



Technical Product Sheet

RIFAST® C-FRAME WITH PNEUMO-HYDRAULIC DRIVE

Standardized modular design for installations in the body shop

› THE RIFAST® SYSTEMS ADVANTAGE

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

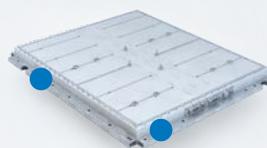
With over 25 years of expertise as a full system provider RIFAST® is the partner for developing economical solutions for reliable integration of mechanically joined clinch fasteners. The systems approach of clinch fasteners through automation equipment for in-die and off-line operations guarantees the 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® C-FRAME WITH PNEUMO-HYDRAULIC DRIVE

High standardization, proven, universal

RIFAST® C-Frames are characterized through high standardization and modular design. This allows the customer to select the right C-Frame for the respective application. Whether it's a full-automatic C-Frame for body frame construction in a robot cell, as a semi-automatic workstation, or as a flexible manual workstation. The RIFAST® C-Frame product program always offers the right solution for your application.

The pneumo-hydraulic drives are available with up to 320 kN, with the manual workstation being offered in a 159 kN variation available with integrated safety system.



◀ Application examples
RIFAST® C-Frame

› THE RIFAST® C-FRAME WITH PNEUMO-HYDRAULIC DRIVE ADVANTAGE

- High standardization → economic pricing, shorter lead times, long product lifetime thanks to robust and proven components
- Modular design → flexible usage for different customer applications and different RIFAST® clinch fasteners
- Universal tool carrier → flexible usage for various applications
- Optional remote diagnostic router allows for diagnosing of the C-Frame including remote consultation on trouble shooting
- QR code on the nameplate enables quick and easy access to technical documents for the C-frame on the RIBE server

› TECHNICAL DATA

| | CSH | CSH Semi | CSM / CSB |
|------------------------------------|---|---|---|
| |  |  |  |
| Application | Universal manual workstation for prototype and small series production | Semi-automatic workstation for small series production | Full-automatic C-Frame for integration in a robot cell |
| Drive | 159 kN drive with additional safety system | Up to 320 kN drive with additional safety system | Up to 320 kN drive without safety system |
| Safety technology | Protective sleeve | Protective sleeve | Integration within safety circuit of customer robot cell |
| Operational speed | 50 mm/s | 50 mm/s | Up to 150 mm/s |
| Cycle time without handling | 8 – 10 s | 8 – 10 s | 5 s |
| Tool carrier | <ul style="list-style-type: none"> • Easy replacement • For various CF1 | <ul style="list-style-type: none"> • With downholder function • For (1) CF1 • Convertible to other CF1 | <ul style="list-style-type: none"> • With downholder function • For (1) CF1 |
| Feeding functional element | Manual | Automatic through feeding unit | Automatic through feeding unit |
| Component handling | Manual | Manual | Robot |

CF1 = functional elements

By using RIFAST® automation equipment for the installation of RIFAST® clinch fasteners, the optimal connection with the customer parts can be achieved.