

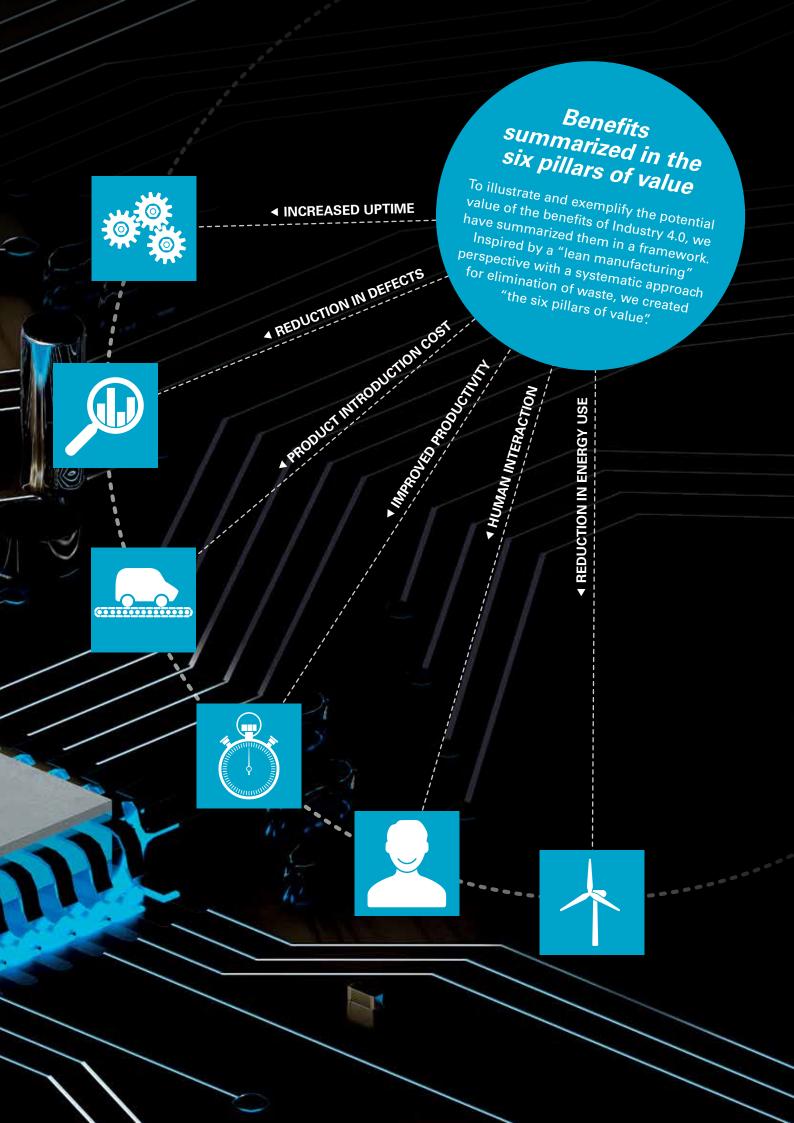
### Improve it, enhance it, gain total control of it

#### You want a total solutions provider

The industry is rapidly changing. New challenges are emerging, and new benefits of smart connected assembly are arising. Giving you the tools to maintain quality control in complex production systems, and increase uptime in production critical operations.

This evolution of the assembly process is driven by the Industry 4.0 – The fourth industrial revolution: the digitalization of manufacturing and assembly.

By combining the right tools with the right software – you can manage configurations, software versioning and access control. Today, it is easy to find a solution that fits perfectly on your existing line, truly contributing. Improving it, enhancing it, giving you total control of it. Make sure you have a true partner. Make sure you are not just buying tools – but investing in a total solution. A smart connected one.





