BOLLHOFF

SPREDLOC®

Precision threads in modern lightweight structures — efficient expansion anchoring with one-sided accessibility



You have lightweight structures made of aluminium, magnesium, polymers or the like and need stable stud threads according to property class 8.8?

The installation should also be simple and efficient and it should be performed after the manufacture of your component?

Your solution: SPREDLOC®

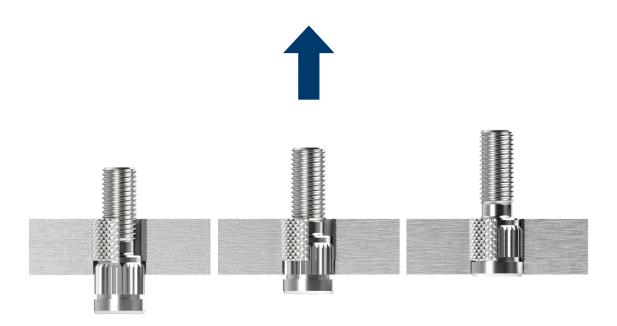
Precision threads in modern lightweight structures — efficient expansion anchoring with one-sided accessibility.



SPREDLOC® are threaded studs which Böllhoff offers in combination with the respective processing systems for expansion anchoring. The threaded studs have been especially designed for retrofitting with one-sided accessibility. The result are wear-free, stable threads for your high-quality lightweight structures.

This innovative joining solution is suited for material thicknesses and dome heights from 6 mm.

Try it yourself.





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Our InfoPoint provides additional information in the form of further brochures and/or videos at the end of this brochure.

Under the name of SPREDLOC®, Böllhoff offers threaded studs for expansion anchoring in combination with the respective processing systems. The threaded studs have been especially designed for retrofitting with one-sided accessibility. The result are wear-free, stable threads for your high-quality lightweight structures.

They are suited for the installation in lightweight materials such as polymers, aluminium or magnesium*.

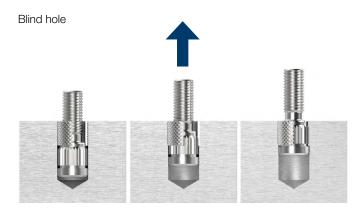
Technology

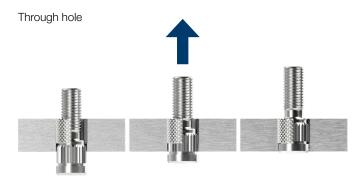
SPREDLOC® is a pre-installed fastener consisting of two elements. It is spun on using the installation tool and inserted into the mounting hole. The hole can be preformed or machined with common drills as a blind or through hole.

Through the axial pulling motion of the installation tool on the stud of the fastener, the sleeve is pulled over the stud shank and at the same time expanded. In the process, the diamond knurl of the anchoring sleeve presses into the wall of the hole on the component. The longitudinal knurling on the stud head prevents the stud from rotating inside the sleeve. A cylindrical shoulder on the threaded stud restricts the possible setting travel and increases the pull-out strength. The SPREDLOC® is now anchored and locked against screwing and pull-out.

This innovative joining solution is suited for material thicknesses and dome heights from 6 mm.

Installation principles





Your advantages — an overview

Efficient

- Pre-installed, one-piece fastener
- Stable stud threads according to property class 8.8
- Thread creation in formed and drilled tap holes no holding thread required

Component cleanlinless

■ No chips or burrs during installation

Versatility

■ Suited for a wide range of lightweight materials*

Easy processing

- "Blind" setting method (one-sided accessibility)
- Established RIVKLE® installation equipment is available for processing - ranging from hand tools to a fully automatic system.



Expansion-anchored

Metric thread Coarse thread

Dimensions

Threaded stud

SPREDLOC® Stud	Total length L2 [mm]	Useful thread L1 [mm]	Sleeve diameter D1 [mm]	Sleeve length L4 [mm]	Shank length L3 [mm]
D5 x 15 (coarse thread)	23.9	15.0	8.0	6.5	14.2
D6 x 20 (coarse thread)	29.9	20.0	9.0	7.5	16.2
M6 x 20 (metric thread)	29.9	20.0	9.0	7.5	16.2
M8 x 20 (metric thread)	30.9	20.0	12.0	8.0	17.7

Threaded stud

Range of use material thickness/dome height $> 6~\text{mm}^*$

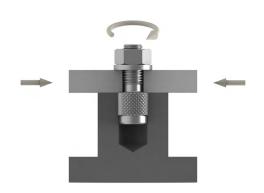
Expansion-anchored

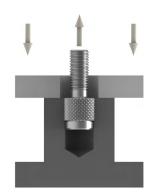
Bore hole recommendation

- Polymers (except PC and PMMA)
- For use in aluminium, add + 0.05 mm to the value.

