



TwinDisc

- less heating of the TwinDiscs
- maximum operating life
- excellent damping and running properties
- high resistance to hydrolysis
- low energy consumption
- capacity of carrying high dynamic loads

TwinDisc

In 1971, SUESSEN invented the TwinDisc bearing for OE spinning machines.

Owing to its vast experience with TwinDisc bearings, SUESSEN has developed the patented design with two cooling grooves. Only Original SUESSEN TwinDiscs are equipped with 2 cooling grooves which considerably reduce the heat on the TwinDiscs even at highest rotor speeds (see Fig. 1). A reduced heat on the tires will increase the operating life substantially.

A multitude of tests have proved that the heat is dissipated from the tire by means of the cooling grooves. Heat dissipation through the body, as claimed by some other manufacturers, is irrelevant in practice.

The low weight of Original SUESSEN TwinDiscs reduces slippage when the rotor is started or stopped.

Polyurethane tires of SUESSEN TwinDiscs are manufactured by casting. The tires are very homogeneous and non-porous. Only cast tires have an optimum molecular cross-linking and offer excellent damping properties at a relatively high Shore hardness. The low flexing work of the tires ensures a long operating life and low energy consumption. In addition, cast tires have a high resistance against hydrolysis and are capable to carry high dynamic loads caused by the contact pressure and impacts of the rotor shaft. Problems as shown in Fig. 2 are prevented.

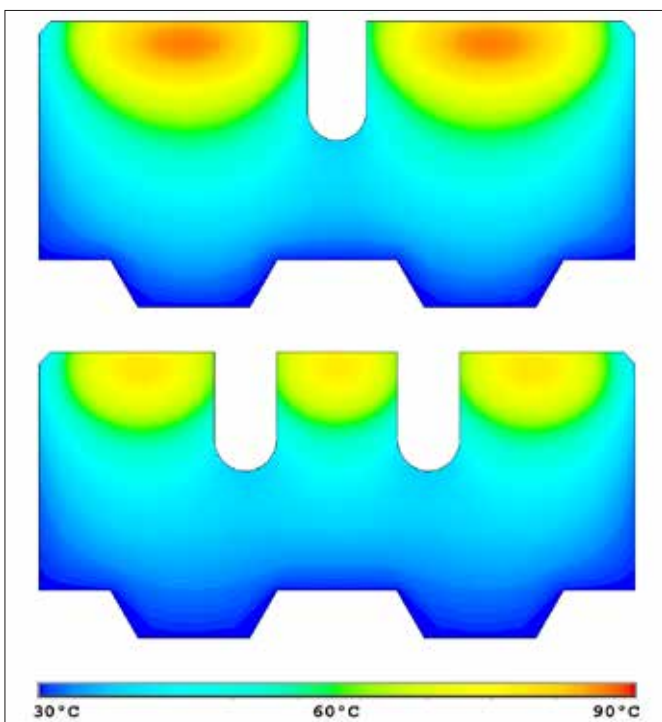


Fig. 1
SUESSEN TwinDisc, new standard:
comparison of heating characteristics
of tires with 1 or 2 cooling grooves
respectively at identical rotor speed



Fig. 2

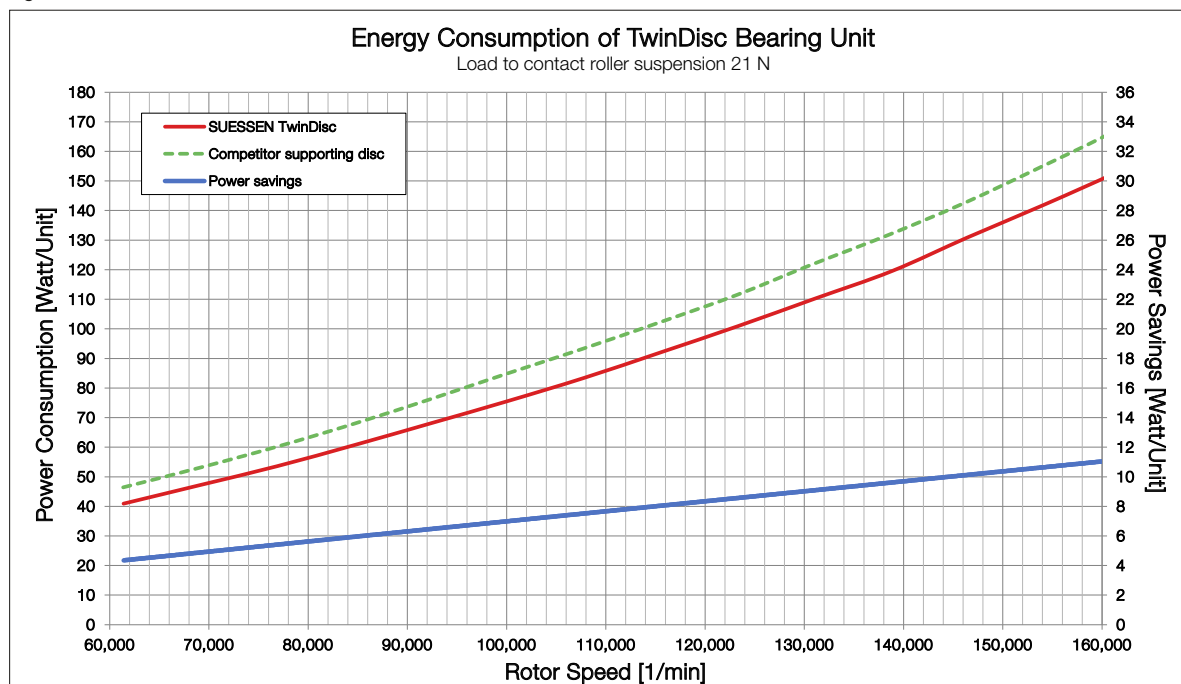
TwinDisc Energy Consumption

The power consumption of TwinDisc bearings is not influenced by the shape of the revolving components, but considerably by the TwinDisc tires. In contrast with the discs of other manufacturers, the energy consumption of SUESSEN TwinDiscs is substantially lower (see Fig. 1). Hence at a rotor speed of 120,000 rpm about 8.2 W per spinning position is saved compared to the competitors' discs.

The optimized profile of the extruded aluminium body of SUESSEN TwinDiscs in combination with a special bonding agent ensure permanent and excellent bonding for mechanically possible rotor speeds up to 150,000 rpm.

Original SUESSEN TwinDiscs with 2 cooling grooves are available for all Autocoro SpinBoxes SE 7 to SE 12, SUESSEN SpinBoxes SC and SQ.

Fig. 3





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