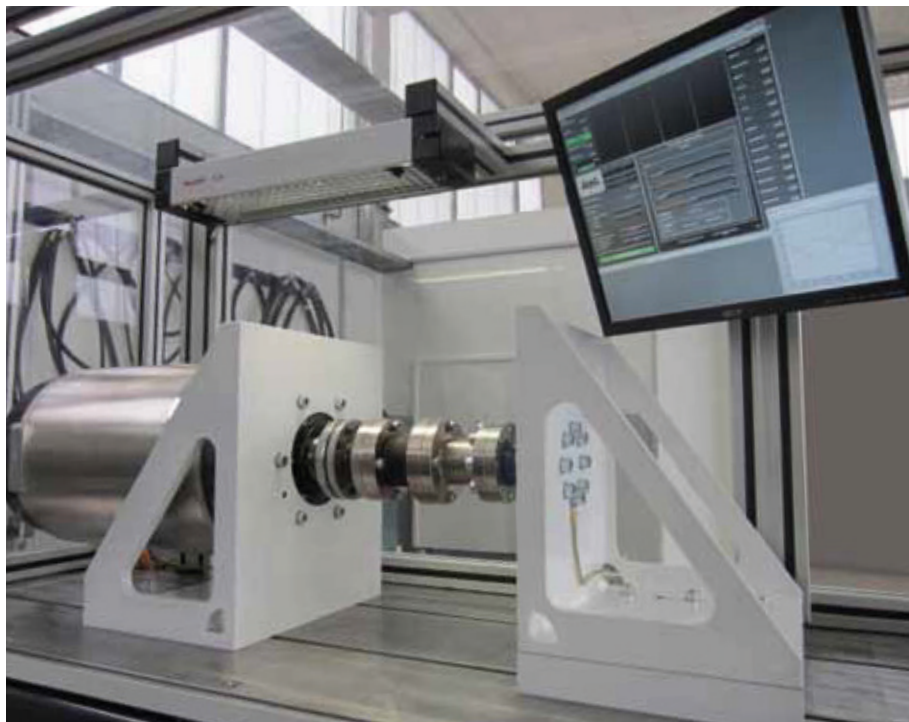




S P E C I F I C A T I O N S H E E T



Electromechanical stress components

AUTOMATED MEASUREMENT AND TEST SYSTEMS
ASSEMBLY TECHNOLOGY
CUSTOMIZED MACHINING CENTRES
SOFTWARE ENGINEERING
JOB-ORDER PRODUCTION

General Information:

In the past, primarily servohydraulic actuators (rotary drives, cylinders) have dominated the appearance of test bays. However, recently a change has become apparent in this regard. On the one hand, this is because there are also various disadvantages associated with servohydraulic stress components. On the other hand, the performance of electromechanical actuators has improved steadily, and therefore they are well-suited for an ever increasing number of operative applications.



Rotational speed:	65 - 1500 rpm
Torque:	2 Nm - 5000 Nm
Power:	50 W - 50 kW, in special cases up to 350 kW

In addition to servohydraulic actuators, FGB therefore offers its customers a standard program of electronic drives based on high-performance gearless motors manufactured in a special production process. Moreover, however, FGB also primarily designs and develops special drives starting from a quantity of 1, which have to fulfill specific requirements according to customer specifications in most cases. All electromechanical stress components are also entirely manufactured internally and have the positive characteristics of high power density and long life-time.

The benefits of the electromechanical actuators are both economic and ecological in nature. Instead of developing these drives as hydraulic motors in the classical way, we realise for example air-cooled torque motors, without any fluid technology (hydraulic oil, cooling water cycle, etc.) with their associated potential pollutive impact on the environment. But the economic aspect is also quite significant in this type of drive design. This has shown a significantly higher degree of efficiency in contrast to the classic, fully hydraulic solution, which in turn results in lower operating costs.



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The actuators of such testing plants are effortlessly stimulated by our self-developed control software. There is no difference in the first instance whether they are servohydraulic or electromechanical stress components. That is because you can simply select the type of actuator in the menu of the software specifically designed for flexible test bays, and the control parameters are automatically adjusted to the respective stress component to be controlled.