Pro Suite ®

PAPERLESS
MANUFACTURING
SOLUTIONS
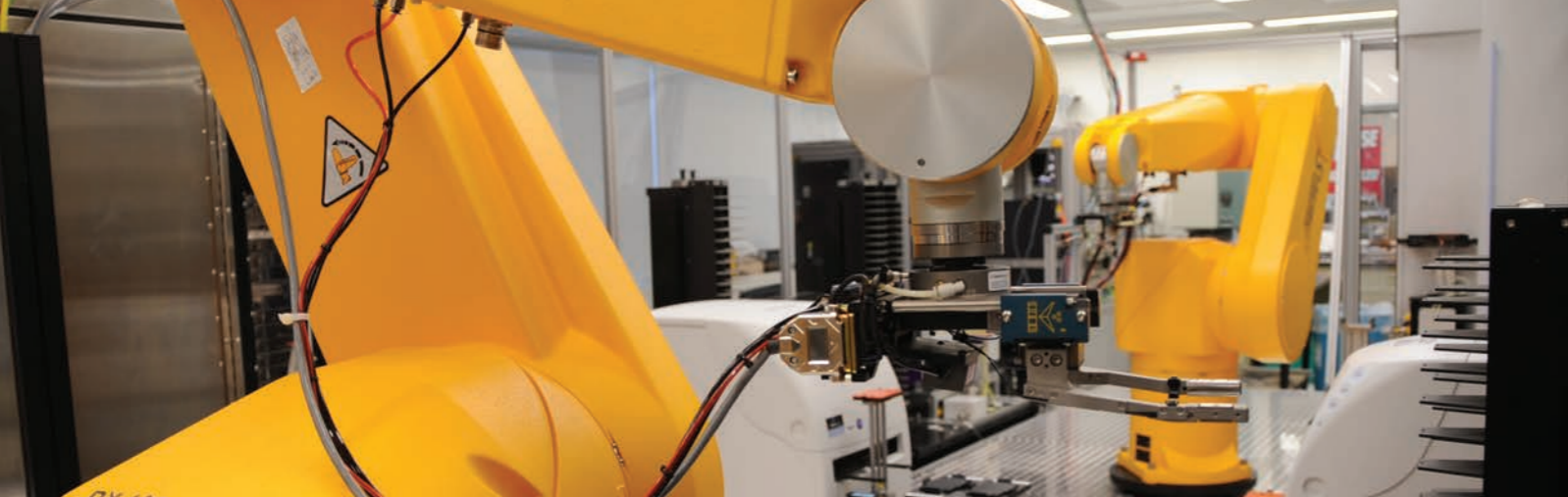

ProSuite ®
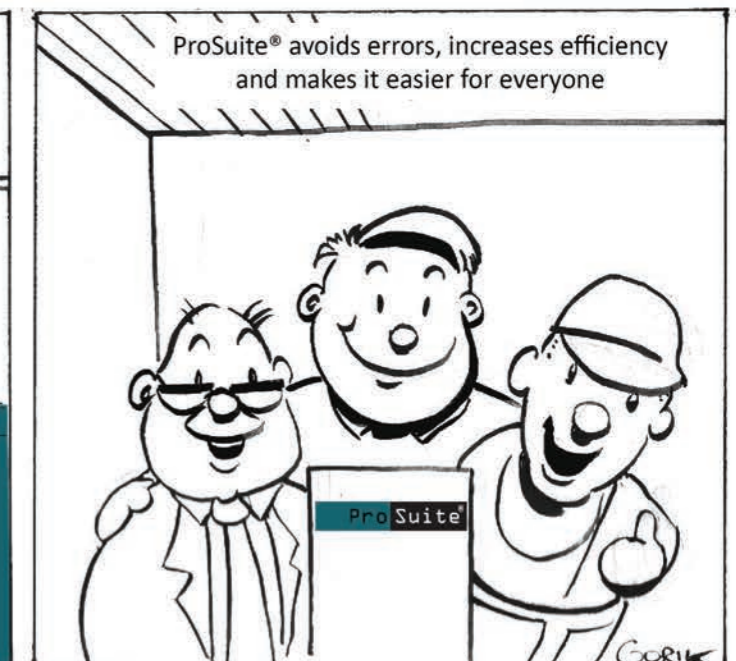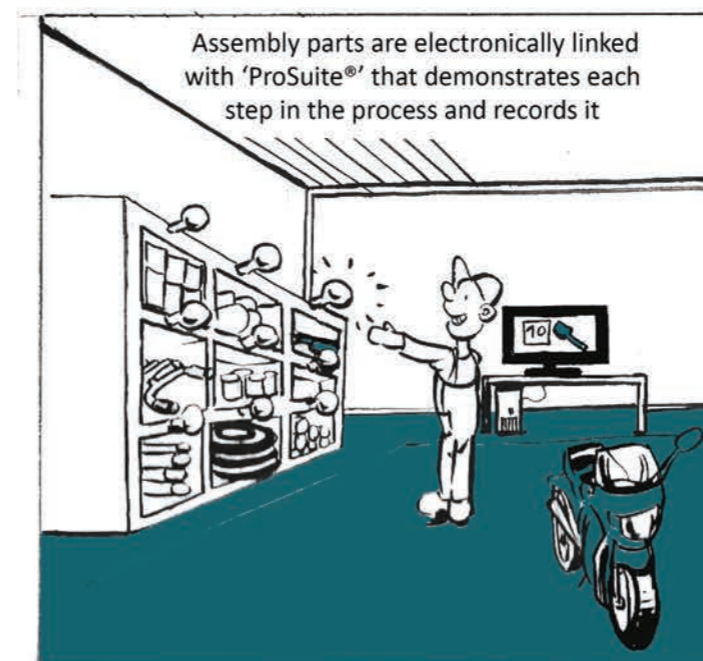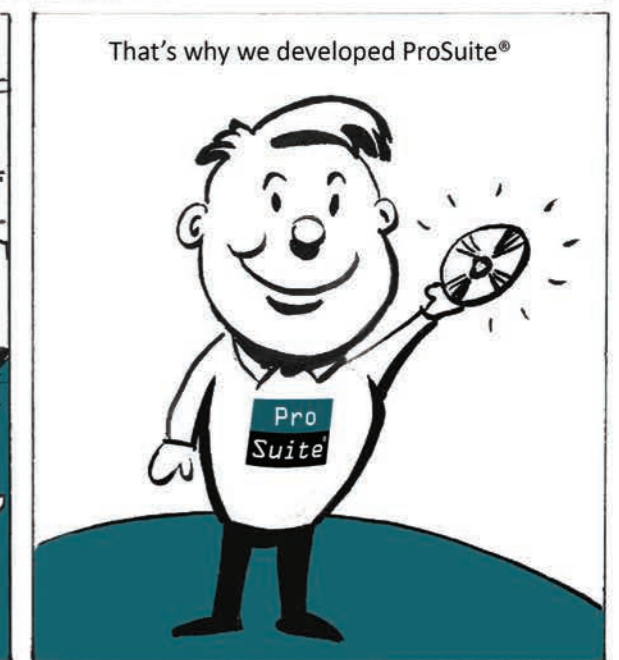
Content

THEY ALSO USE PROSUITE AS THEIR ASSEMBLY SOLUTION

As a manager in the assembly industry you want to increase the efficiency

You dream of centipedes on the shop floor, super efficient, never short-handed, always stand-by

But your employees are still humans

That's why we developed ProSuite®

Assembly parts are electronically linked with 'ProSuite®' that demonstrates each step in the process and records it

ProSuite® avoids errors, increases efficiency and makes it easier for everyone

COMPATIBLE WITH 90% OF THE MARKET

AMT

AIMCO

ASG
Assembly · Industrial · Precision Fastening · Automation

Atlas Copco

BMS TORQUE SOLUTIONS

BOSCH

Cleco

crane

RAD TORQUE SYSTEMS

Desoutter

ESTIC

YOKOTA

GEORGES RENAULT

GSE

HS-Technik GmbH
High - System - Technik

Ingersoll Rand

KOLVER

makita

mountz
the torque tool specialty®

norbar
Norbar Torque Tools

one too

Snap-on

SCS
Concept Group

STANLEY

fiam

TOHNICHI

Ubisense

STAHLWILLE

Fein

URYU
SEISAKU, LTD.

Panasonic

WHAT ARE YOU LOOKING FOR?

In the assembly line are still a lot operators necessary due to complex assembly processes.
However, operators are still humans and not robots, which means they can make mistakes. To counter this issue, we developed our product ProSuite.

ProSuite combines traceability with process control. Traceability stands basically for listing all registered data while process control stands for imposing the operator how to work by giving him step-by-step instructions with aid of a screen and disable or enable the tools he has to use.
We have extensive experience in all different types of traceability solutions, ranging from simply tracking tightening results to complete plant control.

Stand alone
With stand alone, we equip one station with our software solutions. Our software solutions guide operators through the required operations at his assembly station. As the operator proceeds through the requested task, the software governs and registers all tightening results of the assembly. All data of the tightening procedures is stored locally. The tool can be disabled if the tightening of the wrong bolt is attempted, or when it happens in the wrong sequence. An interactive socket tray indicates which socket should be used, and disables the tool if the wrong one is in place. The screen guides the operator through the sequence by visually indicating what the operator should do. If this is what you are looking for, than is our standard solution ProTight what you are looking for.
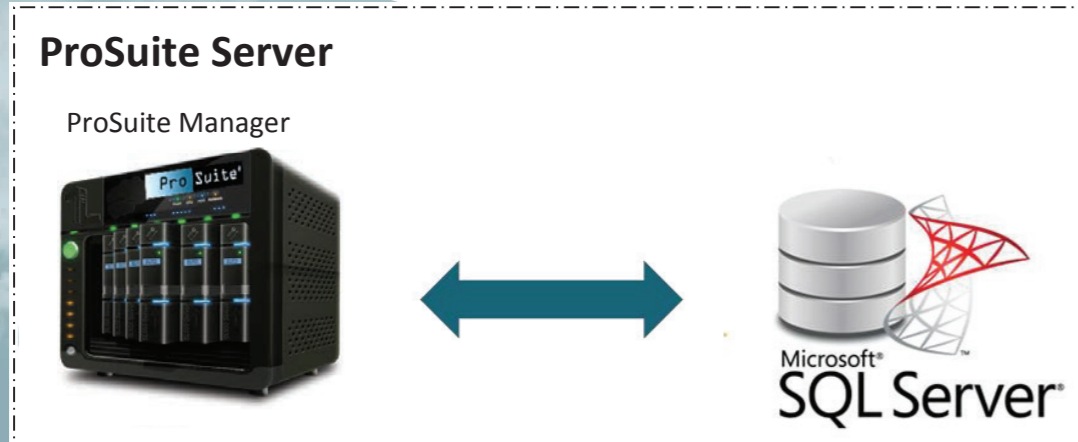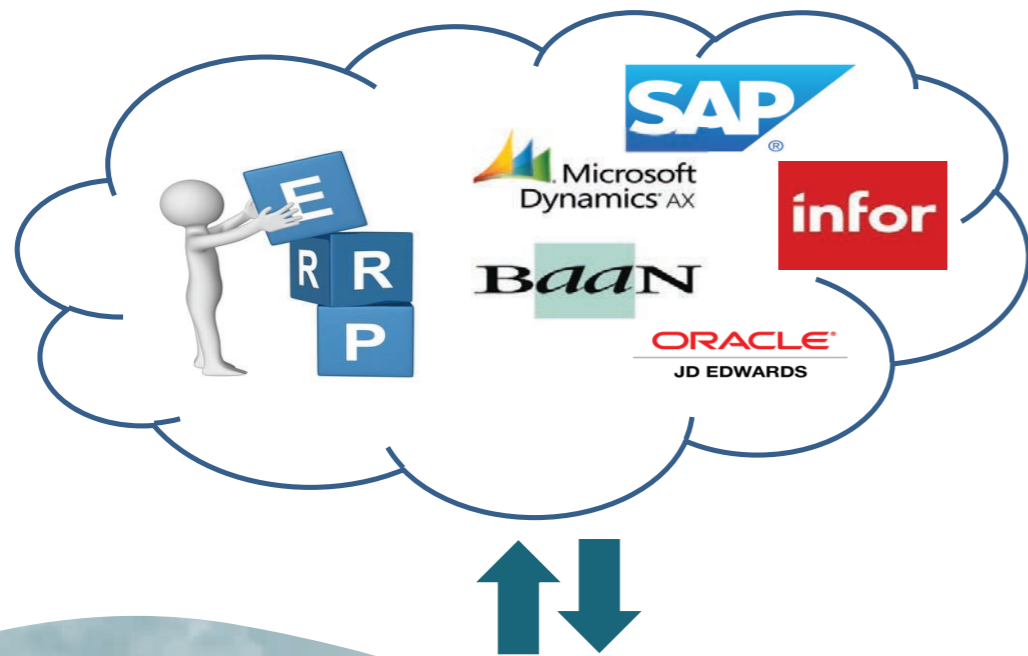
Multiple station with data collection
Several single stations can be linked together in order to store all local data on a central server. The server governs the status of all the stations and tracks every part by its serial number. The server notifies when an issue arises, and gives the ability to isolate the product with that serial number. The software integrates together with the customers network, giving it the ability to link the tightening results to all other data of the product with that serial number. If this is what you are looking for, than we can help you with a combination of ProCollect and ProTight Multi-station.
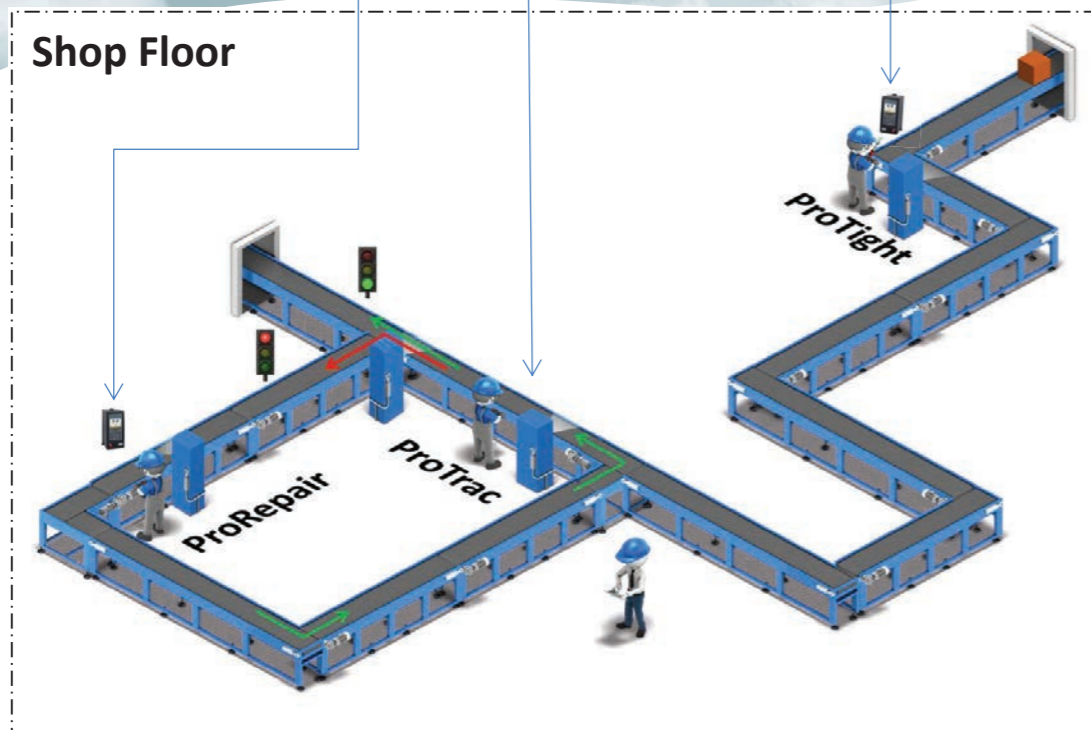
Plant Control
Several stations are linked together in order to receive the handlings every operator has to execute at his specific station and to store all data on a central server. Once the product with the serial number is imported in the system, all the other actions are happening autonomously. If this is what you are looking for, than we can help you with a combination of ProSuite Manager and ProTight.

