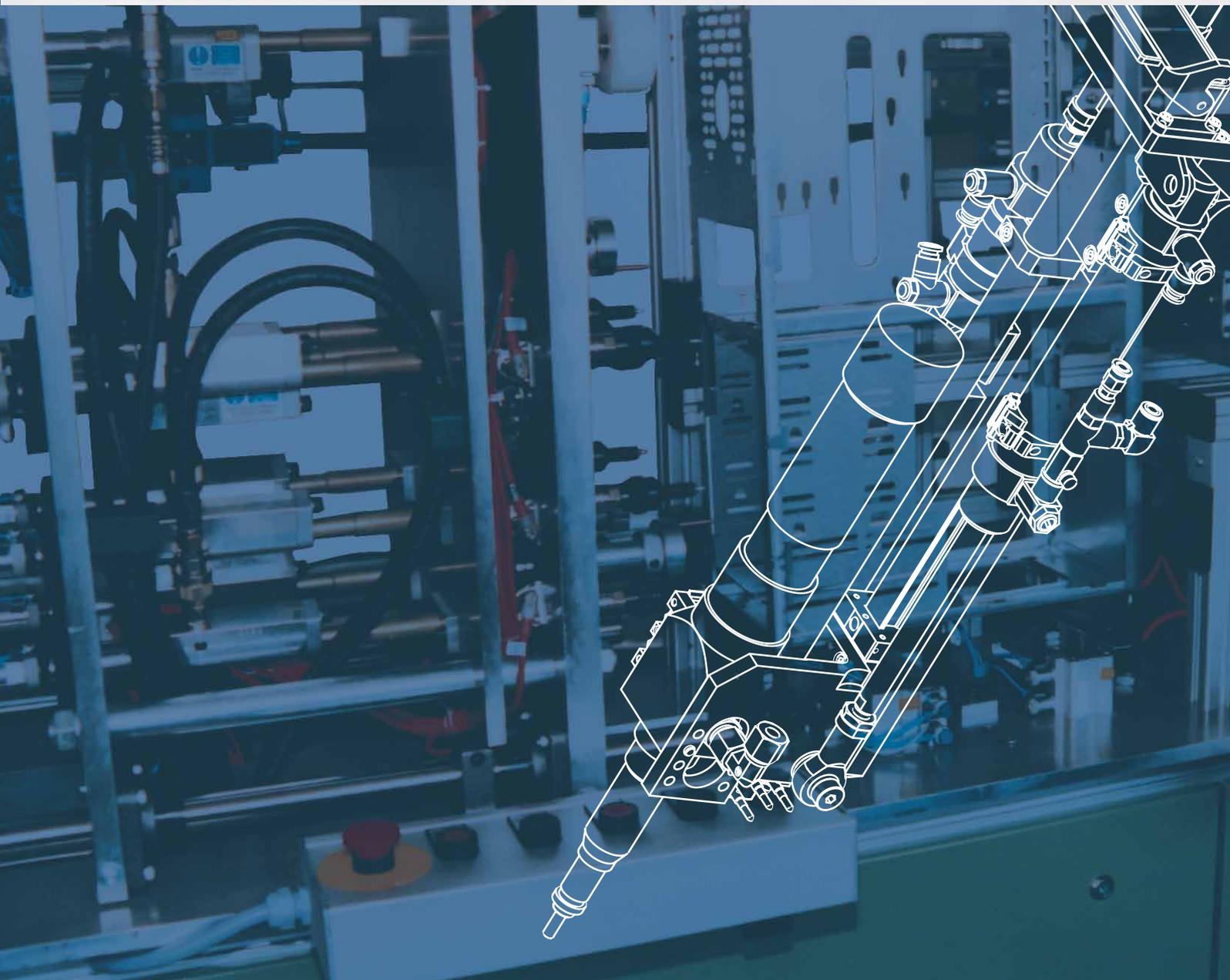


**STANLEY**  
Engineered Fastening



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# Automated Assembly Solutions

**POP**  **Avdel**

# Speed Fastening® Systems



## Single-head Workstations

- For ergonomic workplace layout
- Simple to operate
- High mobility
- Easy integration into the production process



Pantograph workstation



Underbench workstation



Suspended tool



Workstation with process control

## Multi-head Assembly Stations - Hydra® 1000

- Simultaneous installation of multiple fasteners maximises productivity and throughput
- Integrated component take-up devices reduce assembly time
- Component is loaded manually
- Virtually limitless configuration options
- May be used in combination with other riveting systems
- Modular system reduces maintenance costs
- Diagnostics provide quality control



Hydra 1000 offers e.g. for complete assembly of computer chassis



Adjustable 4-head MAS assembles two types of seat belt retractors; on two positions modules are adjustable against stopper



The Mini-MAS offers twin-head parallel assembly and linear adjusting for riveting pitches of 29 - 120 mm

## Full Automation - MIRS & PMP Systems

- Automatic assembly machines suitable for integration into new or existing production lines
- MIRS system designed for continuous riveting
- PMP system loads, parallel to riveting of the component, a second mandrel and presents it for exchange
- Rivet supply via bowl feeder
- Operator-free assembly solution
- Modular design with simple maintenance processes
- Diagnostic capability through operator interface



MIRS system with two riveting heads to assemble vacuum pump



PMP system - Speed Fastening® technology allows for cycle times of approx. 1 sec.

## Autoload Tool



Speed fasteners are installed with 753 tool. When all fasteners are spent the pistol is placed in the nest and the system automatically inserts a fully loaded replacement.

