

■ KUKA Industries

KUKA casting technology – „autonomous“ cooling basins

Rising energy costs and ever greater demands on production pose new challenges for production equipment. To meet these, KUKA Industries has developed a new series of immersion cooling basins.

In the “autonomous” cooling basin, thermal plates dissipate the thermal energy collected in the basin. These water-to-water heat exchangers are directly connected to the cooling circuit of the building incoming water supply, and are operated without electrical connections.

The cooling water in the thermal plates do not contact the workpiece, thus eliminating the need for filters and circulation pumps. As a result, cleaning and maintenance is greatly reduced. The cooling basin is immediately ready for use, as pumps and actuators are eliminated. The basin is refilled automatically by means of a mechanical float valve. A thermostat valve provides temperature control. Made of stainless steel as standard, KUKA offers the “autonomous” cooling basin in four sizes – from small to extra large.

„Autonomous“ cooling basins

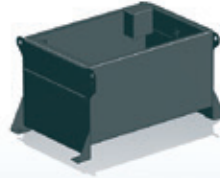
Available sizes



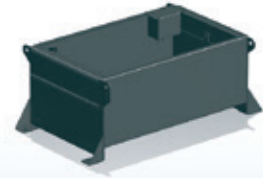
small
800 mm x 600 mm x 920 mm



medium
1000 mm x 1000 mm x 920 mm



large
1500 mm x 1000 mm x 920 mm



Xlarge
2000 mm x 1250 mm x 920 mm

Available options



Pneumatic
lowering stroke



Cooling by means
of plate heat exchanger



„Autonomous“
cooling basin

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