Collect data
Traceability is a first step to collect data, but with just logging all the data you miss a lot of opportunities to improve your production process. That's why we offer you the possibility to collect and analyze the data that was linked to the products serial number, so you can look easier where you can improve your efficiency at the assembly line. Even more important is that we are able to intervene faster and more effectively when there occurs a problem. If this is what you are looking for, than the standard solutions ProCollect and ProNet are what you're looking for.

ProSuite Server

ProSuite Manager

Microsoft **SQL Server**

Network

Shop Floor

ProTight

ProRepair

ProTrac

Prosuite® Manager Highlights

Benefits:
- Compatibility with 90% of all the brands of tighteners
- cost-reducing
- Quality-improving
- Productivity-improving

Business challenges:
- Integration with other software packages I may be using.
- The software is configured using web browsers, not custom proprietary software that requires per seat licensing.
- Easy access to the system for configuration and reporting must be available form any PC on the network.
- High data-security
- Easy to move and accommodate changes in hardware configuration on the assembly line.
- The system is open and allows changes to be made in house with no specialist software.
- Control and distribute the correct build-info to all tightening stations.
- All parameters for the controllers and the tools are limited to the products serial number.
- The system has to be able to work off-line when there occurs a network problem.
- Possibility to change the data in case of a removal.

The solution:
- ProSuite® Manager
  - One central server
  - Universal software
  - Modular construction
  - Works with every windows-pc
  - Cheap expand options

YOUR PROSUITE® DEALER

ProSuite Manager_ENG_V2.6

YOUR CONNECTION BETWEEN THE ORDER AND THE SHOP FLOOR

Problems with bolted connections are a frequent problem. That's why more and more organisations invest in peripheral equipment to check the bolted connections as well as the used parts.

Once you begin working with peripherals, this quickly becomes a costly affair, because each system requires a different server. Not only do you have to make a large investment during the installation, but also the maintenance costs are a significant aspect.
These peripherals don't always work optimally in a production environment, because the various systems do not communicate with each other.
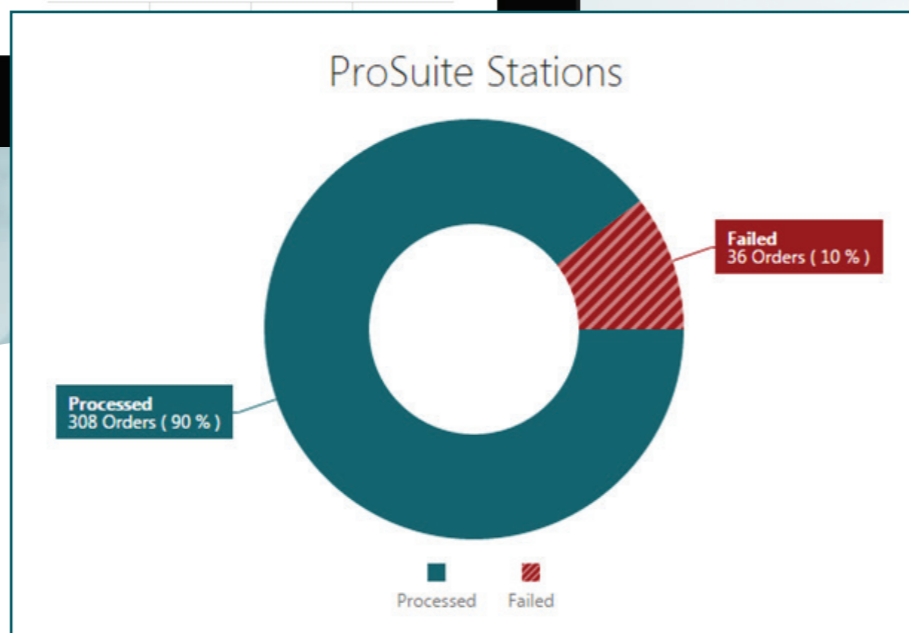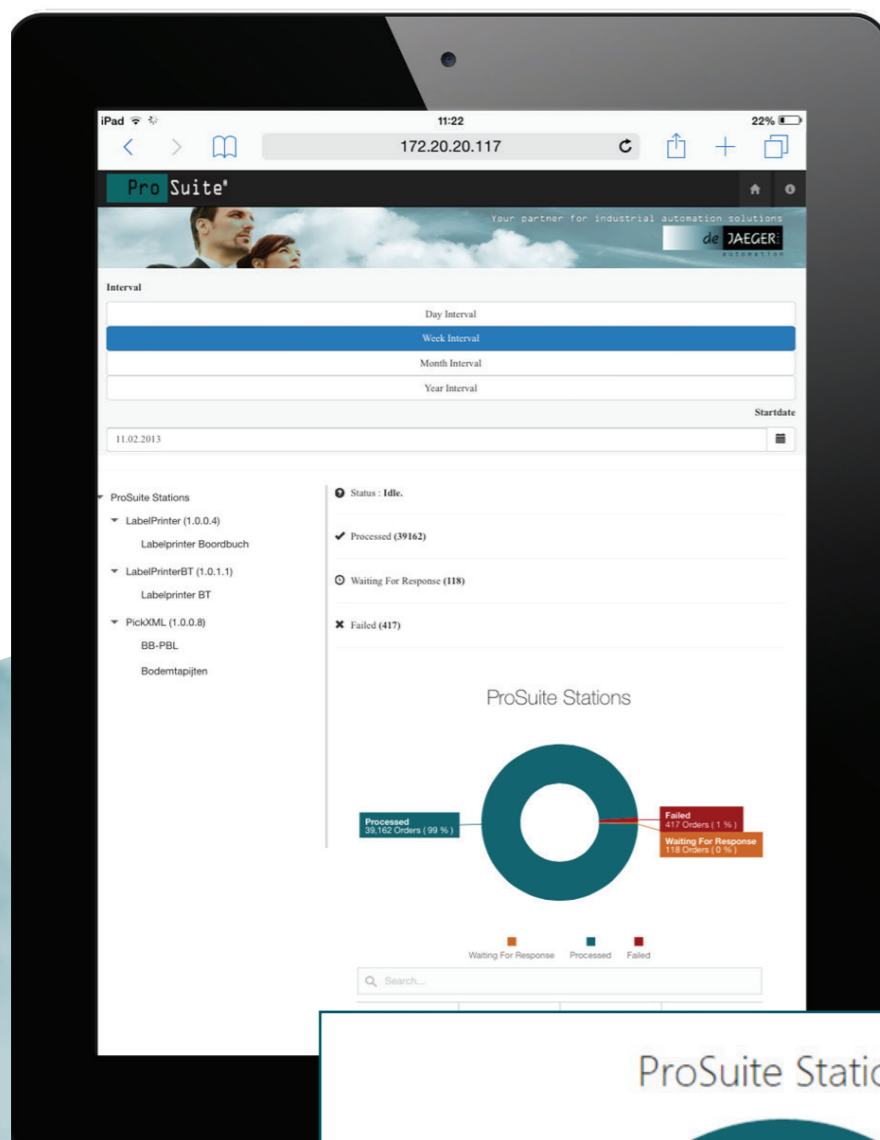
ProSuite® and the standard solution ProTight™ guarantee a polyvalent solution in terms of control and logging of data of all tightening tools.

ProSuite® is such a strong product thanks to two important aspects.
- First it has a simpler system that works with one central server, ProSuite® Manager™, which reassures that all the peripherals communicateperfectly with each other.
- The second advantage of ProSuite® is that our system is compatible with 90% of all the tightening tools on the market, so when you choose for our product, you don't have to, in most cases, invest in new tightening tools.

If more information is necessary than provided on the upper level, the missing information can be added. This missing information can be configured in our web application called ProVide.

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ProSuite Stations

Failed
36 Orders (10 %)

Processed
308 Orders (90 %)

Processed   Failed

ProTrac Station PTO	71 Orders (100 %)	0 Orders (0 %)	0 Orders (0 %)
ProTrac Station Trumpets...	0 Orders (NaN (Niet-een-...	0 Orders (NaN (Niet-een-...	0 Orders (NaN (Niet-een-...
ProTrac Station Tubes	66 Orders (100 %)	0 Orders (0 %)	0 Orders (0 %)

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www.ProSuite.eu

ProSuite Dashboard
Highlights

Benefits:
- Clear display of the results
- User-friendly
- Simple analysis of the assembly line or per workstation
- Detailed overview per station
- Filter options per period and station

Business challenges:
- We want to have the ability to see how good the assembly stations are working (% OK and % NOK)
- We want to visualize the assembly line
- We want to see in the blink of an eye how good are stations are working.
- Which station has the most NOK's and why? Assembly line optimization.

The solution:
- ProSuite Dashboard
  - ° Centralization of all assembly results
  - ° Visualization of stored data
  - ° Filter in assembly results
  - ° Easy to identify problem areas or problem work stations
  - ° Line optimization

YOUR PROSUITE® DEALER

ProSuite_Dashboard _ENG_V2.6

COLLECT AND VISUALISE YOUR ASSEMBLY RESULTS

ProSuite Dashboard centralizes all your assembly results in a neat manner in a database.
Via an internal website that visualizes these assembly results, it's very easy to parse the assembly lines.

You can do this for all the stations in the assembly line, per type of station or even for every station individually. You can choose which period of assembly results you want to see, so it's possible to see them per day, month or even year.

