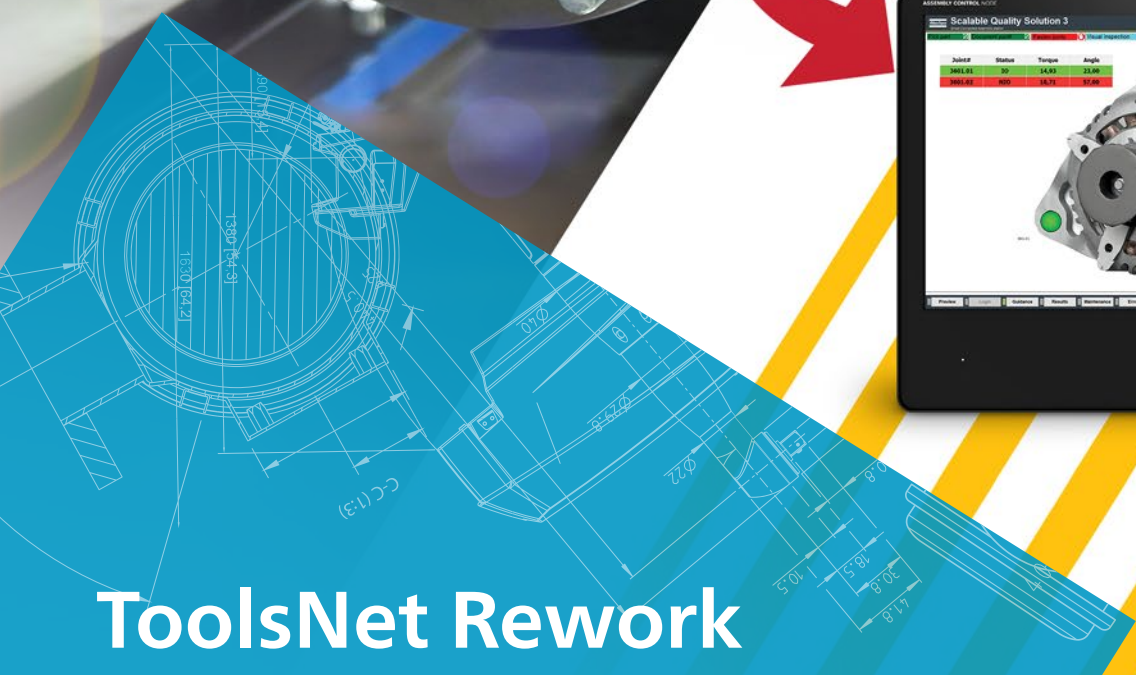


Atlas Copco



ToolsNet Rework

Get control of your repair or rework processes and increase product quality as well as productivity

REPAIR

Gain control of your repair processes!

Today's assembly processes are getting more and more complex. High numbers of variants, parts and steps make error-free product assembly increasingly challenging.

With ToolsNet 8 you gain full control of your production. You get clear insight and overview from the collection and analysis of production data resulting in better product quality and less production downtime.

But what happens when an assembly step fails and the product needs repair or rework?

ToolsNet Rework powered by SQS3



ToolsNet Rework, as a module of the SQS3 error proofing software, helps achieving zero defects in rework or repair processes improving productivity and trust of your customers.

ToolsNet Rework drives

- product quality
- process reliability
- transparency

Inject ToolsNet Rework into your assembly process at critical junctions, e.g. at the end of an assembly line or prior to inserting a product's core into its housing or casing.

When a product reaches the ToolsNet Rework checkpoint, ToolsNet sends all torque data pertaining to the product's ID and analyzes the data for assembly errors. In case of any error ToolsNet Rework automatically starts the repair process, enables the tools and tightening parameters required for the job, and provides visual instructions to the operator repairing the product.

All fastenings done during the repair process are tracked and stored in ToolsNet ensuring traceability to the entire product build process including product repair.

The functions of ToolsNet Rework

- Clear target-actual analysis of OK/NOK result data
 - o Where are the faults?
 - o What was done correctly?
 - o Which tightening steps are missing?
- User access control: Operator identification and authorization
- Visual operator guidance: full step-by-step graphical instructions ensure all repair steps are done right using the correct tool and tooling parameters
- Consolidated data collection: Synchronization of all repair actions and data for full traceability