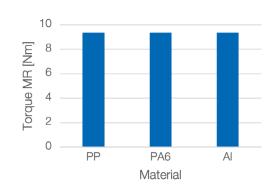
	Inner Ø [mm]		Installation depth [mm]		Outer Ø [mm]		Wall thickness [mm]	
	min.	max.	min.	max.	min.	max.	min.	max.
M5	8.15	8.25	16.00	16.50	13.40	13.50	2.58	2.68
M6	9.15	9.25	18.00	18.50	15.30	15.40	3.03	3.13
M8	12.30	12.40	19.50	20.00	20.00	20.20	3.80	3.95

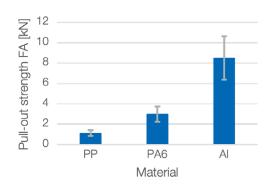
Torques and pull-out forces



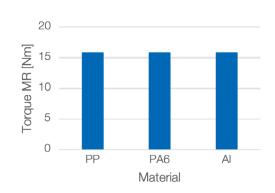


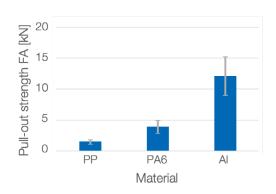
Sizes: M5 and D5



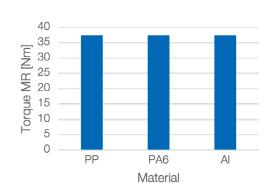


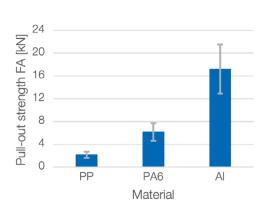
Sizes: M6 and D6





Size: M8





RIVKLE® – Hydropneumatic and battery-powered setting tools

RIVKLE® P2007



RIVKLE® NEO B 107



Maximum stroke	7.0 mm
Maximum setting force	21 kN
Operating air pressure	5.5-7.0 bar
Weight (without exchange unit)	2.2 kg
Sound level	< 70 dB(A)

Item code 2361 560 1000
Basic tools without interchangeable units.

Maximum stroke 7.5 mm
Maximum setting force 18 kN
Battery Makita Lithium-ion, 18 V, 1.5 Ah
Weight (without exchange unit) 2.27 kg
Sound level < 70 dB(A)

Item code 2361 730 1000
Basic tools without interchangeable units.

Processing with high process reliability

Our basis tools feature special functions to ensure the proper processing of SPREDLOC®.

Safe and ecofriendly solution

Reduce the environmental impact through the employment of this joining technology which requires neither exhaust nor cooling.

