

WELDPRO-25

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 airproof, leakproof, high strength weld, in addition to an aesthetically pleasing design.

TECHNICAL SPECIFICATION :

● input voltage:

3-phase [360-400]VAC / 50Hz [40A]

3-phase [208-230]VAC / 60Hz [73A]

● air pressure:

6bar

● maximum power required:

46kVA

● RF power (smoothly regulated):

[4 - 25]kW

● welding frequency:

27.12MHz

● heated upper platen:

30" x 40" (can be customized)

● bed plate:

32" x 42" (can be customized)

WELDPRO-25 is a modern RF welder machine which combines reliable, classical construction (with aluminium cavity oscillator and tube amplifier) and up-to-date features such as: fully automated process controlled by PLC, autotuning capability, diagnostics.

The process management (parameters setting, options, measurements, manual mode, etc.) is operated via touch screen panel located on Control Console.

A separate Operator Console is used exclusively in an automatic, production mode.



WELDPRO-25



CONTROL CONSOLE

Specifications and design may be changed without notice.

NORTHWEST

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RF CORP.

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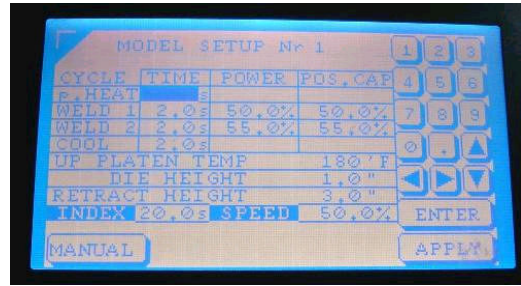
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FEATURES :

- device controlled via PLC
- automatic and manual working modes
- smooth adjustment of RF output
- single cycle machine
- self diagnostics (on screen messages)
- modular construction
- user friendly touch screen interface
- password protected operational settings
- alarm list and alarm history
- save to PLC memory up to five setups
- upper die quick exchange
- heated upper platen with thermostat control (up to 200°C)
- air cooling
- auto-tuning RF for new die (or material)
- electronic arc suppressor (with sensitivity level adjustment)
- plug and play options

TYPICAL APPLICATIONS :

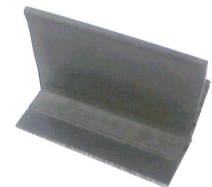
- packaging - e. g.: blister sealing, clam shell sealing, etc. (excellent product display and package security)
- medical - e.g.: blood bags, IV bags, blood pressure cuffs, urinary drainage bags etc. (with ports for entry into the bag)
- recreation - e.g.: tent sealing, tarpaulin sealing, etc. (replace sewing)
- textile - e.g.: T-shirts, hats, jackets, etc. from simple single color appliques to the complex multicolor with 3D effects
- transmission belt sealing



TOUCH SCREEN

OPTIONS :

- various mechanical versions (manually or pneumatically driven):
 - single tray shuttle (side or front)
 - dual tray shuttles (left - right)
 - commercial cam driven turntable
 - conveyor
- double cycle machine
- liquid cooling



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