



# CONNECT

Industrial Smart Hub

BOOST YOUR  
**FLEXIBILITY**

BOOST YOUR  
**UPTIME**

BOOST YOUR  
**PRODUCTIVITY**

More Than Productivity



# CONNECT INDUSTRIAL SMART HUB

## MULTI-TOOL SOLUTION

Up to 20 tools connected  
to only one CONNECT.

## SINGLE POINT OF CONNECTION FOR UP TO 20 TOOLS

With only one safety power supply  
With only one Ethernet/fieldbus connection  
With only one stand to mount the CONNECT.

## FOOTPRINT OPTIMIZATION

With a volume of only 4L,  
the CONNECT can be installed  
anywhere, under any constraints.

## EASY LINE REBALANCING

Pair the tool in less than 10 seconds,  
with easy RFID pairing feature.



## CAPACITIVE INDUSTRIAL GRADE TOUCH SCREEN

With several display options and quick response time.

## FINE-TUNES SETTINGS & SCALABLE SOLUTION

With feature management fine-tunes the Tightening Units by loading only features needed for each application.

## FEATURE REBALANCING

Easy feature rebalancing from tightening unit to another one.

## REMOVABLE INTEGRATED MEMORY

Transfer DATA and settings from one CONNECT to another in a fast and effective way.

## BOOST YOUR FLEXIBILITY

- ▶ GET WHAT YOU REALLY NEED WITH FEATURE MANAGEMENT
- ▶ MULTI-CORDLESS TOOL SOLUTION
- ▶ SINGLE CONNECTION TO PLANT SYSTEM
- ▶ COMPATIBLE WITH ALL DESOUTTER WIRELESS COMMUNICATION TOOLS  
(With IEEE 802.11 Wireless communication)

## BOOST YOUR UPTIME

- ▶ KPI MANAGEMENT (Key Performance Indicator)
- ▶ FAST TOOL REBALANCING WITH EASY PAIRING
- ▶ FAST DATA & SETTINGS TRANSFER FROM ONE CONNECT TO ANOTHER ONE WITH REMOVAL BACK-UP MEMORY
- ▶ NO RISK OF ERRORS IN WIRELESS NETWORK SETTINGS DUE TO EASY PAIRING PROCESS

## BOOST YOUR PRODUCTIVITY

- ▶ DATA INTEGRITY
- ▶ FULL TRACEABILITY
- ▶ TIGHTENING PROCESS OPTIMIZATION  
(Fieldbus/protocols - tightening strategy / assembly process...)
- ▶ FULL ERROR PROOFING WITH ADDITIONAL ACCESSORIES



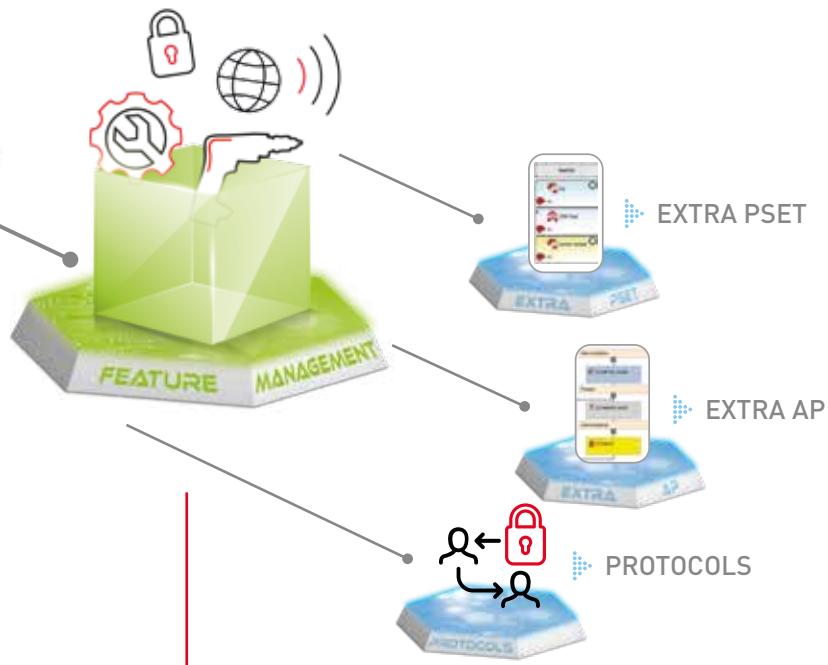
CONNECT has been designed **to meet today's and tomorrow's** demanding production processes.