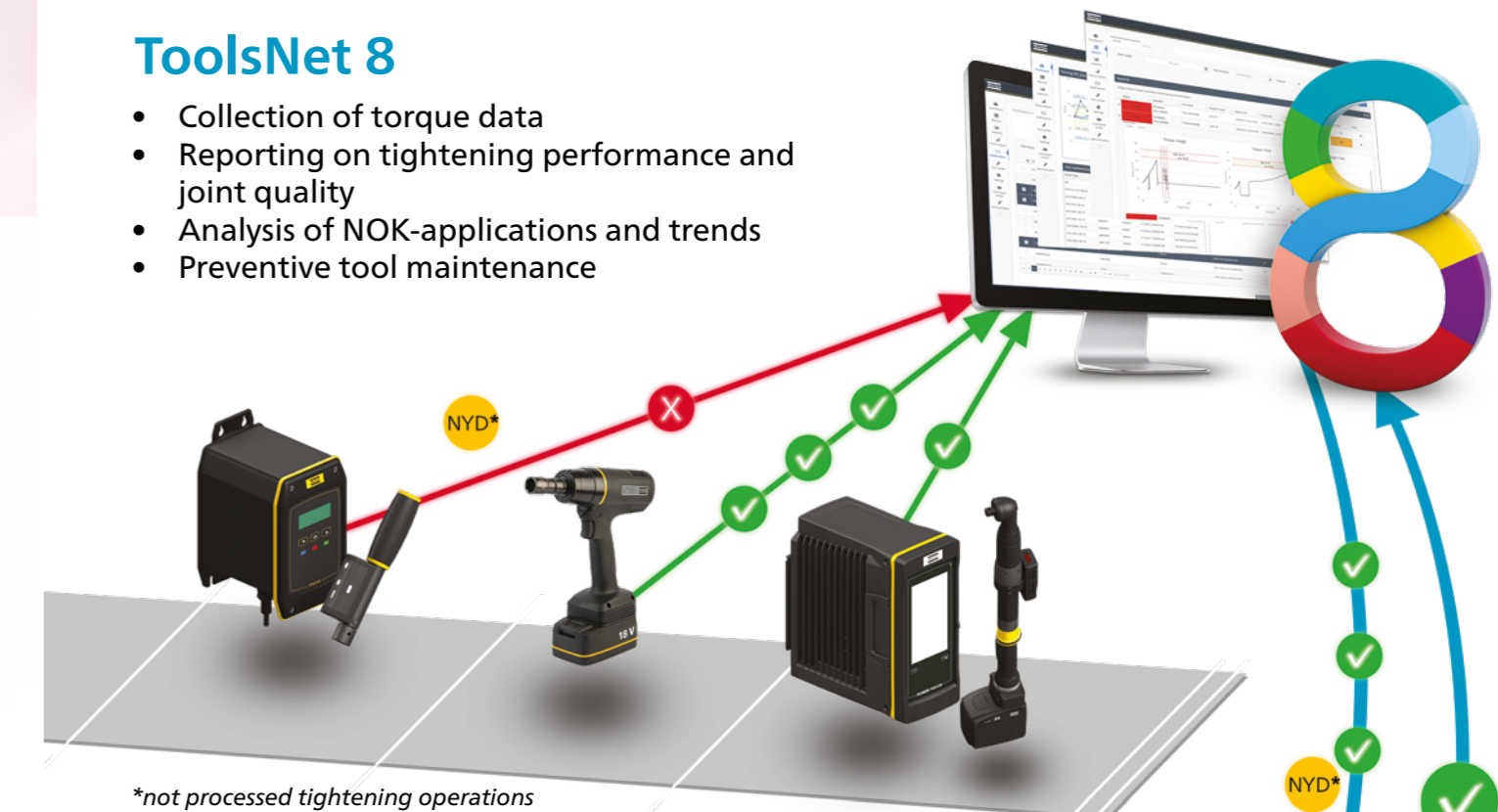
Your benefits using ToolsNet Rework powered by SQS3

- 👍 **Full process control and transparency:**
Traceability of every tightening step and result by full data collection of rework data
- 👍 **Zero tightening defects:**
Only faultless products leave the line segments
- 👍 **Increased product quality and fewer warranty field claims**
- 👍 **Easy and riskless installation**
- 👍 **The rework station has no impact on regular production process;**
no change to production equipment or process flow
- 👍 **Independent from any process control system used on the shop floor**

Close the process control loop by combining production and repair error proofing

ToolsNet 8

- Collection of torque data
- Reporting on tightening performance and joint quality
- Analysis of NOK-applications and trends
- Preventive tool maintenance



**not processed tightening operations*

ToolsNet Rework

- Product arrives at rework station and is signed-in
- ToolsNet Rework queries for product ID
- ToolsNet 8 provides results for the product ID
- ToolsNet Rework figures out all tasks to be done
- ToolsNet Rework's Operator guidance drives the process
- Report and storage of repair results

SQS3

- Full control of build process
- Tool interlock – the right tool with the right parameters at the right time
- Visual operator guidance
- Operator authentication and authorization



Five reasons to invest in SQS3 ToolsNet Rework:

Zero defects

Secure the quality of products before they leave the facility



Rework data

Close the gap in rework data collection



Process quality

Improve rework accuracy and reduce operators' training time



Cost effective

Easy and fast implementation with a low up-front investment

Non-intrusive

Improve the repair process without changes to assembly processes

EasyStart SQS to save time and money



Benefit from EasyStart SQS for a fast and efficient start of operations through a standardized and proven process from installation to training.

- Assessment of process configuration requirements
- System and process configuration check and optimization
- Operator training including certificate
- Additional services can be added

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Configurator



Operator guidance



Web-based traceability

Main functions of ToolsNet Rework

- Queries ToolsNet for OK and NOK tightening data of products
- Computes consolidated status (OK or NOK) of products based on tightening data
- Guides operators through the repair process of NOK products
- Selects the right tool and correct tool parameters required for the repair process
- User access control ensures only qualified operators are working at the repair station
- Returns tightening data of repair process to ToolsNet for full traceability

Ordering details

Description	Ordering No.
SQS3 ToolsNet Rework, single license (Packed in a small box)	8434 2380 23
SQS3 ToolsNet Rework, single license (Electronic delivery)	8434 2380 22
Service Offering	
EasyStart SQS, service product (provided by Service team)	9900 4106 15
TechCover Protect, software support contract (provided by Service team)	9900 4164 57

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