Bossard SmartTool

Smart tools for your digital assembly

The digitization of your assembly

Smart tools in assembly increase process reliability and productivity, resulting in significant savings potential.

Battery-powered screwdriving and riveting devices equipped with sensors are the first step towards digitalizing your production. They enable you to work independently of the control location. The tools can be connected to the system via WLAN, receive information about the next work step directly from the system and return information about the last work status such as torque, angle of rotation, time, current etc. Configuration of the tools is simple and user-friendly.

Quality improvements

Continuous process monitoring during every fastening process and every interaction with the tool guarantees the correct processing for each fastening element in production.

Traceability

All process data are saved in a memory card. This ensures that the processing operations are always traceable.

Highest flexibility

Up to 99 different operations can be stored directly in the mold and used in a single step, in a process or in a sequence.

Improved productivity

The fitter can concentrate on the production and not on the adjustments on the tool. This leads to higher productivity.

Riveting technology

	Article	Programmability	Setting force	Setting stroke	Dimension	Mandrel-Ø
Blind-Rivet-Nut-Tool	RNB-25(-S)	Force	up to 25 kN	max. 21 mm	M3 - M12 (material-dependent)	
Blind-Riveting-Tool	RTB-20(-S)	Force	up to 20 kN	max. 25 mm	2.4 - 6.4 mm (material-dependent)	up to 6 mm

(-S) = Optional scanner

Screwdriving technology

Pistol-DC-Driver

Angle-DC-Driver

	Sensor	Sensor	Torque [Nm]											
			0.8	2	5	8	11	14	15	20	25	30	55	85	90
	Torque and angle sensor	Torque sensor												
Pistol-DC-Driver	TT11B-10(-S)		0.8 – 11											
Pistol-DC-Driver		TT11B-12L(-S)	2 – 14											
Angle-DC-Driver	TT34B-20(-S)	TT34B-20L(-S)	5 – 20											
Angle-DC-Driver	TT34B-30(-S)	TT34B-30L(-S)	10 – 30											
Angle-DC-Driver	TT35B-55(-S)	TT35B-55L(-S)	20 – 50											
Angle-DC-Driver	TT35B-85(-S)	TT35B-85L(-S)	30 – 85											

(-S) = Optional scanner

Battery and charging technology

	Typ	18V
Li-Ion battery	LB-1825	2.5 Ah
Li-Ion battery	LB-1850	5 Ah
Battery charger	BC-2830	3 A / 220-240 V
Battery charger	BC-2830-USA	3 A / 110 V

Exemplary tool design

1. OLED display
2. Multi -Color LED
3. Brushless motor
4. Color-coding
5. Right/left rotation
6. Large start trigger
7. Ergonomic handle
8. USB interface
9. Powerful LED
10. WLAN
11. Optional scanner
12. 18 V Li-Ion battery*
13. Nose piece

* not included in the scope of delivery

That's why your employees will also love Bossard SmartTools:

Easy handling

All Bossard SmartTools are intuitive to use. New operators find their way quickly and easily and do not require long training periods.

Direct status indication through colored LED

The fitter always receives immediate feedback from the tool through the LED display. The lights can be individually programmed and signal, for example, when the tool is ready for use.

Man-Machine-Communication

The OLED display shows all important information such as Battery status, set torque, status of the last processing step etc. In the tool menu settings can also be made for the autonomous use of the tool.

Connected and smart

The integrated WLAN module ensures wireless data transmission within the shop floor. The tools can be controlled with a central control software. The optional scanner can read 2D and bar codes and use this information to parameterize the machine for the next work step.

Bossard SmartTools as a component in digital worker management

Move ahead in the direction of Industry 4.0 and benefit from the immediate advantages of Bossard SmartTools. Talk to your local Bossard customer consultant. We look forward to your inquiry. www.bossard.com/smart-factory-assembly