

Integration and independence are not a contradiction!

xCHANGE

Program interface for
ecos Workflow



Be independent

With **ecos** Workflow xCHANGE – the flexible program interface

What is **ecos** Workflow xCHANGE?

ecos Workflow xCHANGE is a revolutionary, standardised program interface for test machines that permits the exchange of data and control commands between a hardness tester and any other program. As a result, all parameters and control commands relevant for hardness testing are exposed.

ecos Workflow xCHANGE is the key to the functions of your EMCO-TEST hardness tester.

The **ecos** Workflow xCHANGE interface is standard on all DuraScan and DuraVision series hardness testers.



What can be done with **ecos** Workflow xCHANGE?

With **ecos** Workflow xCHANGE, practically all customer-specific requirements for connecting a hardness tester to databases and data input devices can be fulfilled as well as completely automatic operation. Because **ecos** Workflow xCHANGE is based on the common XML format, it is clearly structured and simple to work with.

Benefits of **ecos** Workflow xCHANGE compared with standard integration solutions for hardness testers:

Integration via ecos Workflow xCHANGE	Standard integration solutions
Customisation to customer-specific requirements is made externally from the hardness tester software. The standard hardness tester software is therefore not modified.	The hardness tester software must be modified by the manufacturer to fulfil customer-specific requirements.
All updates to ecos Workflow hardness testing software provided by EMCO-TEST can be easily installed at any time.	Subsequent software updates are very difficult and costly.
All ecos Workflow xCHANGE functions are fully documented. As a result, subsequent customisation to new customer requirements is independent of the manufacturer of the hardness tester and can be easily made at any time by third parties.	Customisation due to new requirements can only be made by the manufacturer.
Existing integration solutions can be simply and easily transferred to other DuraScan and DuraVision series hardness testers – also independently of the hardness tester manufacturer.	Existing solutions can only be transferred by the manufacturer of the hardness tester.
The high EMCO-TEST standard in relation to service and guaranteed performance as well as the range of spare parts for your hardness tester is completely unaffected. As a result, your investment is assured for the future.	Changes to, or customisation of the hardness tester software present a high risk in relation to service and maintenance because they are dependent on the know-how of individuals.

Comprehensive options

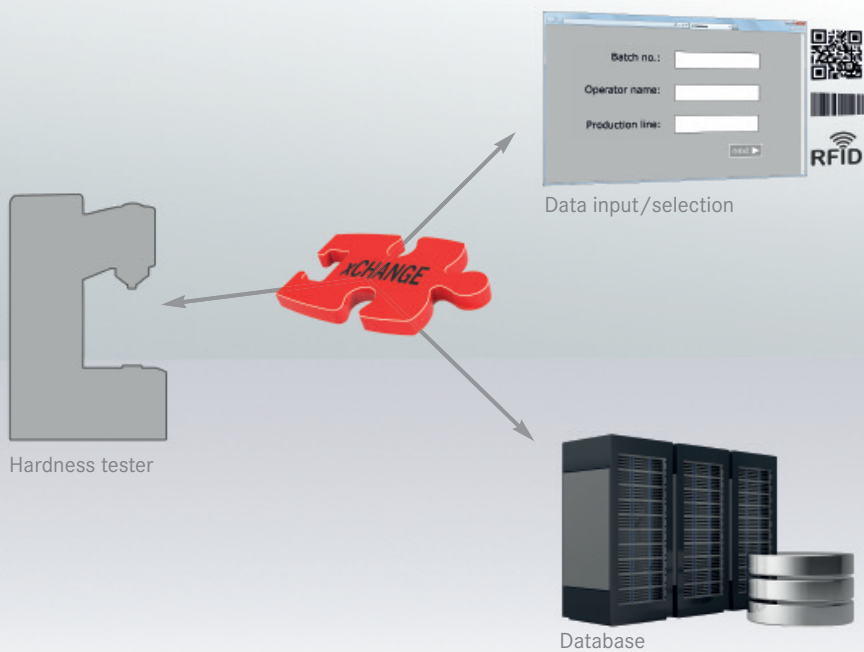
Integrated hardness testing with **ecos** Workflow xCHANGE

1. Integration into an existing production data collection:

The hardness tester can communicate directly with your company-specific database solution via **ecos** Workflow xCHANGE and exchange test data. Connection to data input devices such as barcode scanners or RFID readers and differing data input formats is also possible.

