Desoutter

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CVI3
Advanced assembly system

Integrated solutions
Advanced process control
Unmatched flexibility

More Than Productivity



Fully integrated solutions

To fit your dedicated applications

From simple tightening to a complete process control

Our close co-operation with the main automotive manufacturers has helped develop the Desoutter CVI3 assembly system. Dedicated to meet the demanding requirements of this industry segment, the CVI3 platform assures the traceability of all the safety critical application process. The integration of error proofing modules and the wide range of tools offer the flexibility to adapt to each application.

UNIQUE CONTROLLER PLATFORM

Each controller has the benefit of sharing the same architecture and design with a global software suite.



CVI3 Essential
Class B joint tightening for handheld application



CVI3 Function
All essential features with button keypad interface



CVI3 Vision
User friendly with touchscreen interface and extend with battery tools possibilities



TWINCVI3 Vision
Compact controller with 2 tool channels

WIDE RANGE OF TOOLS

The CVI3 tools are designed to deliver maximum comfort, high productivity and unmatched flexibility.



Battery tool EPBC



Battery tool EABC



Angle head tool EAD



Inline tool EID

Optimise the tightening process

- **Network communication :** standard fieldbus & advanced customer protocols
- **Tightening Strategy :** combine flexible steps with different control and different monitoring
- **Assembly process :** control a complete operation with several tightenings and logics
- **Direct visualisation and access :** simple configuration and results on the controller screen and on a remote HMI



>> BENEFITS

- Fast installation and commissioning thanks to the connectivity and the user-friendly interface
- Assembly quality guaranteed with the process control and the error proofing modules
- Reliable and safe with robust tools and hardware backup with the ePOD device
- Ready for your next requirements thanks to upgrade capabilities and tool range flexibility

CVI3 Suite - Software Package



CVI KEY
- Create & manage tailor-made access rights per user profile.

CVI CONFIG
- Set your systems point to point or via network with an intuitive & guided interface.

CVI MONITOR
- Monitor and diagnostic in live your systems. Check directly the I/O and fieldbus for an easy commissioning.

CVI ANALYZER
- Analyse & import/export tightening data with results, curves, filters, profiles.

CVI NET WEB
- Collect & store 100% tightening data in a real-time database with advanced analytics via a web based software in service mode.

CUSTOMISE TO FIT

The brushless motor combined with the torque transducer is a robust solution. Whatever the shape or connection, you will find the right tool.

Special heads, specific shapes and customised machines can be designed to meet all requirements. Furthermore, the use of arms, torque tubes, tool holders and stands will complete the overall installation.



Inline fixtured spindle EFDE*



Fistured offset electric spindle EFDO



Pistol tool ERP

*Check with your local Desoutter representative regarding Double Transducers spindles.



Full error proofing

- Thanks to dedicated **error proofing** accessories on a bus communication, the process is 100% reliable and under control.
- Extend your automation control with the **CVI Logix** features to have a complete stand alone working station thanks to an ePOD module.





Synchronise fixtured spindles

For maximum efficiency

Increase your productivity in the blink of an eye

Increasing the productivity means finding a way to reduce the tact time for the operation. By synchronising different tightenings, the operation time can be drastically reduced. The TWINCVI3 or the WORKGROUP SYNCHRO allows such operations with easy installation and commissioning. A unique entry point is enough to configure the overall system and to collect the data.

TWINCVI3 Vision

2 tools controlled by a unique controller, the TWINCVI3 Vision

- **Asynchronous Mode**
  Same features as 2 stand-alone loops with only one access point
- **Synchronous Mode**
  Simple integration with no need of additional mechanical or electronic connections, the synchronisation is simply done through the software



