

RIFAST® Fastening Systems

RIFAST® SOLUTIONS FOR ELECTROMOBILITY APPLICATIONS

DELIVERING FUNCTIONAL ELEMENTS AND
MECHANICAL JOINING TECHNOLOGIES
FOR AN ELECTRIFIED FUTURE

25
YEARS

rifast
INNOVATIONS
IN AUTOMATED
CLINCHING
SYSTEMS



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RIFAST® is a globally renowned manufacturer and designer of high-performance functional elements and automation equipment for joining metal parts like sheets, extrusions or castings.

Our RIFAST® One System Endless Possibilities promise is part of the success formula for tomorrow's transition to an electrified future. We leverage our organically grown expertise of sheet metal joining technologies, gained over two decades of continuous innovations and apply these proven solutions to e-mobility challenges.

RIFAST® CORE COMPETENCIES

- › IMPERMEABILITY
- › LIGHTWEIGHT
- › MIXED MATERIALS APPLICATION
- › COMPACT DESIGN
- › FULL SYSTEM INTEGRATION
- › INSTALLATION IN HIGH TENSILE STRENGTH STEEL

RIFAST® quality certified solutions excel in delivering cost savings achieved through the elimination of downstream processes, while delivering unparalleled performance. We prioritize the reduction of complexities for our customers – focusing on their vision. This direction has set the standard for our streamlined product portfolio, while simultaneously being optimized in addressing a diverse field of applications and positioning RIFAST® in covering all drivetrain variants: Battery Electric Vehicles, Hybrid Electric Vehicles and Combustion Engine.

The deliverance of proven excellence from a single source has awarded RIFAST® partnerships with leading forward thinking electromobility players, helping these innovators navigate the integration of joining technology into their manufacturing processes.

ENGINEERING AND SERVICES

Our system approach is a key differentiator that drives the success of our customers. RIFAST® engineers and technical service have years of experience within the field of joining metal parts for electric vehicles. From product development to proactive equipment maintenance our experts consult, optimize and outperform.

- › We [consult](#) in the product development, application engineering and equipment design.
- › Our engineers optimize and accredit our functional elements in state-of-the-art [application labs](#) ensuring reliable quality assurance.
- › RIFAST® technical service, having representation across three continents, outperform in delivering a full-service strategy maximizing operation performance. From the [installation and systems integration](#) to [preventative maintenance](#), cutting down significantly unexpected and costly automation equipment failure.

AUTOMATION EQUIPMENT

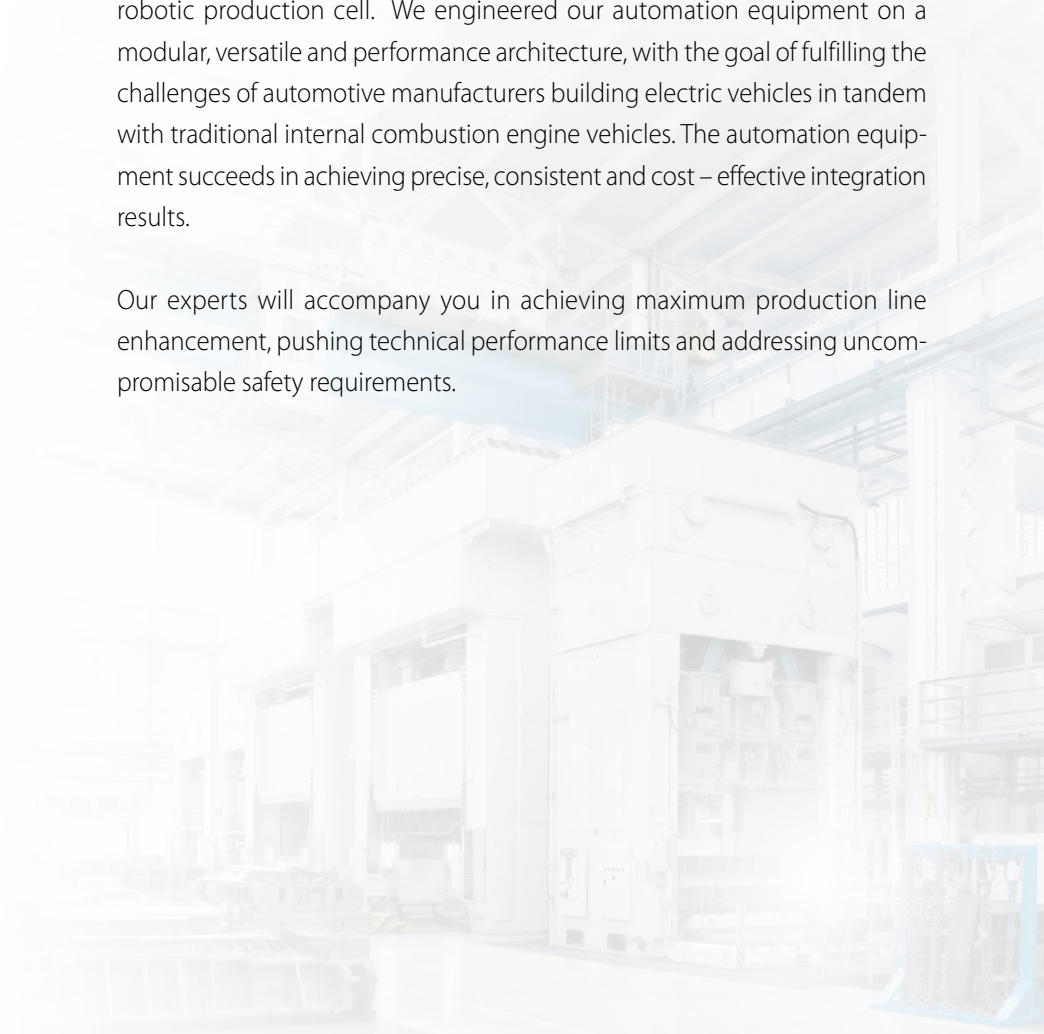
For the installation process RIFAST® automation equipment leads in the standard for joining technology delivering maximum position accuracy with minimal deformation.