Next to the graph that shows you all the necessary data in a glance. There's also a detailed view which gives you all the results per station and the status of each result:
- Processed (OK)
- Failed (NOK)
- Waiting for Response

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ProTight™ DELIVERS CONTROLLED TIGHTENING

ProTight™ Single Station Highlights

Benefits:
- Compatibility with 90% of all the brands of tighteners
- cost-reducing
- Quality-improving
- Productivity-improving

Business challenges:
- One station that controls the tightenings, not connected to a network.
- Tightenings have to happen at the right torque
- All of the tightening have to be executed.
- Tools only disable when tightening of the right bolt happens and in the correct sequence.
- When an operator fails to perform all of the tightenings in the correct way, an internal alarm is raised.
- The system has to be able to work off-line when there occurs a problem.

The solution:
- ProTight™
- Immediately report of OK or NOK at the assembly station
- Maintenance friendly
- Real-time overview of the assembly line
- Real-time status of all tightening results

Problems with bolted connections are a regular problem. Often the problems are discovered during the assembly, but some only occur while using the product.
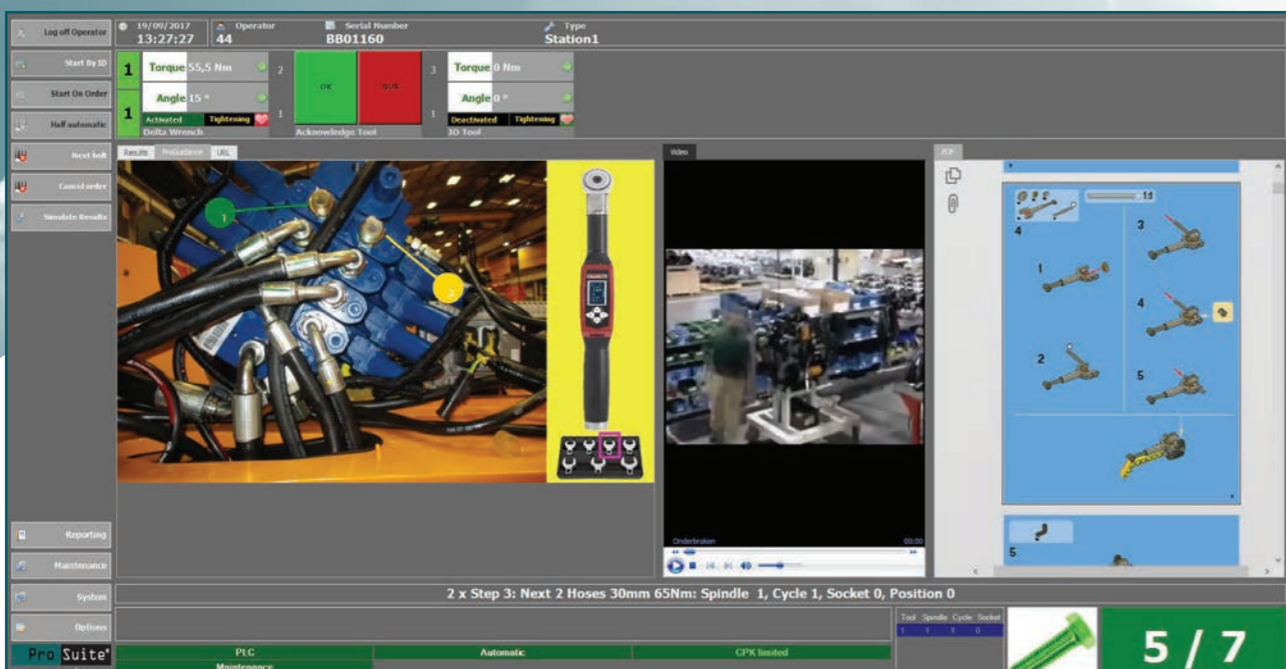These problems result in leakage and malfunction and this is owing to badly tightening. Due to low variance values, training of the operator is often essential to insure that he follows the right procedures.

Thanks to the product ProTight™ and the use of an electric/pneumatic tightening tool or even a manual yale key, the torque and the angle of the tightening process are logged.

All incoming results applied to a product section or unit, are logged.

All data from each tightening is stored locally and than send through the Ethernet network (LAN) to a central server at the production monitoring station. Here, the frequency and type of problems are analysed and a statistical quality control is performed.

If there's a network failure, for any reason, all results will be sent after the connection is restored. This allows you to continue at the assembly line, even when disconnected from the network.

YOUR PROSUITE® DEALER

ProSuite®
www.ProSuite.eu

PROTIGHT™ DELIVERS CONTROLLED TIGHTENING

ProTight™ Multi-Station Highlights

Benefits:
- Compatibility with 90% of all the brands of tighteners
- cost-reducing
- Quality-improving
- Productivity-improving

Business challenges:
- Different traceability stations in a row, where it's possible link them.
- Store the data you get from a set of parameters.
- Tightenings have to happen at the right torque.
- All of the tightening have to be executed.
- Tools only disable when tightening of the right bolt happens and in the correct sequence.
- When an operator fails to perform all of the tightenings in the correct way, an internal alarm is raised.
- The system has to be able to work off-line when there occurs a problem.

The solution:
- ProTight™
- Immediately report of Ok or NOK at the assembly station
- Maintenance friendly
- Real-time overview of the assembly line
- Real-time status of all tightening results

YOUR PROSUITE® DEALER

Several single stations can be linked together in order to store all local data on a central server. The server governs the status of all the stations and tracks every part by its serial number.

For every single station:
Regularly there are problems with bolted connections. Often the problems are discovered during the assembly, but some only occur while using the product.
These problems result in leakage and malfunction as a consequence of a bad tightening.
Due to low variance values, training of the operator is often essential to insure that he follows the right procedures.

Thanks to ProTight™ and the use of an electric or pneumatic tightening tool or even a manual yale key, the torque and the angle of the tightening process are logged.
All incoming results applied to a product section or unit, are logged.

All data from each tightening is stored locally and than send through the Ethernet network (LAN) to a central server at the production monitoring station. Here, the frequency and type of problems are analysed and a statistical quality control is performed.

If there's a network failure, for any reason, all results will be send after the connection is restored. This allows you to continue at the assembly line, even when disconnected from the network.

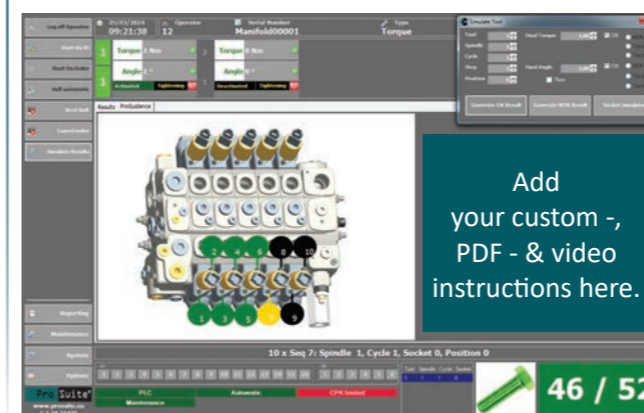# ProSuite®
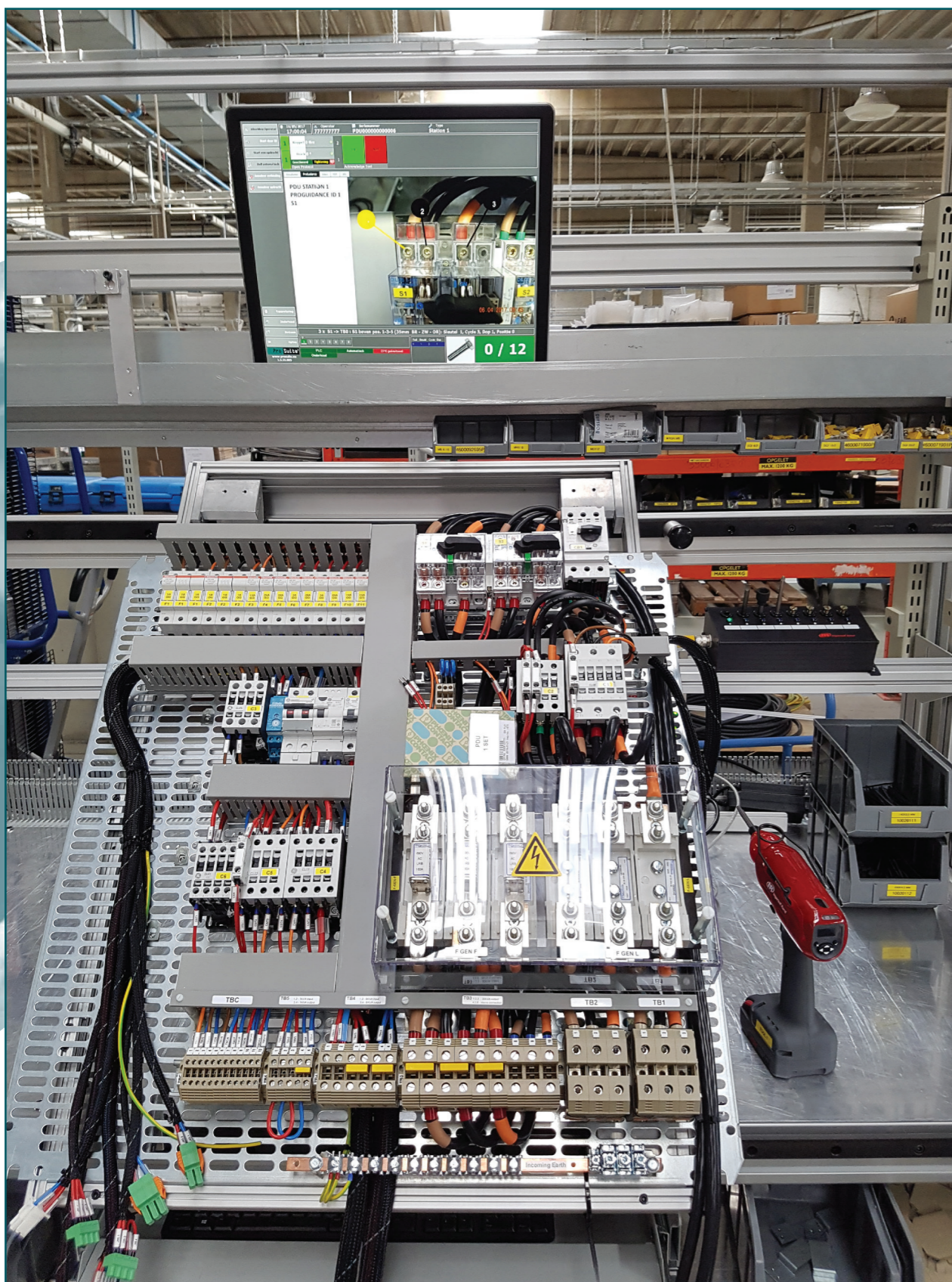
ProTight Highlights

Benefits:

- Quality-improving
- Predefined process
- Productivity-improving
- No custom development

Business challenges:

- Print a label at the end of the process
- Tightenings have to happen at the right torque
- All of the tightening have to be executed
- Tools only enable in accordance with the predefined sequence
- When an operator fails to perform all of the tightenings in the correct way, an internal alarm is raised
- The system has to be able to work off-line when there occurs a problem

The solution:

- ° ProTight ™ basic license
- ° ProGuidance: Visuals instructions
- ° ProConnect: connect to the outside world
- ° Advanced: specific features
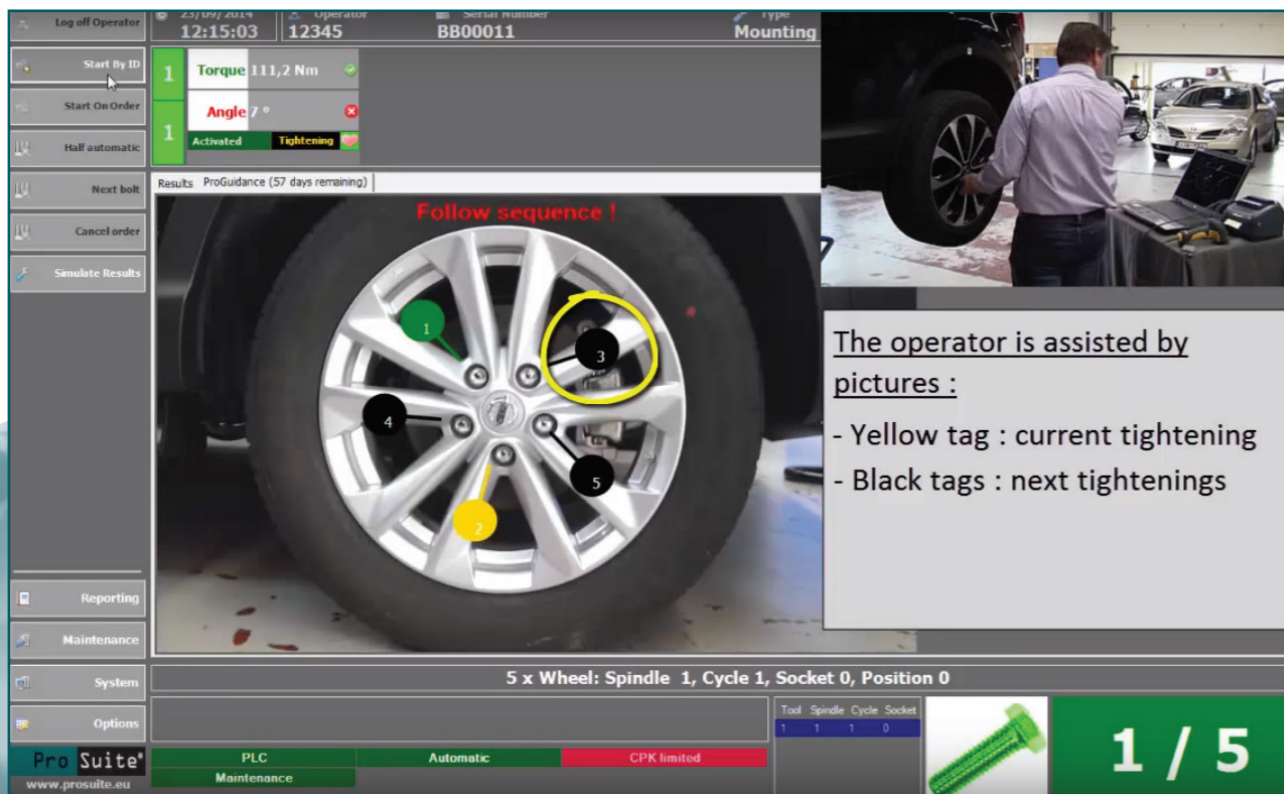- ° Maintenance: get updates for a yearly fee

Add your custom -, PDF - & video instructions here.

