



# Hegewald & Peschke

Meß- und Prüftechnik GmbH

Product information

## Modernization of Universal testing machines

Manufacturer-independent - Sustainable - Efficient



Hegewald & Peschke Meß- und Prüftechnik GmbH  
Am Gründchen 1, 01683 Nossen  
Telefon: +49 35242 445-0, Telefax: +49 35242 445-111  
E-Mail: [info@Hegewald-Peschke.de](mailto:info@Hegewald-Peschke.de)  
<http://www.Hegewald-Peschke.de>



Testing machines are robust and durable capital goods. To ensure that they also meet the latest standard requirements, testing machines should be regularly checked to ensure that they are state of the art. Hegewald & Peschke not only carries out a professional inspection of the machines, but also modernizes them professionally and independently of the manufacturer.

#### Possible reasons for modernization:

- **Outdated testing software:** Increased requirements due to increasing digitalization, e.g. storage of test results & real-time data, export to quality management systems
- **Operating comfort/control accuracy:** Implementation of standard requirements regarding defined test speeds or use of specific control channels (load, displacement, elongation).
- **Technical condition/spare parts supply:** Ensure availability of e.g. electronic components
- **Changed test tasks:** e.g. retrofitting with additional measuring channels
- **Increased safety requirements**

The degree to which the retrofitting of a testing machine should be carried out always depends on the individual case. Our expert personnel assess the condition of the testing technology and, on this basis, develop a modernization concept designed according to the customer's wishes.

#### Our models for modernization of testing machines:

1. retrofitting with data acquisition system
2. retrofit with a modern digital control-regulation unit
3. complete retrofit with a modern digital control-regulating unit and a new motor drive

#### Advantages of testing machine modernization:

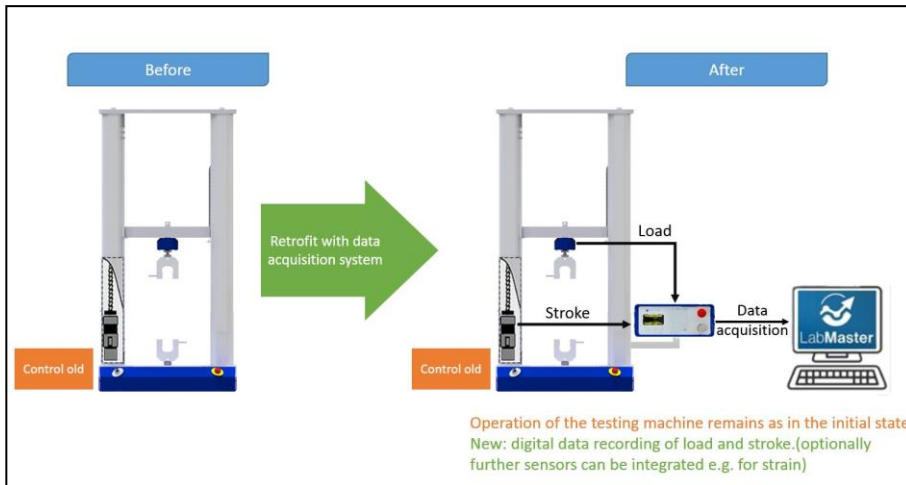
- Efficient and sustainable use of existing test system components
- Guaranteed spare and wear part supply for 10 years
- Use of the universal and user-friendly material and component testing software LabMaster
- Free application service for the testing software LabMaster
- Ensuring compatibility of testing software and components
- Full range of functions comparable with a new machine
- Improved safety standards
- Reduction of downtimes and maintenance times, which can occur, for example, when purchasing older electronic components
- Digital data acquisition via modern data acquisition system meets the highest requirements for measurement accuracy

#### Data acquisition

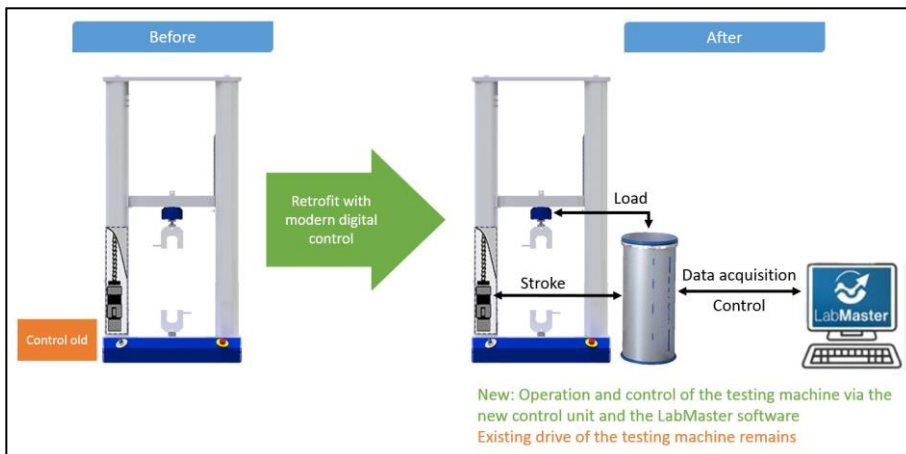
The existing measured value channels load, crosshead travel and, if necessary, strain from the existing sensor system of the testing machine are digitally recorded. Optionally, sensors such as load cells or crosshead/piston travel measuring systems can be renewed. The data acquisition and evaluation is done with the universal material testing software LabMaster from Hegewald & Peschke MPT GmbH. The application software, which was specially developed in-house for materials testing, also allows the test data to be stored securely thanks to its database structure. Customer-specific parameters, results and channels can be entered and calculated. If required, data import and export to other networks can be set up on an individualized basis.

