

BÖLLHOFF

RIVNUT® NEO B107 and NEO B109

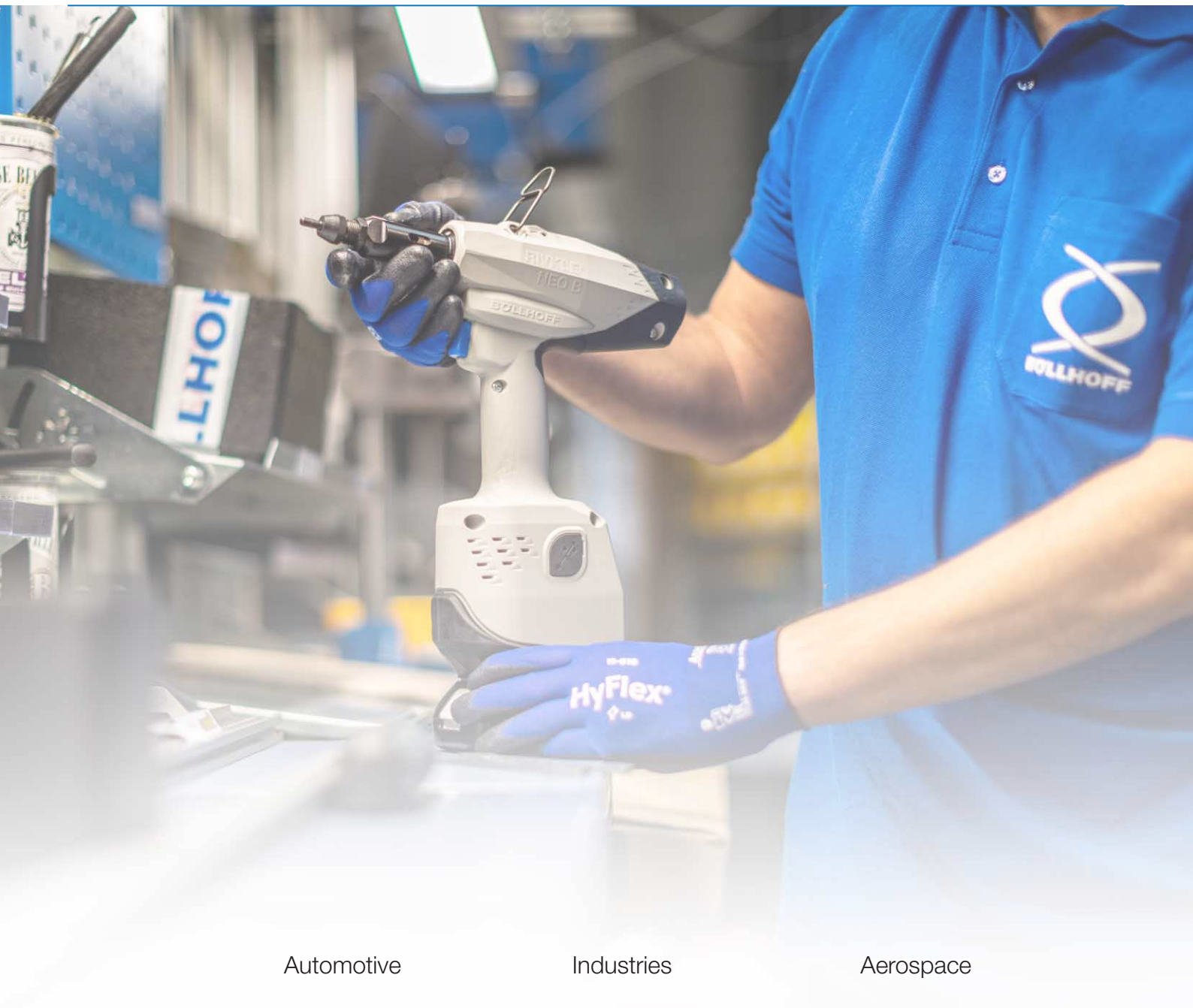
The new generation of setting tools for RIVNUT® blind rivet nuts and studs



We are **expert**
for **fastening** and
assembly technology.



