LF-4464

44” x 64” Large Format Heat Press

OWNER’S MANUAL

Installation, Operation and Care of HIX LF-4464

LF-4464 Twin

HIX® CORPORATION

For Customer Service, Call 1-800-835-0606
or Visit www.hixcorp.com

CONTENTS

BEFORE warranty repair you MUST get Prior Authorization:

10356 RV A_072616

INTRODUCTION

KEEP THIS MANUAL FOR FUTURE REFERENCE

We are glad to welcome you and wish you success with your new large format press. For questions and inquiries we are always at your disposal under following phone number: 800-835-0606 or online at www.hixgraphics.com /large-format-sublimation-press-lf-4464

Sublimation is defined as the process of change from a solid to a gas state without passing through a liquid phase. When heated, sublimation dyes bind permanently with the molecules of the substrate. Under the right pressure and temperature condition, the substrate molecules open up and allow the gaseous dye molecules to become trapped upon cooling. This color “trapping” results in a nearly undetectable “hand” or sensation of any physical change of the substrate. Dye sublimation shirts retain the original feel of their fabric, breathability and wicking characteristics. Non-textile substrates – mugs, cellphone cases, photo-imaging wooden or metal plates, etc. – show their color designs in unusual vibrancy and color retention. Since color is now also more than superimposed layer, the design is also generally better protected against abrasion.

The sublimation works on polyester, either as a fabric or as a coating on non-textile substrates. The process does not work on cotton except when the cotton is spun in combination of a substantial percentage of synthetic material. However, since only the polyester fabric traps the sublimation dye, there is a direct relationship between the vivacity and longevity of the images and their synthetic content.

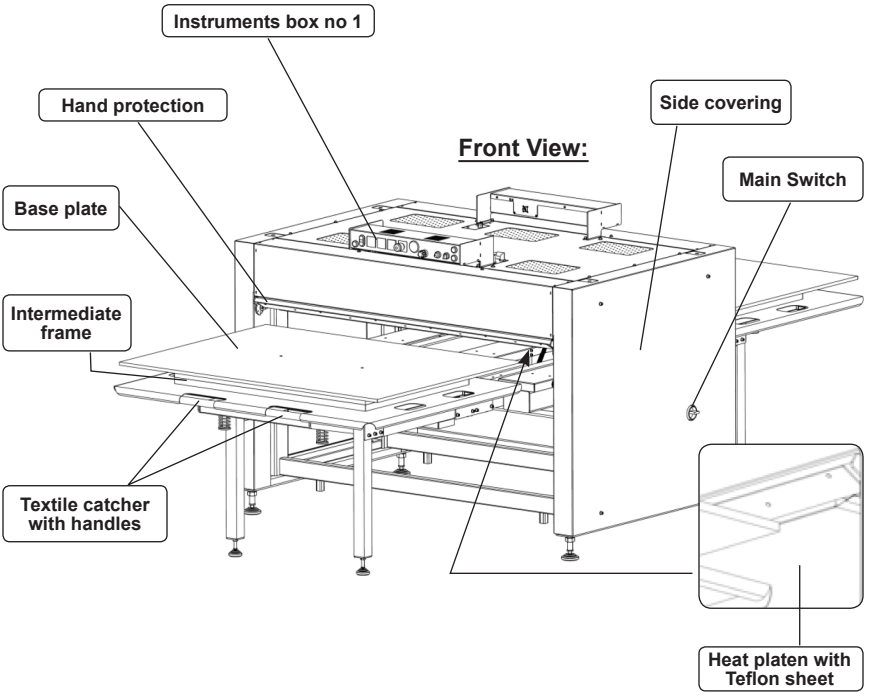
Dye sublimation inks are translucent. As a result, printing on dark substrates can only occur if printing on a white underbase (in the case of fabric) or on a white panel (in the case on non-textile).

