

Technical Product Sheet

RIFAST® FEEDING UNITS FOR PRESS TOOLS

Consistent performance through proven design and intuitive operation

› THE RIFAST® SYSTEMS ADVANTAGE

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

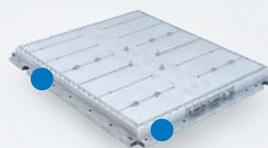
With over 25 years of expertise as a full system provider RIFAST® is the partner for developing economical solutions for reliable integration of mechanically joined clinch fasteners. The systems approach of clinch fasteners through automation equipment for front and on the press table, guarantee the optimal joint connection. The mechanical joining with the RIFAST® staking die designed to the customer component, deliver on assured performance values eliminating thermal influences and distortions.

› THE RIFAST® FEEDING UNITS

High standardization, consistent performance, low maintenance and intuitive operation

For the processing under the press there are two type of feeding units available. The widely adopted feeding unit which is placed in front of the press or the feeding unit which can be placed on the press table.

Through continuous improvement of RIFAST® feeding units, we have been able to eliminate the use of compressed air selection and sorting devices on our nut feeders (ZEM und ZPM). In addition, with the patented milled nut conveyor bowl up to four lanes can be supplied.



Application examples
RIFAST® ZE

THE RIFAST® FEEDING UNIT ADVANTAGE

- Consistent performance through the use of robust and low-maintenance components
- Simple, intuitive operation through HMI
- Automatic detection of the connected punching heads or junction boxes, allowing for quick tool set-up and reduced risk of crashes
- In combination with tool sensor technology, "idle strokes" can be implemented with ease
- Light feeding hoses due to clinch fasteners being individually supplied into the tooling
- Oil-free feeding of the clinch fasteners into the tooling
- Gentle conveying of elements achieved through feeder bowl surface coating or plastic feeder bowls
- Energy conservation through the elimination of compressed air selection and sorting devices and automatic element return into the bowl without the use of air blow-off for ZEM and ZPM
- Mechanical component reduction through the use of (1) 4-track bowl instead of (2) 2-track bowls with ZEM and ZPM
- QR code on the nameplate enables for quick and easy access to technical documentations for the C-frame on the RIBE server
- Optional remote diagnostic router allows for diagnostics for feeding units including consultation on trouble shooting
- Transparent documentation of process events
- Every feeding unit is tested prior to shipment and integration

Typ	ZEB / ZEM	ZPB / ZPM
		
Placement	In front of press	On the press table
Maximum number of tool strokes	ZEB: 36 strokes/min with 5 m feed hoses ZEM: 40 strokes/min with 5 m feed hoses	ZPB 20 strokes/min with 5 m feed hoses ZPM 40 strokes/min with 5 m feed hoses
Conveyor	Up to two conveyors with each having 25 kg payload	Up to two conveyors with each having 60 kg payload
Vibratory bowl technology	ZEB: up to two metal feeder bowls ZEM: one milled plastic feeder bowl	ZPB: one milled plastic feeder bowl ZPM: one milled plastic feeder bowl
Number of tracks	Up to 4 with standard housing	Up to 4 with standard housing
Feed hose length	Up to 10 meter	Up to 10 meter
Clinch fasteners	All RIFAST® clinch fasteners from M5 to M14	All RIFAST® clinch fasteners from M5 to M8