RIVNUT® – Setting equipment for different applications



Automotive

- Body in white
- Front end
- Cross car beam
- Fender fixation
- Hatchback
- Crash box
- Roof bar
- Battery tray

Industries

- Solar panel
- Industrial kitchen
- Cycle
- HVAC
- Construction and agricultural machinery cab
- Other industrial applications

Aerospace

- Cable tray
- Seat
- Electronics
- Heat shield

RIVNUT® NEO B107 and NEO B109 – Battery setting tools for blind rivet nuts and studs

Quick and easy tooling replacement

- Compatible with Böllhoff mandrels and anvils

Ergonomics in line with Böllhoff standards

- Redesigned trigger (anti-pinch)
- Comfortable, ergonomic handle

New battery

- Makita® universal lithium-ion battery 1.5 Ah, 18v
- Quick and easy battery change

Advantages



3 kN to 18 kN (M3-M8 steel)



32 RIVNUT® / min*



Optimized maintenance (easier and faster)



Designed and validated for mass production use



Compatibility with existing RIVNUT® tooling (mandrels and anvils)



For RIVNUT® blind rivet nuts and studs



* According to Böllhoff procedure

RIVNUT® NEO B107 and NEO B109 – Battery setting tools for blind rivet nuts and studs

Redesigned automatic screwing

- Intuitive, automatic screwing of RIVNUT®
- Optimization of mandrel screwing axis
- No screwing without RIVNUT® blind rivet nuts or studs

Electro-hydraulic technology

- Compact design
- Optimized weight distribution (better balance)
- Optimum repeatability
- Increased reliability (low friction)

Digital display and buttons

- Adjustment of setting force
- Battery charge level information
- Display of any error codes
- Access to setting parameters
- Automatic unscrewing button



Developed and
produced in France



RIVNUT® NEO B107 – Battery setting tool for RIVNUT® blind rivet nuts and studs

RIVNUT® NEO B107 – Innovative, fast and ergonomic battery-powered tool



RIVNUT® blind rivet nuts and studs are the most versatile solutions for the creation of an internal thread or external thread on thin-walled components. These solutions require access to the application from one side only and allow two or more plates of different materials to be joined together. To guarantee optimal installation, we offer a new range of RIVNUT® NEO B battery-powered tools, featuring electro-hydraulic technology combining performance and reliability.

Technical specifications

Setting method	Force setting
Setting capacity	3 kN to 18 kN (M3-M8 steel)
Weight with battery (without tooling)	2.27 kg
Maximum stroke	7.5 mm
Production rate	32 RIVNUT® /min*
Screwing mode (new)	Automatic screwing adjustment
Sequence mode	Automatic unscrewing
Manual unscrewing button	Yes
Battery	Makita® lithium-Ion 1.5 Ah, 18v
Locking setting force from tool	Yes
Working light	Yes

Setting capacity

	Ø RIVNUT®				
	M3	M4	M5	M6	M8
Steel	■	■	■	■	■
Stainless steel	■	■	■	■	■
Aluminium	■	■	■	■	■

Specific Böllhoff properties

- Optimized ergonomics thanks to two perfectly distributed motors for optimum balance
- Quick tool to allow 32 RIVNUT® setting per minute*
- New automatic screw adjustment ensures that the RIVNUT® is perpendicular to the setting tool mandrel
- Quick battery change (standard Makita®)

*According to Böllhoff procedure



RIVNUT® NEO B109 – Battery setting tool for RIVNUT® blind rivet nuts and studs

RIVNUT® NEO B109 – New premium battery tool, innovative and fast with integrated setting process control



The RIVNUT® brand represents Böllhoff blind rivet nuts and studs technology. RIVNUT® blind rivet nuts and studs reliably and durably join our customers' applications.

Highly resistant, these components are perfectly installed using our RIVNUT® NEO B109 battery tool. This model has all the features of the RIVNUT® NEO B107 and allows you to control the setting process, directly integrated into the tool. With 100% quality control, you'll be able to validate the conformity of each installation.

The RIVNUT® NEO B109 can be connected to a computer and managed using the NEOSOFT application.

Advantages:

- Validate the conformity of the installation by checking:
 - The stroke measured in link with the application
 - Optimum positioning of RIVNUT® on the tool
 - Optimum contact of RIVNUT® on the application
 - The setting force in relation to the size of the chosen RIVNUT®
- Archive the parameters of each setting, which can be exported, analyzed and used to visualize setting curves
- Integrated counter to:
 - Guarantee compliance with the number of RIVNUT® installed per application
 - Anticipate tooling replacement and maintenance (preventative maintenance)
- Detailed error report for easy correction and optimized prevention
- Intuitive RIVNUT® NEOSOFT interface for customizing tool to suit your needs
- Program change directly on the tool (up to 10 programs)
- Rear LED: interaction with the operator to check the conformity of the installation