MULTI-CORDLESS TOOL SOLUTION

SCALABLE SOLUTION

EASY TOOL & FEATURE REBALANCING

FULL TRACEABILITY



INDUSTRIAL SMART HUB

**CONNECT** is a powerful platform able to manage all items related to the assembly line

With error proofing accessories and full traceability management for up to 20 tools, CONNECT is a solution with a **HIGH LEVEL OF CONNECTIVITY** to manage and control the assembly line under all circumstances.

FEATURE MANAGEMENT

**FEATURE MANAGEMENT** is a scalable solution which allows you to get what you really need

With its **HIGH LEVEL OF FLEXIBILITY**, you can add new features whenever the requirements on your production line change. You just have to activate the feature and it is ready to use.



## MULTI-CORDLESS TOOL SOLUTION

### CONNECT-W

With embedded access point  
Up to 10 tightening units activated

With **CONNECT-W**, 10 tightening units can be activated which means 10 cordless tools can be paired.

### CONNECT-X

Requires an external access point  
Up to 20 tightening units activated  
(No embedded access point)

With **CONNECT-X**, 20 tightening units can be activated which means 20 cordless tools can be paired.



### TOOL RANGE COMPATIBLE

COMPATIBLE WITH ALL DESOUTTER CORDLESS TOOLS with IEEE 802.11 wireless communication.



► EABC



► EPBC



► BLRTC



► DELTA WRENCH



► EABS



► E-LIT

## SINGLE POINT OF CONNECTION

UP TO 20 TOOLS CONNECTED with a single point of connection

SINGLE POINT  
OF CONNECTION



ONLY ONE SAFETY POWER SUPPLY FOR UP TO 20 TOOLS

ONLY ONE ETHERNET/FIELDBUS CONNECTION  
FOR UP TO 20 TOOLS

FOOTPRINT OPTIMIZATION *(only one stand for up to 20 tools)*



- ① Switch On/Off
- ② Auto-Sensing Voltage 110-240V
- ③ 24V power supply
- ④ RS 232 port
- ⑤ eBUS port (Bus dedicated to Error Proofing Integration accessories - EPI)
- ⑥ Ethernet switch with 4 Ethernet ports (including one POE)
- ⑦ 2 USB ports on connector panel + 2 USB ports on front panel
- ⑧ Plug & Play Field bus card port

## FULL ERROR PROOFING

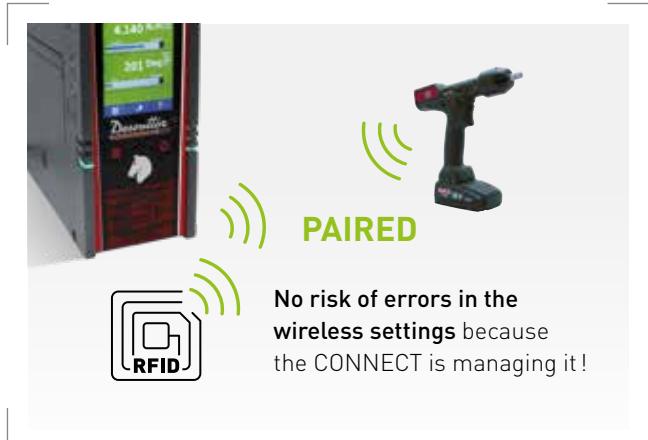
Thanks to error proofing accessories on a dedicated communication bus, the process is 100% reliable and under control.



## TOOL'S REBALANCING

### EASY WIRELESS PAIRING

With easy wireless pairing, transducerized tool is paired in less than **10 seconds**



## REMOVABLE INTEGRATED MEMORY

### FAST DATA & SETTINGS TRANSFER

Removable integrated memory (RIM)



## DESOUTTER SIGHT



- Remote access to Connect menu for on-line adjustment
- Display in real-time the results per TU / workstation

## VIRTUAL CABLE

### WIRELESS TOOLS ZONE CONTROL SOLUTION



Virtual Cable enables **total traceability** and control over tools locations and applications

The tool is **enabled for tightening** only in the **defined working area** preventing Production errors and Quality issues