TWINCVI3 Vision



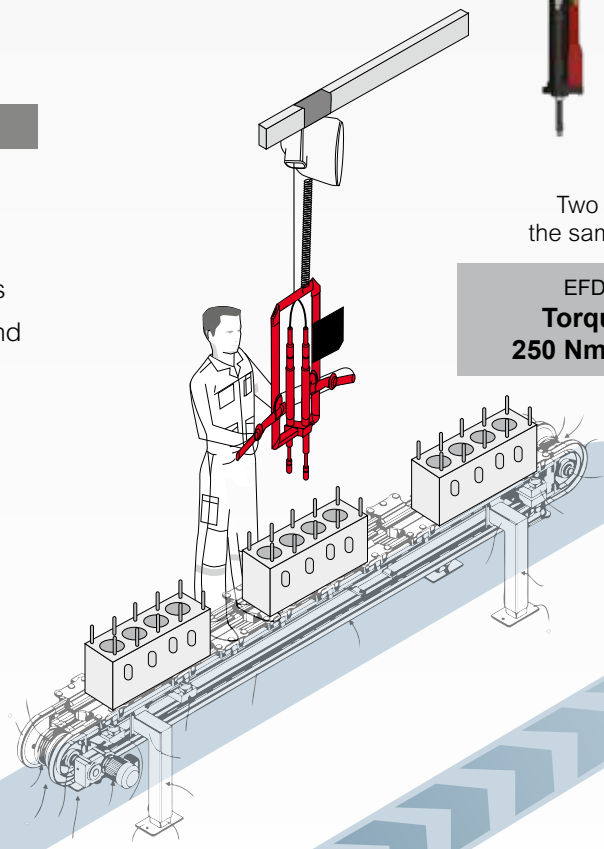
Two tools with the same controller

EFDE range
Torque up to 250 Nm (184 ft.lb)

>> BENEFITS

- **Small space needed** thanks to a compact design for a two cord tool channels solution
- **Flexible usage** with 2 working modes
- **Save the amount of connections** and simplify the communication through 1 unique entry point
- **Quick to synchronize** as all is done through a friendly interface





CVI NET WEB

Full data traceability



>> BENEFITS

- **All data secured thanks to** real time collection and storage
- **Accessible by everyone** for data viewing with just a web browser
- **Fast processing for the results,** curves and statistics report in a click

WORKGROUP SYSTEM

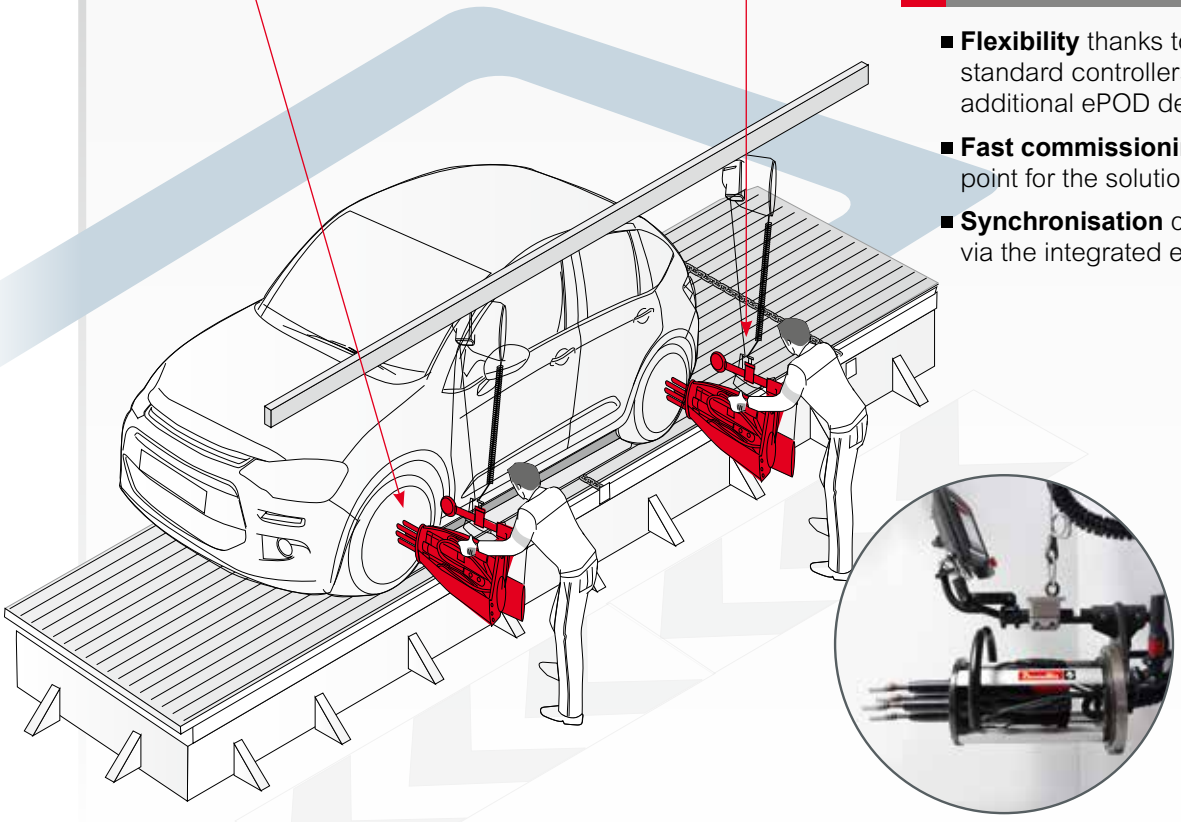
Up to 14 fixtured spindles controlled in synchronous mode





