

## **Growth for precise and compact Harmonic Drive® FHA-C Mini Servo Actuators**

### Increased productivity with the multi-turn absolute motor feedback system

FHA-C Mini Servo Actuators with EnDat® multi-turn absolute encoders consists of a synchronous servo motor, an HFUC Component Set and a specially developed output bearing.

FHA Mini Servo Actuators are available in three sizes with gear ratios of 30, 50, and 100 capable of transmitting maximum torques between 1.8 and 28 Nm. The output bearing with high tilting capacity enables the direct attachment of heavy payloads without the need for further support, ensuring a simple and space saving design. Due to the positioning accuracy, stable machine properties are guaranteed for short cycle times, while the compact design ensures very low space requirements.

The multi-turn absolute motor feedback system acquires the absolute position directly at the load with maximum accuracy over more than 600 revolutions. The productivity of the servo actuator is increased because unproductive referencing is not required. The new rotating connectors also ensure efficient and simple installation. When combined with the YukonDrive® Servo Controller, this creates a preconfigured and customized drive system – specifically tailored to your application and easy to integrate using modern fieldbus interfaces.

The FHA-C Mini Servo Actuator with multi-turn absolute motor feedback system uses preloaded precision output bearings with high tilting capacity. The excellent precision of the bearing is an essential in the operation of the actuator. The synchronous compact motor with concentrated winding, specially designed for the Harmonic Drive® Gears allows the actuator to deliver perfectly smooth and quiet running characteristics. The multi-turn absolute encoder mounted directly on the motor shaft provides the necessary signals for positioning and speed control. The fast digital serial interface EnDat® 2.2/22 transmits the high resolution absolute position value with high transmission reliability, even in environments with high electromagnetic interference potential.

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In over 45 years of operation, **Harmonic Drive AG** has developed into a solution provider for high precision drive technology. We offer over 25,000 different product versions, more than 80% of which are customer-specific solutions. The bigger the challenge, the better!