

Press Release
September 18, 2012

AMB 2012

Efficient and compact: Compact power pack for machining centers

The compact power pack type KA from HAWE Hydraulik SE, Munich, supplies the hydraulic consumers in machining centers with pressurized oil. It takes up little installation space and is notable for its low power consumption.

Its compact form is the result of its oil-submerged construction. Pump and motor are situated submerged in oil in the casing which doubles as the tank. In its smallest version the power pack is just about the size of a shoebox. This means that it can be easily integrated in any machine housing, helped by the fact that it can be installed vertically or horizontally. The minimum filling volume is 1.5 liters, with tank extensions available up to 9 liters.

Depending on the requirement, a radial piston pump for an operating pressure up to max. 700 bar or a gear pump for max. 200 bar is used. A dual-stage system with a combination of both types of pump improves energy efficiency since it considerably reduces the power rating of the unit. In this case the pumps enable a large volume flow at low pressure and operate at high pressure with a reduced volume flow. The maximum volume flow is 22 l/min.

Since the hydraulic fluid dissipates heat more effectively than air, a motor can be used with lower nominal power and smaller dimensions than usual. Consequently a nominal motor power of as little as 1.4 kW is adequate even for the largest version of the power pack.

The power pack was developed for short-time and intermittent service. It is particularly power-efficient when used in intermittent service in combination with zero-leakage seated valves from HAWE Hydraulik and a hydraulic accumulator. In this operating mode the power pack charges the accumulator up to a set pressure and then switches off. The consumers are supplied via

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the stored volume. The power pack does not start up again until the pressure has dropped below a lower value and recharges the accumulator. While the power pack is at a standstill, which can make up as much as 90% of the operating time of a machining center, it does not consume any energy whatsoever.

With connection blocks and valve banks from the modular system, the power pack can be transformed simply into a complete system control.

HAWE Hydraulik at AMB 2012
September 18-22, 2012
Hall/booth 4E50, Messe Stuttgart

Reader information and free documentation:

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Photo:

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The compact power pack type KA – the fluid level gauge (at the front) enables the oil level to be checked in operation.

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