YOUR PROSUITE® DEALER

Features	Lic
Standard windows software (win7-8-10), 32/64-bit	✓
Operator and serial number identification	✓
Standalone or network setup with ProSuite	✓
90% of the DC tools protocols on the market are implemented	✓
Process control of tightening applications	✓
Standard barcodes and advanced barcode templates	✓
Badge reader for operator identification	✓
Save PDF document at the end of the process	✓
Save on network share with failover	✓
Print labels on good and no good result	✓
Customize the label content without the intervention of a programmer!	✓
Use any windows printer , labels, A4, Letter,...	✓
5 controller can be simultaneous connected	✓
Maintenance counter on each tool	✓
1D/2D/DPM scanners are supported	✓
User management for process engineers, operators and quality inspectors	✓
Additional scanning to gather subassembly SN#	✓
Use dynamic pictures as visual instructions	ProG
Realtime update of the visual instruction with dynamic color	ProG
Add custom text to the instructions	ProG
Reduce training plan for operators as they get training while using the solution	ProG
Multi screen	ProG
Use ADS, Modbus, S7, open protocol to control IO	ProC
Use IO from existing controller like AC, Desoutter, Stanley, Estic, ..	ProgC
Independent socketrail and position control 4 axis	ProgC
PDF instructions, video instructions, URL-Link	ProG + Advanced
Up to 4 independant ProGuidance	ProG + Advanced
Costum interface with ERP/MES	Advanced
Control 10 tools in 1 station	Advanced
Use multiplier and ProTight adapts the value	Advanced
Have a spindle selector	Advanced
Special tools where ProTight	Advanced
Send VIN to the controler	Advanced
Repair actions initiated by the operator	Advanced

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ProTight_Functionality_Overview_ENG_V2.3

The operator is assisted by pictures :

- Yellow tag : current tightening
- Black tags : next tightenings

ProGuidance™ Highlights

Benefits:

- Cost-saving due to less training
- Lower error rate
- Efficiency-improving especially with rare variants

Business challenges:

- The screen illustrates the different operations that have to be performed.
- The system is open and allow changes to be made in house with no specialist software.
- The software also works correctly when it's off-line due to network errors.
- When there is a change in the data in case of a removal it also changes in the guidance.

The solution:

- ProGuidance™
  - ° Real-time instructions
  - ° Step-by-step guidance
  - ° …

Nowadays, the assembly of a product is a lot harder than it was before, due to very specific customer and marketing demands.

More and more, the assembly of a product is becoming very hard due to the marketing and the differing demands of every specific customer.

More and more, an OEM and his suppliers have to support a bigger number of variants, variants that in some cases only occur once or twice a year. It's hard and expensive to train your staff for such variants.

That's why we developed ProGuidance, it'll support the operator with the right information during the process.

Visual instructions
To support more variants and complex ways of building these variants, visual aids in the form of pictures and/or movies are brought to the operator when needed. The operator sees the order of the tightenings that are requested and gets a dynamical visualization of the results, it's the perfect solution for not frequently manufactured variants.
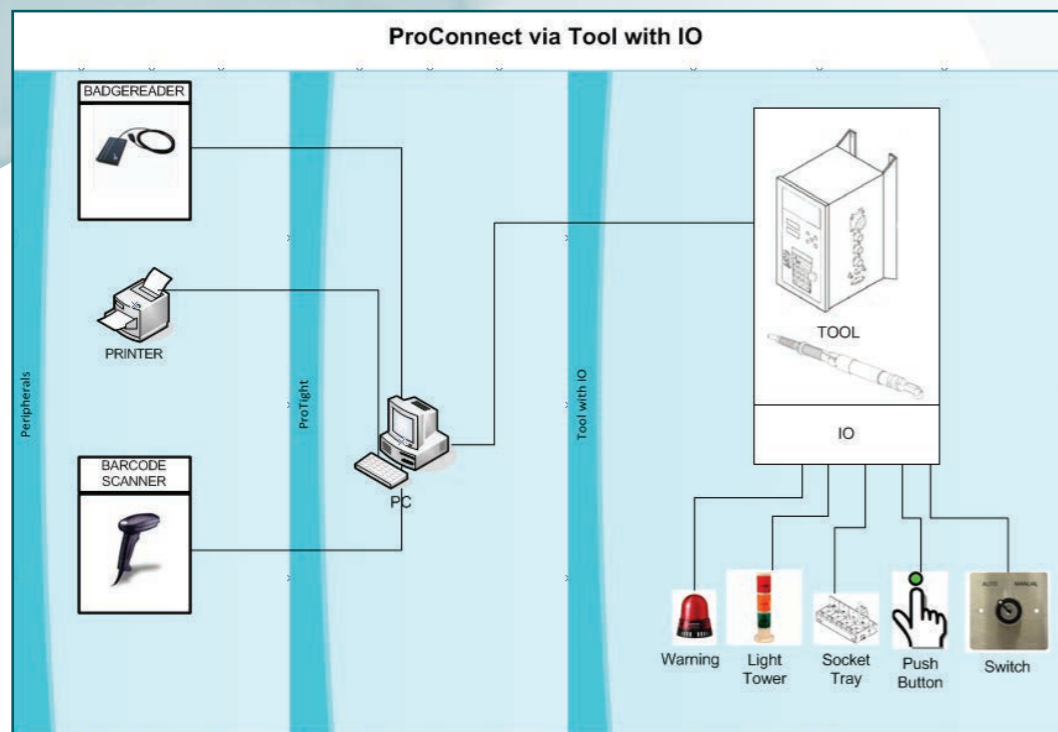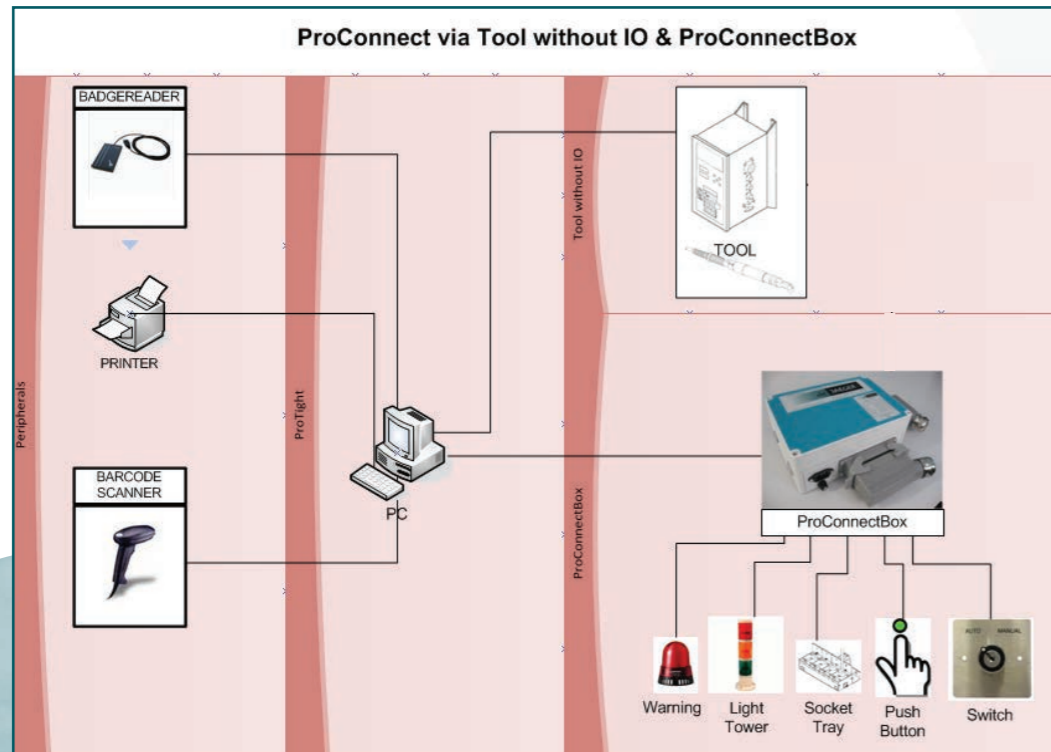
Sound & voice instructions
It's also possible to support the operator with sound & voice instructions in addition to the visual instructions.
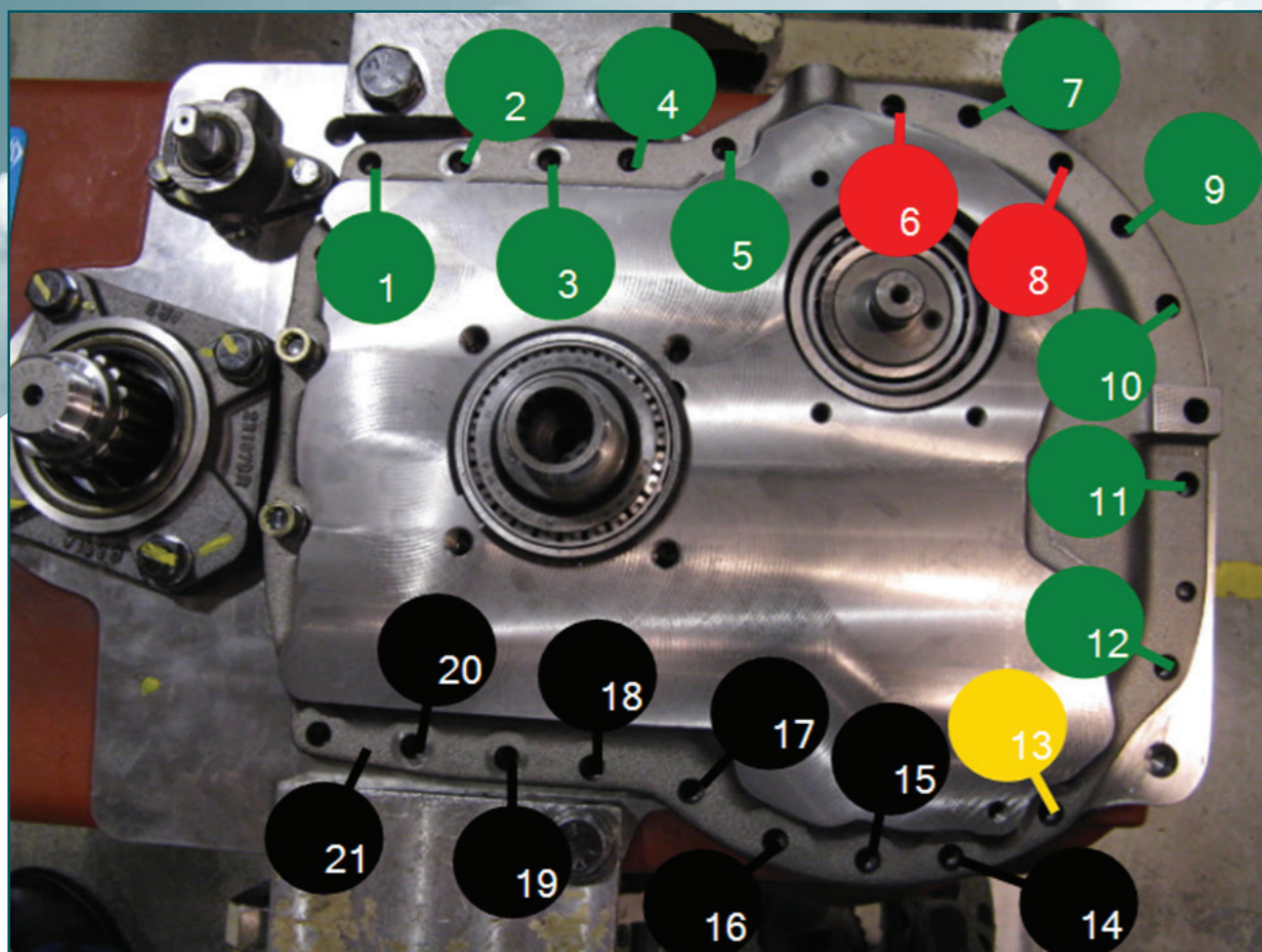
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ProConnect via Tool without IO & ProConnectBox

BADGEREADER

PRINTER

BARCODE SCANNER

Peripherals

ProTight

ProConnectBox

PC

Tool without IO

TOOL

ProConnectBox

Warning | Light Tower | Socket Tray | Push Button | Switch

FEN20 - 4DIP + 4DXP

FEN20-16DXP

ProConnect via Tool with IO

BADGEREADER

PRINTER

BARCODE SCANNER

Peripherals

ProTight

Tool with IO

PC

TOOL

IO

Warning | Light Tower | Socket Tray | Push Button | Switch

ProConnect™ Highlights

Benefits:
- Maintenance-friendly
- Cost-effective
- Cost-lowering

Business challenges:
- I already have a workstation and want to expand the capacity at that station.
- I want to expand the capacity at a minimum of costs.
- I want to keep using the current installation at the station.

