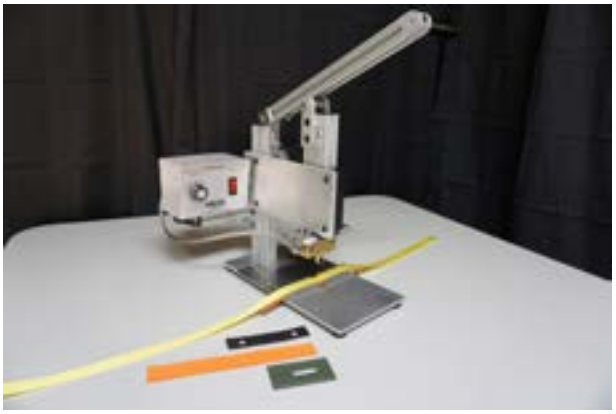
# Thermal Hole Punch Catalog



*Above: RX-75-PS2-RK*
*Single-hole Thermal Punch*
*Below: RX-75-PM2-RK Multi-hole w/fixture*

**Manufactured in the USA by**

NOVA TECH INTERNATIONAL, LLC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## Description

NOVA TECH International offers several types of machines for melting and sealing holes, slots and shapes into synthetic materials, such as webbing, fabrics, ribbon and thermoplastics.

These machines are designed to melt and seal all types of synthetics, including nylon, polypropylene, polyester, ribbon, webbing, and hook & loop.

Our machines are grouped by model type and may be operated by hand, foot, or pneumatic (compressed air).

These machine are all configurable with regard to the type of punch tooling, mode of operation, type of chasis, type of heat controller, operating voltage and mains plug. Additional features, such as safety guards, dwell timer, and electronic counters are also available, for example.

## Which Type Is Best For Me?

RX-75 is the most versatile general-purpose model which yields the best results in most materials.

RX-88 is an economical model which will give good results in thin materials such as ribbon, webbing and fabrics

RX-80-BHL / SHL is a combination hot knife & hole punch for making occasional holes

RX-95 is a pneumatically operated machine which can be fitted with a dwell timer and electronic piece counter. It is ideal for higher, more efficient production processes. There are also many more optional attachments and accessories available for the RX-95 models.

## Contents


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# RX-75 Configurations & Options

## OTHER VERSIONS AVAILABLE

There are many custom configurations of this popular thermal press. Below are just a few examples of some commonly requested models:

**RX-75-PN2-RK** *Thermal slotted hole punch, 120V*
Choose from among several standard or custom made slot punches.

**RX-75-PC3-RK** *Thermal cut and hole punch combo, 120V*
Cuts webbing, seals and melts holes simultaneously. For small working area only.

**RX-75-S33-RK** *Thermal embossing, 2" x 3", 120V*
Use this model to cut shaped ends into webbing up to 3" wide. Interchangeable stainless steel knife plate will last many years and provide clean shaped ends.

**RX-75-PS2-RK** *Thermal button-hole slitting, 120V*
Our model popular model. Melts and seals single holes into webbing and synthetic materials. Choose from many standards hole punch sizes. (2 are included)

Visit our website – **www.thewebcutter.biz** –
to configure this model to your particular specifications.

Questions? Ready to place an order?
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## TOOLING CONFIGURATIONS

Change the 3-digit tooling code to the RX-75 to reconfigure this model to your requirements. Just a few examples are:

| Description | Code |
|---|---|
| Small one-piece brass shaped knife, up to 1.5" (38mm) wide | B11 |
| Slot punch (standard or custom) | PN2 |
| Hole punch, single hole | PS2 |
| Interchangeable stainless steel shaped knife, up to 3" (76mm) wide | S33 |
| Button-hole slitting knife, up to 2.5" (38mm) long | SV2 |
| Magnesium embossing or cutting die, 2" x 3" (50x76mm) | M33 |

Additional Tooling Codes can be found on our website.

## KNIFE & PUNCH SIZES

Hot knives are available in several standard sizes. Standard knives are **5" (128mm)**, **8" (200mm)**, **10" (254mm)** and **16" (400mm)**. Custom knife shapes and lengths are also available.

