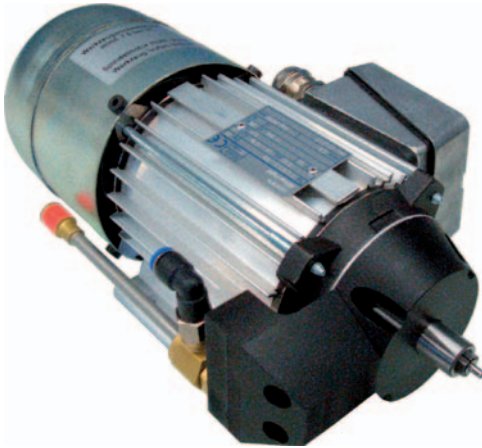


COOLMin Tool Cooling System

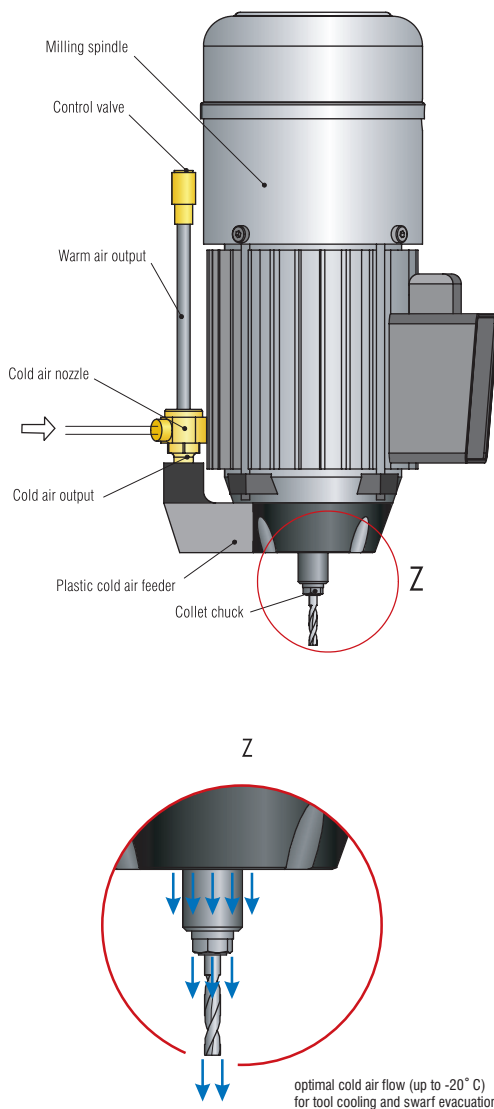


isel Asynchronous Spindle Motor

- Rated power 500 W
- Speed max. 24,000 rpm
- **isel** low temperature cooling system can be integrated (down to -20°C , **isel** patent)
- Tools with internal cooling can be used
- Very good concentricity by means of a new bearing technology
- **isel** frequency converters are matched to the asynchronous motors

500 W – Item no.: **310 705 2531** Direct changer
 500 W – Item no.: **310 705 1532** Manual changer

isel Low Temperature Cooling System



Dry cutting machining is the first choice wherever material, wear of the tool and surface quality permit. The above-mentioned criteria, however, often require cooling. And cooling has meant to date: Humidity. Even the lowest-volume spray cooling involves unpleasant secondary effects: Contamination and sticking chips on the tool or on the surface, and - depending on the material - also negative effects for the structure of the material. Thanks to the patented low temperature cooling, which provides for optimum cooling of tool and surface, any secondary effects can be neglected. The chips are dry and - depending on the material - easy to suck or blow away. The surface is handled gently, and the direct cooling of the tool means very long service lives of the tools, thanks to a cold-air nozzle which divides the air flow into hot and cold air according to the eddy current principle. Only compressed air (6 ... 10 bar) is required as energy.

Technical data:

Compressed-air input : 6 ... 10 bar
 Cooling air : down to approx. -20°C
 Installation: optional integration with isel asynchronous spindle motor.
 Externally as an add-on for existing spindles.