

DBA95

Precision rotary actuator – DBA95

The new DBA95 precision rotary actuator combines an innovative Kraken gearbox with high torque density and unmatched rigidity with a state of the art brushless servo motor and encoder in a compact drive unit.

Better dynamic performance

The DBA95 integrated drive provides much higher torsional stiffness than strain wave or cycloidal gear systems. It is designed for accurate and dynamic positioning under high loads without sacrificing accuracy.

Mechanically robust

The integrated angular bearings tolerate high radial and axial forces without requiring an additional external bearing.

Hollow shaft

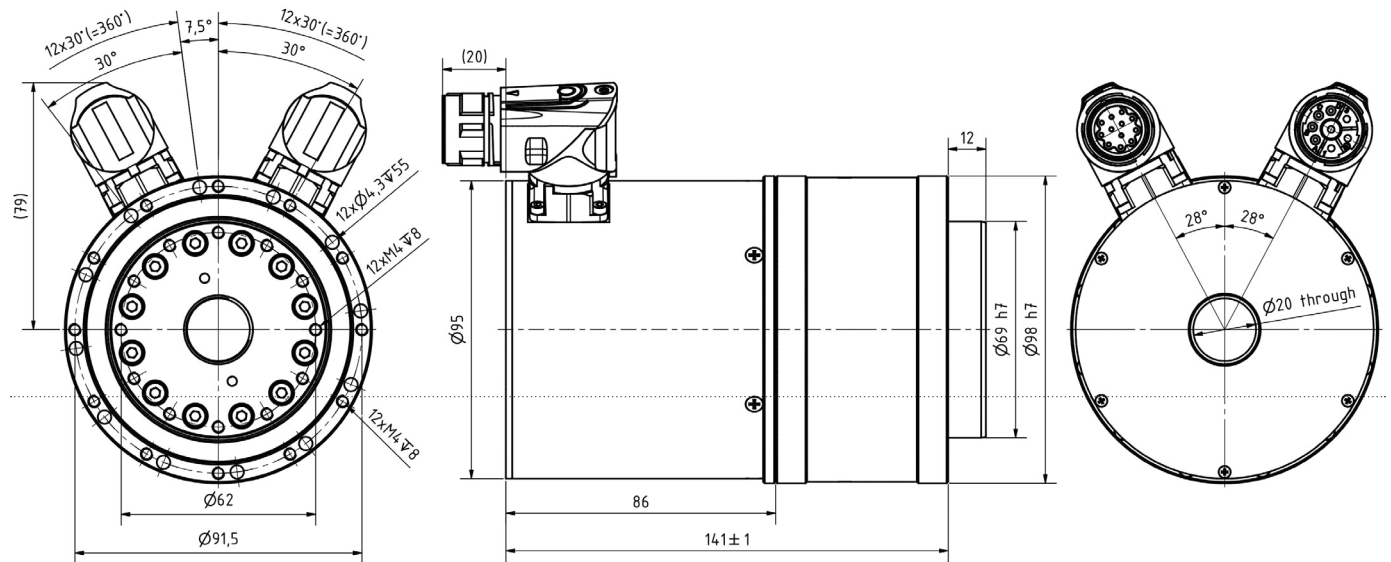
The hollow shaft which is attached to the output of the gearhead has an internal diameter of 20 mm and can be used to route cables or supply lines through the motor.

Integrated multi-turn encoder

The integrated battery-less multi-turn encoder is available with SSI or BISS interface. Optionally, the DBA95 actuator can also be ordered with a second encoder that is connected to the gearbox output.



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DBA95M04835-M-9-96

Gear ratio	96
Rated torque	90 Nm
Peak torque	115 Nm
Torsional stiffness	37 Nm / arcmin
Tilting stiffness	420 Nm / arcmin
Rated voltage	48 V
Rated current	15.4 A
Max. speed (S5)	31 rpm
Operating ambient temperature	-15 – 75 °C (over 40° with derating)

Encoder

Single-turn resolution	18 Bit
Multi-turn resolution	16 Bit
Accuracy (INL)	+/- 0.02 °
Interface	SSI or BISS



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