Round hole punches have a working length of 1/2" (12.8mm) and are available in standard diameters of 1/8" (3.2mm) through 1/2" (12.8mm) in increments of 1/32". Larger sizes are also available as are custom and metric sizes. Some common sized slot punches are stocked or can also be made to order as needed.

## THERMAL CONTROLLER

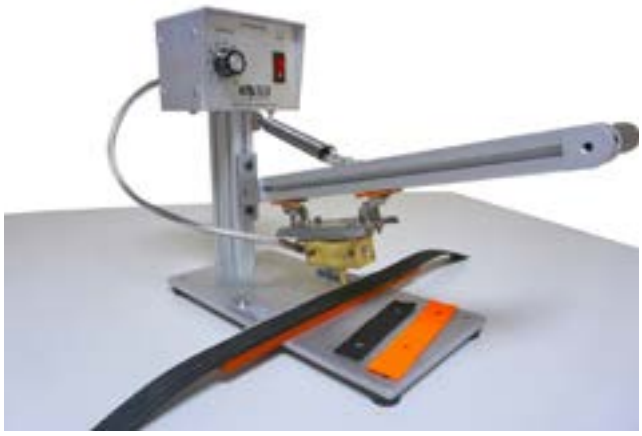
Three types of controllers are available for use on the RX-75:

- **Universal (type R)** is used for operating loads up to 600W.
- **Heavy duty analog (type H)** is used for heavy-duty thermal loads to 1500W
- **Digital/PID controller (type D)** is used when fine temperature control and/or higher heating load is required. This includes a type K thermocouple.

## INTERNATIONAL / 230V MAINS

This model can be equipped to operate on 120V 60Hz or 230V 50Hz for use in any country and will be fitted with appropriate mains plug. **Plug codes A - L determine plug type and mains voltage.**

# RX-88 The Webcutter Hot Hole Punch & Press



*Model shown:*
*RX-88-PS2-RK*
*Hot Single-hole Punch with*
*Analog Heat Control, 120V*
*(see custom configurations on next page)*

## Description

The RX-88 is a general purpose and configurable Hot Hole Punch which can be used to melt holes, slots or shapes into lightweight webbing and ribbon, or for burning leather or wood. Combination cutting and punching tools can also be supplied.

To operate, position the work under the heated tool and pull the handle down.

Will melt and seal all types of synthetics, including lightweight nylon & polyester; polypropylene, ribbon, light webbing, and hook & loop.

## Standard Features

- Rugged yet attractive anodized aluminum frame is strong and light-weight
- Configurable design
- Adjustable edge guides for precise work alignment
- Operating temperature may reach 900° F (480°C)
- Fused and grounded for electrical safety
- Lighted power switch when power is on
- Also available in 230V with power plug for any country
- Standard punch collets from 1/8" to 1/2" dia.
- Large punch collets are also available

Basic hole punch model includes two standard collets for punching holes. Additional and custom tooling is available upon request.

*See back for additional tooling options.*

## General Specifications

| | |
|---|---|
| Std. Power Supply | 120VAC, up to 400W max. |
| Throat Opening | 10" (250mm) |
| Working Temperature | up to 900° F (480°C) |
| Base Dimensions | 6" x 12" (150mm x 305mm) |
| Overall | 9"W x 22"H x 15"D (23cm x 56cm x 38cm) |
| Net Weight | 7 lbs. (3.5 kg) |
| Gross Weight: | 8 lbs. (3.8 kg) |

*(specifications vary by model and are subject to change without notice)*

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# RX-88 Configurations & Options

## OTHER VERSIONS AVAILABLE

There are many custom configurations of this popular Hot Hole Punch model. Below are just a few examples of some commonly requested models:

**RX-88-PS2-RK** *Thermal slotted hole punch, 120V*
Choose from among several standard or custom made round hole punches.

**RX-88-PM2-RK** *Thermal cut and hole punch combo, 120V*
Cut, seal and melt 2 or 3 holes into webbing simultaneously up to 2" apart (For widely spaced multiple holes, see model RX-95).

**RX-88-PC3-RK** *Thermal embossing, 2" x 3", 120V*
Cut, seal and punch holes simultaneously with this versatile model. Working area up to 2" x 3" for webbing and synthetics fabrics.