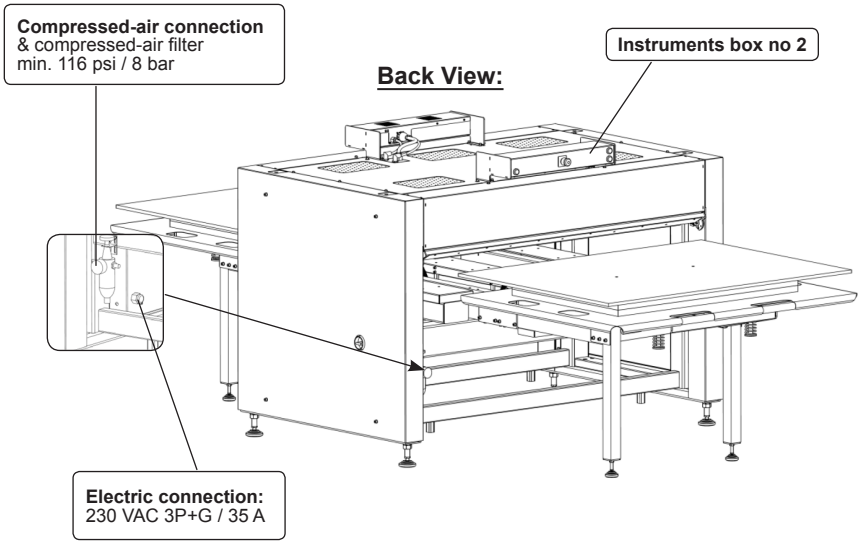
Over the past 20 years, the use of inkjet printers to create sublimation dye transfers has grown exponentially, partly because of its growing popularity, but also because of the declining price of dedicated desktop-size sublimation printers. Popularization of the technique has created such a demand that these printers have now become accessible to any small business willing to expand into this field.

Key among sublimation’s advantages is the ability to produce accurate colors, fine detail and durable prints.

NOTE: There are many variables involved in sublimation such as the size, shape and type of coating of the substrate which affects the sublimation process. Other variables such as different brands of sublimation printers, inks and paper all require a certain amount of trial and error. Always refer to SUGGESTED SUBLIMATION GUIDELINES for temperatures and times for various substrates according to the substrate manufacturer.

OVERVIEW


Instruments box no 1
Hand protection
Side covering
Front View:
Main Switch
Base plate
Intermediate frame
Textile catcher with handles
Heat platen with Teflon sheet


Compressed-air connection
& compressed-air filter
min. 116 psi / 8 bar
Instruments box no 2
Back View:
Electric connection:
230 VAC 3P+G / 35 A

SAFETY INSTRUCTIONS

Read through the following advice before taking the heat press into service. It is necessary to consider all warnings and advice indicated on the heat press.

MANUAL CONVENTIONS

You can find this symbol in particular on important safety advice in this instruction manual, in which you will be advised about the right handling of the heat press. It is necessary to pay attention to this advice. Non-observance can lead to injuries of the user.

Security advice which is marked with this symbol, is necessary to pay attention to. In case of non observance, burns of the user may occur. You can also find this symbol marked on some parts on the heat press.

A symbol like this advise you, that through crushing danger of injuries exists. You can also find this symbol marked on parts of the heat press.

This symbol can be found on particular components of the heat press and it indicates that electric components have been installed here which are subject to a voltage of 400 V resp 230 V.

Remove such marked components only after having switched off the heat press and separated from electric current.

Otherwise you endanger your life!

This symbol is used in the instruction manual to draw your attention to the fact that it is necessary to separate the heat press form electricity for the indicated works.

IMPORTANT SAFETY REGULATIONS

This heat press presents dangers if used inappropriately, or when used for a non intended purpose. For this reason, read carefully all of the following advice:

- The heat press may only be used for printings on pressure and heat resistant materials. Every other use is seen as not intended. If still used for non intended service, the manufacturers will not be liable for the resulting damages. Unauthorized reconstructions and modifications are not permitted, because they will interfere with the security and the service of the machine.
- Don't insert any objects through the case notch. Also make sure that no fluid will reach the heat press and the heat element.
- The applied mains voltage has to be the same as the stated mains voltage on the type plate of the heat press.
- Watch out not to damage the power plug.
- If you connect the heat press over an extension cable, please make sure that the overall nominal current (of all connected equipment) does not exceed the allowed current load. Further more make sure that the overall nominal current of all connected equipment does not exceed the allowed power supply of the connected electrical outlet.
- Never try to maintain the device on your own.

- To ensure safe operations of the heat press, the operator has to make sure that non-authorized people neither work on the machine, nor set the machine into operation, or perform any other operations on the machine.
- All operations on the heat press can only be accomplished by specialized staff who gained an appropriate instruction or training.
- General legal and other binding regulations for accident prevention and environmental protection are to be considered in addition to this instruction manual.

