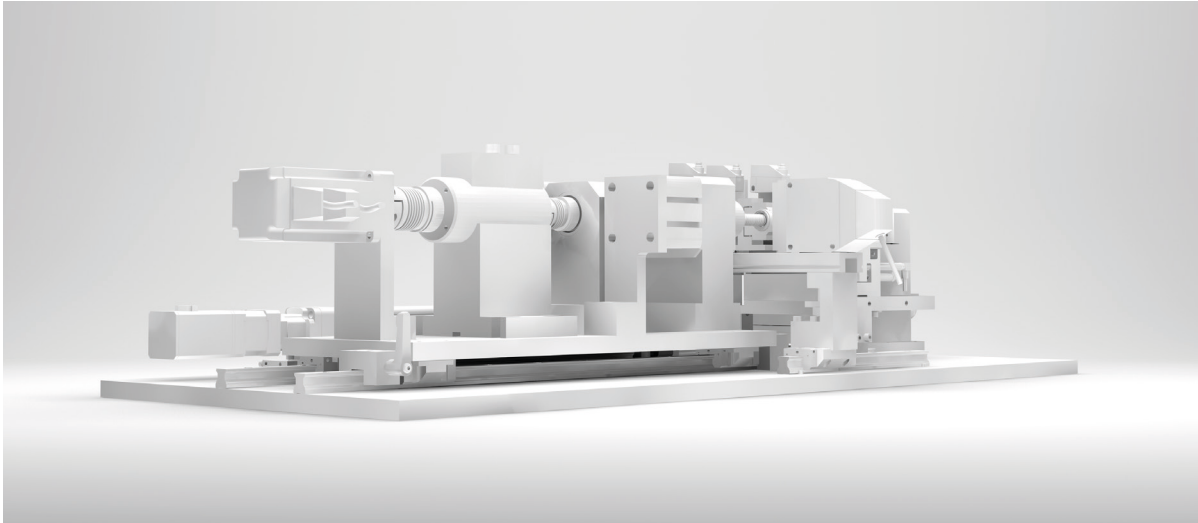


Product testing unit



Task

After final assembly, a 100 percent test of the component must be carried out. The unit must process three different product types. The component must be automatically clamped and loosened again. The resetting must involve minimum effort and possibly be carried out with exchange parts. The product test involves three testing parameters. The test results are assigned to the respective product using a continuously generated serial number and stored in the database. Cyclical control of the measuring devices must take place and a calibration measurement must be carried out after every changeover.

Solution

The test unit is mounted onto the base plate in order to deploy it on a workbench as a manual work space. In order to carry out changeovers to other product types, complete exchange part sets are manufactured. These can be changed out by the operating personnel in no time. After every changeover procedure a calibration is carried out with the respective master part. This way, assembly errors can be detected and mismeasurements can be reduced. The cyclical control of the measuring device can be defined by quality assurance in the password protected measuring parameter surface according to the amount of parts.

Result

The product is manually inserted into the test station by the operating person. The operator starts the testing process by means of a two-handed actuation. The test specimen is pneumatically clamped and the measurements are initiated. The test results are automated and traceably stored in the database.

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