**RX-88-SV2-RK** *Thermal button-hole slitting, 120V*
Make small sealed slits (button-holes) into thin fabric or ribbon, or melt through multiple layers of webbing, fleece or vinyl, etc.

Visit our website – **www.thewebcutter.biz** –
to configure this model to your particular specifications.

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## TOOLING CONFIGURATIONS

Change the 3-digit tooling code to the RX-88 to reconfigure this model to your requirements. Just a few examples are:

| Description | Code |
|---|---|
| Mulitple holes over 3" (76mm) length | PM3 |
| Slot punch (custom or standard) | PN2 |
| Hole punch, large single hole up to 2" (51mm) diameter | P32 |
| Button-hole slitting knife, up to 2.5" (64mm) long | SV2 |
| Magnesium embossing or shaped cutting die, 1" x 2.5" (25x64mm) | M22 |
| Magnesium embossing or shaped cutting die, 3" x 4" (76x100mm) | M44 |

Additional Tooling Codes can be found on our website.

## KNIFE & PUNCH SIZES

This RX-88 Hole Punch can be converted into a Hot Knife by exchanging the punch assembly with a knife assembly. Several types of 5" knives can be supplied and fitted to this model. Knives larger than 5" must be mounted on the RX-84 Long-Arm base frame.

Standard round hole punch collets have a working length of **1/2" (12.8mm)** and are available in standard diameters of 1/8" (3.2mm) through 1/2" (12.8mm) in increments of 1/32." Larger sizes are also available as are custom and metric sizes. Some common sized slot punches are stocked and can also be made to order as needed.

## THERMAL CONTROLLER

Three types of controllers are available for use on the RX-88:

- **Universal (type R)** is used for operating loads up to 600W.
- **Heavy duty analog (type H)** is used for heavy-duty thermal loads to 1500W
- **Digital/PID controller (type D)** is used when fine temperature control and/or higher heating load is required. This includes a type K thermocouple.

## INTERNATIONAL / 230V MAINS

This model can be equipped to operate on 120V 60Hz or 230V 50Hz for use in any country and will be fitted with appropriate mains plug. **Plug codes A - L determine plug and mains voltage.**

# RX-80-BHL The Webcutter Hot Knife & Hole Punch

*Model shown:*
*RX-80-BHL-RK*
*4" (110mm) Brass Hot knife*
*with interchangeable Punch Collet*
*(see custom configurations on back)*

## Description

The RX-80-BHL is a unique combination industrial Hot Knife and Single Hole Punch that will cut and seal woven and kntted synthetic materials to prevent fraying. The knife can be fitted with an interchangeable standard punch collet for melting holes from 1/8" (3.2mm) to 1/2" (12.8mm) dia.

To operate, position the work under the heated tool and pull the handle down.

Will melt and seal all types of synthetics, including nylon, polypropylene, polyester, ribbon, webbing, and hook & loop.

## Standard Features

- Rugged yet attractive anodized aluminum frame is strong and light-weight
- One-piece knife with fixture for a single hole punch collet
- Basic heat controller and 120V power plug
- Operating temperature to 900° F (480°C)
- Fused and grounded for electrical safety
- Power lamp indicates when the power is on
- Available in 230V with power plug for any country

Additional and custom tooling is available upon request.

Standard Accessories
Includes 1 (one) standard punch collet - 1/8" (3.2mm) to 1/2" (12.8mm) diameter.

*See next page for additional tooling options.*

## General Specifications

| | |
|---|---|
| Basic Heat Control | 120VAC, up to 600W max. |
| Throat Opening | 10" (250mm) |
| Working Temperature | up to 900° F (480°C) |
| Base Dimensions | 6" x 12" (150mm x 305mm) |
| Overall | 9"W x 22"H x 15"D (23cm x 56cm x 38cm) |
| Net Weight | 10 lbs. (4.5 kg) |
| Gross Weight: | 13 lbs. (5.9 kg) |

*(specifications vary by model and are subject to change without notice)*

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# RX-80-BHL Configurations & Options

## OTHER VERSIONS AVAILABLE

There are several custom configurations of this popular combination Hot Knife & Hole Punch. Below are just a few examples of some commonly requested models:

**RX-80-BHL-RK** *Brass hot knife & hole punch combo, 120V*
110mm brass hot knife and single hole punch device for standard punch collets.