The solution:
- ProConnect™
  - ° Compact dimensions
  - ° Quick installation
  - ° Expands the capacity
  - ° Compatible with your workstation
  - ° Standard 16 in- and 16 outputs
  - ° I/O protocol

YOUR PROSUITE® DEALER

EXPAND THE EQUIPMENT AT YOUR WORK STATION COST-EFFICIENT

ProConnect™ is a compact and affordable connection box which offers you the possibility to easily expand the capacity of your current ProSuite station.

ProConnect™ can be easily integrated and has 16 configurable in- and outputs. Is your system limited to one tightener or 1 picking lamp at this moment?
Using ProConnect™ we can easily expand your capacity and implement following controls:
- Alarm
- Lock
- Signalisation at OK or NOK
- Caps steering with LED
- Actuating tightening cycles via parameter sets
- Positioning of tools
- Custom variant

It's even possible to connect multiple ProConnect™ boxes with each other and there's the option to equip the boxes with 4 more analog inputs.

ProConnect™ is user-friendly and doesn't require specific training. Service and support are simple due to the accessibility of the ProConnect™ boxes.

ProSuite®

ProPick
Highlights

Benefits:
- Fast Return on investment
- Productivity-improving
- cost-reducing
- Optimized inventory control

Business challenges:
- Establish an optimal inventory-management
- Establish lower error rates
- Raise the picking-speed
- Real-time overview of your inventory

The solution:
- ProPick
   - ° Automatic update of the stock
   - ° Automatic presenting invoices
   - ° Scalable solution
   - ° Maintain-friendly

ProPick is used where high picking speed and low error rates are crucial. Easily visible lights located directly on the storage slot indicate where the next item has to be picked and a display shows the amount of items that the operator has to pick.

After retrieval, the operator acknowledges the process by pressing a button and the display will switch off.
All information is exchanged in real time with the material or warehouse management system.

With ProPick, your staff doesn't have to search the correct pick location. The solution is widely applicable and can be used for all types of picking control thanks to its universal design.

The user interface is adapted to the specific application. With a combination of PC-PLC it's possible to connect a variety of sensors and indicators within the basic concept.

YOUR PROSUITE® DEALER

ProPick_ENG_V2.6

ProRepair Highlights

Benefits:
- cost-reducing
- Material-saving
- Efficiency-improving

Business challenges:
- When an operator fails to perform all of the tightenings in the correct way, an internal alarm is raised.
- Ability to repair the failure in-the-assembly-line.
- A flexible and robust system, shop floor material.
- A screen indicates clearly to the operator what the problem is that has to be repaired.

The solution:
- ProRepair
  - ° Repair station
  - ° Integrated in the assembly line
  - ° Immediate reparation
  - ° Real-time data

MANAGE ALL REPARATIONS FAST AND EFFICIENT DURING THE ASSEMBLY PROCESS

During the assembly process it happens regularly that one or certain operations are not finished in the required time or got an NOK from our system.

To solve these NOKs we developed ProRepair. Depending on the placing of the production line and the work station, we can provide one repair station at the end of the assembly line or multiple repair stations spread over the total assembly line.

The repair station can be linked to one or multiple work stations, this depends on the placement of the assembly line, and it will receive real-time information about the linked work stations about OKs and NOKs.

When there's a NOK, the respective part will be sent to the repair station and will only be released again in the assembly process after confirming that everything is okay.
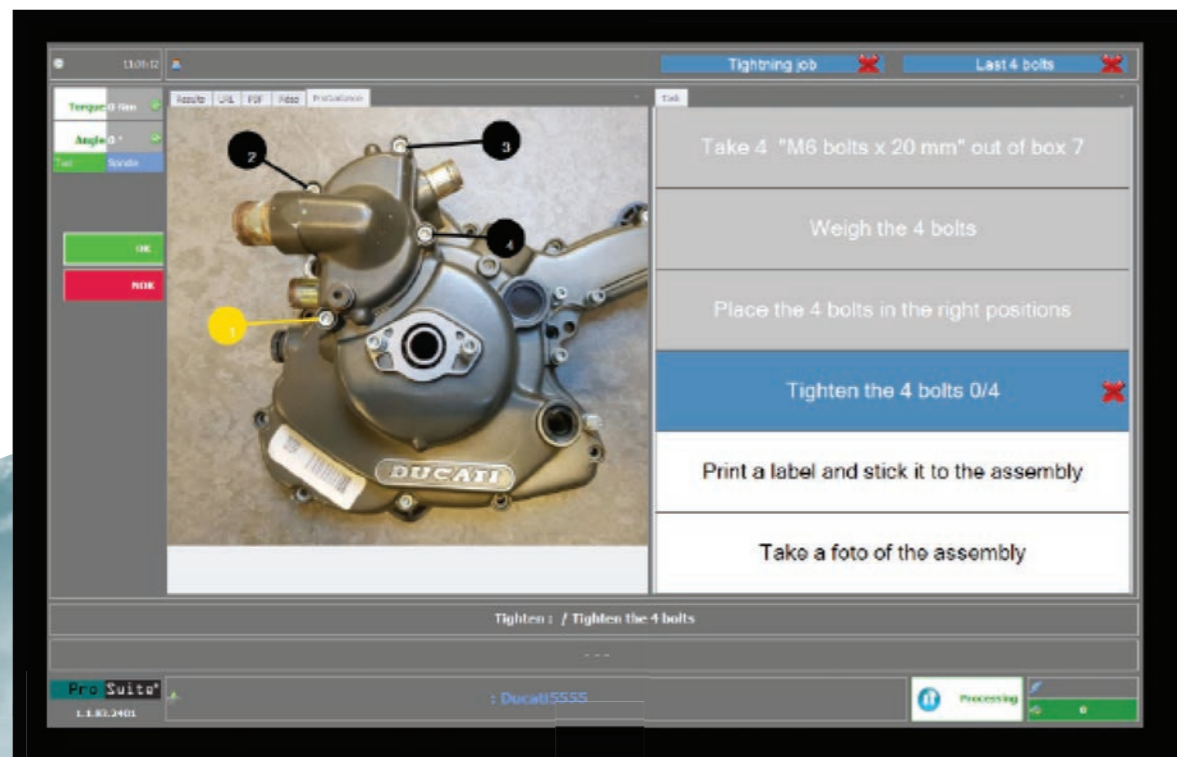
ProTrac
Highlights

Benefits:
- 1 product for all assembly tasks
- Higher efficiency
- Cost-saving
- Fault reduction

Business challenges:
- One station that controls, checks, logs all assembly steps locally or on a network.
- Tightening's have to happen at the right torque.
- All of the tightening's have to be executed.
- Tools only enable when te specific task is active.
- When an operator fails to perform all of the tightening's in the correct way, an internal alarm is raised.
- The system has to be able to work off-line when a network problem occurs.
- The possibility to combine the tightening solution with a picking solution. Picking caps at a station for example.

The solution:
- ProTrac
  - ° Guides the operator during the assembly process
  - ° Compatible with your already placed tightening tools
  - ° Structured announcement if a fault is made during the process.
  - ° Clear overview of the made errors
  - ° Results can be analysed easily
  - ° Compatible with a lot of verification methods

YOUR PROSUITE® DEALER

Traceability is a very important part of the production workflow especially in the assembly industry. At first it is very important to inform the operator which tasks he has to execute and in what order. It is equally important to have the right feedback for every task.

Thanks to the ProTrac™ solution assemblies containing variable tasks with different equipment are no longer a problem. All steps in the process work-flow are registered, checked and logged. All data from each step (scanning, acknowledging, tightening, …) is stored locally and can be send over the Ethernet network (LAN) to a central server at the production monitoring station. Here, the frequency and type of problems are analysed and a statistical quality control can be performed.

Due to ProTrac™ solution the assembly errors can be reduced to 0%.

If there's a network failure, for any reason, all results will be sent after the connection is restored. This allows you to continue at the assembly line, even when disconnected from the network.

Features of ProTrac™ are:
- Interactive display to monitor all the steps
- Tightening verification
- Scanning
- Acknowledging button
- Printing labels of reports
- PLC tasks
- Measuring
- Weighing
- Taking photo's

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DURABLE PRODUCTION WITH THE PROCAM™ SOLUTION

ProCam™
Highlights

Benefits:
- Fast retrieval of pictures
- Cost-lowering

Business challenges:
- We want a system that automatically takes pictures of the assembly process.
- We want that the pictures of a certain part are all collected together and linked to the serial number of that part.
- We want to have evidence that we surpassed certain procedures in case of a problem with an assembled part.

The solution:
- ProCam™
  - ° Integrated solution
  - ° Affordable
  - ° Maintenance-friendly
  - ° Choice between low/high resolution
  - ° Easy to extend
  - ° Full history of the product cycle

ProCam™ is applicable with our tightening solution. ProTight™ and our general assembly solution ProTrac™.

The idea of taking a picture of a product during the production process seems to be very easy, however in reality it is almost impossible to manage this because of the manual handling of the operator…
To automate this process and integrate it within the production process we have developed our ProCam™ - option.

With this solution we can take different pictures as the products get assembled, because all the information is directly linked to the VIN/production number/… we are able to link this into one report and guarantee traceability of all steps in the production cycle.

