

WELDPRO-2.0

RF (radio frequency) welding, is also known as dielectric sealing or HF (high frequency) welding, is the process of fusing thermoplastics materials (such as PVC, PU, EVA, PETG, polyolefins) together by applying radio frequency energy to the area to be joined.

This technology allows for airtight, leakproof, high strength weld, in addition to an aesthetically pleasing design.

TECHNICAL SPECIFICATION :

- input voltage: single phase [210-240]VAC / [50-60]Hz [12A]
- maximum power required: 3kVA
- welding frequency: 27.12MHz
- RF power (smoothly regulated): [0.1-2.0]kW

PRESS

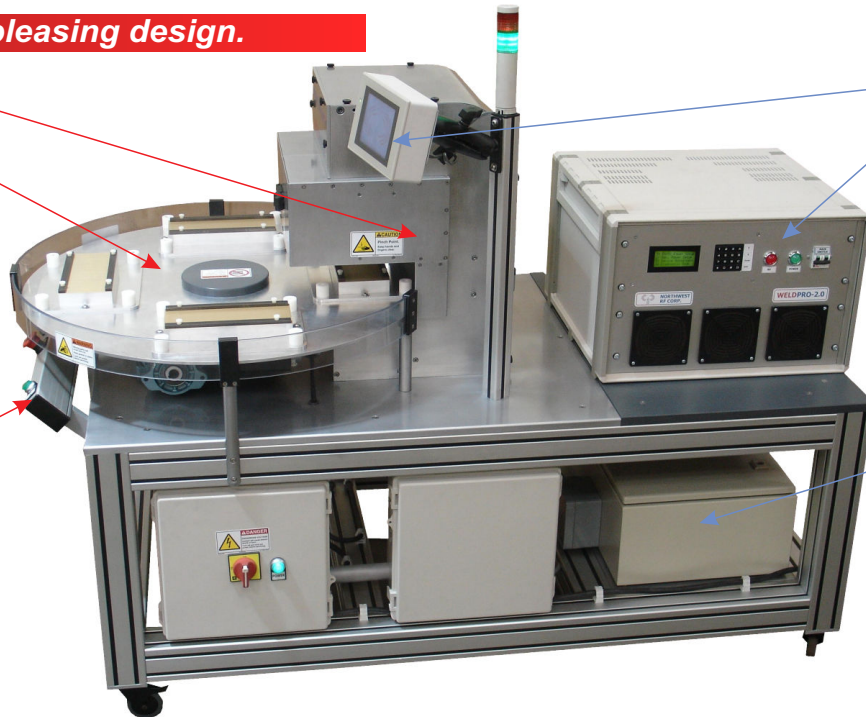
TURNTABLE

OPERATOR CONSOLE

TOUCH SCREEN

GENERATOR

MATCHING SECTION



SOLID -STATE WELDPRO-2.0 GENERATOR WITH INDUSTRIAL CAM-DRIVEN TURNTABLE

COMPLETE WELDER MACHINE CONSISTS OF THREE MODULES :

- Solid-state RF GENERATOR with high-efficiency output and power supply section and control unit as well.
- MATCHING SECTION, controlled by stepper motors with real-time feedback, ensures that the maximum possible power available is transferred from the generator to the load. To transfer energy to the press a flexible feed strap or special RF cable can be used.
- Pneumatic PRESS with various tools (dies) - optional.

Specifications and design may be changed without notice.

NORTHWEST

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SOLID-STATE WELDPRO-2.0 GENERATOR [FRONT PANEL]

TYPICAL APPLICATIONS :

- packaging - e. g.: blister sealing, clam shell sealing, etc. (excellent product display and package security)



- medical - e. g.: blood bags, IV bags, blood pressure cuffs, urinary drainage bags etc. (with ports for entry into the bag)



- textile - e. g.: appliques on T-shirts, hats, jackets, etc.

OPTIONS :

- pneumatic press
- shuttle
- turntable
- carousel

FEATURES :

- power-MOS transistor output (lower operating cost, no periodic tube replacement required)
- precise solid state RF power control
- significantly lower energy consumption than traditional RF generators
- fully automatic RF tuning
- microprocessor control circuit
- single cycle or continuous welding mode
- four stages of the welding cycle with independent time and power settings
- LCD display and keypad as interface
- self diagnostics and self protections capabilities
- build-in arc suppressor
- air cooling

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