>> BENEFITS

- **Flexibility** thanks to the use of standard controllers with an additional ePOD device
- **Fast commissioning** with 1 entry point for the solution
- **Synchronisation** of the controllers via the integrated ethernet network



Mobility with traceability

Freedom from cable with battery tools

Bringing all the latest innovations to your assembly line

The EABCom - EPBCom is a highly ergonomic and accurate battery tool for every critical and safety critical applications. It offers a working comfort to operators with its light weight and advanced design, and is able to run a complete shift with its Li-ion battery technology.
It integrates easily to the CVI3 Vision controller, supporting the most advanced tightening strategies and communication protocols with your line management system.
This cordless tool also offers an excellent level of performance, both on tool speed and on communication ability, which overall makes it the perfect battery tool for your assembly lines.



Pistol Version : additional features

- Torque 1,5-17 Nm
- Compatible with both 18v and 36V batteries
- White LED activated by movement

NEW

eLINK range

Angle head tool with integrated task light
(with LED color code reporting)



Barcode reader ready



ADVANCED ERGONOMICS

- Low weight tools
- Effortless trigger
- 45° oriented battery (angle version)
- Slim angle head for tight areas access

EASY INTEGRATION

- Quick wireless installation - Directly on an existing CVI3 controller
- Data collection through wireless communication
- Improve error-proofing control with advanced tightening strategies
- Easy attachment for crowfoot & tubenuts

INCREASED PRODUCTIVITY

- High speed tool and increased autonomy with 36V battery & 2.1 Ah capacity
- Embedded display for pset selection
- Strong & efficient wireless communication, tested in industrial environment

OPTIMIZED MAINTENANCE

- Long life batteries, no memory effect on Li-ion battery
- Dust & oil proof trigger
- Common spare parts with all CVI3 range

Applications and solutions

Each application has a dedicated solution

Meet your productivity requirements with Desoutter solutions

The choice of assembly solutions in the automotive industry is strongly influenced by their quality standards. In Desoutter, we propose dedicated solutions for each one of these applications, in order to fulfill all the requirements for the assembly. We give flexibility to the customer with a large tools range both on cord and cordless technologies, we ensure an easy integration within the assembly process, and we guarantee the traceability of all data through our CVI3 controllers.

