

CONTROLLER FOR TESTING MACHINES.

DOLi
wir regeln es



Fast. Precise. Adaptive.

EDCi family

Fast. Precise. Adaptive.

EDCi. The next generation.

The current generation of the EDC family comes of course with a wide range of new functions, performance upgrades and components. The high performance controller system can easily be extended in functionality with several electronic modules – everything in well known DOLI quality.



EDCi22/EDCi52
Table top housing
with RMCi1
touch display



EDCi20/EDCi50
Housing for
control cabinet.

NEW FUNCTIONS AND COMPONENTS:

High performance electronic controllers

- EDCi10 1 kHz system clock
- EDCi15 2,5 kHz system clock (iCreep)
- EDCi20 2,5 kHz system clock, 3 iSI extension slots
- EDCi50 10 kHz system clock, 3 iSI extension slots
- EDCi70 10 kHz system clock, 8 iSI extension slots

Higher performance

- down to 100µs sampling rate for control, data acquisition and transmission
- Higher resolution of measurement and control data compared to the previous EDCv family.
- New low noise analog input amplifiers with wide sensitivity

Standardized iSI
extension modules
with a system clock up
to 10kHz.



New modular interfaces

- intelligent **S**ensor Interface (**i**SI) Technology
- Broad variety of **i**SI extension modules for sensors and actuators

Remote Machine Control RMCi

RMCi1, RMCi6, RMCi7 and RMCi8 assure a flexible control of the EDCi and your machine without a PC. RMCi1 and RMCi8 are equipped with a high quality touch display.

New Drive Interface

State-of-the-art safety thanks to the built-in dual channel safety circuit



RMCi8
Remote Machine
Control device with
emergency stop
and high quality
touch display



RMCi7
Remote Machine
Control device
with integrated
emergency stop
feature.



RMCi6
Remote Machine
Control device
with extended
keyboard and
features.



DRIVE BOX

External drive interface for installation in a control cabinet. The **DriveBox** is connected to the EDCi via an 8-wire, double shielded cable and M12 sensor plugs. It also includes 16 additional I/Os.

Advantages

- Safe, decentralized and easy connection of safety circuit and external drives thanks to its connector panels
- Own power supply, hence potential-free
- Spring-cage terminal connection for easy installation
- DIN rail mounting

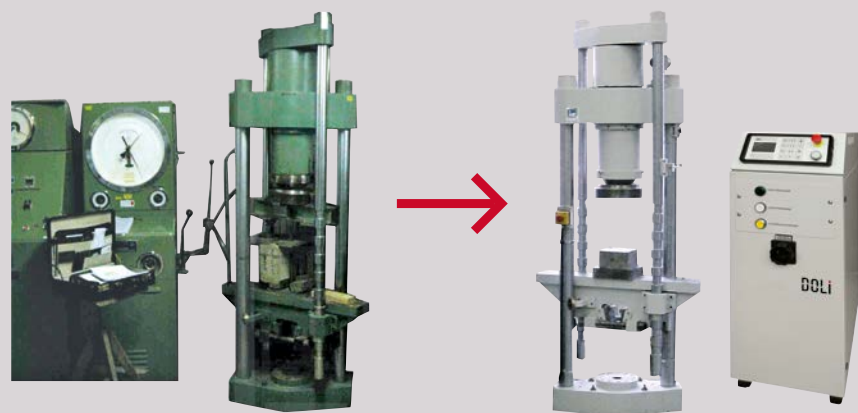
EDCi – the next generation of digital closed-loop control, measurement and data acquisition for all types of testing machines. **Made by DOLI, Made in Germany** – the world market leader for high-precision control electronics.

Engineering

Creative. Independent. Qualified.

DOLI Engineering. The alternative to a new purchase.

We retrofit your testing machines by modernizing or replacing the electronics, sensor technology, mechanical parts, hydraulics and electronic drives in order to increase efficiency, accuracy and profitability of your old but proven testing machine. Together with our business partners we also develop new concepts and solutions for machine and machinery design.