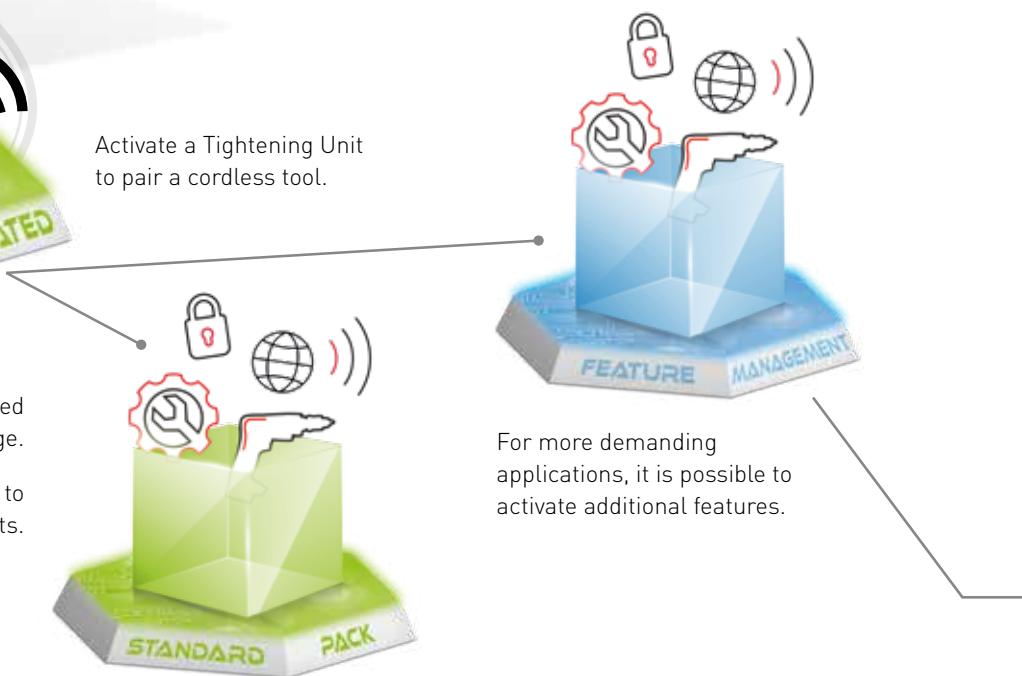
Each Tightening Unit activated includes a Standard package.

The standard package has been built to meet with more than 80% of requirements.

## GET WHAT YOU REALLY NEED WITH **FEATURE MANAGEMENT**

**FEATURE MANAGEMENT** is a scalable solution in order to provide a high level of flexibility to meet requirements. With feature management, you can add or remove a feature whenever you want or whatever the feature.