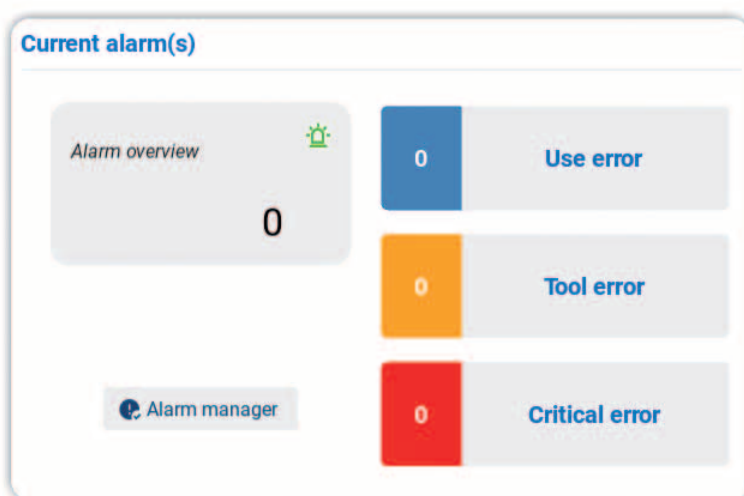


RIVNUT® NEOSOFT – Setting quality control application

Enter the future of industrial efficiency with the RIVNUT® application NEOSOFT

Our new computer application helps users in their day-to-day work and in the way they interact with our new RIVNUT® NEO B109 battery-powered tool. Imagine a tool that gives you total control over your entire installation process, as well as a host of new benefits. With our innovative RIVNUT® NEOSOFT application, you can control and customize your control process using a particularly ergonomic interface. Decide which parameters are most important for your application, to guarantee absolute compliance of your installed RIVNUT®.

Alarm management



The alarm section allows you to view the history of all errors that have occurred on the tool, whether acknowledged or not.

Three types of error can be presented:

- Operating problem (tool stroke too long or too short)
- Tool errors (motor, low or unsuitable battery, lack of oil)
- Critical problem (direct contact with Böllhoff after-sales service is recommended)

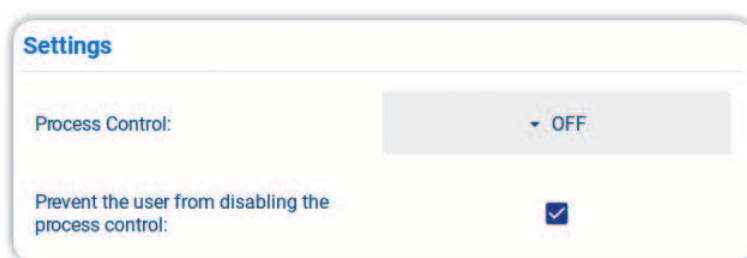
The dedicated "Alarm manager" page helps you to understand and deal with each error. Links to video tutorials are provided to guide you through problem management.

Quick settings

The quick setting view allows:

- Direct selection of a pre-registered program (process control tab)
- Locking of the device to a defined program

To unlock this program, the user must log on to the application again.



RIVNUT® NEOSOFT – Setting quality control application

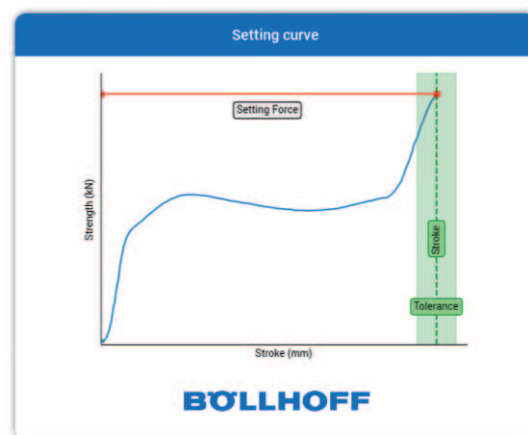
Controlling the installation process

List of programs Need help ?

	Program	Stroke type	Stroke (mm)	Tolerance (mm)	Force (kN)	RIVKLE® count	Part contact detection	
<input type="radio"/>	OFF							
<input checked="" type="radio"/>	P0	Manual	3.2	0.5	12	3	No	
<input type="radio"/>	P1	Learnt	4.2	0.5	13	4	Yes	
<input type="radio"/>	P2	Learnt	4.1	0.5	12	∞	No	
<input type="radio"/>	P3	Manual	3.1	0.5	12	∞	Yes	
<input type="radio"/>	P4	Learnt	3.3	0.5	12	∞	No	
<input type="radio"/>	P5	Learnt	3.2	0.5	12	∞	Yes	
<input type="radio"/>	P6	Learnt	3.0	0.5	12	∞	Yes	
	P7	-	-	-	-	-	-	
	P8	-	-	-	-	-	-	
	P9	-	-	-	-	-	-	

Set up to 10 different programs to take account of variations in all your applications. Create or modify a program and decide how it should be transferred to the tool.