DASHBOARD COCKPIT
In-line EID
Ergonomic tool fixed on a reaction arm





SAFETY COMPONENT
EAD with crowfoot
High accuracy solution

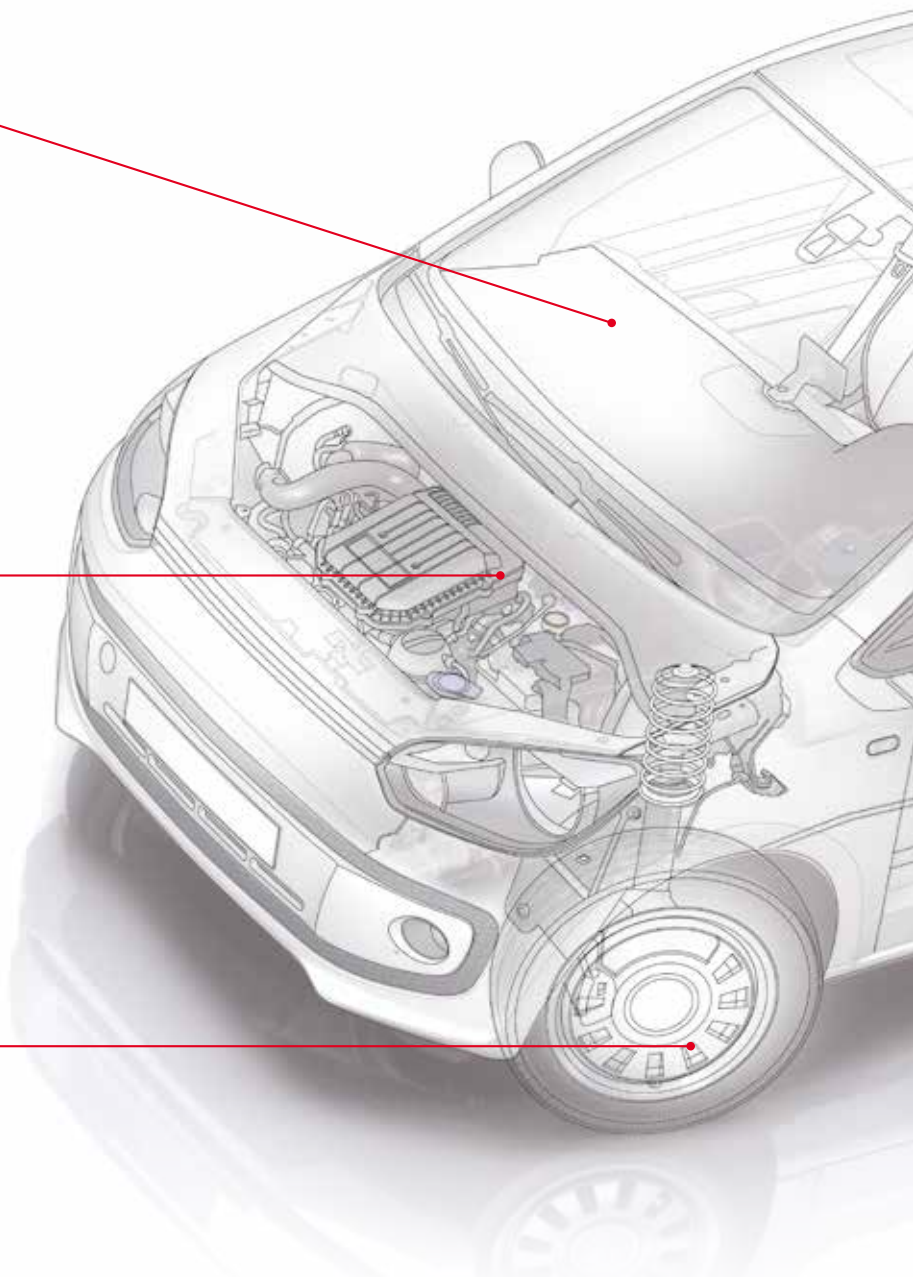




WHEEL ASSEMBLY
EFDE – Multi-spindles
Reduced duty cycle







SEAT ASSEMBLY

EABC battery tool
Free movement without tool cable



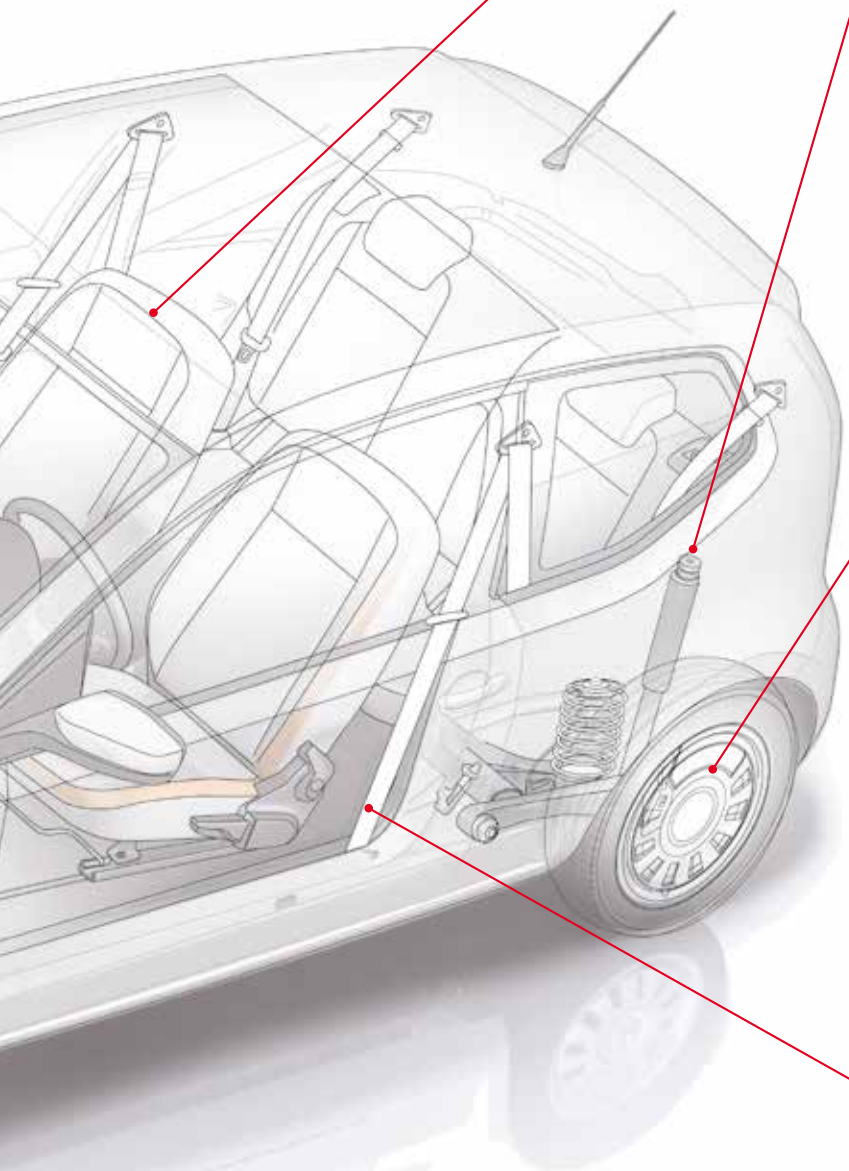


SHOCK ABSORBER

EAD with Hold & Drive. A ready-to-work solution for a complex application







BRAKE SYSTEM

TwinCVI3 controller
Synchronise 2 tools on a unique controller



SAFETY BELT

Angle head EAD
High speed and accurate tool





Desoutter Industrial tools

Desoutter Industrial Tools is a global leader in electric and pneumatic assembly tools serving a wide range of assembly and manufacturing operations, including Aerospace, Automotive, Light and Heavy Vehicles, Off-Road, General Industry.

Desoutter offers a comprehensive range of Solutions - Tools, Service and Projects - to meet the specific demands of local and global customers.

Desoutter
Committed to our customers success!

Our worldwide organisation is at your disposal to listen and meet your needs wherever you are, providing standardised and global solutions. Find more on **www.desouttertools.com**





Flash it for Technical Datas,
Part Numbers and Accessories

www.desouttertools.com/CVI3

Watch our videos on
www.youtube.com/DESOUTTERTOOLS





This catalogue contains only a selection of our products. For futher information refer to the Desoutter Industrial tools catalogue or log in to **www.desouttertools.com**

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English
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