which is no easy task at a flow rate of up to 750 l/min. and a 1.000 liter oil reservoir.