

Rotary screw compressors with 1:1 drive to 500 kW

Technical specification

Series: ASD to HSD

Motor power: 18.5 to 500 kW

Delivery: 2.09 to 86 m³/min

Standard pressure: 5.5 to 15 bar_(g)



All KAESER rotary screw compressors from 5.5 kW ad up are equipped with high efficiency IE3 drive motors. BSD series compressors are even fitted with Super-Premium-Efficiency IE4 drive motors.

Why 1:1 drive?

In compressed air packages featuring 1:1 direct drive the motor drives the airend directly without transmission loss via a maintenance-free coupling. 1:1 direct drive rotary screw compressors provide outstanding performance and enable significant savings.

KAESER's comprehensive range of specially designed airends are manufactured and developed to meet every compressed air user's needs.

Triple savings with 1:1 drive:

- No power transmission losses.
- Large, low speed airends provide more air for less energy.
- Significantly reduced maintenance costs.



Save energy with the KAESER SIGMA PROFILE

Every KAESER rotary screw airend is equipped with energy-saving SIGMA PROFILE rotors. Components manufactured to the highest standards and precision aligned roller-bearings ensure long service life with maximum reliability.

- Air system investment
- Energy costs
- Maintenance costs
- Energy cost saving potential



SIGMA CONTROL 2

The control unit features an easy to read display and durable input keys. All relevant information can be viewed at a glance and user-friendliness is further enhanced by the logical menu structure coupled with the ability to display data in any one of 30 selectable languages.



Low speed operation

Large, low speed airends are more efficient than small high speed airends because they supply more air for the same drive power. Low speeds mean less wear and consequently less maintenance costs.



Energy-saving 1:1 drive

The motor and airend are joined by the coupling and its housing to form a compact and durable unit that is virtually maintenance-free. Furthermore, reliability and service life are increased through elimination of wear and transmission losses, as 1:1 drive reduces the number of components needed in comparison with gear drive



Electronic Thermo Management

The innovative Electronic Thermo Management (ETM) system dynamically controls fluid temperature to provide reliable prevention of condensate accumulation. This enhances energy efficiency, for example, by enabling heat recovery to be precisely tailored to meet customers' exact needs. (ASD – CSDX, ESD series)