

DV Series

HIGH EFFICIENCY AIREND



The SCR asymmetric rotor profile allows for a broader sealing band between rotors compared to the conventional narrow line style seal in most other air ends and increases efficiency by between 5 - 10%.

The use of large rotor diameters allow for high efficiency at low rotational speeds and provide tangible benefits of extended longevity and low noise.

Oversized dual, back-to-back taper roller bearings effectively retain the rotor position during all load, unload and starting conditions.

Triple lip shaft sealing, combined with an oil recovery system is employed to achieve a leak free design that is immune to dust ingress and oil or air loss.

Variable Frequency Motor



Special insulation with high grade copper winding allow the motor to respond efficiently to a wide frequency range whilst maintaining optimal torque across the entire speed controlled band. Innovative designs used in the stator and rotor reduce heat and specially designed cooling fans prevent temperature build-up even under low speed conditions.

Models with a 30% to 100% operating range come equipped with a force ventilated motor as standard, ensuring the main motor stays cool throughout the speed range.

VECTOR CONTROL TECHNOLOGY

Our SCR variable frequency drives feature Vector control, also called field-oriented control (FOC), a superior technology to earlier Scalar variable speed drives, which used feedback information from the motor to calculate the exact required vector of voltage and frequency to attain the most efficient sequential condition. In simple terms, Vector Control technology tells the motor what to do, then checks to see if it did it correctly, and then changes the command to correct any resulting error. This sophisticated system ensures optimal efficiency and torque over an ever-changing wide speed range.