YOUR BENEFITS:

Cost-effective alternative to new acquisition

In most cases, the modernization of the old machine is a lucrative alternative to a new purchase.

Higher performance and accuracy

The use of state-of-the-art technology increases the performance of the testing system.

Measuring and controlling with EDCi

- variable system clock up to 10 kHz
- higher resolution for measurement and control data
- up to 8 iSI slots for flexible extension of the system

Simplified and extended handling

By using our modern EDCi devices, the handling of the machine is not only simplified, but also extended e.g. by our remote machine control device RMCi or DriveBox.

Increased safety

The upgraded dual channel safety circuit increases the safety of your testing system and your staff.

Application and testing software

Our **Test&MotionPlus** software is geared for all kind of material testing machines and includes a wide range of application modules according to standard test procedures and testing standards.

Creative.

Together with you, we develop creative solutions and offer many possibilities for individuality, innovation and optimization of your test systems.

Independent.

We retrofit any kind of testing machine, independent from manufacturer, industry, design or performance spectrum of the test system.

Qualified.

Our qualified and experienced team increases the value of your testing machine by maintaining the tried-and-true and by retrofitting the system with state-of-the-art technology to your requirements.

More than 40 years of experience

- With hydraulic testing machines (static/dynamic)
- With screw driven testing machines (static/dynamic)
- With multi axle testing machines
- With testing systems for special purposes
- With destructive and non-destructive material testing machines
- In a broad variety of industries with many different applications

Scope of service

- Measurement and digital closed-loop controllers
- Application and test software
- Sensors and actuators
- Hydraulic and/or electronic drive systems
- Mechanics
- Programmable logic control

DOLI is retrofitting all kind of testing machines, independent from manufacturer, industry, design and performance spectrum of the test system.

Before retrofitting



After retrofitting



Who we are!

Highest competence and know-how in measurement and control engineering is our trademark. DOLI Elektronik developed itself to the technology leader in digital closed-loop electronics for material research and quality control.

We increase continuously our attractiveness as accountable partner by innovative electronics, software, engineering and support services aligned to our customer's requirements.

Our company vision:

With the help of our qualified and dedicated colleagues we drive our expansion in the future, support new markets and applications and continue to establish our company as an internationally recognized employer and business partner.

WE REPRESENT:

Quality

We offer our business partners first-class products and services of excellent quality.

Innovation

Since the foundation in 1976 until today we have been developing most innovative products.

Services

We consider ourselves as an accountable and long-term partner and offer excellent service and support to all our customers.

Technical solutions

Providing customer specific solutions in the material testing environment is one key of our success.

Independence

We are an independently and globally acting supplier of digital controllers and engineering solutions.

OUR PRODUCTION PROCESSES ARE DESIGNED TO ENSURE HIGHEST QUALITY:

Production work flows

All production work flows are standardized and geared towards high productivity, efficiency and quality.

Vertical range of manufacturing

We add value by assembling electronic modules and componentries to complete EDC devices according to our partner's configuration. Subassemblies are supplied by contracted German manufacturers, carefully selected to achieve highest quality.

Warehouse management

DOLI keeps a large stock of parts in order to respond quickly to our business partners requests.

Quality Assurance and Control

DOLI is ISO 9001:2015 certified. Each production process is designed to assure highest quality. 100% of the electronic devices that leave the company will be tested thoroughly.

We design, develop and manufacture exclusively in Germany. Sales, R&D, Production and Service out of one hand. This allows us to react quickly and flexibly to partner inquiries.

We are certified according to DIN ISO 9001:2015. We continuously monitor and improve our internal processes in order to meet our partner's requirements and to achieve highest quality for our products and services.



We are supplier for testing machine producers all over the world. Our digital controllers are used in over **40,000 testing applications and systems** worldwide and support scientific-technical laboratories, material testing institutes, noted production industries such as automotive, aviation, construction, material science and so on.

www.doli.de



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