**RX-80-SHL-RK** *SS hot knife & hole punch combo, 120V*
110mm stainless steel hot knife and single hole punch device for standard punch collets.

**RX-84-BHM-RK*** *Brass long hot knife/hole punch, 120V*
160mm brass hot knife and single hole punch device for standard punch and large collets up to 1.5" (38mm) dia.

**RX-84-SHM-RK*** *SS long hot knife/hole punch, 120V*
160mm stainless steel hot knife and single hole punch device for standard punch and large collets up to 1.5" (38mm) dia.

*Note: RX-84-BHL and RX-84-SHL models are fitted to the Long-arm frame base.

Visit our website – **www.thewebcutter.biz** –
to configure this model to your particular specifications.

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## TOOLING CONFIGURATIONS

Change the 3-digit tooling code of the RX-80 or RX-84 to reconfigure this model to your requirements. Just a few examples are:

| Description | Code |
|---|---|
| 110mm brass hot knife w/single punch | BHL |
| 110mm ss hot knife w/single punch | SHL |
| 160mm brass hot knife with single punch up to 1.5" (38mm) dia. | BHM |
| 160mm ss hot knife with single punch up to 1.5" (38mm) dia. | SHM |

Additional Tooling Codes can be found on our website.

## KNIFE & PUNCH SIZES

Hot knives are available in several standard sizes. Standard knives are **5" (128mm)**, **8" (200mm)**, **10" (254mm)** and **16" (400mm)**. Custom knife shapes and lengths are also available.

Round hole punches have a working length of **1/2" (12.8mm)** and are available in standard diameters of **1/8" (3.2mm) through 1/2" (12.8mm) in increments of 1/32"**. Larger sizes are also available as are custom and metric sizes. Some common sized slot punches are stocked and can also be made to order as needed.

## THERMAL CONTROLLER

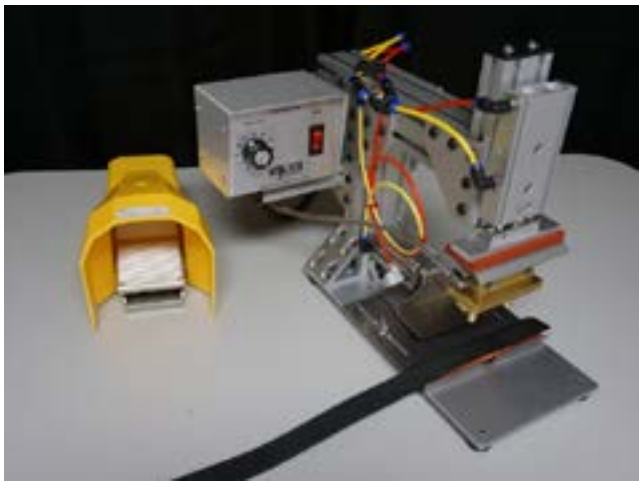
Three types of controllers are available for use on the RX-75:

- **Universal (type R)** is used for operating loads up to 600W.
- **Heavy duty analog (type H)** is used for heavy-duty thermal loads to 1500W
- **Digital/PID controller (type D)** is used when fine temperature control and/or higher heating load is required. This includes a type K thermocouple.

## INTERNATIONAL / 230V MAINS

This model can be equipped to operate on 120V 60Hz or 230V 50Hz for use in any country and will be fitted with appropriate mains plug. **Plug codes A - L determine plug type and voltage mains.**

# RX-95 The Webcutter Pneumatic Hot Hole Punch



*Model shown: RX-95-PS2-RK*
*Single Hole Punch with basic controller*
*(shown with optional Slug-Tray below)*

## Description

The RX-95 is a general purpose and configurable Pneumatic Thermal Press and Hole Punch which can be used to melt holes, slots or shapes, for burning leather, cutting ribbon, or may be fitted with most any thermal tooling suitable for use on a vertically operated pneumatic press.

To operate, position the work under the heated tooling and step on the foot pedal.

Will melt and seal holes in all types of synthetics, including nylon, polypropylene, polyester, ribbon, webbing, and hook & loop.

