

ULTRASONIC PIN WELDER



ASTERION[®] PW

KEY FEATURES

- 01 Integrated Pin & Rivet Feeding System**
- 02 Low COO/High Throughput**
- 03 Long Life & Best COO Sonotrode**
- 04 Highly Repeatable Pin Placement**
- 05 Torsional Ultrasonic Transducer Minimizes Stress On Surrounding Components**
- 06 Low Particulate Generation**
- 07 Optional Material Handling System With Integrated Cleaning Station**

**YOUR ALLY IN
TECHNOLOGICAL
DISCOVERY,
ALWAYS.**

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SPECIFICATIONS

General:

Weld Area: 300mm (X) x 300mm (Y)
Weld Force, Max: 350N
Foot Print:
690mm (W) x 1430mm (D) x 2300mm (H);
1242mm (W) with MHS option
Ultrasonic Frequency: 20 kHz, Torsional
Ultrasonic Power, Max: 1,500 W
Pin Placement Repeatability: $\pm 40\mu\text{m}$ at 3σ
Sonotrode: K&S-designed
<i>Custom sizes based on Pin dimensions</i>
Weight: 820kg Uncrated
Facility Power Requirements (Electrical):
180-240VAC, Single Phase, 50/60 Hz, 15A Breaker,
3.0kVA with MHS Option
Facility Air Requirements:
0.4-0.7 Mpa CDA; 500 LPM with MHS Option
RoHS Compliant and CE Certified
OS: Windows 10

Pattern Recognition/Optics/Vision:

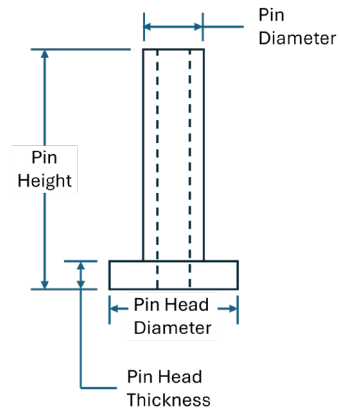
GS4 Image Acquisition & Processing System

Material Handling:

Automatic Pin Feeding system from bulk
Optional Inline or Mag-to-Mag carrier handler
Optional manual or automatic product
clamping with custom tooling
Cleaning station with ionizer
Support for 3rd party handlers using ePEI
Support for factory automation using SMEMA

Options:

SECS/GEM
WPM (Weld Process Monitor)
Strip Mapping
Consumables Verification
KNeXt



Pin Specifications

Pin Head Thickness	0.2mm to 0.5mm
Pin Head Diameter	1.8mm to 3.0mm
Pin Diameter	0.8mm to 1.32mm - hollow-center allowable (Rivet)
Pin Height	2.8mm to 20mm
Pin / Rivet Materials	Cu, Cu with coatings and Cu alloys
Substrate Materials	AMB, DBC, Cu and Cu with coatings



APPLICATIONS



For sales, service and manufacturing locations, visit www.kns.com

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WB-001-02/2025