When a complaint is issued, there will be no endless search for the right picture because now you are able to enter the identification number and ProCam™ gives you all the related pictures.
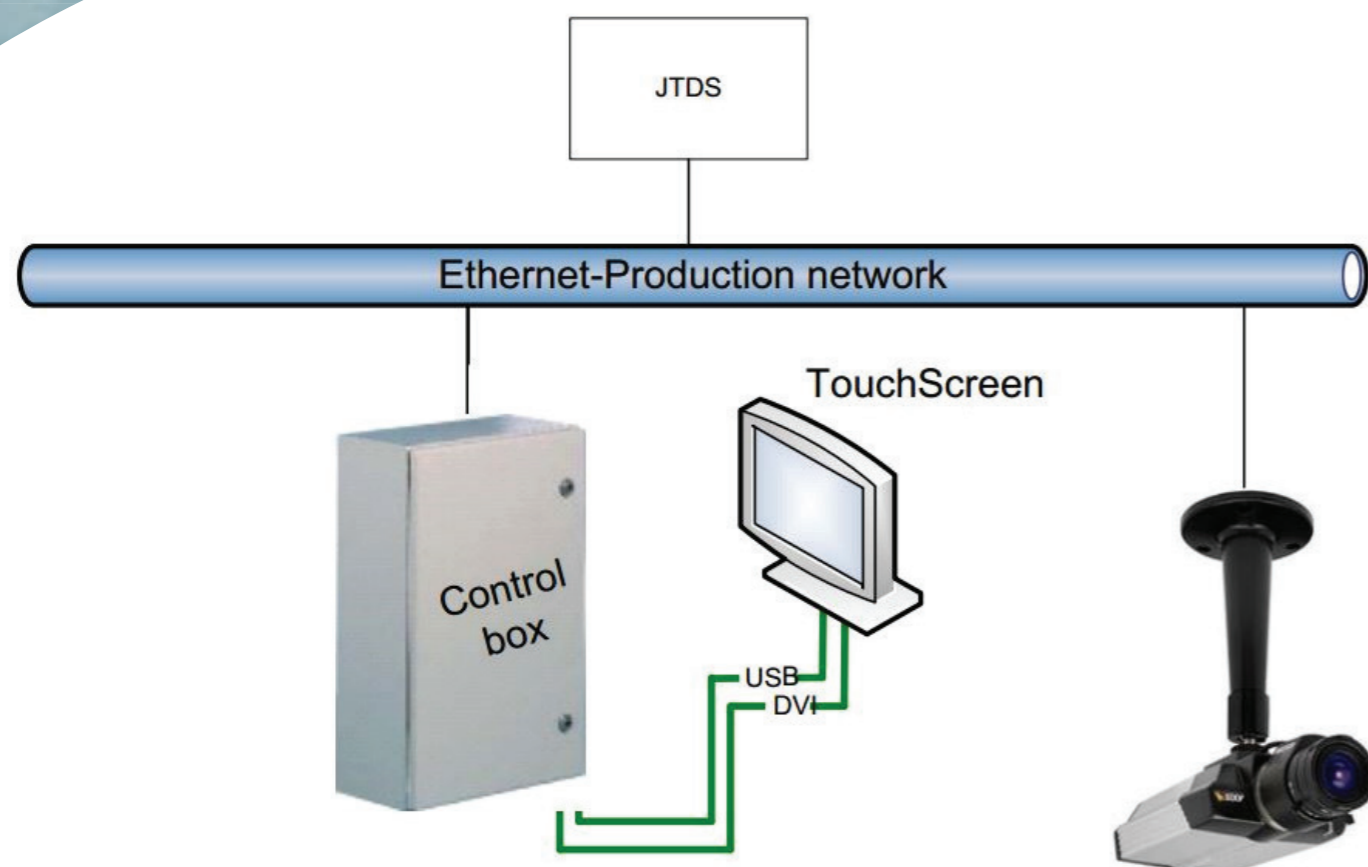
YOUR PROSUITE® DEALER

ProCam_ENG_V2.6

**ProAcknowledge™
Highlights**

Benefits:
- Better overview during the assembly process
- Opportunity to take action when an error occurs in the assembly process
- Easy to install
- User-friendly
- Immediately applicable in each assembly process

Business challenges:
- Paperless informing operators of assembly actions that are not happening directly on the assembly line.
- Synchronize the assembly line with assembly actions around the assembly line.
- Simple system that works fast and efficient.

The solution:
- ProAcknowledge™
  - Scalable solution
  - Easy to maintain
  - User-friendly
  - USB-connection

ProAcknowledge™ is an optional verification tool that's compatible with your stand-alone ProTight station. This tool is very useful and easy to install.
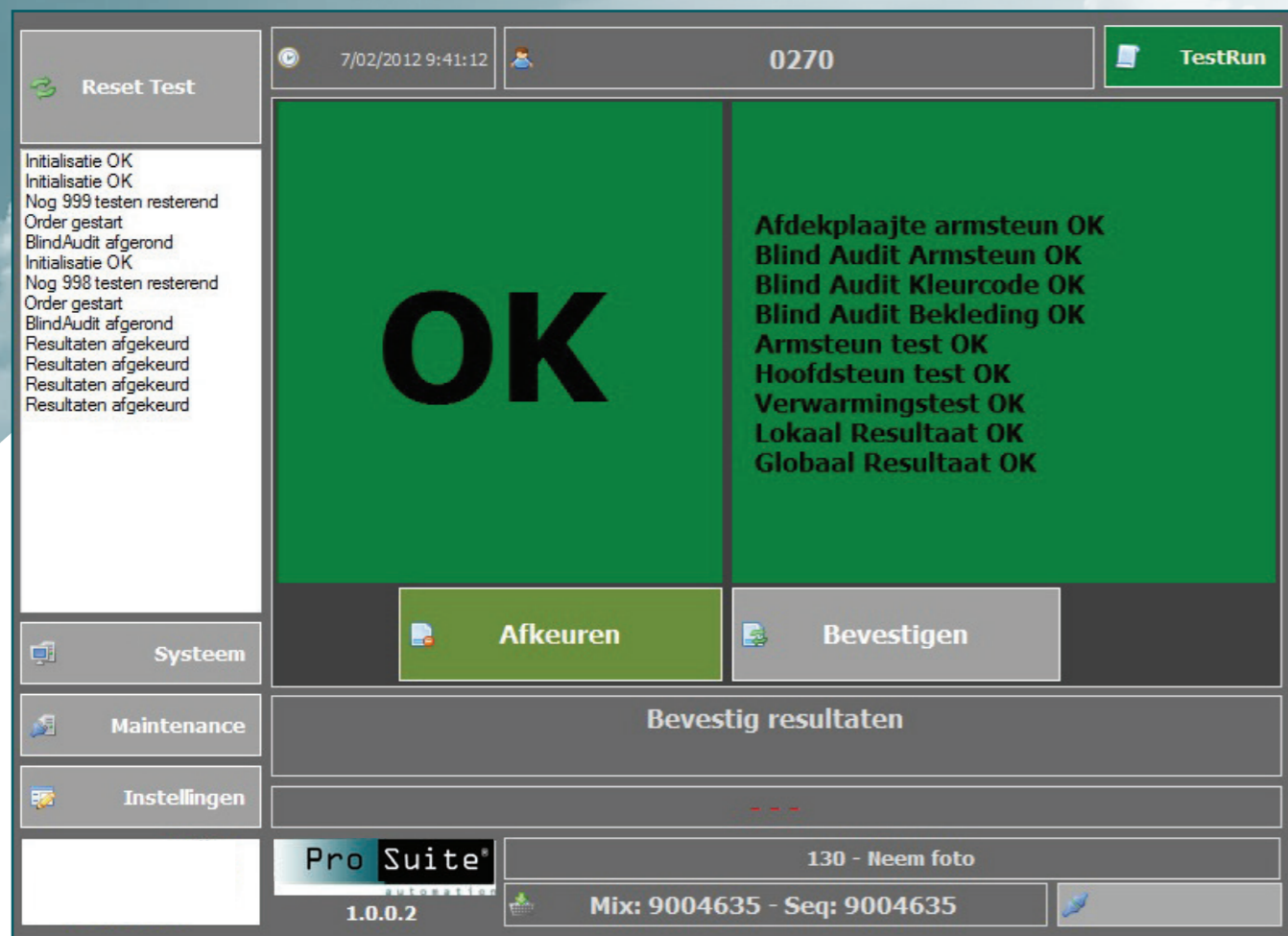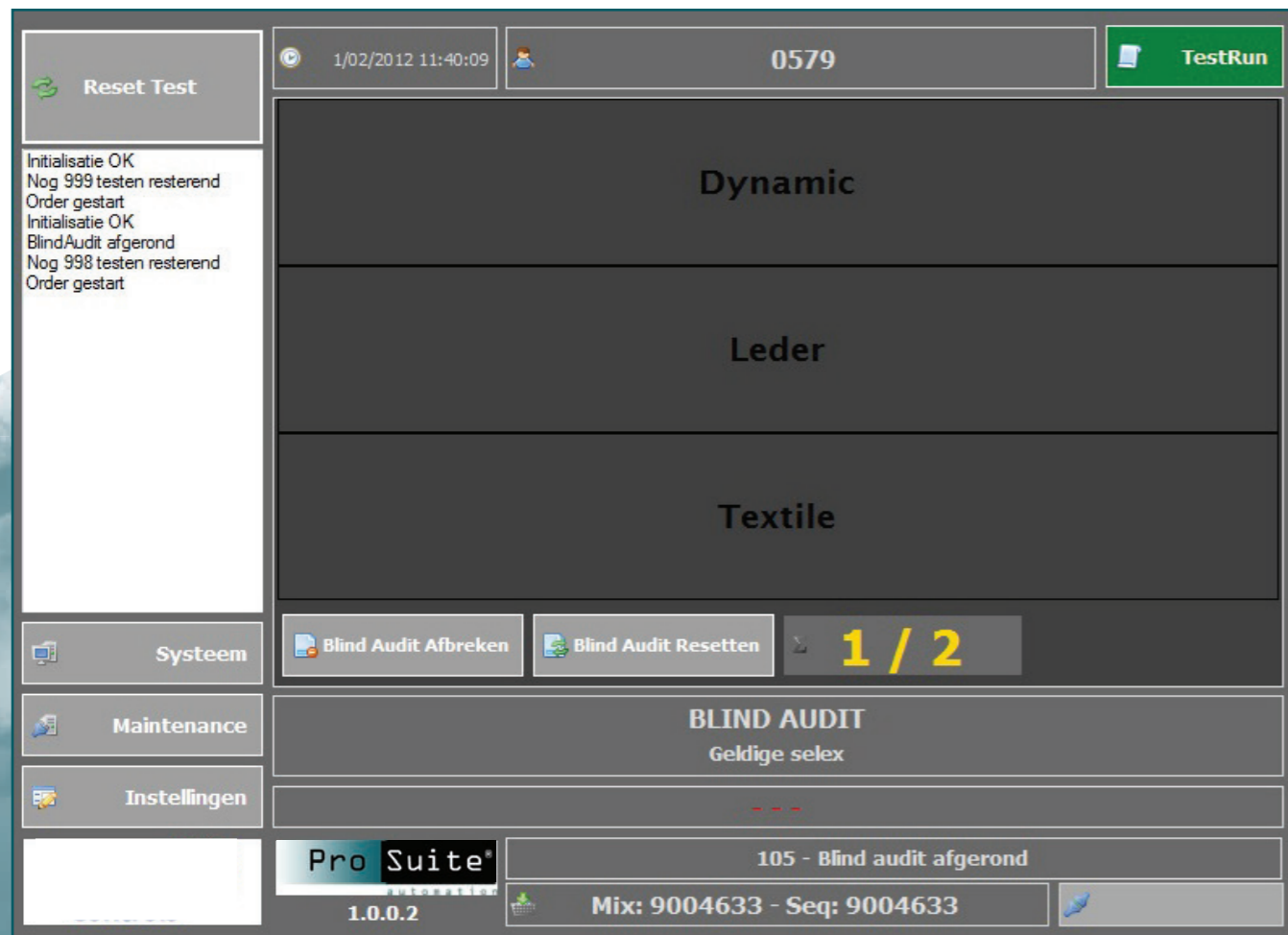
ProAcknowledge is mainly used at Poka Yoke, Pick-by-Light and Put-To-Light applications of complex assembly processes. ProAcknowledge is a big help to prevent assembly errors.
Before the operator can continue with the assembly process, he has to approve the action that he's made by pressing the Acknowledge button. This way, the operator has a better overview over the whole process and reduces the error rate in the assembly process.

It is possible to connect ProAcknowledge with the ProSuite Manager software via USB. You can use the tool immediately at every complex assembly process, using a simple USB connection.

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ProAcknowledge_ENG_V2.6

Left screenshot (top)

Reset Test

1/02/2012 11:40:09   0579   TestRun

Initialisatie OK
Nog 999 testen resterend
Order gestart
Initialisatie OK
BlindAudit afgerond
Nog 998 testen resterend
Order gestart

Dynamic

Leder

Textile

Systeem

Maintenance

Instellingen

Blind Audit Afbreken   Blind Audit Resetten   1 / 2

BLIND AUDIT
Geldige selex

- - -

ProSuite
1.0.0.2   105 - Blind audit afgerond
Mix: 9004633 - Seq: 9004633

Left screenshot (bottom)

Reset Test

7/02/2012 9:41:12   0270   TestRun

Initialisatie OK
Initialisatie OK
Nog 999 testen resterend
Order gestart
BlindAudit afgerond
Initialisatie OK
Nog 998 testen resterend
Order gestart
BlindAudit afgerond
Resultaten afgekeurd
Resultaten afgekeurd
Resultaten afgekeurd
Resultaten afgekeurd

OK

Afdekplaajte armsteun OK
Blind Audit Armsteun OK
Blind Audit Kleurcode OK
Blind Audit Bekleding OK
Armsteun test OK
Hoofdsteun test OK
Verwarmingstest OK
Lokaal Resultaat OK
Globaal Resultaat OK

Systeem

Maintenance

Instellingen

Afkeuren   Bevestigen

Bevestig resultaten

- - -

ProSuite
1.0.0.2   130 - Neem foto
Mix: 9004635 - Seq: 9004635

Blind Audit Highlights

Benefits:
- Less recalls
- Fast ROI
- Improving efficiency

Business challenges:
- Quality inspection of the assembled products.
- Ability to check 100% of the assembled products with sampling

The solution:
- Blind Audit
  - Compatible with ProSuite®
  - Searching for positive confirmations
  - Easy to install
  - Low investment cost

Right column

ProPick gives you the option to periodically organize blind audits.