Our models for modernizing testing machines at a glance:

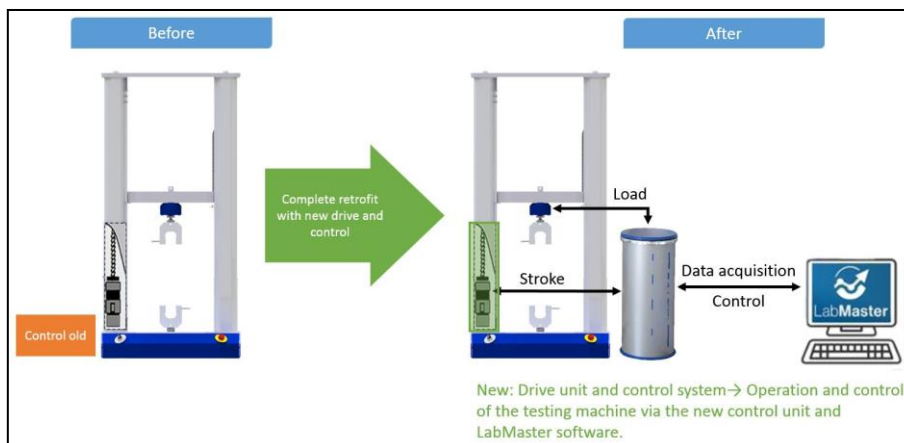
1. Retrofitting with data acquisition system



2. Retrofitting with a modern digital control unit



3. Complete retrofit with a modern digital control-regulating unit and a new motor drive

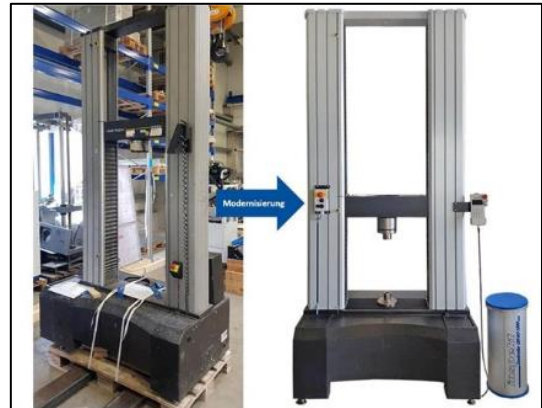




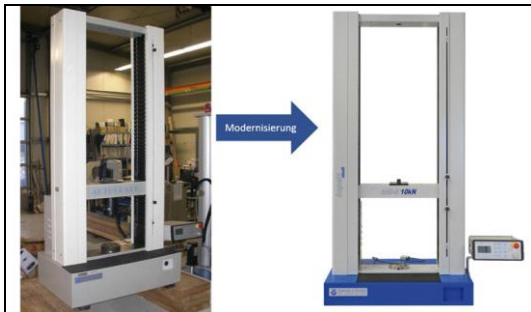
Examples of retrofitted testing machines



Modernization Zwick 1445 10 kN



Modernization Instron 5582 100 kN



Modernization AGS-G 10 kN



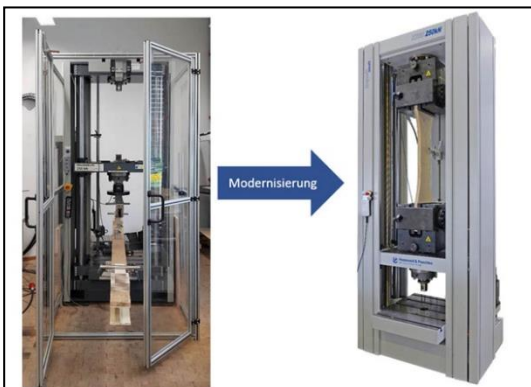
Modernization Zwick 1485 200 kN



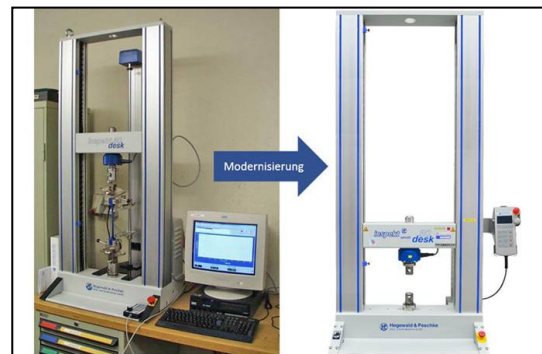
Modernization Wolpert TZZ 250 kN



Modernization Kögel 207 20 kN



Modernization Zwick Z250 250 kN



Modernization inspekt desk 50 kN