

HOT PERFORATION  
FOR A WIDE RANGE OF INDUSTRIES -

- Aerotec - Aerospace Pressure Tapes  
Reflective Barrier Insulation
- Geotec - Horticulture  
Agriculture  
Horticulture  
Landscaping  
Weed-blocker  
Drainage control
- Buildtec - Reflective Insulation  
House Wrap  
Moisture Control  
Soundproofing  
Mold proofing
- Hometec - Industrial Wallpaper  
Carpeting  
Fabrics  
Acoustics  
Astroturf
- Indutech - Nonwovens, Films and Foils, Thermoplastics
- Meditec - Bandages  
Gauze  
Band-Aid  
Absorbents  
Breathable wound dressings
- Packtec - Breathable packaging  
Tapes  
Pressure Sensitive Tapes  
Laminates  
Shrink Films  
Extrusion
- Foodtec - Decreased Cooking Time  
Packaging  
Surface Texturing



**Stewarts of America, Inc.**  
"On the sharp End of Pinpoint Technology"

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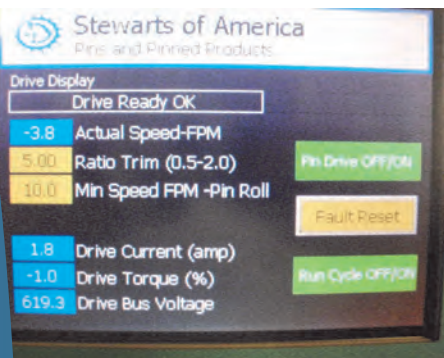
**Hot Needle Perforating**

**HOT NEEDLE PERFORATION MACHINERY**  
for

Nano-Perforation / Micro-Perforation / Macro-Perforation



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## STANDARD HOT PERFORATOR DIMENSIONS:

### Machine Dimensions:

<b>Depth:</b>	915mm
<b>Length:</b>	1550mm
<b>Width:</b> (working width), +	965mm
<b>Height:</b>	1525mm
<b>Weight:</b>	450KG
<b>Perforating core OD:</b>	80mm - 140mm
<b>Diameter over pins:</b>	110mm - 180mm
<b>Counter roller OD:</b>	110mm - 180mm
<b>Line Speed:</b>	Up to 200mpm std
<b>Heating:</b>	IR, 3 Zones
<b>Electric Controls:</b>	Siemens HMI and controls
<b>Control Cabinet Dimensions:</b>	
<b>Depth:</b>	483mm
<b>Length:</b>	1016mm
<b>Height:</b>	1100mm

### OPTIONS:

- CUSTOM DIMS AVAILABLE IF REQUIRED
- SPECIAL AND FANCY PIN PATTERNS
- FAST SLEEVE CHANGE SYSTEM
- STROBE LIGHT FOR QC CHECK
- ROLLER PRE-HEATING/COOLING STAND



# The Latest in Hot Perforating Technology

## PRECISION TOOLING, EFFICIENT EQUIPMENT, THE HOLE SOLUTION

### PERF-ECT HOLES!

There are several key ingredients to accurate hot perforating:

### FLEXIBLE INTEGRATION

The Rotary Hot Perforation System will integrate into just about any existing machinery line:

- Extrusion Lines
- Bonding Lines
- Thermoforming Lines
- Slitter / Rewinds
- Simple Unwinds and Rewinds
- Laminators
- Printing Presses
- Bag/Pouch Making Machines
- Post Gusseting Equipment
- and more.....

### ACCURATE HEATING

- Utilizes the latest in efficient IR electric heater design
- Gets up and maintains operational temperature faster than other machines on the market
- Utilizes a bi-metallic bronze/steel steel that optimizes thermo transfer between pins.
- Accurate closed loop feedback system that detects the temperature of the pinned roll constantly and feeds the information back instantly to the temperature.

### ACCURATE SPEED MATCHING

- Uses an accurate tachometer method to pickup on constant web speed of the line
- Web speed is matched with a 3HP / 2.25kW AC Vector motor
- 7" Color HMI allows the operator to "trim" the speed of the pinned roller to overcome
- The change in engagement diameter.

### SAFETY

- Is built with safety in mind. Powder coated perforated panels surround the machine, providing maximum safety for the operator
- Has a double insulated hood which stays cool to the touch
- Automatically engages and dis-engages at a speed set by the operator

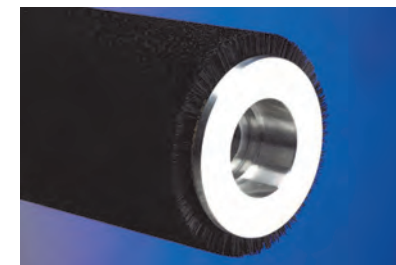
### FAST TOOLING CHANGES EXCELLENT REPEATABILITY

- Pinned roller is broken down into pinned sleeves, this allows the operator to remove and replace segments as required for tooling changeovers.
- Our pinned sleeve system also allows for local damage repair/and replacement .
- Utilizes bi-metallic sleeves that allow Stewarts to accurately machine the inside of the pinned sleeve, providing the perfect fit to the center shaft.

### BACK UP "PRESSURE" ROLL CHOICES

A number of different materials can be used as pressure rollers.

- Nylon bristle roller with **ULTRA-TITE** technology
- High temp resistance bristle roller with **ULTRA-TITE** technology
- Rubber / Urethane / Silicone



### CUSTOM SOLUTIONS

Stewarts of America have the ability to design and manufacture a custom perforating solution for your specific application. Stewarts of America's engineers are well versed in a wide range of materials and the effects that hot perforation has on these materials. From Non-wovens to Films and Foils, Stewarts of America are your partners for the *Hole Solution*.



### WEB SOLUTIONS

Visit our comprehensive website for an insight of other innovative Pinned Product solutions. Stewarts of America offers the Industry. Signup for our e-newsletter, or download comprehensive brochures at [www.StewartsofAmerica.com](http://www.StewartsofAmerica.com)



### GLOBAL SOLUTIONS

Stewarts of America has agents and offices worldwide. We ship to over 50 countries . Our equipment is designed with the global market in mind, utilizing electronic components that are available internationally, with the support of our Stewarts of America trained knowledgeable local agents.



Flexible Perforating Solutions for your converting needs