- ▶ AUTOMATION EQUIPMENT
- ▶ FEEDING UNIT
- ▶ IN-DIE PUNCHING HEAD



RIFAST® C-Frame allows for the installation of our functional elements in a robotic production cell. We engineered our automation equipment on a modular, versatile and performance architecture, with the goal of fulfilling the challenges of automotive manufacturers building electric vehicles in tandem with traditional internal combustion engine vehicles. The automation equipment succeeds in achieving precise, consistent and cost – effective integration results.

Our experts will accompany you in achieving maximum production line enhancement, pushing technical performance limits and addressing uncompromisable safety requirements.



FUNCTIONAL ELEMENTS

Harmonizing with our comprehensive engineering and technical services, our RIFAST® functional elements and automation equipment are designed to address next – generation automotive demands, exhibiting outstanding installation performance in metal parts.

<p>EPB Staking bolt</p>	<p>Universal and versatile solution</p>	<p>0.75 mm - 2.50 mm</p>	<p>Rm 150 - 600 N/mm²</p>	
<p>DBB Thick sheet staking bolt</p>	<p>Universal and versatile solution for applications with high thickness</p>	<p>2.51 mm - 9.00 mm</p>	<p>Rm 150 - 600 N/mm²</p>	
<p>ENB Clinching bolt for high strength steel</p>	<p>Engineered for next-generation high and ultra-high strength steels</p>	<p>1.00 mm - 2.50 mm</p>	<p>Rm 600 - 2000 N/mm²</p>	
<p>SEB Flush mount staking bolt</p>	<p>Compact and precise product design with flat surface installation</p>	<p>1.00 mm - 5.00 mm</p>	<p>Rm 150 - 600 N/mm²</p>	
<p>STM Self piercing nut</p>	<p>Self piercing nut solution to reduce process cost</p>	<p>0.60 mm - 2.00 mm</p>	<p>Rm 150 - 600 N/mm²</p>	
<p>STM+ Self piercing nut plus</p>	<p>Self piercing nut solution for thicker materials</p>	<p>2.01 mm - 3.00 mm</p>	<p>Rm 150 - 600 N/mm²</p>	
<p>DBM Thick sheet metal nut</p>	<p>Universal and versatile solution for applications with high thickness</p>	<p>≥ 2.00 mm</p>	<p>Rm 150 - 600 N/mm²</p>	
<p>ENM Clinching nut for high strength steel</p>	<p>Engineered for next-generation high and ultra-high strength steels</p>	<p>1.00 mm - 2.50 mm</p>	<p>Rm 600 - 2000 N/mm²</p>	
<p>LBM Lightweight nut</p>	<p>Performs up to 75 percent weight reduction, depending on design</p>	<p>1.20 mm - 4.0 mm</p>	<p>Rm 150 - 350 N/mm²</p>	

Contact your RIFAST® sales representative for additional specifications details, complete product portfolio and customizations

WE CONNECT THE WORLD

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