## Standard Features

- Rugged yet attractive aluminum frame is strong and light-weight
- Basic heat controller (type R) and 120V power plug
- Pneumatic or Electric foot pedal (depending on controller)
- Operating temperature may reach 900° F (480°C)
- Fused and grounded for electrical safety
- Lighted power switch indicates when the power is on
- Available in 230V version with power plug for any country
- Available with automatic dwell timer controller (type T)

Includes tooling for punching holes OR punching slots. Additional and custom tooling is available upon request.

*See next page for additional tooling options.*

## General Specifications

| | |
|---|---|
| Std. Power Supply | 120VAC, up to 600W max. |
| Throat Opening | 6" (150mm) |
| Working Temperature | up to 900° F (480°C) |
| Base Dimensions | 6" x 12" (150mm x 305mm) |
| Overall | 9"W x 12"H x 15"D (23cm x 31cm x 38cm) |
| Net Weight | 15 lbs. (6.8 kg) |
| Gross Weight: | 20 lbs. (9 kg) |

*(specifications vary by model and are subject to change without notice)*

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# RX-95 Configurations & Options

## OTHER VERSIONS AVAILABLE

There are many custom configurations of this popular Thermal Press. Below are just a few examples of some commonly requested models:

**RX-95-PN2-RK** *Thermal slotted hole punch, 120V*
Cut and seal slotted holes. Choose from among several standard or custom made oval slot punches.

**RX-95-S11-TK** *Thermal cut with small ss "V" knife, 120V*
Cut, seal and melt a "V" shape into ribbon and thin webbings up to 1.5" (38mm) wide. Equipped with a dwell timer and digital/PID heater control for consistent quality.

**RX-95-M33-TK** *Thermal embossing w/dwell timer, 120V*
Burn your logo, lettering, or fine artwork into leather, wood or plastics with consistency. Equipped with adjustable dwell timer and heated tooling area is 2"x3" (50x76mm). Uses a custom made magnesium die; artwork required. Other sizes are also available.

**RX-95-SV2-RK** *Thermal button-hole slitting, 120V*
Make small sealed slits (button-holes) into thin fabric, ribbon, or webbing; will melt through multiple layers of webbing, fleece or vinyl, etc.

Visit our website – **www.thewebcutter.biz**
to configure this model to your particular specifications.

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## TOOLING CONFIGURATIONS

Change the 3-digit tooling code of the RX-95 to reconfigure this model to your requirements. Just a few examples are:

| Description | Code |
|---|---|
| Small one-piece brass shaped knife, up to 1.5" (38mm) wide | B11 |
| Slot punch | PN2 |
| Hole punch, single hole | PS2 |
| Hot "X" shaped slitting tool for thin fabrics up to 4"x4" (100mm x 100mm) | D54 |
| Button-hole slitting knife, up to 1.5" (38mm) long | SV2 |
| Magnesium embossing or cutting die, 2" x 3" (50x76mm) | M33 |

Additional Tooling Codes can be found on our website.

## KNIFE & PUNCH SIZES

Hot knives are available in several standard sizes. Standard knives are **5" (128mm)**, **8" (200mm)**, **10" (254mm)** and **16" (400mm)**. Custom knife shapes and lengths are also available.

Round hole punches have a working length of 1/2" (12.8mm) and are available in standard diameters of 1/8" (3.2mm) through 1/2" (12.8mm) in increments of 1/32". Larger sizes are also available as are custom and metric sizes. Some common sized slot punches are stocked and can also be made to order as needed.

## THERMAL CONTROLLER

Four types of controllers are available for use on the RX-95:

- **Universal (type R)** is used for operating loads up to 600W.
- **Heavy duty analog (type H)** is used for heavy-duty thermal loads to 1500W
- **Digital/PID controller (type D)** is used when fine temperature control and/or higher heating load is required. This includes a type K thermocouple.
- **Dwell timer (type T)** incorporates an adjustable cut dwell timer for consistent quality.

## INTERNATIONAL / 230V MAINS

This model can be equipped to operate on 120V 60Hz or 230V 50Hz for use in any country and will be fitted with appropriate mains plug. Plug codes A - L determine plug type and mains voltage.