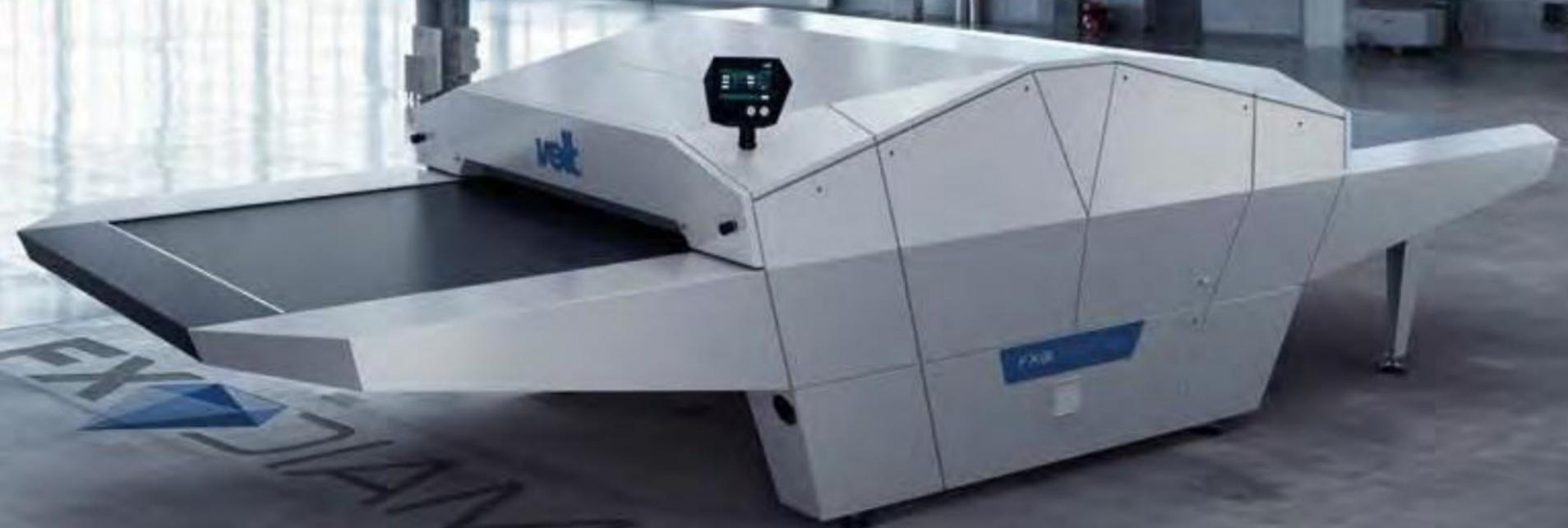




GROUP
PRESSING+



AX 450 – The fully-fledged fusing machine for prototypes and small parts



- > working width 450 mm (17.72 inch)
- > upper and lower heating zones, thermostat-controlled (**600mm - 23.62 inch**)
- > pressure system up to a maximum of 33 N/cm²
- > ideally suitable for waistband fusing, small batches, laboratories and roll-to-roll fusing

- > Working width: 450 mm/17.72 inch
- > **NEW: pneumatic pressure system**
- > Upper and lower heating zones, thermostat-controlled (600 mm/23.62 inch long)
- > Pressure system up to 43 N/cm²
- > Ideal for in-line fusing

BH 600 – The lean-production-solution



- > working width 600 mm (23.62 inch)
- > upper and lower heating zones, individually adjustable (**length: 600 mm - 23.62 inch**)
- > ideal for dress shirt collars and cuffs
- > loading directly at the machine
- > optional stacker
- > water cooling system

BX 600/1000 – The universal solution



- > working width 600 mm or 1000 mm (23.62 inch or 39.37 inch)
- > upper and lower heating zones, individually adjustable (**length: 800mm - 31.50 inch**)
- > single or double pressure system in various degrees of hardness
- > reliable and easy to operate
- > perfectly suitable for small (600 mm - 23.62 inch) to medium-sized production plants (1000 mm - 39.37 inch)
- > gauges for electric or pneumatic failures (diagnostic system)

