



RIFAST® SEB

FOR COMPONENT WITH
THICKNESSES BETWEEN
1.1 AND 5.0 MM

LIGHTWEIGHT & CLEARANCE FIT SOLUTIONS – Technical Product Sheet

RIFAST® SEB FLUSH MOUNT STAKING BOLT

The compact flush mount staking bolt product line without head protrusion mechanically joined to metal components by means of automated insertion technology

› THE RIFAST® SYSTEMS ADVANTAGE

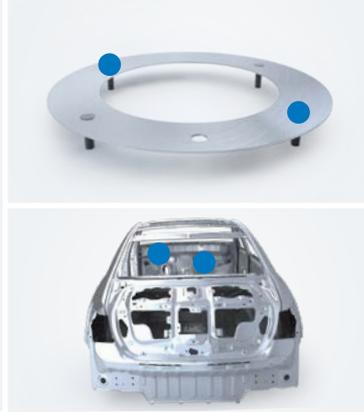
Systems expertise from designing, manufacturing clinch fasteners and automation equipment to consultation and realization in serial production

With over 25 years of expertise as a full system provider RIFAST® is the partner for developing economical solutions for reliable integration of mechanically joined clinch fasteners. The systems approach of clinch fasteners through automation equipment for in-die and off-line operations guarantees the optimal joint connection. The mechanical joining with the RIFAST® staking die designed to the customer component ensures consistent performance values in addition to eliminating thermal influences and distortions observed during welding.

› THE RIFAST® STAKING BOLT ADVANTAGE

Maximum weight-optimization, space-savings and secure

With its compact, space-saving lightweight design, the RIFAST® flush mount staking bolt is the proven solution for tight installation spaces. Whether this is with steels, aluminum or copper alloys, the staking bolt delivers no protrusion on the component upper side and flat contact surface for attachment of mating parts (no protrusion on component underside after joining process). Available with different thread ends in accordance with DIN EN ISO 4753. The RIFAST® SEB is the solution for components with thicknesses between 1.1 and 5.0 mm.



◀ Application examples
 RIFAST® SEB
 i.e. roof frames, cable
 connections

▶ TECHNICAL DATA

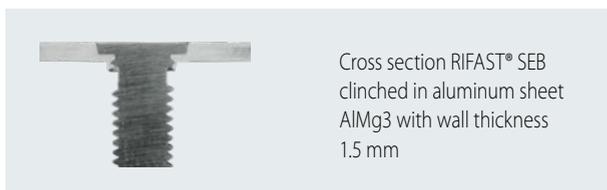
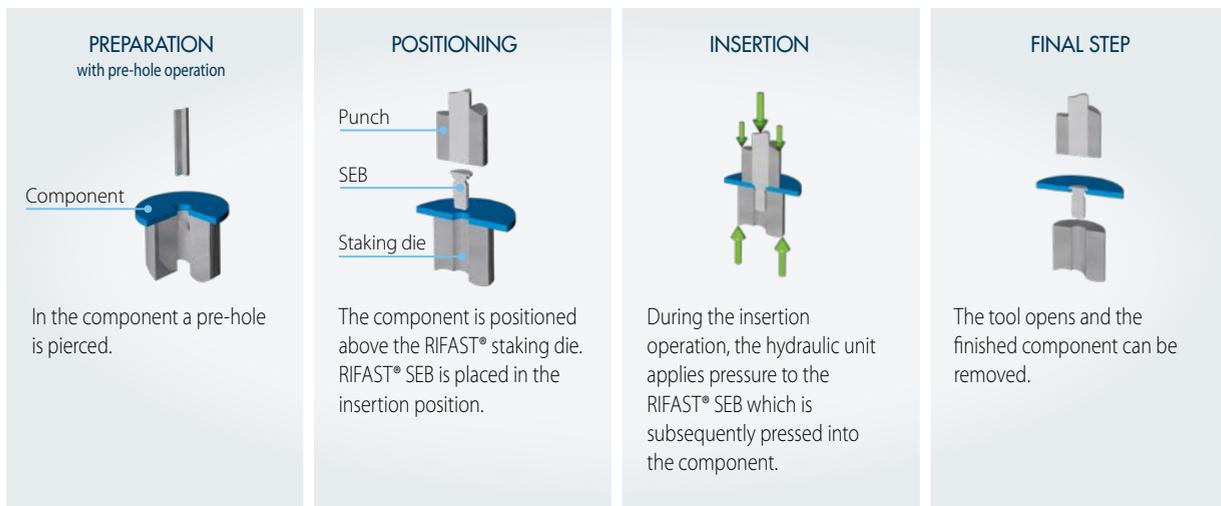
Thread Sizes	M5, M6, M8		
Strength Grade	10.9		
Surface Coating	OEM-approved coatings		
RIFAST® Standard	WN 10330 (SEB)		
Tensile Strength	150 - 600 N/mm ²		
Component Materials	Steels, aluminum alloys		
Automation Equipment	Press, C-Frame (automatic or manual)		

Thread Size	M5	M6	M8
Application Thickness (mm)	1.1 - 5.0	1.1 - 5.0	1.1 - 5.0
Push-Out in 2.0 mm (kN) ¹	1.6	1.9	2.0
Torque-Out in 2.0 mm (Nm) ¹	9	14	29

¹ Performance values for reference, derived from destructive testing in a component made out of steel DC04 with a thickness of 2.0 mm by RIFAST® Application Engineering

Performance values for push-out and torque-out are dependent on the component material (steel, aluminum alloy, copper alloy), the application thickness and in combination with RIFAST® staking die. Performance values for other component materials and application thickness can be validated through RIFAST® Application Engineering.

▶ MECHANICAL JOINING PROCESS AND CROSS-SECTION



Cross section RIFAST® SEB
 clinched in aluminum sheet
 AlMg3 with wall thickness
 1.5 mm