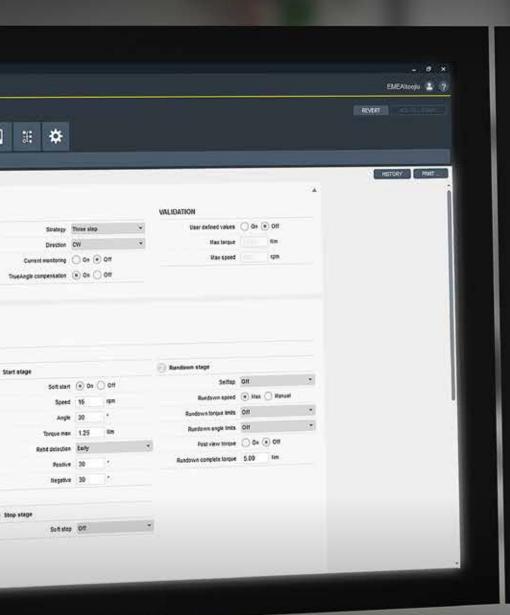


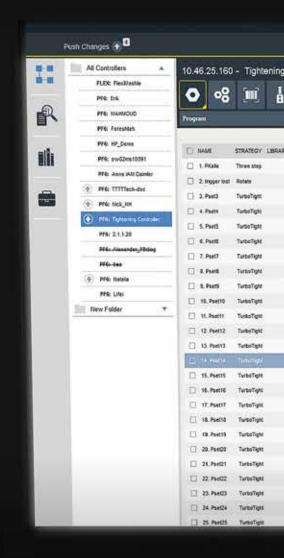




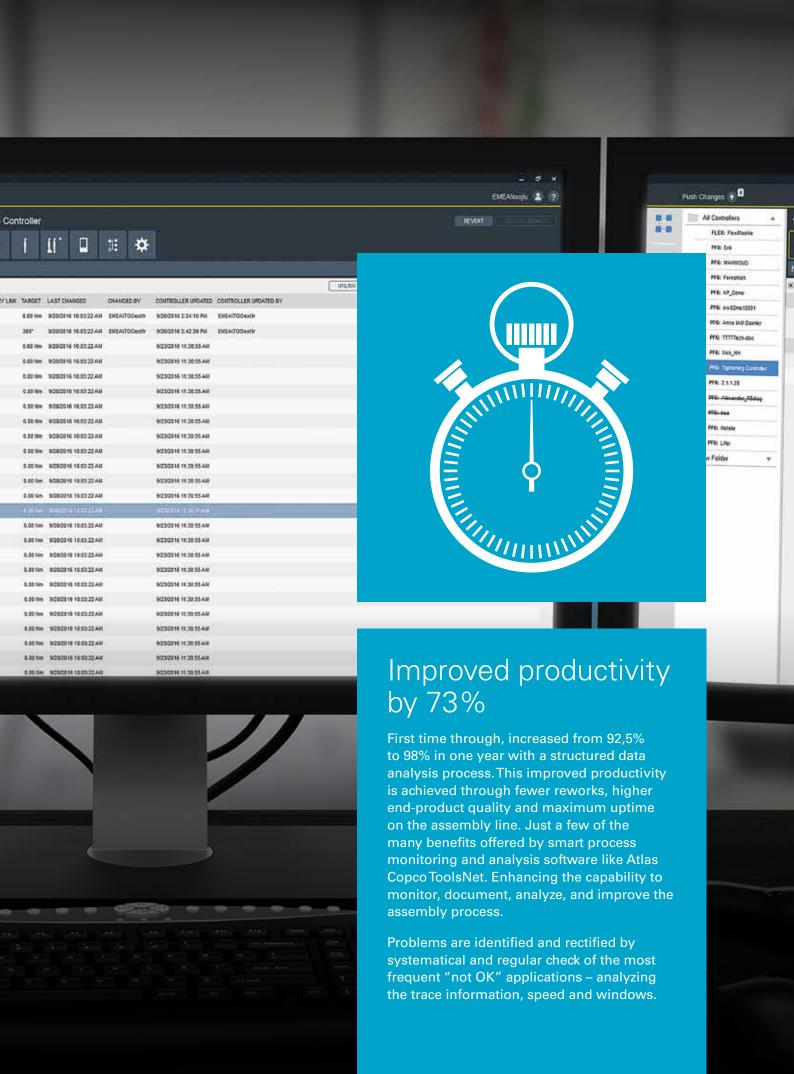


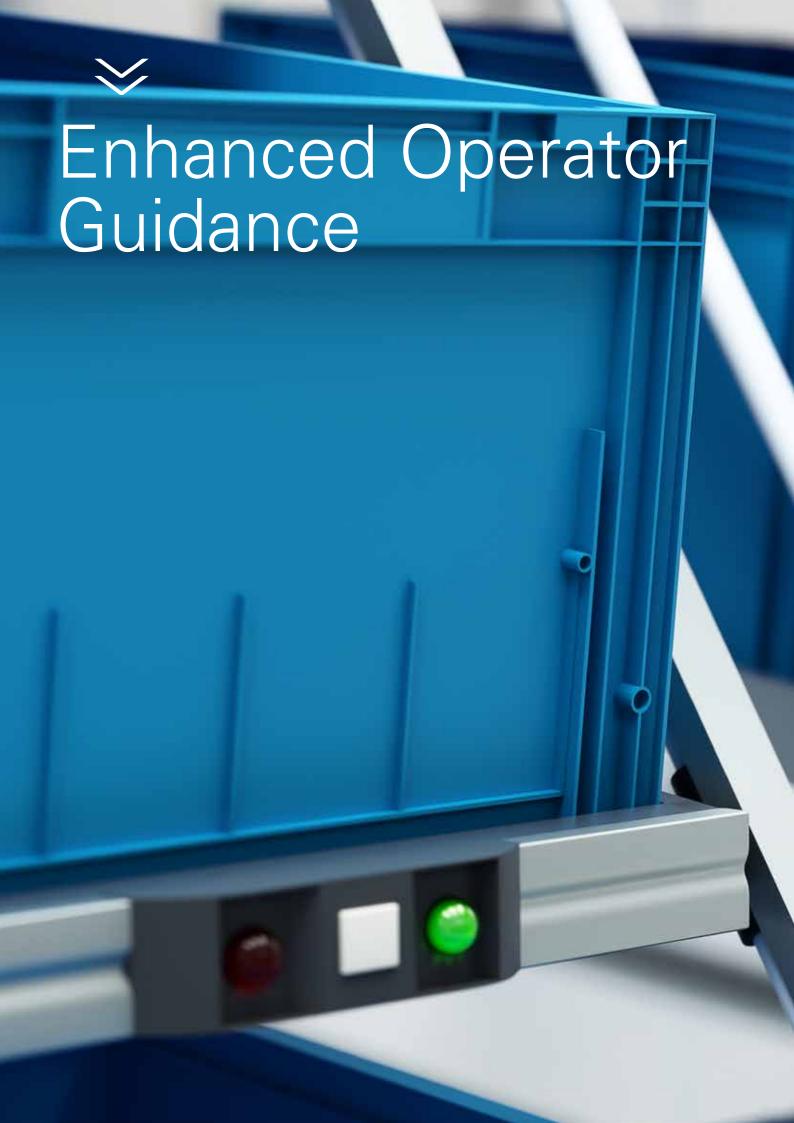






# First time through, increased to 98%













### 80% Reduction in energy use

Multiple wireless tools running on one virtual assembly process controller, leads to a significant reduction in energy use. Recent studies indicate that up to 80% of energy in a typical industrial environment, is consumed when the equipment and tools are in standby mode. For factories powered by wind and solar, reducing energy consumption is more than a cost reduction, it's a necessity to meet environmental policies.



### Tools and Softwares



# The Power Focus 6000 – designed to deliver



The Power Focus 6000 – The perfect choice for safety critical assembly. Supporting hand held and fixtured tools, the Power Focus 6000 is designed to make everyday production easier and more efficient. The Power Focus 6000 also increases your flexibility in rebalancing assembly lines.

#### **Benefits**

- ► Compatible with: Tensor STR, ST, STB, SR and ES
- Connect up to 6 tools to the same controller
- ➤ Simpler installation with less cables, hardware components and network drops
- ▶ Lower power consumption
- ► Less floor space utilization
- ... and a much smaller environmental footprint.

#### Intelligence making a difference – IAM is your key

IAM – Intelligent application module is like holding a key to Smart Connected Assembly. It unlocks all the benefits of software, tightening data and configurations. With IAM you have access to smart software management enabling you to benefit from easy and stable upgrades, with a rapid back-up function.



IAM Software, tightening data and configuration – in a future proof portable module.



PF6000The Power Focus 6000 is a MultiTool Controller designed to optimize your assembly process.





#### Virtual Stations – the enabler

Using less hardware will save you up to 80% power consumption – great news for the environment!

The Virtual Station is the enabler of your assembly. It controls the tool, the communication and the accessories in your assembly station. Controlling multiple tools, working with virtual station gives you less cable management, less network connections and less hardware components. You will gain increased flexibility with increased re-balancing speed in your production.





The Virtual Station keeps all information about your assembly process, giving you an instant overview of what is going on in your production.

#### **Tool Control:**

Making sure your tool is performing correct tightenings for your assembly.

- ► Pset selection
- ► VIN handling
- Batch sequence control

#### **Communication Control**:

Communicating for easy and seamless integration with your production systems.

- ► Open Protocol
- ► Fieldbus
- ► Customer Protocols

#### **Accessory Control:**

Taking care of multiple accessories per virtual station.