### HOW DOES IT WORK ?



3 TYPES OF TIGHTENING UNITS [TU] ARE AVAILABLE ON CONNECT PLATFORM WITH DIFFERENT STANDARD PACK FEATURE LEVELS

### STANDARD PACK

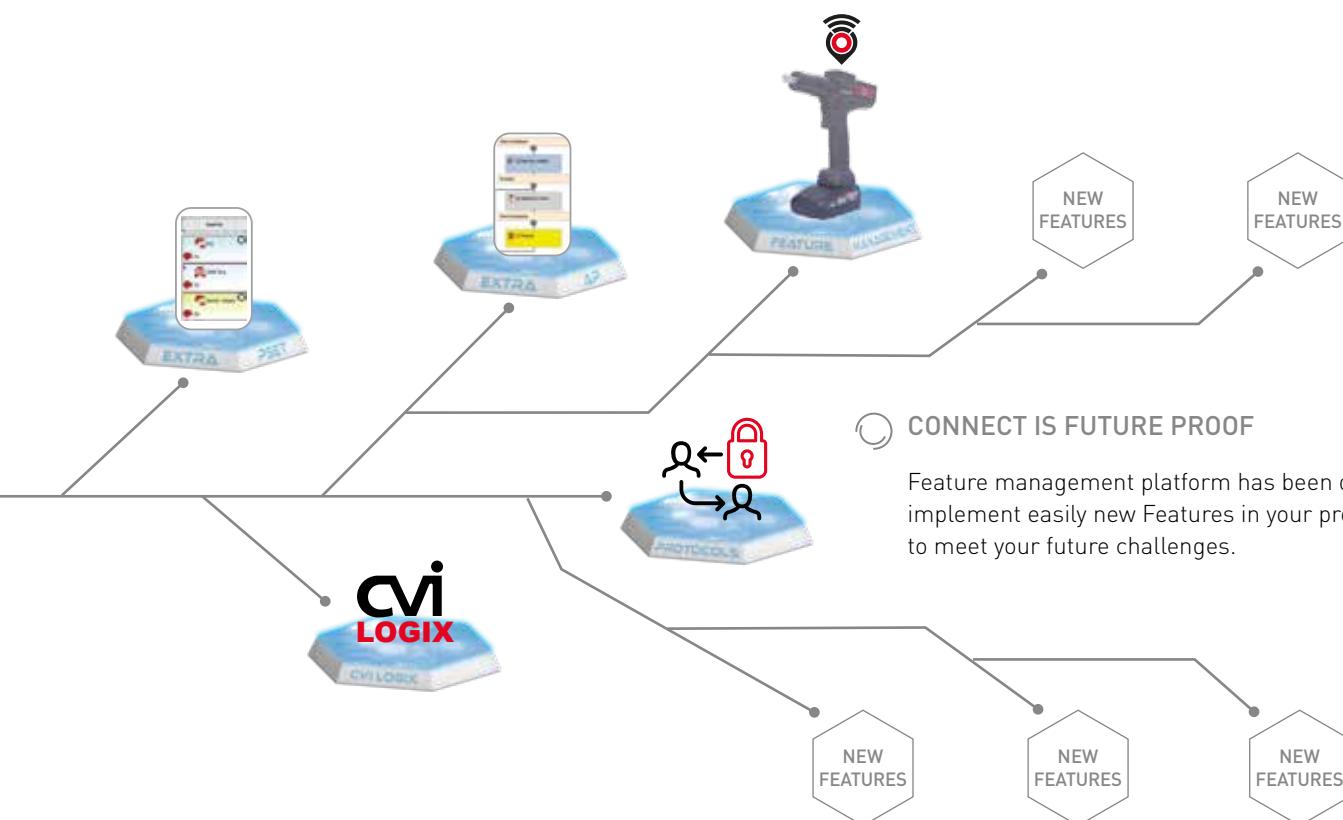
	<b>TU Premium</b>	<b>TU Essential</b>	<b>TU E-LIT wifi</b>
<b>Compatible tool</b>	EABC, EPBC, EABS, BLRTC	EABC, EPBC, EABS, BLRTC	ELC-P-W, ELC-A-W
<b>Number of Pset</b>	10	6	4
<b>Number of Assembly Process</b>	10	6	4
<b>Live Results</b>	Torque & angle values curves	Torque & angle values curves	OK/NOK
<b>Result Transfer/storage</b>	Torque & angle values + curves	OK/NOK	OK/NOK
<b>Tightening strategy</b>	Torque and/or angle control Torque and/or angle monitoring	Torque control angle monitoring	Torque control
<b>Protocol</b>	Open protocol	Open protocol	Open protocol
<b>Pairing</b>	RFID or eDock pairing	RFID or eDock pairing	eDock pairing

## FEATURES UNDER FEATURE MANAGEMENT ?

- FEATURE ACTIVATION IS DONE TIGHTENING UNIT PER TIGHTENING UNIT FOR MORE FLEXIBILITY ON YOUR PRODUCTION LINE

### FEATURE MANAGEMENT IS REQUIRED :

- For each Tightening Unit activation TU PREMIUM / TU ESSENTIAL / TU E-LIT WIFI
- For additional Pset activation: extra feature available on TU PREMIUM
- For additional Assembly process activation : extra feature available on TU PREMIUM
- For Virtual Cable feature activation : extra feature available on TU PREMIUM / TU ESSENTIAL
- For specific protocol activation : extra feature available on TU PREMIUM / TU ESSENTIAL / TU E-LIT WIFI
- For CVI logix program activation : extra feature available on TU PREMIUM / TU ESSENTIAL / TU E-LIT WIFI



## HOW TO ACTIVATE A FEATURE ?

- THE HIGH FLEXIBILITY OF FEATURE MANAGEMENT IS REACHED THANKS TO **UV**

- ANY OR ALL FEATURES CAN BE ACTIVATED BY APPLYING **UV**

- EACH FEATURE HAS ITS OWN **UV** VALUE FOR ACTIVATION

**UV** = Unit Value

## TIGHTENING PROCESS **OPTIMIZATION**

- **NETWORK COMMUNICATION** : standard fieldbus & advanced customer protocols
- **TIGHTENING STRATEGY** : combine flexible steps with different control and different monitoring
- **DIRECT VISUALISATION AND ACCESS** : simple configuration and results on the controller screen and on a remote HMI
- **ASSEMBLY PROCESS** : control a complete operation with several fastenings and logical requirements (scans, I/O, ...)