FX 1000/1400 – For highest demands



- > feeding belt 1400 mm (55.12 inch), for long parts
- > separate feeding and transport belts
- > special insulation, little heat radiation
- > upper and lower heating individually controlled, with temperature limiters (**1000 mm - 39.37 inch long**)
- > separate heating zones selectable, TOP / BOTTOM
- > special speed-heat up function, for fast heating of the machine
- > touch screen for program storage and service functions
- > optional air and compression cooling
- > failure diagnostic system



FX 1400L/1600 – The most productive solution



- Benefits as for FX 1000/1400, plus:
- > extended heating zone, increased productivity (**length 1400 mm - 55.12 inch**)
 - > three heating zones, more gentle heating
 - > for large-scale production or centralised fusing
 - > ideal for combination with feeding systems (FE-L, ET)





FX Diamond CFL 1000



FX Diamond CFL 1600

Laminating Machine FX Diamond CFL

With its new **FX Diamond CFL** laminating machine, VEIT has the ideal solution for gentle laminating of flexible materials, such as leather, and textiles cuttings of foam, felt, non-woven or knit materials. Just as well, FX Diamond CFL can be equipped with a roll-off/roll-on device for yard goods.

The innovative VEIT FLEXO double pressure system and the adjustable vertical clearance over the entire length from the inlet to the flexible, spring-mounted heating zone allow precise and gentle processing of a large variety of combinations of materials and strengths in one single operation.

With these newly engineered components, we significantly reduce compression of delicate fabrics and ensure a unique laminating performance.

The innovative Contactless Belt Control (CBC) eliminates belt edge wear and tear through contact-free belt detection.

The well-conceived engineering concept of this new VEIT laminating machine is also reflected in its modern and easy-to-use touch-screen operating panel.

Not only can programs simply be fed into the system through a barcode scanner, it also allows effortless, intuitive operating for the user.

FX Diamond CFL excels in many other ways:

- > Adjustable vertical clearance over the entire length from the inlet to the heating zone
- > Specially designed flexible spring-mounted heating zone with an adjustable heating zone radius to get the perfect settings for each material
- > Continuous roll-through: Compared to usual sliding table presses, processing times are reduced by 30 to 40 %
- > Optional production data capturing for process reliability, quality control and output evaluation
- > Upgradable to a complete production line by adding loading systems, active cooling module and stacking devices
- > Start-Stop function for the loading belt by foot pedal, to allow alternating between continuous and cyclic operation
- > Optional automatic cleaning function of the upper transport and cover belt to remove glue residue
- > Optimized insulation to minimize energy loss and operator impairment through heat radiation
- > The FX Diamond CFL is available in the following versions:
 - > FX Diamond CFL 1000 (working width 1000 mm)
 - > FX Diamond CFL 1400 (working width 1400 mm)
 - > FX Diamond CFL 1400 L (working width 1400 mm, extended heating zone)
 - > FX Diamond CFL 1600 (working width 1600 mm)

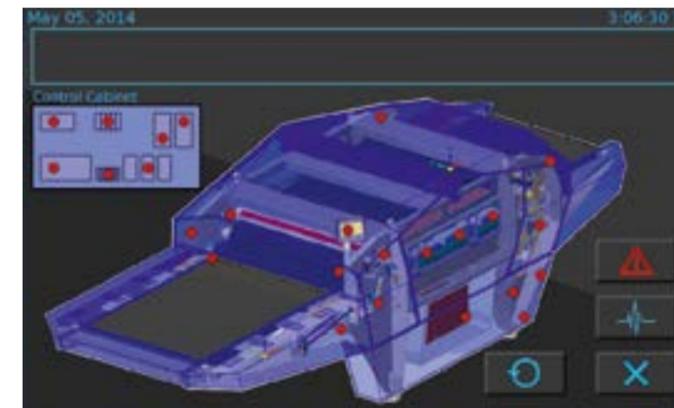
Applications/Advantages

FX Diamond CFL can be used for:

- > Leather
- > Textiles
- > Technical textiles
- > Foils
- > Carbon fibres
- > Filter materials
- > Industrial materials
- > Medical materials
- > Construction materials

Advantages of fusing/laminating leather and textile stampings:

- > Permanent perfectly aligned bonding of foam, felt, and fleece or knit materials to the surface material
- > The desired surface feel of the fabric can be obtained by applying different coating materials
- > The coating of leather closes the pores and prevents foam from penetrating to the other side of the material when the goods are frothed up

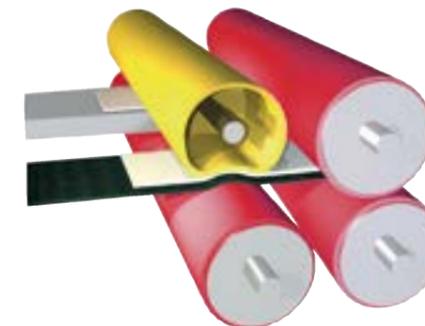


Laminating Machine FX Diamond CFL

Touchscreen

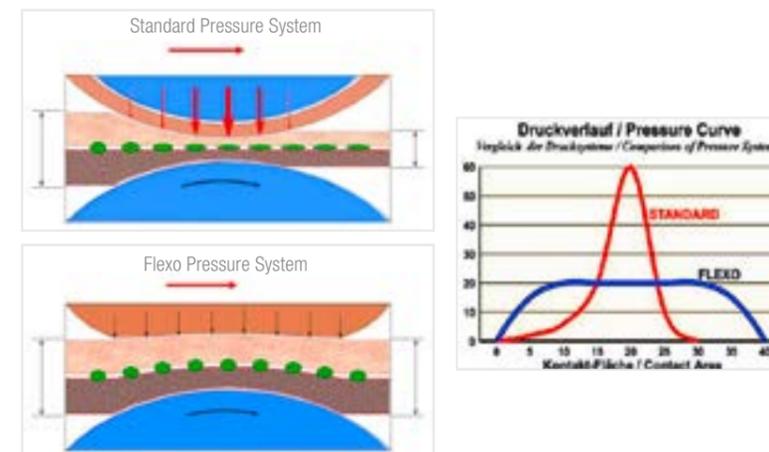
The touchscreen control allows the adjustment and control of all necessary parameters:

- > Indication of set/actual temperature of the different heating zones
- > Parallel display of laminating time (sec) and speed (m/min)
- > Parallel display of pressure in bars and N/cm²
- > Fill level indicator for optional stacking device
- > Self-diagnosis system with immediate error message (visual and acoustic)
- > Visual machine availability via signal lamp green/red
- > Storing of different programs which can be run when required (optionally with production data acquisition (= PDA))
- > You can save up to 200 programs.
- > Identification of laminating item via hand-held scanner is possible (as an option)
- > Patented heating technology - reliable and energy-saving - with buffer to compensate temperature drops quickly -> essential for an excellent laminating effect



The Pressure System

Pressure is the crucial factor in the fusing process for achieving the desired quality and permanent adhesion. The **FLEXO Double Pressure System** allows processing materials of differing kinds and thicknesses in a single operation. The **FLEXO** roller adapts to the surface and gently acts on the materials through planar pressure—unlike conventional linear pressure systems. **Structural surfaces** (e.g. leather structures) thus remain unimpaired. For standard purposes, the coupled standard pressure system is also available.



FLEXO Double Pressure System FX-CFC

Developed for fusing pressure-sensitive materials, such as leather. VEIT offers a pressure system to meet the individual requirements of different material combinations for the gentle treatment of surfaces.

Heat zone 2/3 bottom/top



Heat zone 3/2 bottom/top



Heat zone 2/3 top/bottom



Heat zone 4/3 bottom/top



Heat zone 3/4 top/bottom



Laminating Maschine FX Diamond CFL

Heating Systems

Variable temperature settings at the bottom and the top layer of the materials to be fused are essential in order to achieve the desired adhesion.

For a perfect result for a multitude of differing requirements and materials, **FX Diamond CFL** offers the possibility of choosing from a variety of heating zone arrangements, to ensure the desired temperature at the joint.