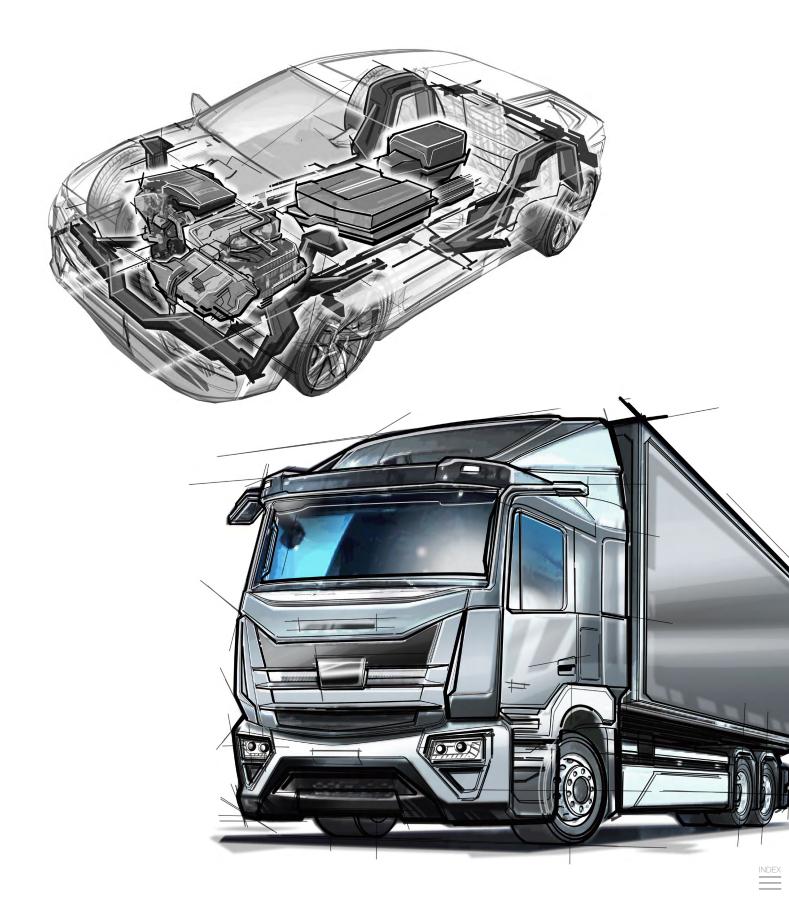
Simple to use

The easy-to-employ setting method combined with the simple tool adjustment allow a fast and easy integration of the SPREDLOC® technology into your processes with RIVKLE® processing systems.

Interchangeable units		D5	D6	M6	M8
Threaded mandrel		376 913 05 401	376 913 06 515	376 113 06 020	376 113 08 020
Nosepiece		376 113 05 030	376 113 06 030	376 113 06 030	376 113 08 030



The SPREDLOC $^{\otimes}$ technology can be employed for structural components in different industries such as in the automotive and commercial vehicle industry.



Competence leader in 360° Joining Technology

- so what does this mean for you?



As a family-run company, we have been creating successful joints since 1877. Whenever you want to join components or need special development parts, we are by your side. For that, we rely on our enthusiastic team who have product specific know-how, as well as on our 360° Joining Technology which stands for a wide portfolio of joining solutions, processing systems and services.

Innovation and development

- Modern methods, organisational forms and processes
- Trend analyses
- Research cooperations
- Open innovation
- In-house research and development
- Application engineering and consulting
- Customer-specific development parts
- Manufacture of samples and prototypes
- Value analyses

Logistics and quality

- Supply chain solutions
- Quality management according to IATF 16949
- Quality management according to EN 9100
- Distinctive quality and environmental awareness
 - Accreditation of the in-house laboratory according to DIN EN ISO/IEC 17025
 - Certification according to DIN EN ISO 14001
- Regular audits through customers

Procurement and assembly

- Engineering competence thanks to in-house production
- Fifteen modern production facilities worldwide
- Production methods:
 - Injection moulding
 - Turning
 - Cold working
 - Wire winding
 - Mechanical and plant engineering
- Acceleration of your assembly processes
- Wide range of manual and automated assembly solutions

Sales and services

- Efficient consulting, assistance and service
- Local experienced specialists
- Proximity to customers thanks to global presence
- After-sales service
- Expert seminars, training and workshops
- Online seminars
- Customer in-house fairs
- eShop



1 Product catalogues

RIVKLE®

Blind rivet nuts and studs Catalogue No 2307





www.boellhoff.com/en/pdf/rivkle



AMTEC®

Precision thread inserts for after-moulding joining in plastic components Catalogue No 0200



www.boellhoff.com/en/pdf/amtec



RIVKLE® Automation E

Efficient and reliable electrical processing system for RIVKLE® blind rivet nuts and studs

Catalogue No 2334



www.boellhoff.com/en/pdf/rivkle-automation-e



Product Guide

360° Joining Technology Catalogue No 1190



www.boellhoff.com/en/pdf/product-guide





RIVKLE®

Blind rivet nuts installation – setting process



www.boellhoff.com/video/rivkle-riveting-process



QUICKSERT® Hex

Efficient thread inserts for self-tapping insertion into polymers



www.boellhoff.com/video/quicksert-hex



RIVKLE® Automation E

Efficient and reliable electrical processing system for RIVKLE® blind rivet nuts and studs



www.boellhoff.com/video/rivkle-automation-e



SPREDLOC®

Precision threads in modern lightweight structures —efficient expansion anchoring with one-sided accessibility



www.boellhoff.com/video/spredloc



BOLLHOFF

Passion for successful joining.

Böllhoff GroupCompetence leader in 360° Joining Technology

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