Update program



P1

Setting force (kN): Please enter a value

Part contact detection: ☒

Settings count: ☒ Please enter a value

Enable stroke checking: ☒

Stroke type: ☒ Auto ☐ Manual

Stroke auto learning setting cycles:

Stroke (mm):

Tolerance ± (mm):

CANCEL OK

Customize your setting process control program:

- ☐ Setting force
- ☐ Stroke control
- ☐ Counting RIVNUT® crimped
- ☐ Part contact validation (exclusive to Böllhoff)

The stroke control can be learnt from your application or entered manually.

RIVNUT® NEOSOFT – Setting quality control application

Statistics

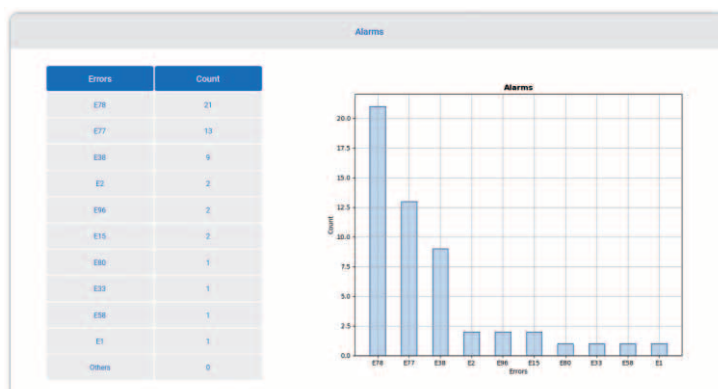
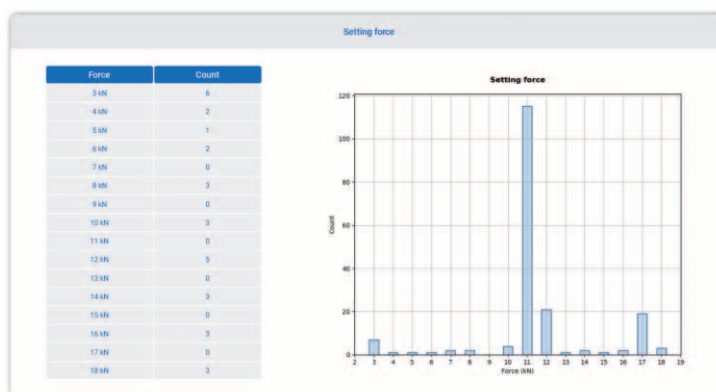
- Visualization and management of installation data and curves directly on the RIVNUT® application NEOSOFT

Accessible data:

- Chronological and dated installation history
- History of alarms generated for each setting cycle
- Effort applied and measured
- Minimum, maximum set stroke and measured value
- Tool temperature
- Part contact detection yes/no
- Automatic learning of stroke yes/no
- Visualization and export of installation curves for improved data processing.



- Visualization of all installation efforts and alarms since the RIVNUT® NEO B109 was put into operation



RIVNUT® NEO B107 and NEO B109 – Tooling and accessories

Content of the case



Tooling

				Ø RIVNUT®				
				M3	M4	M5	M6	M8
RIVNUT® NEO B107/NEO B109 Mandrel			236 113 XX 020	03	04	05	06	08
			376 113 XX 020	–	04	05	06	08
RIVNUT® NEO B107/NEO B109 Anvil			236 113 XX 030	03	04	05	06	08
			376 113 XX 030	–	04	05	06	08

Accessories

Force indicator with calibration certificate	Tool holder	Balancer	Articulated arm	Articulated arm	Battery Makita® lithium-Ion 1.5 Ah, 18v	Battery Makita® lithium-Ion 3 Ah, 18v
Measurement accuracy: +/-3%						
282 522 14 800	236 500 00 019	282 590 10 820	282 590 10 664	282 590 10 665	236 999 00 170	236 599 00 042

Extension kit		
Extension kit 55 mm	Extension kit 110 mm	Extension kit 165 mm
236 500 00 024	236 500 00 023	236 500 00 022

Standard screw kit	
RIVNUT® NEO B107/NEO B109 Hex socket screw kit	Screw, standard ISO 4762 DIN 912
Sold in packs of 10 screws	Sold in packs of 10 screws
M3	236 500 00 001
M4	236 500 00 002
M5	236 500 00 003
M6	236 500 00 004
M8	236 500 00 005
M3 x 60:	236 803 03 020
M4 x 60:	236 803 04 020
M5 x 65:	236 803 05 020
M6 x 65:	236 803 06 020
M8 x 70:	236 803 08 020



Passion for successful joining.

Böllhoff Group

Innovative partner for joining technology with assembly and logistics solutions.

Find your local partner at www.boellhoff.com or contact us at fat@boellhoff.com.