VEIT's proven heating system with the following advantages:

- › A patented heating element which transfers the temperature evenly over the entire surface without any significant loss of heat
- › Arched heating zones to guarantee an optimal inner heat transfer from the heating element via the conveyor belt to the material being fused
- › Two heating zones, where temperature can be adjusted separately – for perfect results
- › The arrangement of the heating zones can be changed at any time when needed
- › No large gap between the individual heating elements. This prevents any cooling down of the glue in the heating area and avoids hard handle and low bonding
- › Temperature control which guarantees uniformity between set and actual temperature. This is done through a sensor that is located directly on the heating mat
- › Permanent adjustment of actual to set temperature
- › Spring-loaded lower heat zone for processing pressure-sensitive materials
- › Adjustable vertical clearance at the inlet as well as in the heat zone

Options for FX Diamond CFL



The air fan cooling station will be available for 1700 mm version. (Optional with one or two additional air fan units.)

The air fan cooling station will be available for 800 mm version. (Optional with one additional air fan unit.)



Air Fan Cooling Station FX Diamond CFL

Principle

The **air fan cooling station** ensures that the fused composites are sufficiently cooled to avoid any deformation or loosening of the bonding after the laminating process. Also, it prevents marks on the surface of sensitive materials in the event of any premature manual unloading.

The **air fan cooling station** is available with one or two air fan units, depending on application requirements.

Feeding System FE-L

Customers benefit from the advantages of the flexible workplace organisation FE-L

The extended loading system is 3000 mm long and allows better use of **FX Diamond CFL** capacity. Using the extended working area, up to eight operators can load the fusing machine. Due to a synchronised speed of loading and transport belt, distortion is totally eliminated.

Other fusing machines can also be easily equipped with this extended loading system. The belt speed can be controlled manually with a potentiometer. When connected to **FX Diamond CFL**, belt speed is controlled automatically. FE-L can be optionally equipped with a maximum of four loading tables (width: 230mm / 370 mm), providing more space for preparing adhesives and composite materials.

Main advantages

- › Up to eight operators can simultaneously load the fusing machine
- › Efficient utilisation of your fusing machine
- › The feeding belt can easily be switched on or off by pressing a foot switch. This will avoid problems caused by displacement of interlinings with fabrics which are difficult to load.
- › Working widths available: 1000 mm / 1400 mm / 1600 mm
- › FE-L can be fitted right, central or left as required

Active Cooling Module AKM

Principle

The **Active Cooling Module AKM** cools the fused composites of different materials after processing to avoid deformation or loosening of the bonding which may happen in case of insufficient cooling of the adhesive. It also prevents marks on the surface of sensitive materials in the event of premature manual unloading. The cooling temperature is entirely variable, depending on the processing temperature within **FX Diamond CFL**.

Technology

The **Active Cooling Unit** with a closed water cooling cycle system and an air fan system can be chosen when working with high temperatures in order to achieve fast cooling. The amount of air and the cooling power can be steplessly regulated via the separate control unit. The **Active Cooling Module** is directly linked to the **FX Diamond CFL**, so that no extra connections are required





AX 450 / AX 450 C

Despite its minimized dimensions, the **AX 450** offers the same attributes as the larger models. It can be utilized for fusing waistbands as well as full-fledged fusing of sportswear and dress shirts.

Advantages:

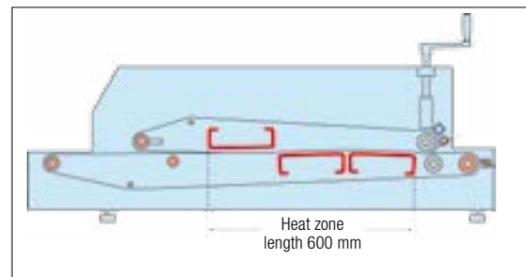
- > Full-fledged fusing for small production runs, labs or assembly lines
- > Requires no compressed air
- > Single phase electrical connection
- > Rolling stand design
- > Partial fusing capabilities

The Control Unit:

Even our compact fusing machine comes equipped with a full-fledged control unit.

Advantages:

- > Unique in its class, a diagnostic system for heating elements, motor control and belt control
- > Clear, simple color display for under or over heating
- > Calibrated thermostat, necessary for belt exchange or different belt types
- > Set/actual temperature monitoring



■ Heating System
■ Pressure System

The Heating System:

The heat technology and heat zone configurations are incorporated from our larger fusing machines, guaranteeing maximum quality.

