



Model shown: RX-80-V2S-RK
Hot knife with 3" stainless steel V shaped
knife and basic 120V controller
(see custom configurations on back)



Manufactured in the USA by



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TYPES OF RIBBON

Cutting and sealing synthetic ribbon with a hot knife is accomplished entirely by **melting** (not shearing) and is required to prevent the ends from fraying. To hot cut ribbon, the ribbon must be made of 100% synthetic fibers such as polyester or nylon for example. Ribbon made from natural fibers or blends, such as poly/cotton, linen, or with wired edges can not be cut using a traditional hot knife. Other materials that CANNOT be cut with a hot knife are metallics, rayon, and aramids (such as Nomex and Kevlar). If in doubt, please send us some samples of your ribbons for an evaluation.

TYPES OF HOT KNIVES AVAILABLE

NOVA TECH manufactures several types of hot knife configurations which can be used to cut and seal ribbon. Depending on your application, the knife itself may be made from either stainless steel, brass or magnesium - each of which has benefits and drawbacks.

Stainless Steel: is the most durable of metals and will outlast other heated tooling if cared for properly. Stainless steel is expensive to machine however, and is a relatively poor conductor of heat. It must therefore be heated to a higher temperature to work as well as other metals.

Brass: is extremely conductive and relatively inexpensive to machine and form. It makes a very efficient hot knife but is relatively soft and will wear out. It may also be subject to galvanic corrosion when in contact with other metals. The two types of brass knives we make are one-piece machined shapes, and replaceable strip.

Magnesium: is extremely conductive and relatively inexpensive in limited forms. The greatest advantage of magnesium is that it can be quickly and inexpensively etched into a wide variety of shapes. Magnesium however, can only be used to cut very thin materials and at extreme temperatures can become flammable.

Our manual hot knife cutting machines may be operated by hand or foot-pedal or pneumatically operated, with measuring to length done by hand. Auto hot knife machines can be programmed to measure to a pre-set length, cut, count and detect printed images automatically with an optional photocell.

(See back page for additional information on tooling options)

HOT KNIFE RIBBON CUTTING MACHINES

ADDITIONAL CONSIDERATIONS

- Fumes: keep in mind that material such as ribbon and webbings which are heated and sealed will also produce potentially hazardous fumes. You should take this into account when purchasing a hot knife and in designing your work space. A simple standard range hood (like the type over your stove) can be mounted over a hot knife work area to vent fumes.
- Knife edges: Even when heat is used for cutting, with normal use sharp knife edges will wear and become dull over time. Soft knives made from brass or magnesium will wear even faster. To minimize knife wear, we suggest using a cutting pad under the knife. Cutting pad is a heat-resistant material that can also be supplied to the width of the ribbon for proper knife alignment and centering.
- Accurate measuring: whether measuring by hand with a simple ruler or using a fully automatic cut-to-length machine, various degrees of precision can be expected depending on many factors. See the Measuring To Length section for more information

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

Questions? Ready to place an order?
Contact us today!



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TOOLING CONFIGURATIONS

Add the 3-digit tooling code to the RX-80 manual hot knife to configure this model to your requirements. Just a few examples for CUTTING RIBBON are:

Description	Code
Standard 5" (128mm) straight cut hot knife for ribbon and thin webbings	SBL
Replaceable "sharp-point V" 2-pc. knife for ribbon up to 3" (80mm) wide	V1S
Replaceable "round-point V" single pc. knife for ribbon up to 3" (80mm) wide	V2S
Interchangeable stainless steel single "V" shaped knife, up to 5" (125mm) wide	V3S
Button-hole slitting knife, up to 1.5" (38mm) long	SV1
Made-to-order hot pinking knife for thin materials and ribbon up to 5"/125mm	SKL

Additional Tooling Codes can be found on our website.



R80-002-V2S
Knife

MEASURING TO LENGTH

NOVA TECH manufactures several products for accurately measuring to length webbing, narrow fabrics and ribbon:

RX-100-SCL A compact, general-purpose, fully automatic, programmable hot knife strip cutting machine. It cuts many types of narrow fabrics, webbing, nylon strap, seatbelt, hook & loop, bindings, ribbon, cord, bungee, paracord, metal & plastic strips, welting, sleeving and more.

RX-200-SCL Fully-automatic straight 5" (130mm) hot knife cutting machine. Add any of several pneumatic cutting modules to the semi-automatic machine and you now have an automatic cutting machine. Fully programmable and easy to operate, it will measure, cut and count all types of materials. Many pneumatic cutting modules are available for special applications such as shaped cuts.