## FULL TRACEABILITY

- **FULL DATA TRACEABILITY**
- **ALL DATA** stored thanks to real time collection and storage
- **ACCESSIBLE BY EVERYONE** for data viewing with just a web browser with secured access
- **FAST PROCESSING FOR THE RESULTS**, curves and statistics report with a click

## SOFTWARE PACKAGE

- **EASY CONNECTIVITY AND A USER-FRIENDLY INTERFACE** makes for a fast installation and smooth commissioning
- **EASY UPGRADE CAPABILITIES AND FLEXIBILITY OF THE TOOL RANGE** assures readiness for your future requirements

- **ROBUST TOOLS AND HARDWARE BACKUP** make for reliable and safe station
- **ASSEMBLY QUALITY GUARANTEED** with the process control and the error proofing modules

### cv<sup>i</sup> **KEY**

Create & manage tailor-made access rights per user profile

### cv<sup>i</sup> **CONFIG**

Set up your systems point-to-point or on a network with a guided intuitive interface

### cv<sup>i</sup> **MONITOR**

Live diagnostics for I/O and fieldbus for fast commissioning

### cv<sup>i</sup> **ANALYZER**

Import, exanalyze tightening port, and data with results, curves, filters, and profiles

### cv<sup>i</sup> **NET WEB**

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

# CONNECT Industrial SMART HUB



CONNECT-W		CONNECT-X
<b>Weight</b>	2,8 kg	
<b>Volume</b>	4,2 Liters	
<b>Display</b>	Capacitive color touch screen (4,3'')	
<b>Access point</b>	EMBEDDED (includes internal access point)	NOT INCLUDED (external access point required)
<b>Removable Integrated Memory</b>	Included (accessible from front panel)	
<b>Power supply</b>	110V – 220V or 24V	
<b>Connectivity</b>	4 Ethernet ports – 4 USB ports – RS-232 port – eBUS port – fieldbus card slot	
<b>IP Protection</b>	IP 40 IP54 with an additional accessory	
<b>Accessories</b>	Wall mounting – stack light – socket tray – bit tray – operator panel – field bus – I/O expander – Desoutter Sight	

## FEATURE MANAGEMENT



### TIGHTENING UNIT

Up to 10 TU with CONNECT-W  
Up to 20 TU with CONNECT-X

TU PREMIUM / TU ESSENTIAL / TU E-LIT WIFI

**EXTRA PSET**  
Pack "up to 50 PSET"  
Pack "up to 250 PSET"



TU PREMIUM

### EXTRA ASSEMBLY PROCESS

Pack "up to 50 AP"  
Pack "up to 250 AP"

TU PREMIUM



### PROTOCOLS

Desoutter protocol  
Customer protocols

TU PREMIUM / TU ESSENTIAL / TU E-LIT WIFI



### AUTOMATION CONTROL

CVI LOGIX

TU PREMIUM / TU ESSENTIAL / TU E-LIT WIFI



### VIRTUAL CABLE

Tracker with one or  
multiple working spaces

TU PREMIUM / TU ESSENTIAL



## DESOUTTER SIGHT



15.6" SIGHT  
Multi-touch screen  
2.4GHz / 5GHz  
Wi-Fi communication  
VESA mount



7" SIGHT  
Multi-touch screen  
2.4GHz / 5GHz  
Wi-Fi communication  
VESA mount



SIGHT MODULE  
Manage customer display  
2.4GHz / 5GHz  
Wi-Fi communication  
VESA mount

## VIRTUAL CABLE



### TRACKING BASE

ULTRA WIDEBAND TECHNOLOGY (UWB): 3.5 to 6.5 GHz  
AREA COVERAGE: Sphere of 20m (65.6 ft) around the  
Primary Tracking Base  
ACCURACY: +/- 15cm (0.5 ft)



### TRACKER

CONNECT HUB: Up to 8 Tracking Bases per CONNECT  
EACH TRACKING BASE: Up to 8 working areas and/or  
tools per tracking base

# More Than Productivity