



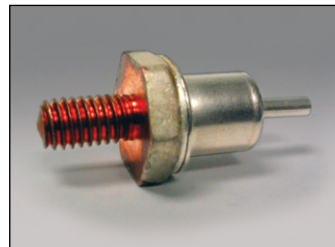
BENCHMARK® KN-200A Pneumatic Weld Head

The KN-200A weld head has been extensively proven in industrial environments around the world and is regarded as the “dependable workhorse” of the industry. Its proprietary fast force follow-up feature eliminates weld expulsion, preventing entrapment of ejected materials in projection welded electronic devices - a common cause of PIND (particle impact noise detection) failure. Dual cylinder design delivers over 4000 lbs of weld force. Designed to accommodate a variety of metal projection welding applications including sensors, frequency devices, filaments, heating elements, photonics packages, strain gauges and transducers.

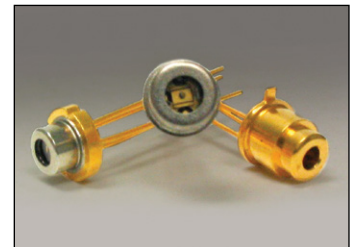
KEY FEATURES

- Robust, low maintenance die set design
- Fast force follow-up feature maintains force during weld, eliminating weld expulsion
- Rigid construction using a 25 micron matched linear ball bearing bushing and tie rod for precise positioning and planarity
- Simple actuation using the Benchmark® SS-100A pneumatic weld head controller
- Can be configured to be used with any manual or automated welding system

TYPICAL APPLICATIONS



Power devices



RF and hybrid devices



Automotive components

APPLICATIONS

- Opposed electrode welding applications which require fast follow-up to prevent material expulsion
- Welding ring or annular projections with a perimeter length ranging from 0.40 to 7.0 inches
- Microelectronic hermetic packaging cap to header welding requiring coplanarity

OPTIONAL FEATURES

- Integrated glovebox systems
- Vacuum - backfill options
- Integrated SS-100A weld head controller

ADVANTAGES

- Robust design
- Low maintenance
- Repeatability
- Worldwide support
- Industry proven products

TECHNICAL SPECIFICATIONS KN-200A

Part Number	KN-200A-SINGLE	KN-200A
Weld Force Range	250 - 1250 lb-F (113 - 568 kg-F)	250 - 4082 lb-F (113 - 1855 kg-F)
Throat Opening with electrode	1.32 in (33.5 mm)	1.32 in (33.5 mm)
Throat Depth	7.0 in (177.8 mm)	7.0 in (177.8 mm)
Cylinder Stroke	1.98 in (50.3 mm)	1.98 in (50.3 mm)
Weld force control	SS-100A/SINGLE	SS-100A
Electrode Holder	1 in (25.4 mm) diameter	2 in (50.8 mm) diameter
Electrodes	RWMA 3 and RWMA11	RWMA 3 and RWMA11
Dimensions (L x W x H)	14.9 in x 11.9 in x 19.8 in (377.9 mm x 301.5 mm x 502.7 mm)	14.9 in x 11.9 in x 23.4 in (377.9 mm x 301.5 mm x 594.9 mm)
Weight	95 lb (43.2 kg)	100 lb (45.5 kg)



*SS-100A pneumatic
weld head controller*

TECHNICAL SPECIFICATIONS SS-100A WELD HEAD CONTROLLER

Part Number	SS-100A/SINGLE	SS-100A
Application	Single cylinder weld head	Dual cylinder weld head
Input Voltage	100 - 120VAC / 10A	
Weld Initiate	Pressure locked Anti Tie Down Palm Switches	
Dimensions (L x W x H)	12 in x 15 in x 24 in (305 mm x 380 mm x 610 mm)	
Weight	28 lb (12.8 kg)	30 lb (13.6 kg)

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