# Breakstem Systems



## Single-head Workstations

- Power tools can be suspended or mounted on a pantograph arm
- Other options include integration into the work bench and foot pedal operation
- Suspended tools, especially for vertical down riveting, with remote supply unit (pneumatic control, pressure intensifier, rivet stem extraction with stem collector)
- Stem extraction system remotely collects the stems and eliminates the need for emptying the stem collector bottle
- Easy integration into production process
- Ergonomic design



## Multi-head Assembly Stations - Hydra® 2000

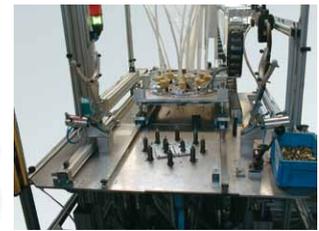
- Simultaneous installation of multiple fasteners maximises productivity and throughput
- Direction, type and number of riveting modules can be customised to customers requirements
- Components are loaded by hand
- Integrated fixtures reduce assembly time
- Process diagnostics can be easily integrated



Multiple riveting with automatic rivet feed and process monitoring



8-head station with adjustable rivet modules for the assembly of transformer and starter to base plate of fluorescent lamp



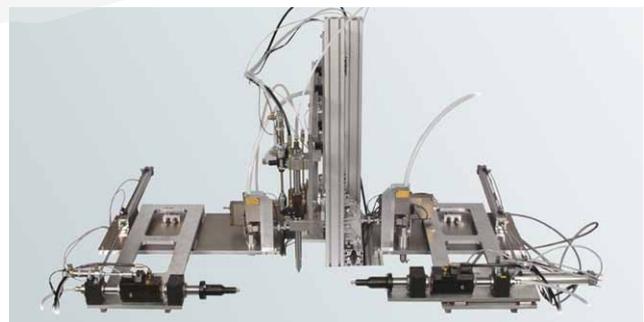
12-head station for the assembly of laundry dryer components; automatic fastener feed

## Full Automation - Viking® & Avimat®

- Especially designed for use in automatic production processes
- Can be used in combination with robots, NC-axis or other transfer systems
- Fully automatic fastener feed
- The riveting cycle is completely monitored by SPC and visualised on the operator interface
- Process diagnostic options by monitoring system



**Avimat® automated assembly system**  
The compact, lightweight placing head can be mounted separately and work in any position - for maximum production flexibility



Viking® system for installation of Avseal® II sealing plugs from three sides

## Rivet Presenter



### Rotary bowl rivet feeding system

Used in conjunction with our rivet tools the Rivet Presenter System offers single-handed, high-speed rivet feeding and setting.

- Feeder bowl capacity up to 1000 rivets; refilled in a few seconds
- Significant reductions in riveting cycle times possible
- Manual rivet feeding is eliminated enabling a white glove environment
- Single-handed operation leaves one hand free for other operations
- Enclosed feeder bowl and stem collection help keep working environment free from spilt rivets and stems
- For use with 3.2 mm - 4.8 mm (1/8" - 3/16") rivets

# Blind Threaded Inserts Systems



## Single-head Workstations

- Suspended tool for ergonomical handling of vertical processing positions
- The trigger is integrated in the handhold of the tool barrel
- Can be mounted on a pantograph arm for easy positioning of the tool



Mounted on a pantograph arm

## Multi-head Assembly Stations - Hydra® 3000

- Simultaneous placement of multiple threaded inserts maximises productivity and throughput
- Inserts are fed by hand and automatically threaded onto the drive screw
- The inserts provide practical jig points for the components
- Integrated component take-up devices reduce assembly time
- Diagnostics provide quality control
- Process monitoring or clamping devices can be easily integrated



Station for installation of 6 blind threaded inserts in retaining plate for window lifter motor. Protection cover with integrated clamping device and riveting release. Inductive sensor identifies if it is a right or left component. Process diagnostics check if an insert is present and was installed.

## Full Automation - Autosert®

- The modular design of placing head and blow feed unit with PLC control cabinet of the Autosert® automated assembly system allows for fast and easy integration into assembly lines
- Will work as a stand alone unit
- The low weight and compact design of the placing head simplify handling
- Due to the large insertion depth the inserts can also be used in difficult to access areas of the component
- Self-correcting programme functions, e.g. the evacuation system that automatically senses and ejects inserts with damaged threads in a separate collecting box.
- Also available as multi-head machine for simultaneous fastener placing



The unit consists of placing head and supply unit with integrated control unit



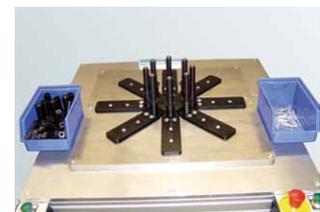
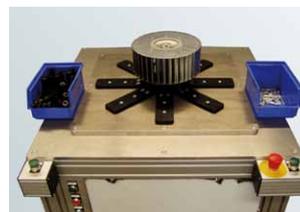
Autosert® placing head mounted on robot arm

## Lockbolt Systems



## Multi-head Assembly Stations

- Even while using two-piece lockbolt systems a simultaneous installation of multiple fasteners is possible
- Direction, type and number of placing heads is customised to the requirements of the application
- Collars and bolts are fed by hand and the components are placed on the riveting modules, all parts are manually loaded
- Hydraulic power units provide simultaneous installation of the bolts



8-head machine with bimanual control for assembly of fan wheels. Riveting modules are rapidly adjustable in a pitch circle  $\varnothing$  of 145-225 mm. Quick resetting to different pitch circle diameters.

