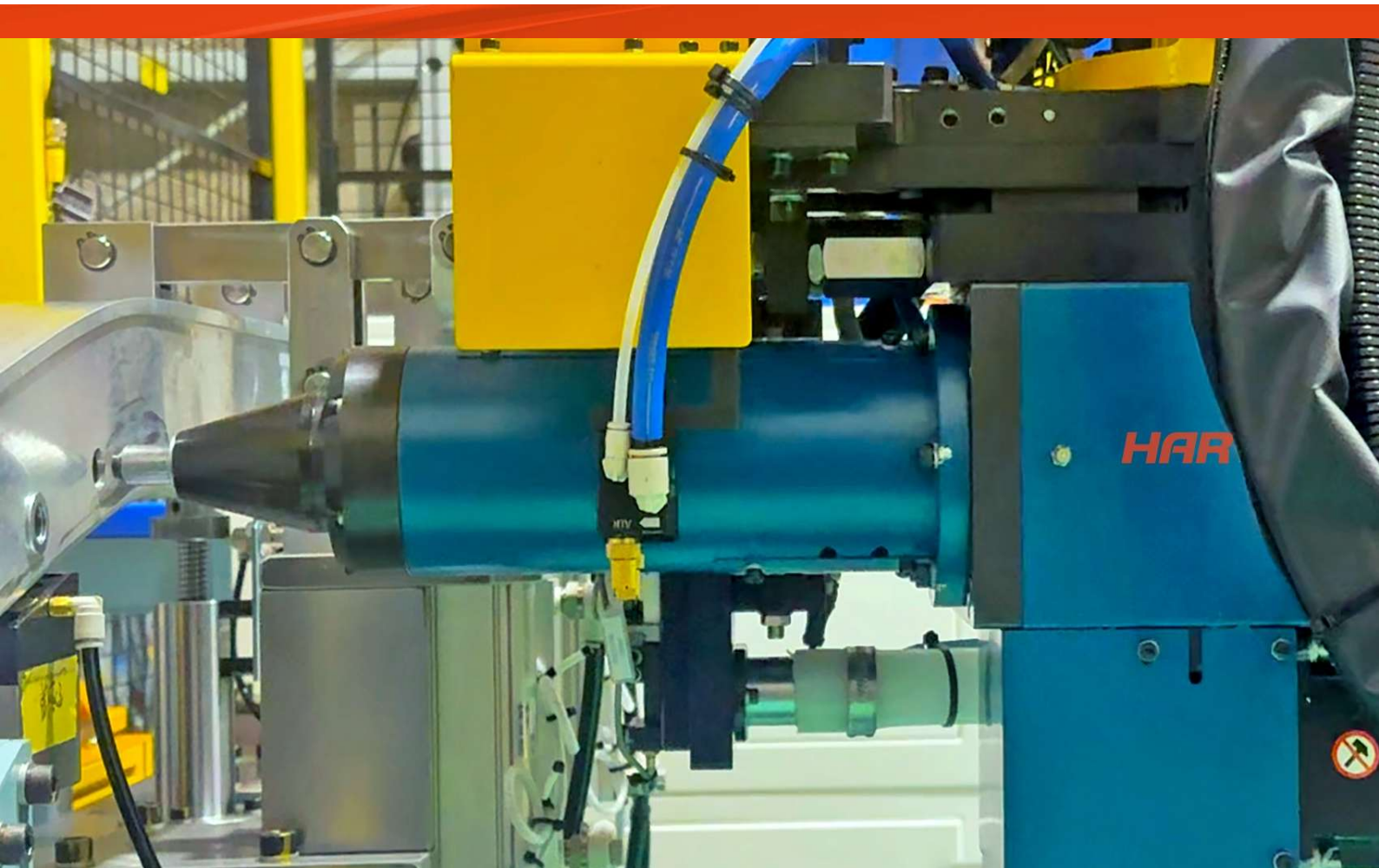
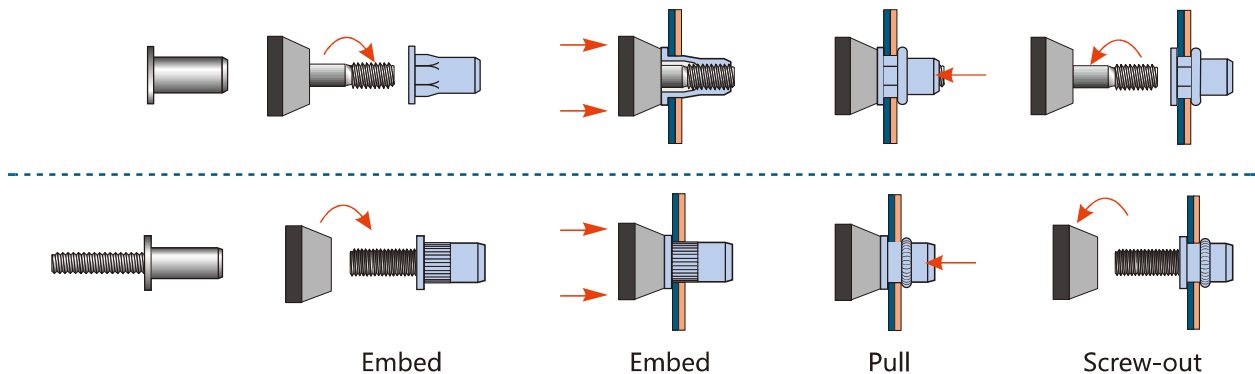
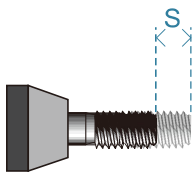




