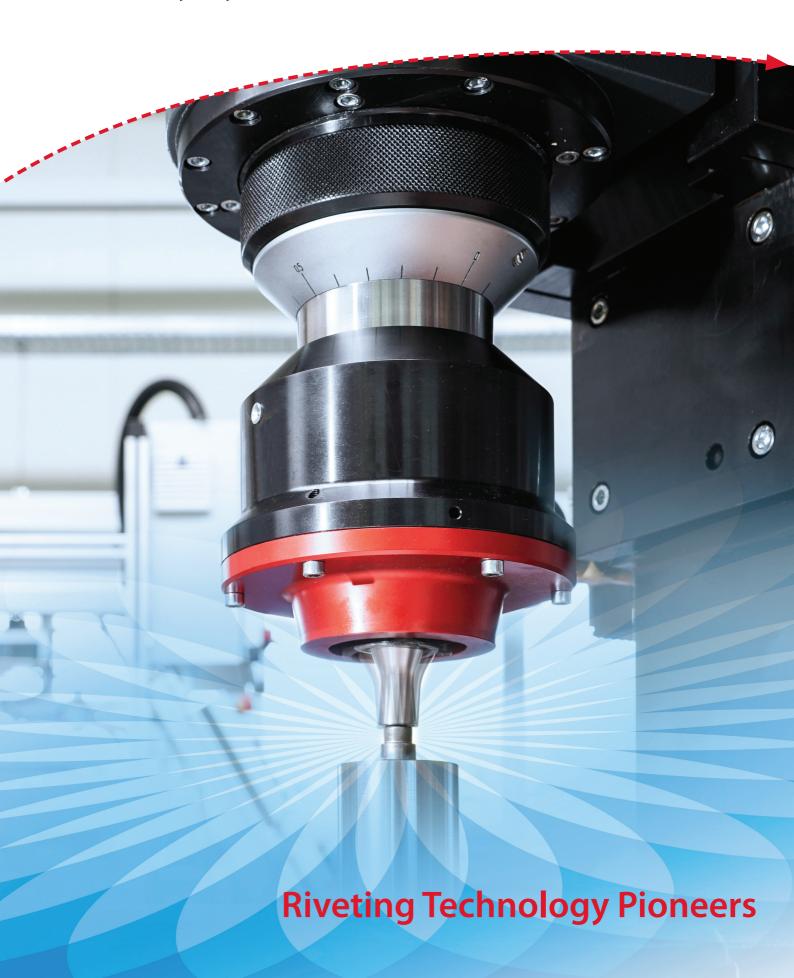
Riveting Machines Assembly Systems







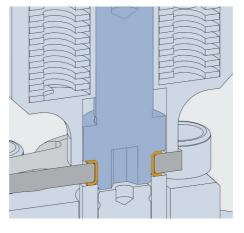
FMW Friedrich provides individual solutions for various industries and a variety of applications and requirements.

Hood/door hinges

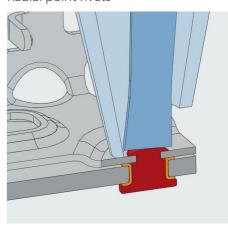
Articulated joints for hood or door hinges are made using plain bearing bushes and step rivets.



Bushings



Radial point rivets



Other applications

Brake pad retaining clips • Drive kinematics for throttle valve • Seat belt

buckles • Windscreen wipers • Cluches• Ball bearings • Steering column

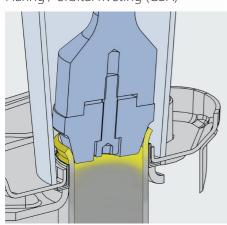


Seat bases

To maintain the required stability, the side parts are connected by large-diameter tubes and reliably flared with GBA technology.



Flaring / orbital riveting (GBA)

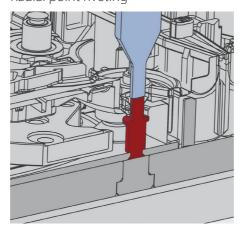


Door locks

A car door lock involves many different riveting tasks, which are perfectly solved with FMW's radial point riveting technology.



Radial point riveting

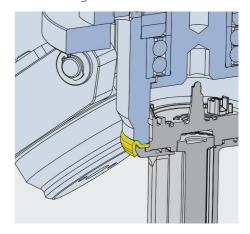


Seat belt tensioners

Safety-related components such as belt tensioner systems are reliably joined with customized roll-forming heads.



Roll-forming



- Workpiece
- FMW tool
- Rivet
- Bushing
- Deformation zone

- Handbrake Spoiler kinematics
- Gearbox components Sunroof

guidance • Joints for folding tops of convertibles • Battery housing



Number punches

With FMW's radial riveting point technology, specialized riveting dies make it possible to emboss letters, numbers and logos.

Toggle clamps

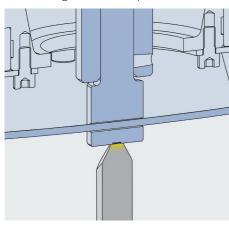
In a multi-articulated joint, the precision of the riveted joint is extremely important to achieve a firm yet flexible result.

Surgical instruments

With FMW riveting machines, rivets in the micrometer range for medical applications are a cinch.

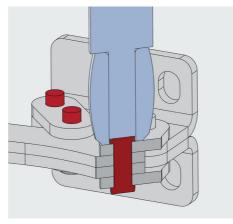


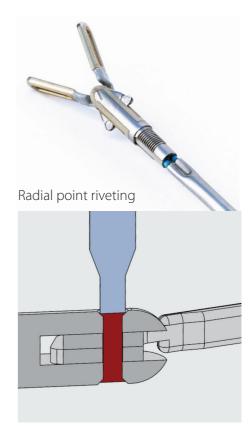
Embossing with radial point





Radial point riveting





Other applications:

Tongs • Chainsaw chains • Heavy duty castors • Ball bearings

Pump flanges • Valves • Piston

Sterile storage containers • rods Endoscopes • Biopsy forceps



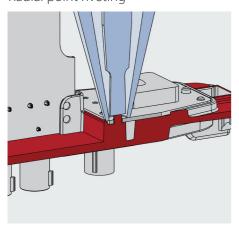


Roof antenna

FMW machines combine a variety of materials, e.g. circuit boards and cast housings, without damaging sensitive printed circuit boards.



Radial point riveting

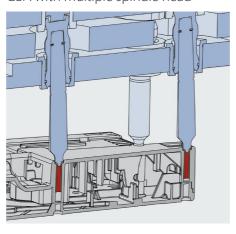


Automatic switches

With our individually developed multi-spindle rivet heads, multiple rivet points can be riveted at the same time.



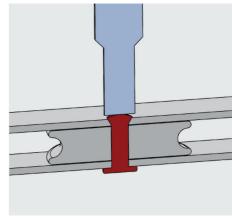
GBA with multiple spindle head



Guide carriages

Despite heavy-duty joints, FMW's radial point riveting technology ensures smooth movement for opening, closing, tilting or sliding.





Threaded nuts for circuit board screw joints • Sockets • Plugs

Coils • Radar sensors • Circuit breakers

Door locks • Door and window fittings • Hinges • Locking systems