



Temelsan®

KN 41 HBS TOUCH FLASH BUTT WELDING MACHINE

Standard Features

- 6x0,65mm - 41x1,30mm width Bi-Metal band CT band welding capacity (please look at next page for more specific information)
- Manual adjusting up to 300 bar pressure of clamping system
- Manual adjusting up to 200 bar pressure of upsetting system
- From 6mm up to 14mm manual adjustable jaw gap regulation
- Hydro-Pneumatic clamping system
- PLC controlled 7" Touch Screen HMI
- 99 Program memories for fully range of band saw blade dimensions
- High pressure air cleaning system (Air blow off)
- Air pistol



Optional Features...

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HBA - PACS - FULLY AUTO ANNEALING CONTROL SYSTEM -

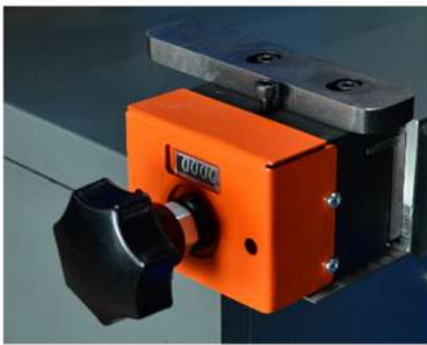
HBS-type machines are semi-automatic welding machines, and to transform them into fully automatic welders, the Pyrometer Option serves as a critical addition. The pyrometer, integrated with our advanced software, ensures consistent and precise hardness in the weld area, matching the band back material.

Key features include: A robust, metal-constructed pyrometer cover with fully automatic open-and-close functionality, controlled via a switch. An integrated LED workplace lamp to assist operators in accurately positioning the shear onto the clamping units.

The primary advantage of annealing with the pyrometer lies in its ability to maintain constant annealing for every blade welding process, ensuring uniformity and superior quality across all operations.



HBC/S - NSS - NUMERICAL STOPPER SYSTEM



While our welding machines come equipped with a standard simple stopper system, the Numerical Stopper Option offers a more efficient solution for precise camber adjustments. This option is available for the following models: KN41HBS, KN41HBC, KN54HBC, and KN67HBS.

By incorporating the numerical stopper system, you gain enhanced adjustability and control, enabling more accurate and repeatable settings for welding applications. This feature is particularly beneficial for operations requiring precise alignment and consistency.

Both of these options are designed to optimize the performance of your welding machines, ensuring higher productivity and improved outcomes.



HBA/C – VPN - VPN REMOTE CONTROL SYSTEM FOR BUTT WELDERS

Industrial Remote Access Device, a comprehensive Industrial IoT (IIoT) solution designed to revolutionize the way you monitor, manage, and maintain your industrial systems. This device is specifically engineered for seamless integration with various industrial equipment such as PLCs, Operator Panels, Drives, Robots, and other automation systems. Leveraging multiple access protocols—including Ethernet, IP, MODBUS (Serial and Tcp), USB, RS232, and RS485—it enables simultaneous connectivity to a wide range of devices through diverse communication standards.

With our VPN Connect feature, you can securely access your industrial machines anytime and from anywhere. The device supports WAN, LAN, Wireless AP, and Wireless Client inputs, ensuring uninterrupted connectivity. To enhance security, all access interfaces are protected by Two-Factor Authentication (2FA) using the reliable Google Authenticator infrastructure.

The system package includes the VPN module, connection ports, Ethernet cables, and software upgrade options, making it a ready-to-use solution for your industrial needs. One of the most significant advantages of this technology is its ability to diagnose and resolve machine issues remotely via the internet. This eliminates the need for additional equipment or software, saving both time and resources.

Moreover, this option allows us to provide 24/7 online servicing upon request. Whether it's troubleshooting, software upgrades, or system diagnostics, our team is just a click away, ensuring your operations run smoothly without unnecessary delays. We are confident that our Industrial Remote Access Device will enhance your operational efficiency and provide a robust, secure, and user-friendly platform for managing your industrial systems remotely.



HBA/C/S - LCU - LIQUID COOLING UNIT

The Liquid cooling unit is an external machine made for cooling the jaws.

The cooling unit has the advantage of keeping the adjusted jaw level temperature for serial weld operations constantly.

Re-adjustment of welding current value are almost not needed anymore. Recommended for serial welding procedures, like any minute a weld or more.

DIFFERENT VOLTAGE APPLICATION

Our Temelsan Bandsaw Blade Welding Machines are designed to operate with a standard 380V AC power source. For customers with different power requirements, we offer customization options at an additional cost. We can adapt the machine to work seamlessly with any three-phase voltage source, ensuring flexibility for diverse operational needs.



WOODEN PACK

As a standard, Temelsan machines are packaged on Euro pallets. However, we highly recommend opting for wooden crates to provide additional protection against external factors during transportation. Products delivered in wooden crates should be inspected upon receipt to ensure there is no damage to the crate, guaranteeing the integrity of the product inside.



KN 41 HBS - SPECIFICATIONS...

ADDITIONAL INFORMATION AND APPLICATIONS

	Min. Size Inch	Max. Size Inch	Min. Size mm	Max. Size mm
Bi-Metal Bandsaw Blades	1/4x0.025	1 1/2x0.050	6x0.65	41x1.30
Tungsten- Carbide Bandsaw Blades	1/4x0.025	1 1/2x0.050	6x0.65	41x1.30
Wood Bandsaw Blades	3/8x0.019	2x0.042	10x0.50	50x1.10
Stainless Steel Bandsaw Blades	1/4x0.019	1 1/8x0.019	6x0.50	30x0.50
Band Knives	3/8x0.019	2x0.042	10x0.50	50x1.10
Stainless Steel Bands	0.08	in2	50.00	mm2
Mild Steel Bands	0.15	in2	95.00	mm2

APPLICABLE POWER SOURCES

600V	3 PHASE	50 - 60 Hz
480V	3 PHASE	50 - 60 Hz
400V	3 PHASE	50 Hz
220V	3 PHASE	50 - 60 Hz

DIMENSIONS OF MACHINE

LENGTH	DEPTH	HEIGHT	WEIGHT
950 mm	900 mm	900 mm	500 Kg

ADVISED EQUIPMENTS FOR KN 41 HBS TYPE WELDERS



MAK 01 HP - 80 / SHEAR CUTTER

The Hydrau-Pneumatic high performance shear cutter, capacity 6-100 mm band width. Horizontal oriented by pedal use, ready to use movable or fixed own tabled

TAS 1001 RT-HP 3 IN 1 / SLIDING GRINDING MACHINES

The Rotary Head Grinding Machine for side grinds 6-54 mm band width, cup wheel, pneumatic vises, power box with on/off switch and light control, emergency off switch ,machine fixed on column with a proper working height level, back grinder positioned below the side grinder with start pedal and automatic move to front by pneumatic push. Tooth gullet grinder, pneumatic hand grinder with several thin grind discs.



CAP 41 PLASTIC STRIP CAPPING MACHINES

Teeth protection plastic strip machine, easy to use by pedal, 240V AC capacity 20-41mm band width.