Advantages:

- > Separate upper and lower heat zones
- > Proven VEIT surface heat technology with uniform surface distribution
- > Minimal energy usage, with each outlet serviced by 16 amp fuse
- > Panel heating elements provide specific heat transfer with minimal energy waste



AX 450 / AX 450 C

The mechanical Pressure System:

The **AX 450** has a sophisticated mechanical pressure system which operates without compressed air and yet delivers precise pressure. Pressure specifications are shown in N/cm², as requested by leading interfacing suppliers.

The pneumatic Pressure System

With the trend towards increasing individualisation, producing **small numbers** is becoming increasingly important in **shirt production**. Customised production of tailor-made shirts, too, results in a need for flexible production lines. With this fully-fledged fusing machine, VEIT FUSING provides the possibility of decentralised fusing directly in the production line without any cut-backs in quality.

Options:

Unloading Slide

Accommodates large and small fused assemblies for cooling.

Waistband Fusing Device

Various options are available for mechanical unwinding and rewinding for waistband fusing. The waistband fusing device may be operated individually or by two people. We further recommend a loading guide for accurate positioning of the face fabric and the interlining.

Mechanized Rewinding "Stretch"

We offer an electronically driven option for rewinding fused waistbands of elastic fabrics, eliminating stretch.



FuseMaster BX 600/1000 Series

The compact solution!

Designed for daily use in outerwear or dress shirt productions. This sturdy and reliable machine is the optimal solution in both cases.

Advantages:

- > Sturdy, compact design requires minimal floor space
- > Extended heat chamber
- > Rapid machine warm-up
- > Totally reliable and adjustable/maintains accurate temperature and pressure

The Control Unit:

Control of the fusing parameters is of utmost importance in a fusing machine, where all important details can be overseen in a clear and readable manner. Fluctuations in temperature are highlighted to draw quick attention.

Advantages:

- > Separately controlled and adjusted upper and lower heat zones, individually adjustable for various fabric and interlining combinations
- > Clear, simple color display with temperature control to prevent too low or too high temperatures
- > Diagnostic system for belt progression, electrical supply and compressed air supply

The Heating System:

As with all continuous VEIT fusing machines, our special heating elements play an important role. Clearly defined heat zones provide for optimal fusing results.

Advantages:

- > Uniform surface temperature due to curved heat zone
- > No gaps between heating elements, facilitating uniform heat distribution
- > Rapid temperature change
- > Specially insulated heating elements for minimal energy waste

The Pressure System:

The precise pressure for successful fusing of different interlinings and fabrics varies; therefore, a pressure system must be able to address these needs. The BX is the only fusing machine in its class offering a choice of two standard pressure systems to best meet the needs of our clients.

BX 600/1000 S (soft)

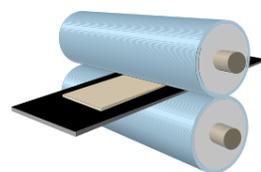
Applicable for pressure sensitive fabrics used in sportswear and especially in women's and men's apparel

BX 600/1000 M (medium)

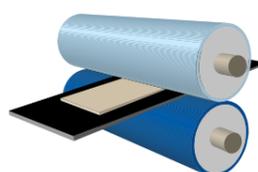
Applicable for common fusing applications in goods with high-twist yarns and dress shirt industry

Advantages:

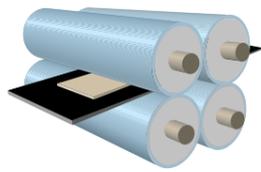
- > Roller combinations can be chosen between soft and medium
- > Fast exchange of pressure rollers possible at any time



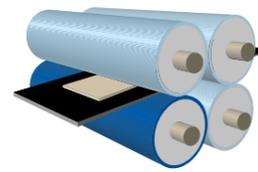
C S (soft)



C M (medium)



CU S (soft)



CU M (medium)



Options for the FX and BX Series

Return-to-Operator System (for BX)

A return-to-operator system is especially beneficial for smaller production runs, allowing a single operator to both load and unload the machine.

Advantages:

- > Ideal for minimal work space
- > Accommodates two independent operators

Waistband Fusing Device (for FX and BX)

Continuous roll to roll fusing is possible for trouser and skirt waistbands.

