HDRMS/HDRCS

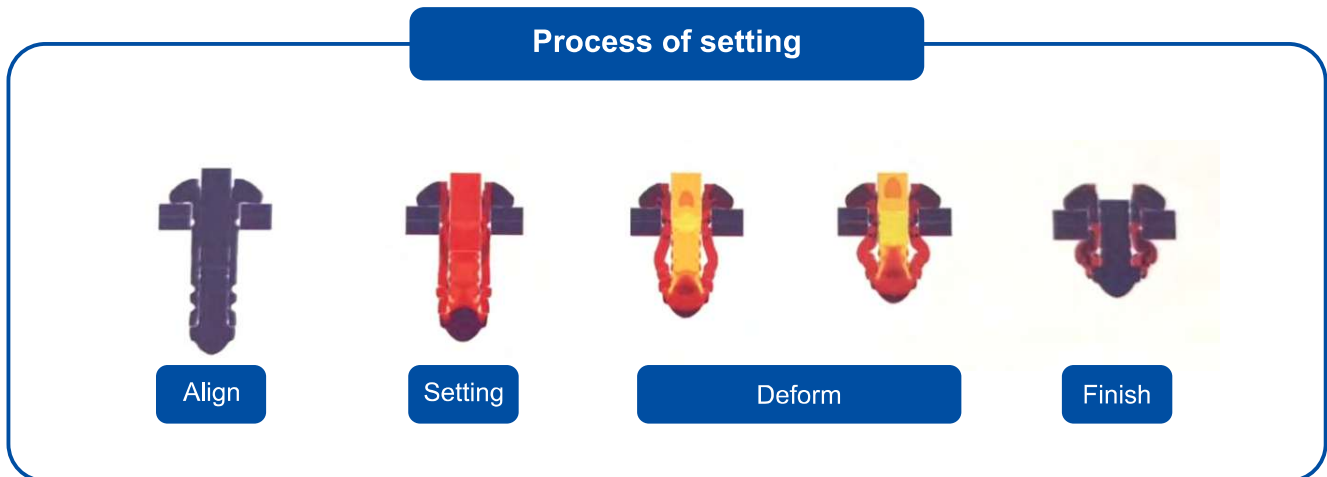# Handheld Rivet/rivet nut setting system

Automatic fastener feeding system

Brief introduction to the setting process of blind rivets

Process of setting

| Align | Setting | Deform | Finish |

Technical features:

Single-Sided Setting

The unique feature of blind riveting is that it only requires access from one side of the workpiece, making it ideal for confined spaces. In contrast, screw fastening, hammer riveting, and press riveting require access to both sides.

High Strength & Vibration Resistance

A blind rivet consists of two parts: the rivet body and the mandrel. During setting, the tool's pulling jaw draws the mandrel, expanding the rivet body into place. The mandrel then breaks at a pre-set breaking point and is acquired via a vacuum tube. The remaining mandrel stub provides high clamping force, offering excellent tensile and shear resistance.

Universal Applicability

Blind rivets are available in various designs, materials, forms, lengths, and colors. Depending on the application, users can choose from standard off-the-shelf rivets or custom-engineered rivets for specialized requirements.

Technology of Handheld blind rivet/rivet nut setting system

The unique feature of blind riveting is that it only requires access from one side of the workpiece, making it ideal for confined spaces. In contrast, screw fastening, hammer riveting, and press riveting require access to both sides.

Functional Features

- Automatic Fastener Feeding – Easy operation with vacuum pickup system
- Short Cycle Time – High productivity
- Maintenance-Free Design – Extended service life
- Overpressure Protection – Prevents pneumatic system damage
- Optional:
  Online In-Process Rivet Quality monitoring and management
  Fully Automatic Feeding + Online monitoring and management

Main parameters

Model	Blind rivets mm	Weight kg	Air pressure bar	Stroke mm	Setting force kN(6bar)
HDPA-5T	2.4-5.0	1.6	5-7	18	11
HDPA-6T	3.2-6.4	1.9	5-7	25	18
HDPA-8T	3.2-6.4	2.0	5-7	19	23

Handheld Rivet setting monitor/control system

HDRMS

Optional: Pressure-Stabilized Boosting
Control System

HDRCS
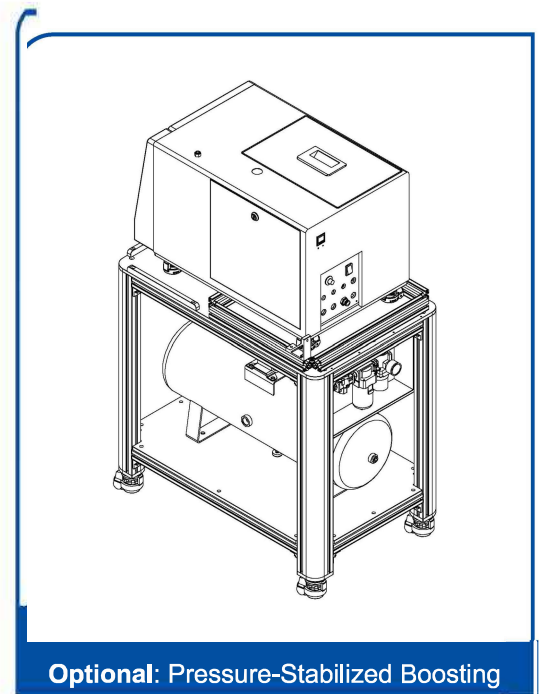
# Handheld Rivet nut setting control system

Working Range

- Compatible with all-material blind rivets (Ø4.8mm–6.4mm)
- Real-time quality monitoring via: Displacement-force curve analysis
- Storage, query, acquisition, and upload of quality data curves
- Automatic feeding system: High-capacity magazine (500–1,000 rivets)

