



Technical Product Sheet

RIFAST® IN-DIE PUNCHING HEADS

Proven in-die punching heads for progressive dies, transfer dies, tandem dies and presses

› 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 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.

› RIFAST® IN-DIE PUNCHING HEADS ARE AVAILABLE IN 3 DIFFERENT VARIATIONS

CLASSIC FIT: in-die punching heads for bolts (VMB) and nuts (VMM)

- Proven and reliable technology
- High standardization
- For RIFAST® bolt and nut functional elements

COMPACT FIT: in-die punching head for nuts (VKM)

- High flexibility for large tools through flexible intermediate hose
- Compact design of the linear advance and plunger end tooling allows for easy integration into customer stamping die
- Weight savings compared to similar VMM
- Available for RIFAST® nut functional elements



Application examples
RIFAST® VM

COMPLEX FIT: in-die punching head for horizontal insertion of nuts (VQM)

- For the horizontal insertion of nut clinch fasteners also in tight spaces and undercut stamping sections
- Perfect combination of proven standard components from VMM with special assemblies for horizontal insertion
- Available for RIFAST® clinch nuts

» **THE RIFAST® IN-DIE PUNCHING HEAD ADVANTAGE**

- For every tool RIFAST® offers the suitable in-die punching head solution
- Vertical insertion (from above and below) or horizontal insertion through cam slides
- Detection for functional element in insertion position, eliminates tool crash in automatic mode
- Coverage of long distances achieved through the flexible feed hoses in the tooling
- In combination with RIFAST® automation equipment, the optimal join of RIFAST® clinch fasteners is guaranteed
- QR code on the nameplate enables quick and easy access to technical documents for the punching heads on the RIBE server

Type	VMB / VMM	VKM	VQM
			
Compatible feeding unit	VMB with ZEB or ZPB VMM with ZEM or ZPM	with ZEM and ZPM	with ZEM and ZPM

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