## Cooling concept for continuous turning operations

Due to the development of an entirely new cooling concept, the first rotary tables that run at 100% duty cycle with full turning operation is available. The rotary table stays thermally stable for continuous heavy-duty use in both milling and turning. The new cooling technology is initially being used on some types of the "ATD" table series: the "ATD 320" with a payload of 300 kg and a speed of 1,000 rpm, "ATD 400" (500 kg and 800 rpm), "ATD 520" (800 kg and 800 rpm), "ATD 630" (1,400 kg and 600 rpm) and the "ATD 800" (Fig. 7, Photo:

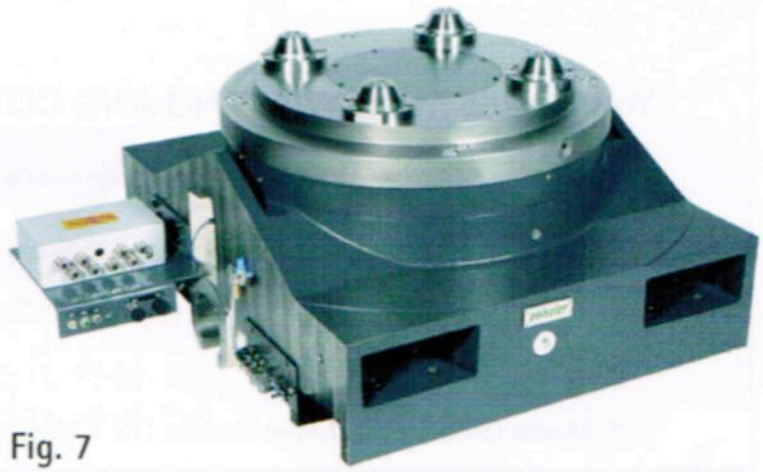

Fig. 7

Peiseler) (2,300 kg and 500 rpm). They all have in common that they run with a constant load in "S1" operation. This is made possible by a cooling unit at the bearing which does not adversely affect the bearing's pre-tension. In previous systems, the bearings were naturally exposed to high levels of friction and the resulting heat. The new solution enables a continuous drive. This means that the range of machining centres will become much broader. The innovative cooling concept is the latest development of the provider of trunnions, tables, two-axis swivelling devices, swivel heads and workpiece changers. The company has already put more than 40,000 of these dividers and sub-assemblies onto the market. These are used in machine tools that are especially needed in the automotive industry and for energy and aerospace technology, precision manufacturing, medical technology and mould and tool manufacturing. (Peiseler GmbH & Co. KG, Morsbachtalstraße 1 u. 3, 42855 Remscheid/Germany; www.peiseler.de)