Technical parameters

Specification	Parameters	Unit
Pull Force Range	22KN/6bar (Max adjustable)	KN
Stroke Length	10 (Max adjustable)	mm
Applicable Rivets	Ø3.2~Ø6.4	mm
Tool Weight	2.5	KG
Cycle Time	3~5 (With fastener feeding (stroke-dependent operation)	S
Power Supply	AC220/50	V/Hz
Air Pressure	0.5~0.7	Mpa
Operating Temperature	0~45	℃
Storage Temperature	-10~50	℃
Relative Humidity	10~95	%
Noise Level	<75	dB(a)
Control System Protection	IP54	

Pressure-Stabilized Boosting Control System
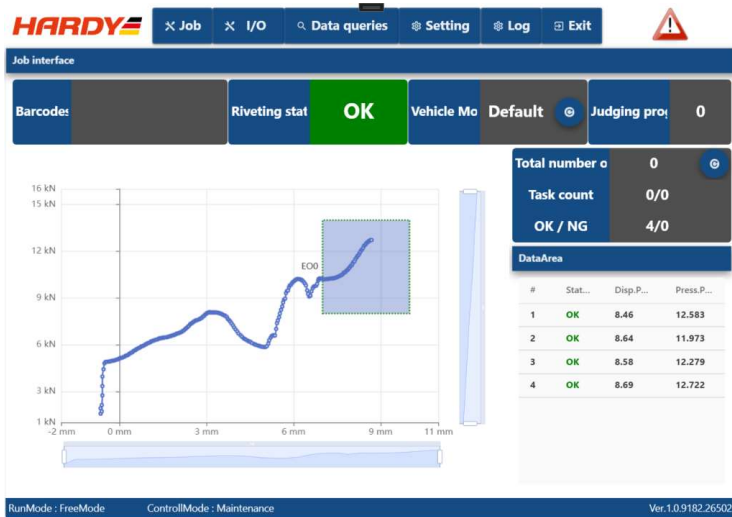

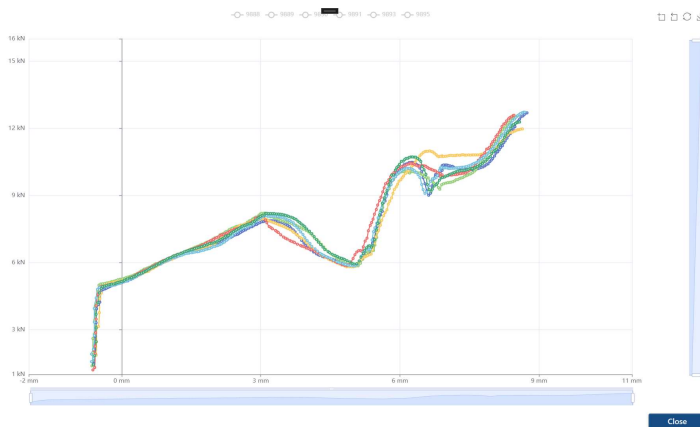# Dimension

749.2

493.5

870

850

880

450

550
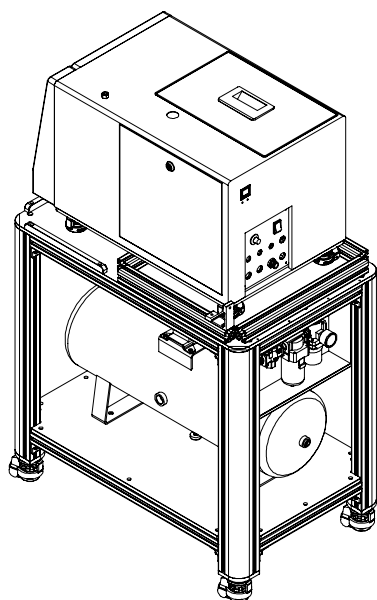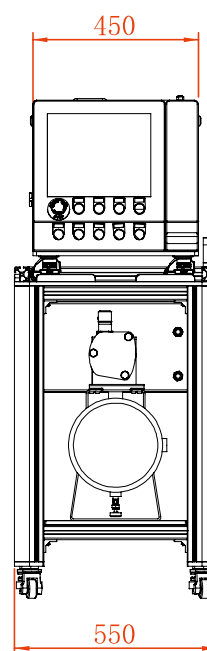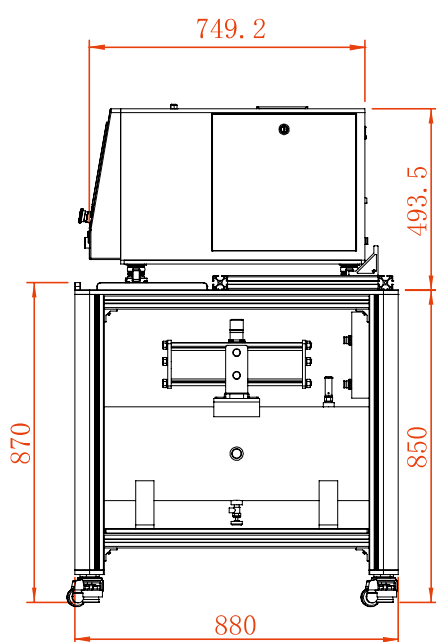
Software

Main Interface:

- Full-featured & Intuitive
- Alert of various posture states during device running
- Real time feedback on device running status
- Touchscreen + Keyboard/Mouse

Data Acquisition & Analysis:

- Process Data acquisition, Graphical Analytics
- Out-of-Tolerance Alarms