This option forces the operator to tell us information about the products and his location. When an operator has made, for example, a batch of 20 kitting-boxes, we can ask him to identify all the products that are inside box nr. 15.

We realize this with the aid of scanning or selecting the products on a touchscreen.
If the reported items are not a part of the order, we can issue an alarm or order the operator to start over again.

The frequency of the blind audit operation can be configured to serve your needs.

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Blind Audit_ENG_V2.7

ProCollect Highlights

Benefits:

- Cost-lowering
- User-friendly
- Efficiency-improving
- Fast problem detection

Business challenges:

- Centralize all fastening results of all different ProTight-station.
- We want to have a central server where all data are stored together.
- We want the ability to consult all tightening results of one serial number in one report.

The solution:

- ProCollect
  - Compatible with ProTight
  - Automatically centralising of all assembly data
  - Economical alternative for data collection
  - Consolidated view of the assembly flow
  - Internal web application
  - Create device back-ups

The essence of ProCollect is, as the name already says, to collect the data of all the ProSuite stations. This data is stored in a (local or centralized) SQL-database. With ProCollect it is much easier to analyse and modify the received data.
It's also possible to search in the collected data with a searching tool equiped with certain criteria.

Via an internal website, ProCollect visualises all the assembly results, which gives you a clear overview of the total flow of the assembly process, inclusive status (OK or NOK), work station, timestamp, …

ProCollect makes locating problems and identifying their causes a lot easier because you can check if every operation is done properly (OK) and when they did it (timestamp).
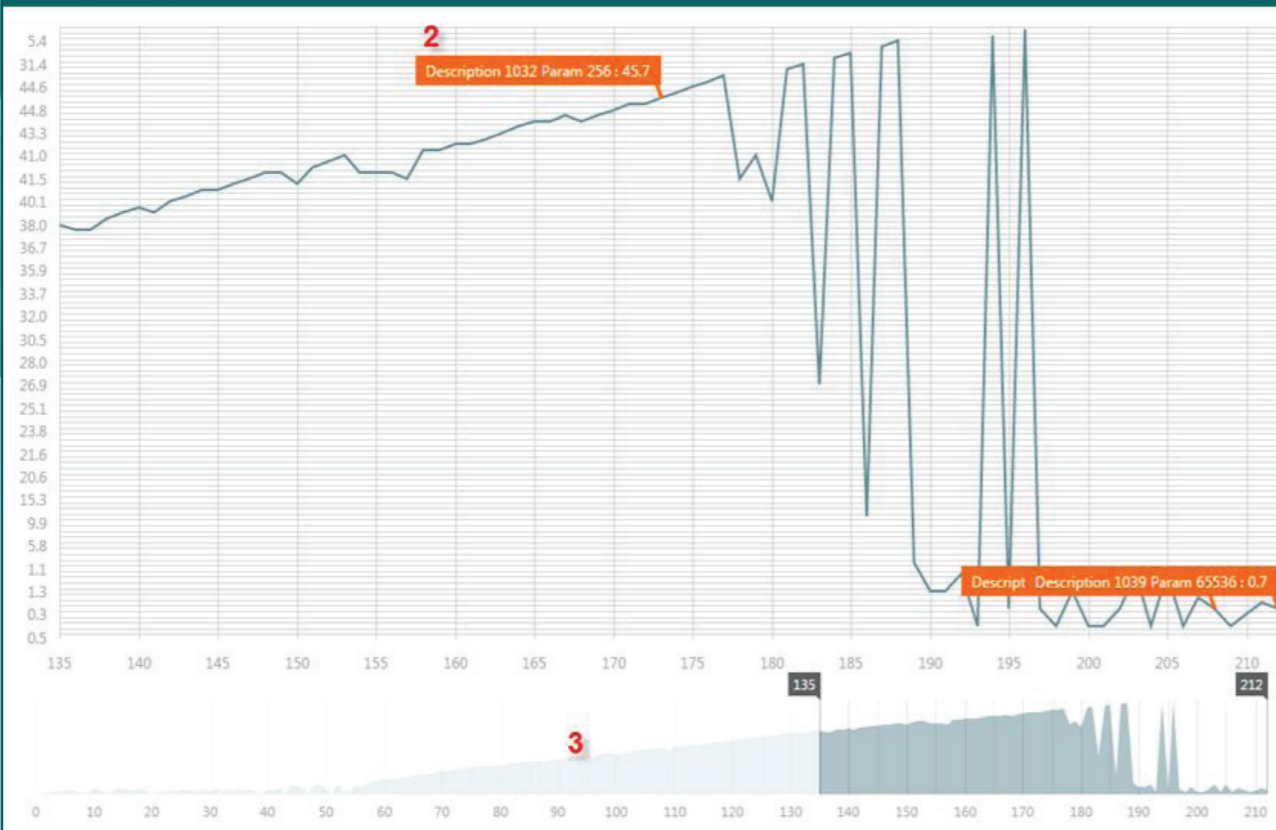
YOUR PROSUITE® DEALER

ProCollect_ENG_V2.6

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33

Detail Result

Detail Result

PAPERLESS SHOP FLOOR CONTROL & TOOL PERFORMANCE SOLUTION
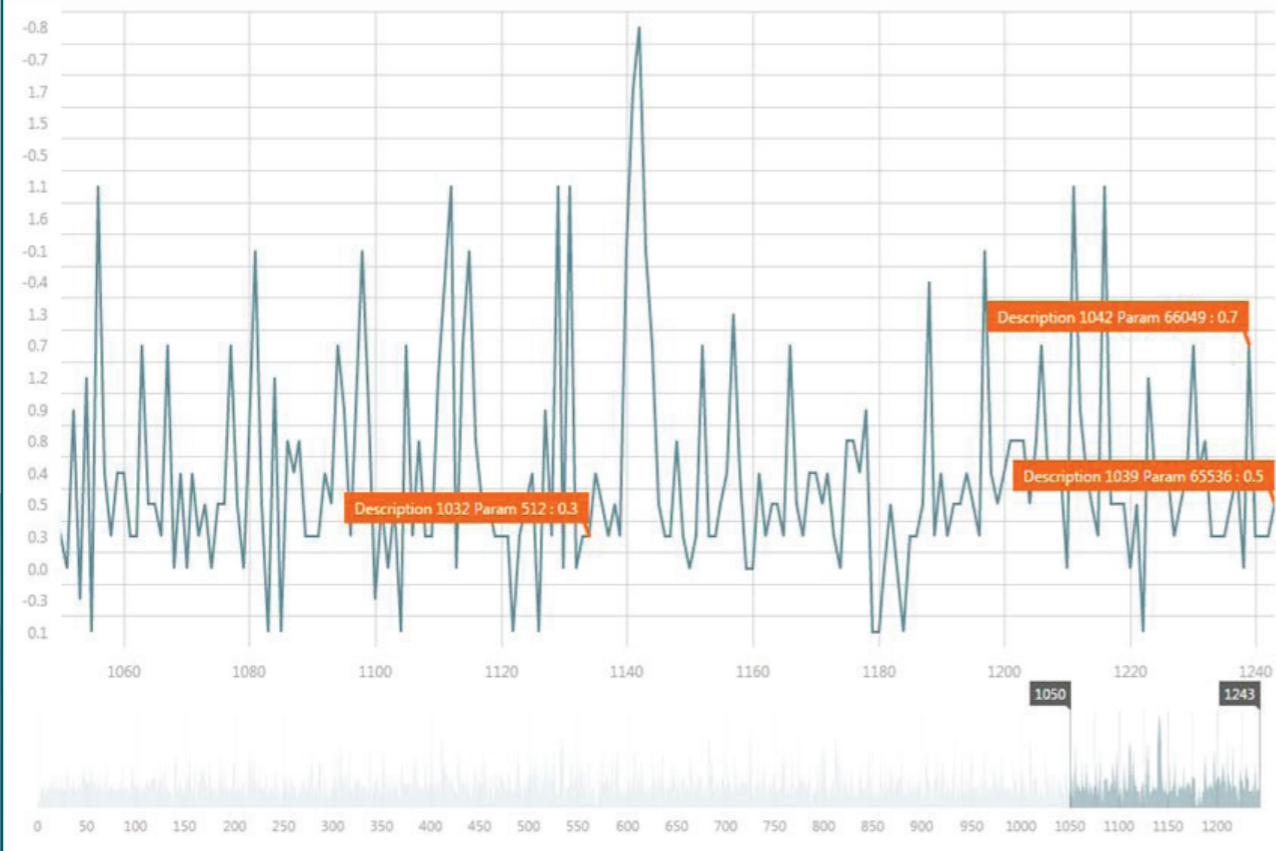
ProNet Highlights

Benefits:
- Cost-lowering
- User-friendly
- Efficiency-improving

Business challenges:
- We want to collect all fastening data from the used controllers.
- We want a universal data collection solution.
- We want to see graphs how the tightenings are established.

The solution:
- ProNet
  - Collect graphs and results
  - Automatic backups of all controllers
  - Store in SQL-server
  - Restore configurations
  - Export data in .csv or .xls and processed in SPC-package
  - Graph designer
  - Web interface

The product ProNet stands for universal data collection software and this for multiple brands of DC and hydraulic toolings.

Beside the universal data-collection-software, ProNet also has configuration management and export capabilities, which makes it easy to analyse all your data.

- Retrieve tool results
- Parse graph data
- Create device back-ups
- Restore back-ups

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ProNet_ENG_V2.7

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EFFICIENT CALIBRATION AND CERTIFICATION OF YOUR DROP SHUTTERS

ProControl Highlights

Benefits:
- Lower costs
- Improve efficiency
- Reduce recalls

Business challenges:
- We want to manage our fastening tools.
- We want to verify our fastening tools once a year, and without verification-label they are disabled.
- We want to optimize the performance of our tools

The solution:
- ProControl
  - Compatible with ProTight
  - Calibration software
  - Certification software
  - User-friendly interface
  - Verification linked to serial number of fastening tool
  - Verification process can be customized (from ISO-standard to custom solution)

Drop shutters can, after a certain period, start to work less precisely. This brings a lot of risks with it because we have low variants in the assembly process.

We developed ProControl to check your tighteners regularly if they work precisely enough or if they have to be calibrated.

ProControl is a system that measure the torque that your drop shutter creates and compares it with the requested torque.

After the test you'll receive a report with "Conforme" or "non Conforme". When you have a "Non Conforme" you'll have to calibrate you drop shutter again to reassure that you're drop shutter works precisely.

You can test the drop shutters at fixed moments and easily keep up with the dates due to the integrated online certification-calendar.

With ProControl it's possible to:
- Surpass a standard certification procedure
- Manage certifications
- Print certification labels
- Print certification reports

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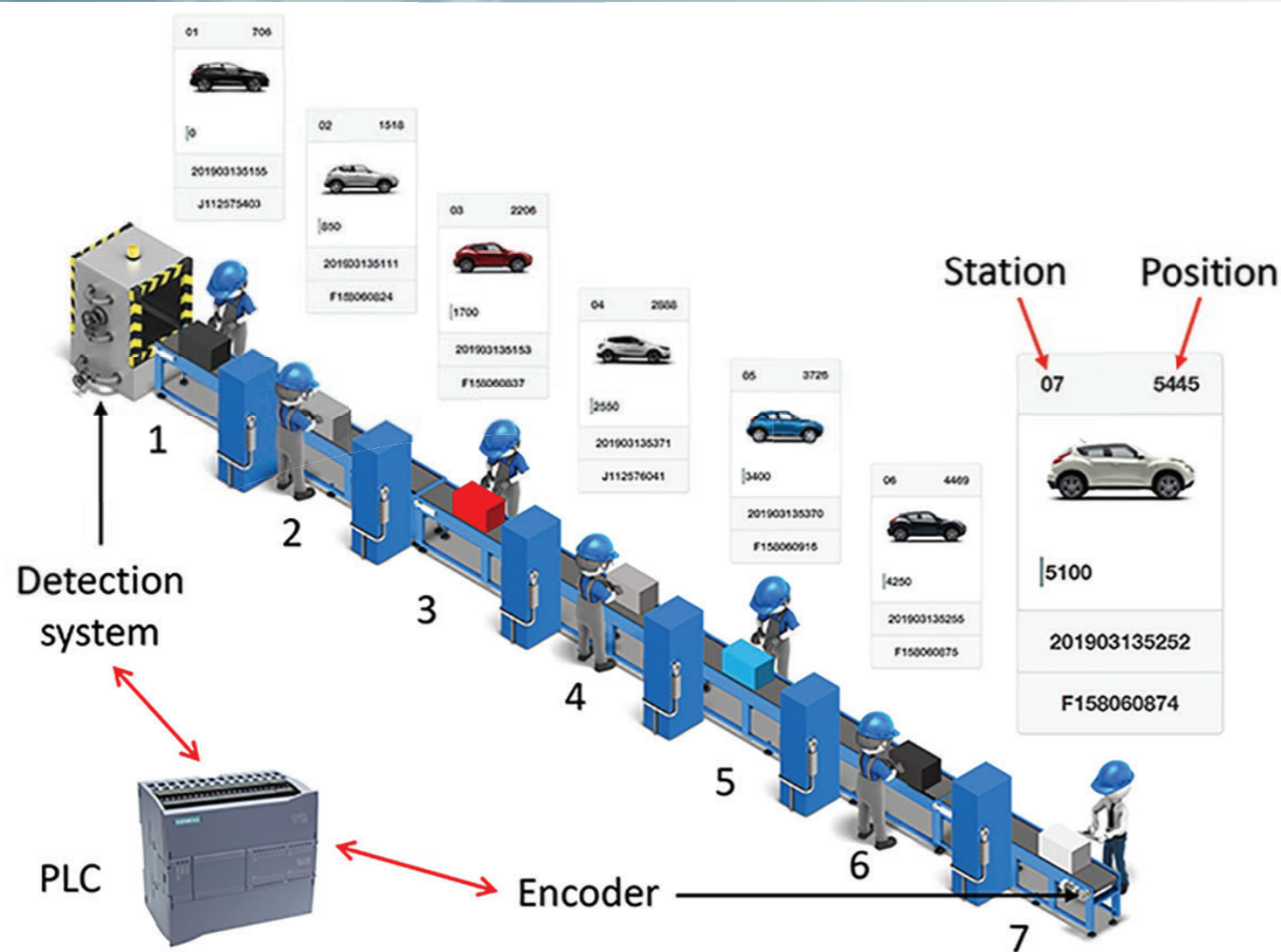THEY ALSO USE PROSUITE,   THEIR ASSEMBLY SOLUTION