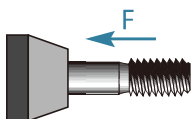


Riveting Control Solutions



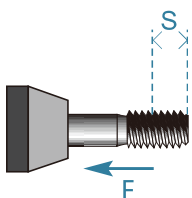
Stroke Control Mode - based on preset stroke parameters

- Ideal for materials with consistent and uniform thickness
- Fast and simple operation



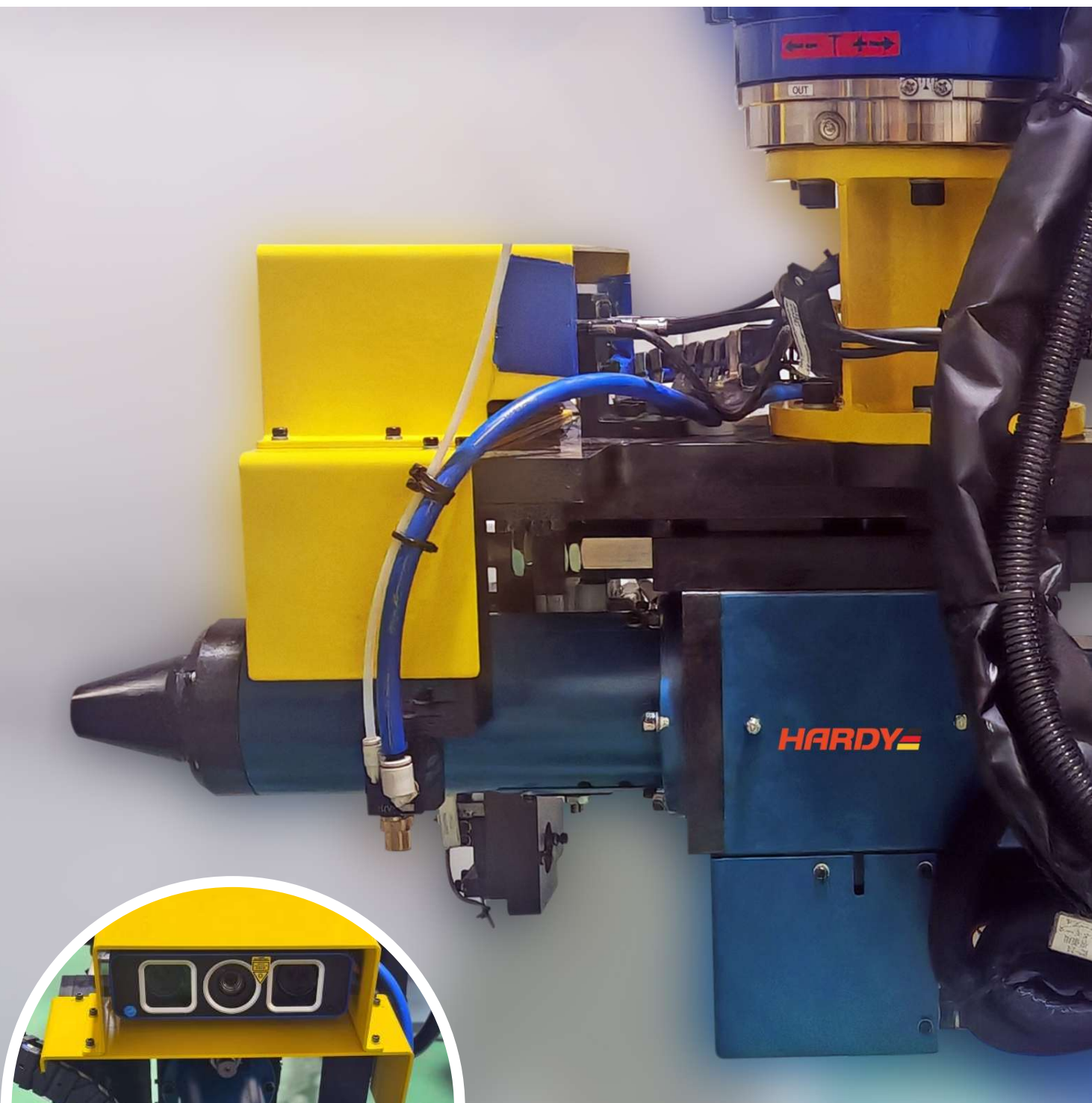
Pressure Control Mode - based on preset riveting force