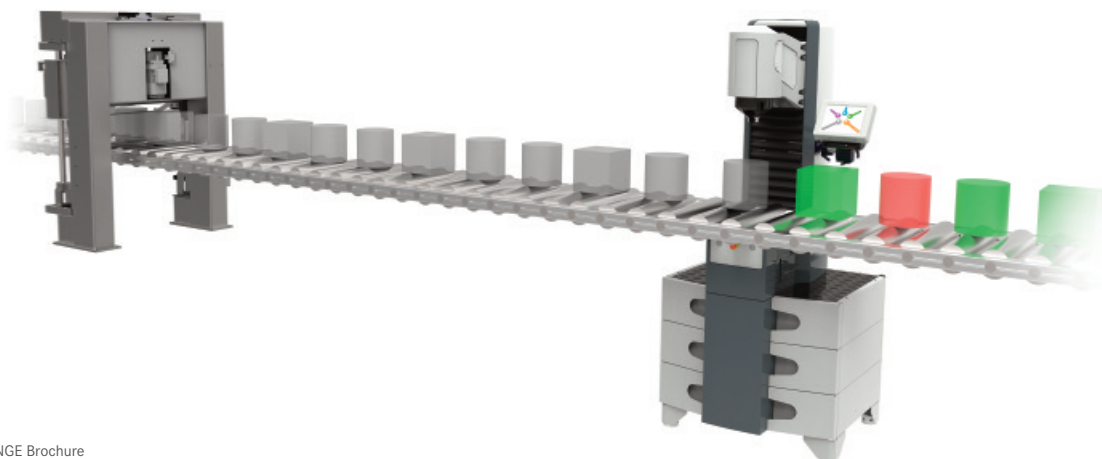
Imported data can be easily processed in the hardness tester and test results saved directly to the database.

Test parameters can therefore be loaded automatically and the hardness tester settings are also performed automatically. After the hardness test, the results are automatically saved to an existing database or processed, depending on the input parameters (e.g. component or item no.).



2. Integration into automated systems:

Thanks to **ecos** Workflow xCHANGE, control commands can be communicated to the hardness tester in real time, allowing it to be flexibly integrated into complex automation systems. Loading, for example, can be done via a roller conveyor with an appropriate device for positioning the component, or via a robot in a production cell.



Technical background

Information of interest to IT specialists

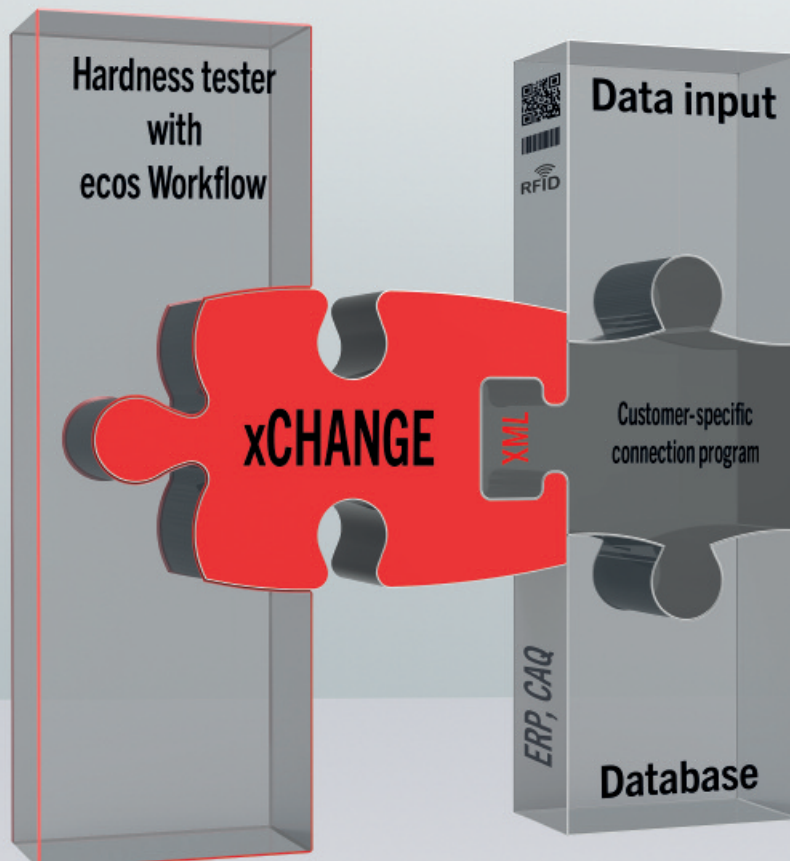
1. Integrating the hardness tester into a production data collection:

ecos Workflow xCHANGE provides access to all the hardness tester data relevant for the test cycle, making it possible for any program to access the hardness tester directly. For example, additional data input devices such as bar-code or QR-code scanners can be connected very flexibly, as well as existing databases.

Data exchange is controlled via buttons directly in the **ecos** Workflow test software. All the data relevant to the hardness testing are exchanged via the standardised and well-structured XML format. This allows simple management of large amounts of data (e.g. such as with complex test series) and is possible with all DuraScan and DuraVision series hardness testers.