- ▶ Stacklight
- ► Socket selector
- ▶ Digital I/O



Virtual Station. We call it the enabler – of gaining control, communication and smart connected assembly.

# Revolutionary tightening stra tegies Rotation direction Reaction Force Direction REACTION FORCE WITHOUT TURBOTIGHT The TurboTight Strategy The Turbo Tight strategy lets the tool absorb the reaction force, and significantly improve ergonomics for the operator. Shortening cycle times and at the same time improving flexibility. Less hardware means less maintenance. And if you're doing 200 tightenings a day that makes the world of a difference.



#### Eliminate operator influence

TrueAngle uses a gyro signal to read operator movement, increasing the accuracy of your angle reading. This allows you to narrow down your angle window, and detect the most common assembly problems such as wrong or missing components and damaged threads.

Avoid premature shut-offs and detect re-hits. Increase your quality and lower your costs connected to scrapping and rework.





### The pistol grip Tensor



### The two trigger tool



The Tensor STR Two Trigger
Tool eliminates the need of a
pretightening tool. First the
operator uses the upper, one
handed pistol grip, to pretighten,
leaving the other hand free. And
then with two hands on the tool,
the lower trigger to tighten to
desired torque.

An accurate and reliable tool that has a market leading accuracy, thanks to it's innovative placement of the transducer. Increasing accuracy to 2,5%. This increases process reliability, minimizing risk for recall and reducing assembly problems.





#### STR Accessories

### A fantastic tool series enhanced with smart accessories

Whether your mission is to get your tightenings to your exact specification, or to set up that perfect operating solution, Tensor STR is your go-to-tool. There are lots of accessories and they are all designed to fulfil your demands.



**Swiveling Suspension Yoke** 



**Suspension Yoke** 



**Top ring Light Module** 



Headlight



**Barcode Scanner** 



**Protective Cover for Barcode Scanner** 



Front Lever Trigger



Front Lever Trigger



**Top Side Trigger** 





# Tensor SR - Compact and Powerful





#### BCP/BCV

# A screwdriver with superior ergonomics

# Durable and reliable, the BCV nutrunner





#### Tensor SB

# Tensor SB can reduce energy consumption by as much as 80%

Suitable for a wide range of applications, including heavy duty tasks, the user-friendly Tensor SB is an advanced, transducerized industrial battery nutrunner offering high quality tightening. Choosing Tensor SB can reduce energy consumption by as much as 80% compared to using a corresponding air tool. The Tensor SB's Atlas Copco Li-lon battery is powerful, reliable and has no memory effect, which adds up to increased production uptime.





### ErgoPulse PTI

# Tightening with air tools – pulse tool innovation

ErgoPulse PTI is designed for industrial users, who has a need for a robust one hand tool. Robust tool means a low investment cost in a long run. It has the highest uptime among pulse tools, and the oil refill has been made very easy.







## Quality Assurance

#### STbench

We provide a full range of Joint Simulator Benches, with a patented system for testing tools in real production conditions, or Static transducer benches as an all-in-one mobile system.

#### The STa6000

The STa 6000 is a portable quality assurance tool – checking tool performance, repeatability and accuracy for all types of power tools and torque wrenches. Test your tools in the tool crib following service and continuously on the line to monitor performance.



#### **IRC-Connect**

IRC-Connect transforms your transducer in a smart wireless transducer. Data is safely stored with no dependence on the network and the test is reliable in all the working conditions.

#### STwrench

The STwrench Controller and Smart Head is a state-of-the-art, four-patent wrench that employs the modularity concept to check the residual torque on an already tightened joint. It can also be used to tighten a bolt with the most advanced torque or torque/angle strategies with complete traceability and error-proofing functionalities.

#### **STpad**

STpad is the core device in QA. It can be used with either IRC-Connect or with an STbench, seamlessly moving from one to another. An optional docking station makes the STpad fast to program a PC.A large touch screen interface with a rugged, durable design.

#### QA Supervisor

QA Supervisor is a all new server based software making the quality managers job easier. Every single detail of the plant structure can be defined in QA Supervisor. It then keeps track of every change in the line setup, making any audit quick and effective.







#### Handheld

The Microtorque Handheld
Screwdriver range is the most
advanced tightening solution
for any low torque application.
Extremely ergonomic, very
compact and full of functionalities
it is the right tool to boost
productivity and quality, resulting
in high efficiency and cost
reduction.

The Microtorque system comes with a wide range of accessories such vacuum adapters.