NISSAN Juke Line | Main Maintenance ▾

01 02 03 04 05 06 07 08 09 10

Trigger Location: 0 cm

Line length: 8500 cm
Actual line speed: 0 m/min

01	706	02	1518	03	2206	04	2888	05	3726	06	4469	07	5445
	0		850		1700		2550		3400		4250		5100
201903135155		201903135111		201903135153		201903135371		201903135370		201903135255		201903135252	
J112575403		F158060824		F158060837		J112576041		F158060916		F158060875		F158060874	

Detection system

1
2
3
4
5
6
7

PLC → **Encoder**

Station   Position

07   5445

5100

201903135252

F158060874

ProShift_ENG_V1.0

ProSuite®
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**ProShift
Highlights**

Benefits:
- Better overview during the assembly process
- Productivity improving
- Low cost to implement
- Profitability
- Reduces risk on wrong serial number identification

Business challenges:
- The ability to determine the position of any assembly on the conveyor system, at any time.
- Real time visualization of the assembly line
- No manual scanning on each station
- Efficient working with non-movable and movable operator stations
- Real time traceability of good assemblies and not good assemblies
- Flexibility and different solutions to deal with not good assemblies
- Line stop in case of a missing result
- Reducing takt time to increase push flow without increasing working pressure on the operators

The solution:
- Full production control with ProShift
- Configurable line stop system
- Real time status of each production stop

YOUR PROSUITE® DEALER

ProShift can be implemented on almost any assembly line. Some examples: chain conveyor, slat conveyor and free flow conveyor. It only needs 2 things: an encoder and a system that detects a new assembly on the conveyor system. The detection of a new assembly is the input signal for ProIntake. ProIntake links the correct information to the assembly and ProShift determines its position. ProShift knows the position of all the assemblies at any time.

The instruction screens of the ProTight stations will automatically update their instructions when a new assembly enters their station. It knows which assembly enters its range and loads the ProSuite generated job. Thereby, the operator doesn't need to scan the assembly. This works with non-movable and movable ProTight stations. But the moveable station will need a distance sensor to also determine its position.

Dealing with faults and no response instructions: If an instruction isn't completed nor executed correctly, there is the ability to stop the assembly line, to make sure that the instruction is completed successfully before continuing the assembly. The line stop system uses a warning light that starts indicating when the time limit approaches.

Another solution for dealing with operator faults are repair stations. The conveyor isn't stopped when a not good (NG) occurs. The NG assembly is traced until it reaches a repair station. The instructions of the repair station are also automatically updated.

Both solutions can be used on the same conveyor system.

In Operation

Bad Bolt

Good Bolt

Good Job

Good Product

Bad Product

DEMO CASE

The ProTight-demo case HIGHLIGHTS

Why do we offer you the ProTight Democase?
Because we want to give you the possibility to make an easy presentation to demonstrate the power of ProTight

Why do you need this demo case?
- Compact solution
- Easy to transport
- Affordable price
- Requires only a onetime installation
- Protect the material

What are the benefits for you?
- Very easy to show the ProTight software
- The ProTight demo case requires no license
- Less IT minded sales can demo ProTight .
- Show your expertise to the audience
    - ProTight
    - 1D/2D barcode
    - Custom labels
- With or without controller make a full demo

1. Stacklight with IO-Module
2. 1D/2D Order Sheet
3. Custom foam cut out
4. USB Stick with drivers
5. Label printer
6. 2D-Scanner
7. STORM case
8. USB hub
9. Cable Storage

With the ProTight demo case, you will be able to demonstrate the efficiency of this tightening solution In the best conditions.

To Demonstrate ProTight ,you simply need to connect your torque wrenches and the different items from ProTight case to your laptop using USB. You can also demonstrate ProTight without torque wrenches by using the simulation module.

To protect the material, the demo case is fit with a custom made foam. This foam makes sure that you can take the case with you wherever you go, without fear of damaging the modules.

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Software Assurance Highlights

Product updates:

- New protocols (ProTight and ProTrac)
- New or updated plugin's on ProSuite level
- Performance improvements and bug fixes
- Improvements from lessons learned from incidents in the daily use
- New features introduced by us or requested by various customers
- Evolution of supported OS, Win10-64 bit, SQL server 2016,…
- Evolve with the current state of technology

Release management:

- Updates are released 2 times per year
- Participate in Beta release program
- Get access to the ProSuite Cloud storage
- Read.me that explains the changes

Benefits:

- New functionalities
- Improvements based on user input.
- Compatibility with databases.
- Spread payments

Business challenges:

- Hardware evolution
- Software and operating system evolution
- New threats
- Lengthening the lifecycle of your investment
- Evolution of needs

The yearly Software Assurance fee provides you the right to install all latest versions of the purchased software. In this way you protect and get the most out of the ProSuite investment to evolve with the current state of technology and the ever changing IT landscape. Changes of OS and versions of database are covered by this service. Another important advantage is that you'll get access to new added features based on the experience within our customer base and solutions that we created to provide an answer.

Software Assurance is much more than a purchase- and update-program, Software Assurance helps you by getting the most out of your software at the lowest possible TCO and thus maximizing the investment. There are the 2 official software releases per year, but early adopters can also join our Beta-program, to be the first to get access to the new developed features and other goodies.

A dedicated contact within your organization will get access to our Cloud based storage to retrieve the installers, drivers, Beta-release and examples.
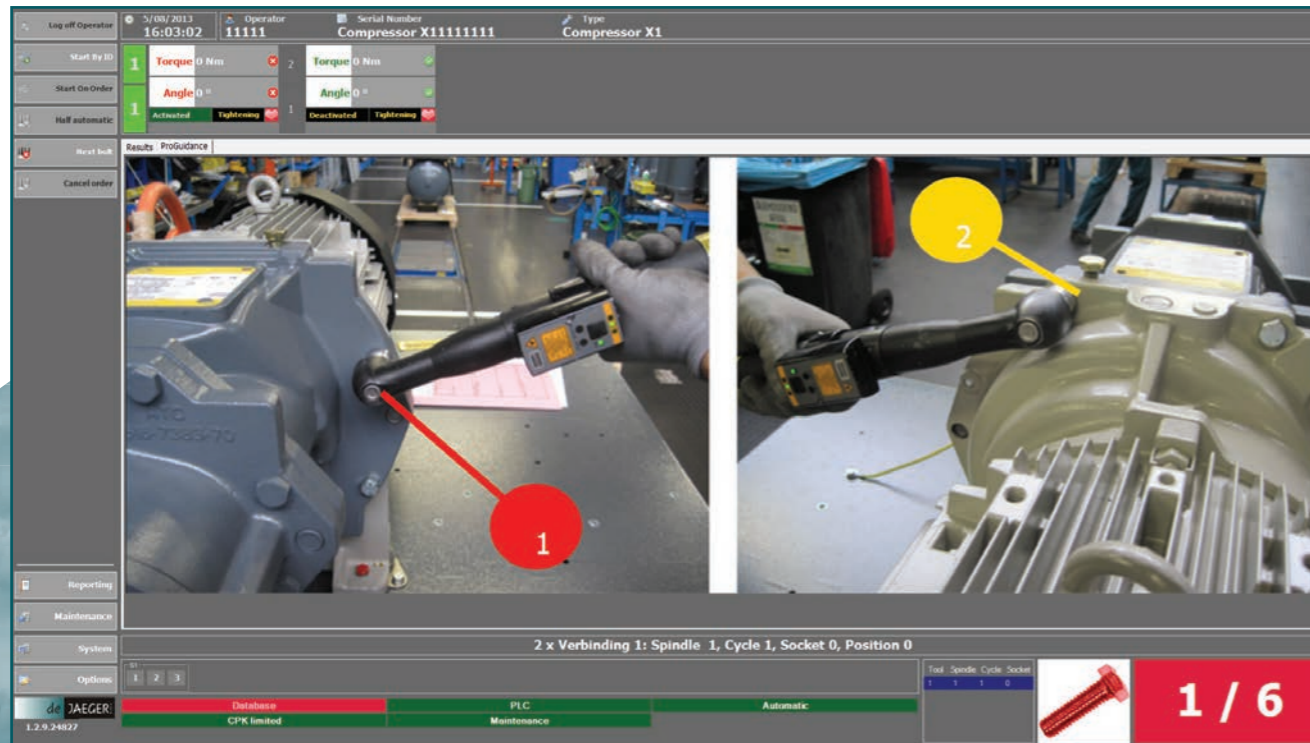
On top of the Software assurance program it is possible to purchase a SLA to increase your uptime and lower your TCO. With this SLA, we have our support time on standby to assist you in any trouble that you encounter in your running production.

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Atlas Copco Airpower is the world's most specialized knowledge centre concerning air technology, a production division within the Compressor Technique, which develops, produces and promotes compressors and generators.

Challenges:
- Better overview of made failures and the possibility to intervene during assembly.
- Establishing a minimum of assembly failures.
- Establishing a real-time data collection in a structured database.
- Improve measurement and analysis process.

Solution:
- ProSuite® from De Jaeger Automation
  ° Stops to fix: if the result is NOK, the line stops.
  ° Dynamic recipe, every transmission can be unique.
  ° Instruction guides the operator during the assembly process.

Benefits:
- Compatibility with all kinds of brands of tighteners (Atlas Copco, Desoutter, Makita, Stanley,...)
- Operator instructions on screen! ProSuite® guides and assists the operator in any operation and now records all actions and results.
- System management! ProSuite® controls your existing machines and machines from other suppliers.
- Less recalls, improved measurements and better analyzing of gained data.

ProSuite® and its standard tightening solution ProTight™ is implemented in the plant of Atlas Copco Airpower in Antwerp. The software ProSuite® monitors all tightening actions on the compressors.

In the plant of Atlas Copco Airpower, the software ProSuite® runs as a license and has the advantage that only a pc environment is needed. The software can easily be installed on all pc's in the plant and runs via an upper platform. This case a SQL server was used to capture all data.

The option ProTight™ guides the operator on what needs to be completed on the compressor on the production line. As the operator proceeds in the requested task, ProTight™ registers all tightening results that are applied on the part/piece.

All data for each screw connection is stored locally and then sent to a central server at production control room level via the Ethernet network (LAN).

Here, the frequency and type of problem is analyzed, and statistical quality control is carried out. In case of a network disruption, ProTight™ will send all results after the connection is restored. This way your production can continue even when disconnected from the network.

After implementing ProSuite® of De Jaeger Automation, there are less recalls and the production process improves. Less assembly failures occur and operators work more easily because of the clear instructions on screen.

YOUR PROSUITE® DEALER

Atlas_Copco_ENG_V3.0

THEY ALSO USE PROSUITE AS THEIR ASSEMBLY SOLUTION

'PROSUITE® CAN GUARANTEE YOU TO SAVE COSTS WHILE IMPROVING YOUR EFFICIENCY, YOUR PRODUCTIVITY AND YOUR QUALITY'

'PROSUITE® IS YOUR SOLUTION TO REDUCE THE TCO OF YOUR SHOP FLOOR EQUIPMENT, GET FULL TRACEABILITY AND IMPROVE THE QUALITY OF YOUR ASSEMBLED PRODUCTS'

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