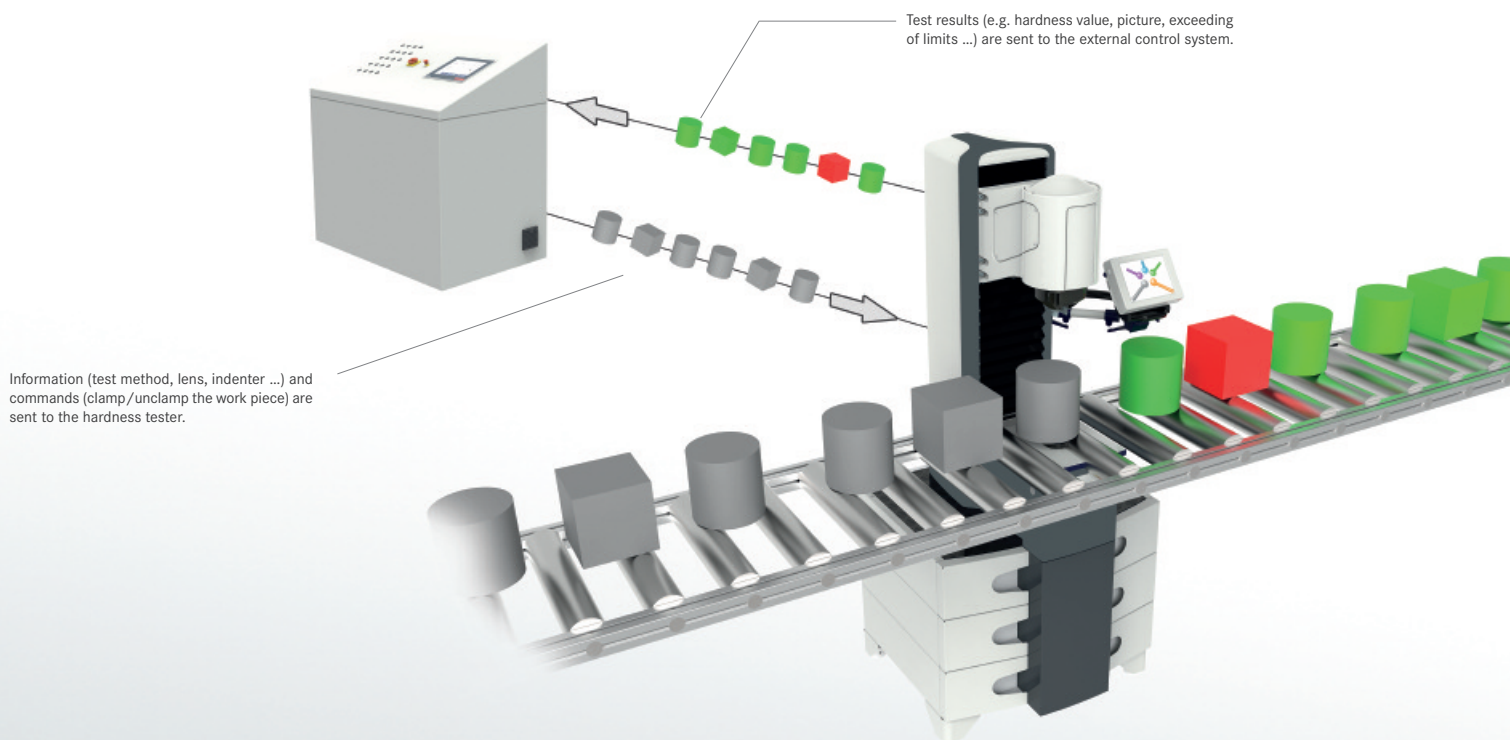
ecos Workflow xCHANGE's standardised and simple layout provides maximum flexibility for integrating the interface into customer-specific connection programs:

- The connection program that needs to access ecos Workflow xCHANGE can be developed in any programming language.
- The connection to the hardness tester software is via the familiar and well-documented XML format.
- Because **ecos** Workflow xCHANGE is well documented, connection programs can be implemented and maintained easily by third parties.



2. Integrating the hardness tester into automated systems:

With **ecos** Workflow xCHANGE, external control systems (PC or PLC) can access all the relevant functions of the hardness tester via the RS232 or Ethernet interfaces. Test results and status messages can be queried. The entire functional spectrum of the hardness tester can thereby be remotely controlled via **ecos** Workflow xCHANGE. This is possible with all the semi-automatic DuraScan and DuraVision series hardness testers.



Comprehensive documentation for simple implementation

Complete and well-structured documentation with clearly understandable function and command descriptions is available free of charge from www.emcotest.com. Customer-specific integration solutions via the **ecos** Workflow xCHANGE program interface can therefore be easily implemented by any software developer.



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