

The new standard of Value in Efficient Tightening...

In an era of FLEXIBLE manufacturing and the race to ZERO-fault assembly, Desoutter is proud to introduce the new standard of Value in Efficient Tightening for safety-critical applications: CVI3 assembly system.

This new system offers unequalled EFFICIENCY for all plants thanks to the best combination of advanced process control, easy integration, user-friendly interface & unmatched flexibility.

The CVI3 system integrates UNIQUE added value INNOVATIONS:
Reduce rework cost: complete station process control including tightening

& logical operations without need for a dedicated PLC > **Assembly Process**
Decrease installation/re-balance cost: Fast & easy line re-balancing with multiple Battery transducerized tools connected to 1 CVI3 controller > **EAB cordless tools.**

Improve quality with intuitive software: User-friendly & visual interface to view tightening data & detect quality issues > **CVI ANALYZER.**

Optimize flexibility: 2 fixtured spindles synchronized or asynchronous in standard > **TWINCVI3.**



ADVANCED PROCESS CONTROL



EASY INTEGRATION

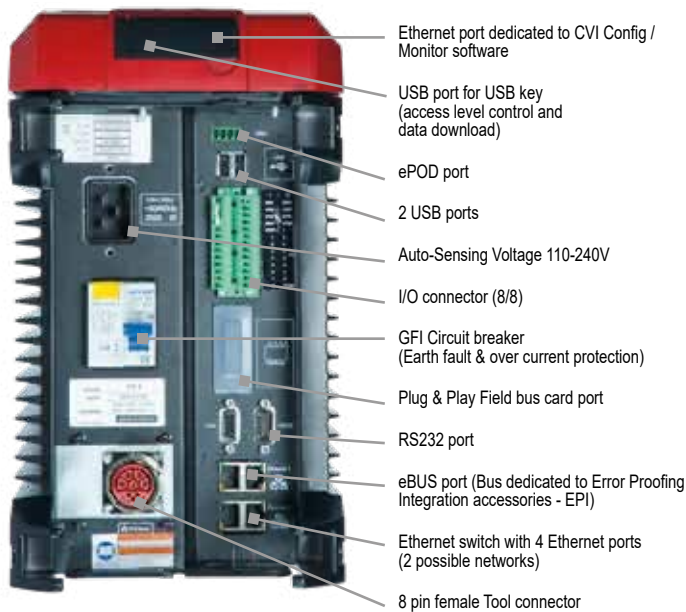


UNMATCHED FLEXIBILITY



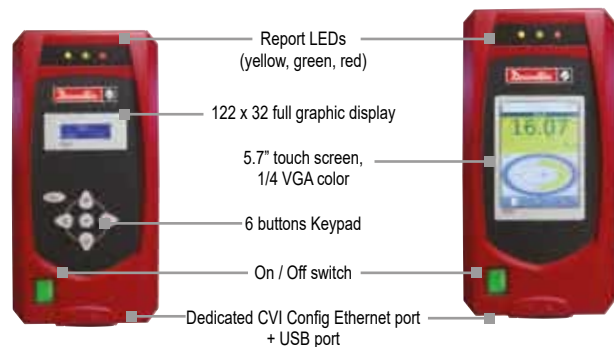
USER-FRIENDLY INTERFACE

Technical features



CVI3 Function /
CVI3 Essential

CVI3 Vision



FEATURES	CVI3 ESSENTIAL	CVI3 FUNCTION	CVI3 VISION	TWINCVI3 SYNCHRO/ASYNCHRO
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CONTROLLERS

Weight - kg (lbs)	9.3 (20.5)	9.3 (20.5)	9.3 (20.5)	15 (33.1)
Volume (dm3)	19.5	19.5	19.5	29.6
Color touchscreen			✓ (5.7")	✓ (5.7")

STORAGE

Pset results (torque, angle, date, time, report)	10000 (Only OK/NOK)	10000	10000	10000/20000
Pset curves (OK/NOK)		20	20	20/40
Assembly Process results	1000 (Only OK/NOK)	1000	1000	1000/2000
Event log storage (number of events)	500	500	500	500

BASIC FUNCTIONS

Nbr of Psets	6	250	250	250
Nbr of steps per Pset	15	15	15	15
Barcode reading (standard and 2D)	✓	✓	✓	✓
Quick Pset	✓	✓	✓	✓
Tubenut release	✓	✓	✓	✓

ADVANCED FUNCTIONS

Access Level Control/Management with unlimited profiles	✓	✓	✓	✓
ID input to select Assembly Process (up to 10 different identifiers)	✓	✓	✓	✓
Number of Assembly Process	6	250	250	250
Advanced Soft PLC (in option with CVILOGIX, ePod Essential, ePod2C (min.) is required)	✓	✓	✓	✓
1 Network/Fieldbus Access point per group of up to 14 tools			✓	✓
Full synchronized control for a group of up to 14 controllers			✓	✓

TIGHTENING STRATEGIES

Control: torque, angle, torque OR angle, torque AND angle, yield point*, torque rate*, seating detection*	Torque only	✓	✓	✓
Monitoring: torque rate*, 2nd part angle, current, slip off, stick slip, time & rundown angle	Angle only	✓	✓	✓

CONNECTIVITY

Configurable I/O	8/8	8/8	8/8	8/8
USB ports (2 + 1 front)	✓	✓	✓	✓
Embedded Ethernet switch (4 ports + 1 front – 2 networks)	✓	✓	✓	✓
Dedicated Bus for integrated positioning management	✓	✓	✓	✓

OPTIONAL FIELDBUS

Plug & Play Fieldbus module port (EthernetIP, ProfiNet A/B/IRT, Modbus TCP, DeviceNet, Profibus, CC-Link)	✓	✓	✓	✓
Configurable fieldbus data mapping	✓	✓	✓	✓

*with cable tools