Advantages:

- > All waistbands for one particular product are on one roll, maintaining product integrity
- > Fusing occurs according to a continuous sequence

Rotating Strip-Off Device (for FX)

Through rotation of strip-off device along the upper belt, pieces adhering to the belt are gently and effectively removed.

Advantages:

- > Gentle removal of pieces from the upper belt with rubber ridges
- > Unique design allows damaged ridges to be replaced individually without removal of the entire strip-off device, facilitating rapid and cost effective repair
- > Low maintenance

Lateral Loading Tables (for FX)

For preparation of oversized pieces, the fusing machine can be equipped with lateral loading tables.

Loading Systems for FX and BX

A loading system may be incorporated for even more efficient use of the fusing machine.

FE-L Loading System

The VEIT FE-L is an extended version of the FE loading belts in the FX and BX series. The FE-L can either be added to extend the standard FE loading belts or can be installed instead of the standard FE loading belts. An extended loading zone allows for additional operators.

Advantages:

- > Foot switch can be used to start and stop the belt
- > Oversized pieces can be processed
- > Additional operators can be utilized for loading
- > FE-L can be installed on the FX
- > As an additional installation – 4400 mm (176 inch)
- > As the primary installation – 3000 mm (120 inch)



VEIT Stacker

It is important that fused assemblies be handled gently to allow them to cool prior to further processing.

The VEIT Stacker guides the fused assemblies from the loading system's cooling belt of the BX or FX series to the unloading table. At this point the unloading table is activated by a sensor and moves under the piece until the entire length is transferred. Thereafter, the unloading table returns to its position under the belt to receive the next piece. This system is available for working widths 1000, 1400 and 1600, from two to four separate operating trays.

Advantages:

- > Automatic stacking of fused assemblies
- > Choice of various belt widths
- > Coupling of stacker lanes for extra wide pieces
- > Flat transfer of fused assemblies
- > Pieces placed in order
- > Pieces placed for precise bundling

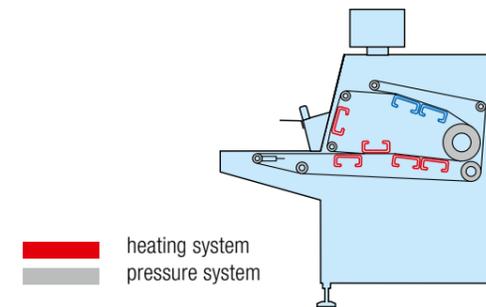


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BH 600 – Shirt Fusing Machine

Specifically designed for fusing dress shirt collars and cuffs, this machine is equipped with an active cooling system and is operated by one person. When equipped with the BH ST 600 Stacker, an optical sensor causes all fused assemblies to be collected automatically.

Advantages:

- > Can be operated by one person
- > Proven VEIT panel heating technology
- > Active Cooling System for fused assemblies
- > Optional stacker available for higher productivity

The Control Unit:

Reliability in terms of fusing parameters is essential for the fusing operation. A clear display of those parameters on the fusing machine is important for the operator to maintain an even quality.

Advantages:

- > Clear display of fusing parameters
- > Clearly visible by seated operator
- > Diagnostic system for heating elements, motor control and belt progression
- > Clear, simple color display with temperature control to prevent too low or too high temperatures
- > Set/actual temperature monitoring
- > Control indicators for active cooling system

The Heating System:

As with all VEIT fusing machines, the BH 600 is equipped with our proven panel heating technology.

Advantages:

- > Exact and separate temperature adjustments for upper and lower heating zones
- > Uniform surface heat distribution over the entire fusing width
- > Panel heating elements provide specific heat transfer with minimal energy waste

The Pressure System:

The pressure system for fusing dress shirts is very important, because most adhesive resins for shirts require high pressure. With the BH 600, the fused assembly is held under additional contact pressure after proceeding through the initial pressure system.

Advantages:

- > Pressure adjustable from 0 N/cm² to 46 N/cm²
- > Large return drum delivers contact pressure, ensuring success full adhesion

Options:

BH ST 600 Stacker

Can be retrofitted or factory installed.

This stacker straightens and stacks fused assemblies.

Advantages:

- > Higher productivity
- > Collars and cuffs stacked for precise bundling
- > Suitable for Lean Production Lines