

FORM TEST
SEIDNER

FORM+TEST
PRÜFSYSTEME

Modernization/ Upgrading instead of Buying a New System

- Correct Test Results
- Higher Efficiency
- Conservation of Value



Your Advantages



There are different reasons for the modernization/upgrading of a testing machine or a test system.

Machine components or the measuring and control system can be obsolete, test standards change, parts wear, spare parts are no more available.

A competent upgrading and retrofitting from a single source

- improves test results by a new technology
- increases productivity by means of modern technology
- stabilizes the processes and minimizes the risk of breakdown
- increases the efficiency by new functions
- ensures the spare parts supply by new components
- is cheaper than a new purchase
- reduces machine downtime
- meets all requirements of the current machinery directives and safety standards.



Hydraulic, servohydraulic and electromechanical testing machines of a variety of types and manufacturers can be updated by a modernization.

FORM+TEST has the know-how to upgrade testing facilities from any manufacturers cost-efficiently.

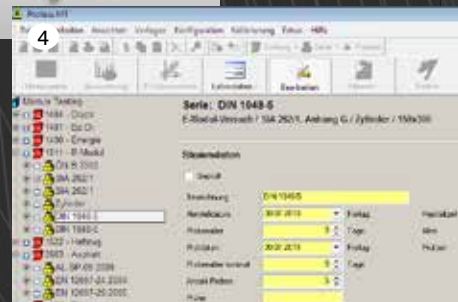


What can be modernized

Normally mechanical components of a testing machine which are not subject to wear and tear have a long working life. The durability of electronic systems essentially depends on their development cycles and is considerably lower.

For a modernization the following components come into question:

- 1 test frame incl. attachment
- 2 drive unit (test cylinder, three-phase motor)
- 3 measuring and control system **DIGIMAXX**
- 4 test software **PROTEUS**
- 5 specimen holders, compression and bending devices, test devices
- 6 load cells, extensometers, devices for environmental simulation, etc.



What we are able to do

The construction of testing machines requires experience. This applies even more for the modernization of testing machines and systems. We know our stuff - not only our own machines, but also a lot of other makes.

FORM+TEST

- realizes customer requirements quickly and flexibly
- supervises projects by directly responsible contact persons
- offers the complete range of services
- works acc. to international standards of testing technology
- has an experience of more than 40 years in measurement and testing technology



What **DIGIPRO** is able to do

Machines from FORM+TEST and from other manufacturers can be modernized by means of **DIGIPRO**. The appropriate application software brings a well-preserved test frame or a testing system up-to-date - together with a new measuring and control technology **DIGIMAXX** and the software platform PROTEUS. This is especially useful if testing machines break down increasingly, if the maintenance costs steadily rise or if a technical support is stopped.

Services:

- specialist counseling
- demounting of the existing control system and electronic system
- maintenance of the mechanical components
- installation of the newest digital control technique **DIGIMAXX**
- replacement of control elements and safety circuit
- new cable set for test frame, drive, load cell and other transmitters
- system configuration
- test run
- training of the operators
- support
- DAkkS-calibration
- complete documentation
- surrender of calibration certificates
- maintenance contract



We have multi-vendor capability!



FORM+TEST technicians have experience with products from

- Amsler
- BC-TestTEC
- Controls
- DARTEC
- DMG
- FORM+TEST
- Galdabini
- INSTRON
- Losenhausen
- MAN
- MFL
- Mohr & Federhaff
- MTS
- REL
- Schenck
- Schenck Trebel
- Tinius Olsen
- Trebel
- Wolpert

For a detailed quotation we need:

- machine type / machine data
- documentation (operating manual, spare parts documentation)
- problem description in case of malfunction
- new requirements

Subsequent to the upgrading FORM+TEST provides a comprehensive technical support as well as a two-years warranty for the delivered components (except expendables and wear parts). Any time we offer pursuing recommended solutions and software updates.

We repair and maintain hydraulic cylinders

Linear Actuators / Rotary Actuators

- single-acting / double-acting cylinders
- differential cylinders
- synchronous cylinders
- sliding cylinders
- cylinders with hydrostatic bearing
- hollow piston cylinders

Extreme forces regularly act on hydraulic cylinders which results in wear. Machines run improperly as they are damaged. Thus the whole working process is endangered.

New hydraulic cylinders are expensive. Often a repair is cheaper as afterwards the cylinder is well-functioning again and as new.

FORM+TEST offers:

- repairs of all types of cylinders up to 10 MN - independent of the manufacturer
- preventative repair of cylinders from any manufacturer
- repair and replacement of components
- complete machining from a single source

Course of action with repairs:

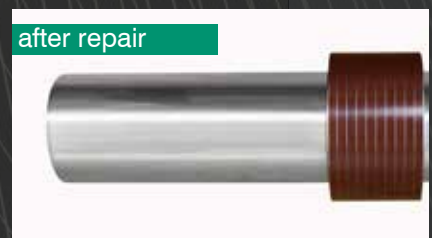
- damage analysis
- cost listing
- determination and documentation of the actual dimensions
- exchange of the sealings and standard parts
- assembly, rinsing process and function test
- dimension record

Optionally:

- de-chroming, chroming and accurately grinding of the piston
- honing
- reworking of the guidances

The complete repair is effected in our factory.

FORM+TEST develops its own test cylinders. Additionally we manufacture test cylinders acc. to your sample, drawing or specification.



Examples of Modernization Projects

Modernization / overhauling of machines from different manufacturers

- overhauling of the hydraulic drive
- new painting
- securing of conformance





Modernization of the measuring and control systems with **DIGIPRO** and integrated software **PROTEUS** for creep rupture test machines



Modernization of a triaxial test system

- ✓ repair of the crosshead clamping
- ✓ replacement of the hydraulic aggregate with 60 l/min.
- ✓ delivery of a pressure intensifier
- ✓ overhauling of the triaxial cell
- ✓ CE-conformity



Exchange of the complete drive station

- ✓ measuring and control systems **DIGIPRO**
- ✓ test software **PROTEUS**
- ✓ delivery of a complete protective equipment



Modernization of a servohydraulic machine

- ✓ with dynamic digital control system **DIGIMAXX C-30**
- ✓ test software for universal component testing **PROTEUS^{MT}**

All FORM+TEST Service Features at a Glance



DAkKS-calibration



exchange program (electronics, servovalve, etc.)



repair / overhauling of test cylinders



move of testing machines



delivery of spare parts packs



extension of warranty



numerous spare parts



maintenance



commissioning



training



communication with our service-team

Our Agencies Abroad



FORM+TEST International:

We have a worldwide sales and service network, for further details please visit our homepage (www.formtest.de)



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