### Single Quality Solution

#### Error proofing software

The Single Quality Solution (SQS) is a comprehensive solution that drives quality, process reliability and transparency, as well as product safety at assembly station. SQS guides operators through the assembly process leaving no room for error or oversight. It is capable of managing the assembly process of many different products and is ideally suited for sub assembly stations, backup stations, and repair areas.



Entry level standalone solution



Set of standard functionalities



Plug & Play



Easy to configure



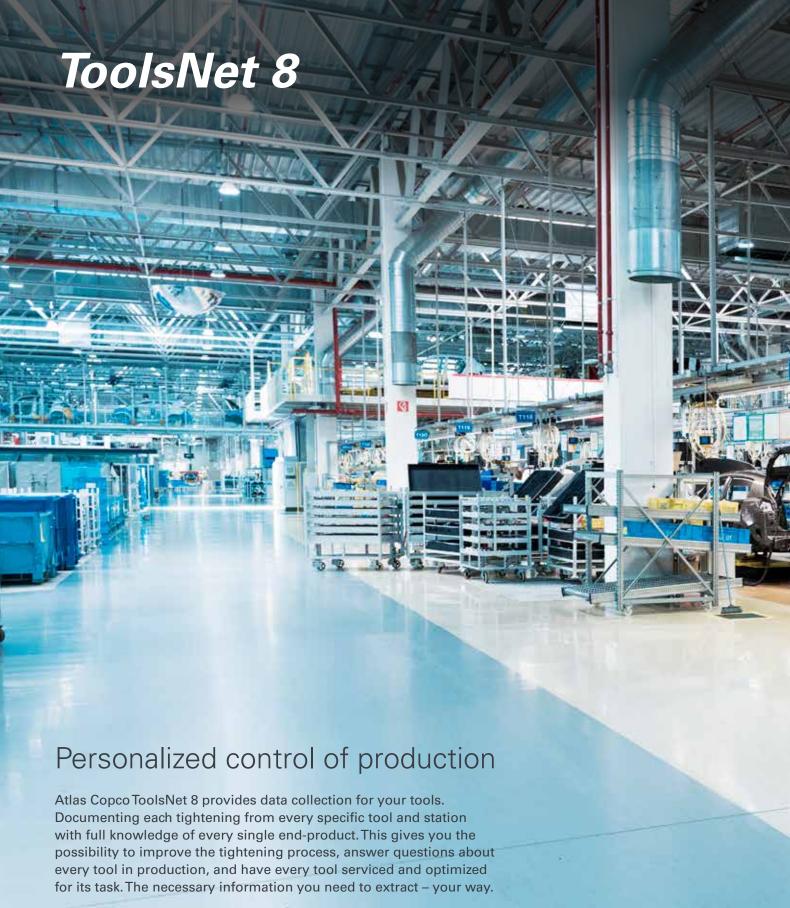
### **HLTQ Series**



## The solution for visualization and control on the shop floor

With a robust design and high-performance components the HLTQ (Hard LineTerminal) series are state-of-the-art devices for your industrial purposes. Choose between six standard models that are pre-configured and available off-the-shelf, or a customized version which can be configured individually based on available options.





Improve your assembly line. In everyday production you may need to keep control of service and maintenance. With Toolsnet 8 it is easy to get a complete overview of the assembly line to analyze productivity. Perhaps you need to monitor a certain station to improve on quality, or view the top NOK applications to find the applications with the highest failure rate for a configured part of the tool structure. Comparing stations, finding bottlenecks and improving quality –The information you need has never been more structured and accessible.



### Tools Talk 2





#### Complete Line Management

Gain full control of your assembly line with ToolsTalk 2 as the center of all configurations, for either handheld or fixtured stations. Leaving no questions unanswered. With features that benefit you in terms of time, money and end results.

Improved productivity is a fact thanks to the reduced configuration times. Program all controllers in the line and their Virtual Stations fast and at once, from a single outlet - your computer. Secure the exact same tightening result in different stations just by copying a program with a click.

Achieve reduction in defects with customizable access rights for every user. Giving you complete

traceability on tightening programs and their changes. Gaining clear information on who is changing what, where and when.

One-click software updates, easy swap between passive and active controller software, visibility to tightening programs history and roll-back to previews states; all add up to your increased uptime in a secure and efficient way.

Human interaction is made easy, with excellent user experience through a simple and attractive interface. Clear and easy steps on configuration settings, including notifications to minimize wrong value input.

### **Coming Soon**



















For full information about our tools and softwares visit atlascopco.com