- Provides stable riveting for materials with thickness variations
- Force sensors enable quality monitoring



Pressure-Stroke Hybrid Control - Simultaneously monitors force and displacement

- Delivers optimal adaptive riveting for variable material thickness
- Enhanced quality control with graphical data visualization & dataization of all riveting anomalies
- Multiple program storage for automatic product changeover
- Maintenance logs for optimal mandrel life management
- Single tool compatibility with various rivet nut specifications



**3D Vision Guidance +
Fully Automatic Servo-Controlled
Rivet Nut Joining System**

Features:

- Patented Floating Rivet Head Design, enables self-adaptive alignment in X/Y axis and angular compensation
- Achieves adaptive riveting for sheet metal assemblies
- Dual Servo Drive System – Provides full-process monitoring during riveting operations.
- Max. 60kN Pull Riveting Force – Meets all pull riveting requirements for M16 and smaller specifications.
- Quick-Change Head

Technical Parameters

Applicable rivet nut/stud	≤M16 (Applicable to rivet nut materials: stainless steel, steel, aluminum)
Applicable sheet thickness	≤14mm
Setting force	≤ 60kN
Setting accuracy	1N
Displacement control accuracy	0.01mm
Driving power	Dual servo system
Power supply	380V/50Hz
Bus Communication Protocol	EtherNet/IP,ProfiNet,DeviceNet etc.



- Standardize "embedded PC" control
- Standard HMI Features for parameter configuration, data curve display, error alarm notification
- Simple and intuitive interface, password protected access levels
- The riveting process is automatically monitored to ensure the quality of riveting
- Critical data acquisition uploads to plant MES for product quality assurance.
- Multiple communication protocols such as EtherNet/ IP, PROFINET, DeviceNet, CC-Link etc.



Automatic fastener feeding system



Features:

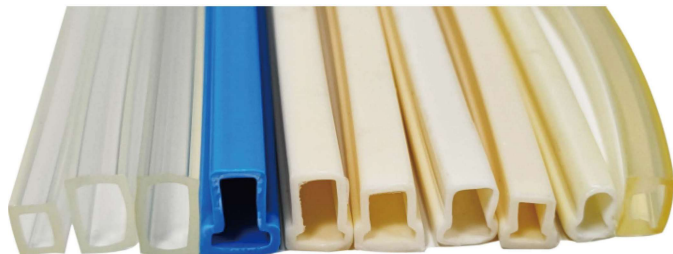
- Direct Blow **fasteners** to Rivet tool Nozzle
- Simplified & Stable Design
- Customizable Feed **tracks** to **ensure full fastener adaptability**
- Modular components for easy maintenance repair



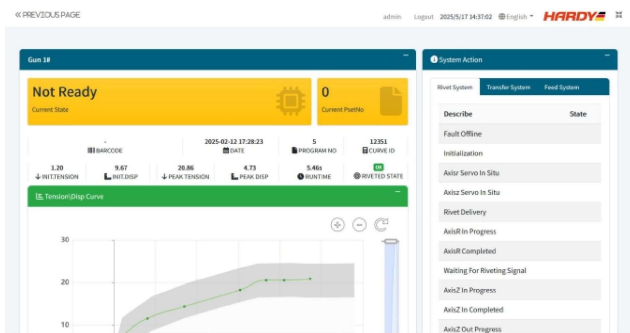
Feeding hose

Features:

- **Multiple specifications**
- **Remote transmission**



Software **HARDY**



Status display

Program No

MP-000

○ Thread.Dia(D)

M12

mm

□ Material

Steel

mm

■ Nut.Length(L)

26.7

mm

■ Length(T)

10

mm

■ Nut.Pitch

1.5

mm

⚙ Init.Rivet.Speed
(0-0/s)

10

mm/s

⚙ Init.Rivet.Force
(0-0kN)

0.8

kN

⚙ Rivet.Speed
(0-0mm/s)

10

mm/s

⚙ Rivet.Force
(0-0kN)

20

kN

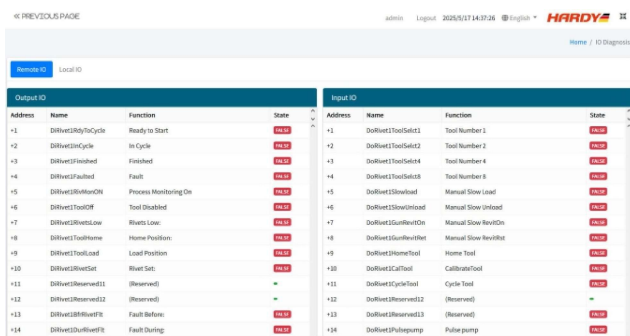
⚙ Rivet.Disp
(0-0mm/s)

6

mm

Save

Quick program settings



IO Definition



Curve analysis

[illegible]

Data acquisition