WORKING WITH THE HEAT PRESS

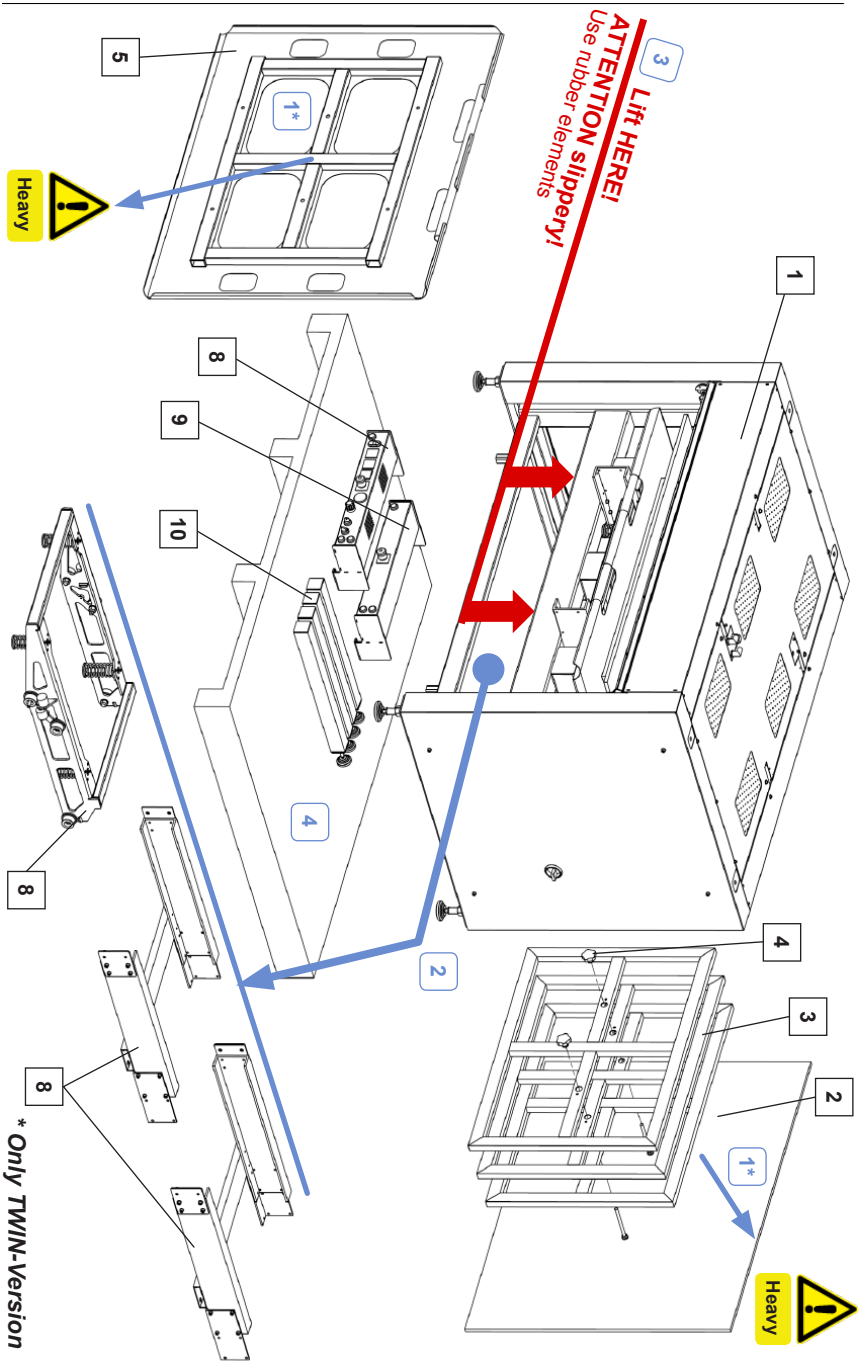
- Look out not to touch the lower part of the heat element while the press is in service, otherwise burns may occur. Please also note that there is still a danger to suffer burns even after turning off the heat press for a longer time.
- Bear in mind that the hand protection (see chap 1) and the housing may undergo strong heating.

- During the service of the heat press, and especially during the start of the heat press, never put your hand between the work plate and the heat element, or the heat press. Furthermore, make sure that no other person can reach the heat press.

- If you print articles of more than 1mm / 0,05 inch thickness which cover less than 1/3 of the base plate follow instructions in chapter 6.6 by all means to avoid heavy damage.

- Make sure that the articles to be printed do not have sharp edges, burrs or similar which may damage the Teflon foil and / or the heat platen. If sharp objects (like zips) are unavoidable they must be covered by tear-proof and heat resistant material.

UNPACKING & INSPECTION



INSTALLATION & SETUP

1. *Cut open the transport straps for the base plate (pos 2) and the textile catcher (5).

ATTENTION: Parts may tilt and they are heavy!

Lean both part carefully against a wall.

Remove star grip nuts (4) from the base plate (2) and take the three intermediate frames (3) from the thread bars. Put everything aside.

2. Carefully pull the trolley* (6) and the guide rail(s) (7) out of the clearance.
3. Lift the heat press (1) from the pallet as indicated and put it into its position.

ATTENTION: The varnished surface is slippery. Use rubber elements on top of the fork of the lift truck!

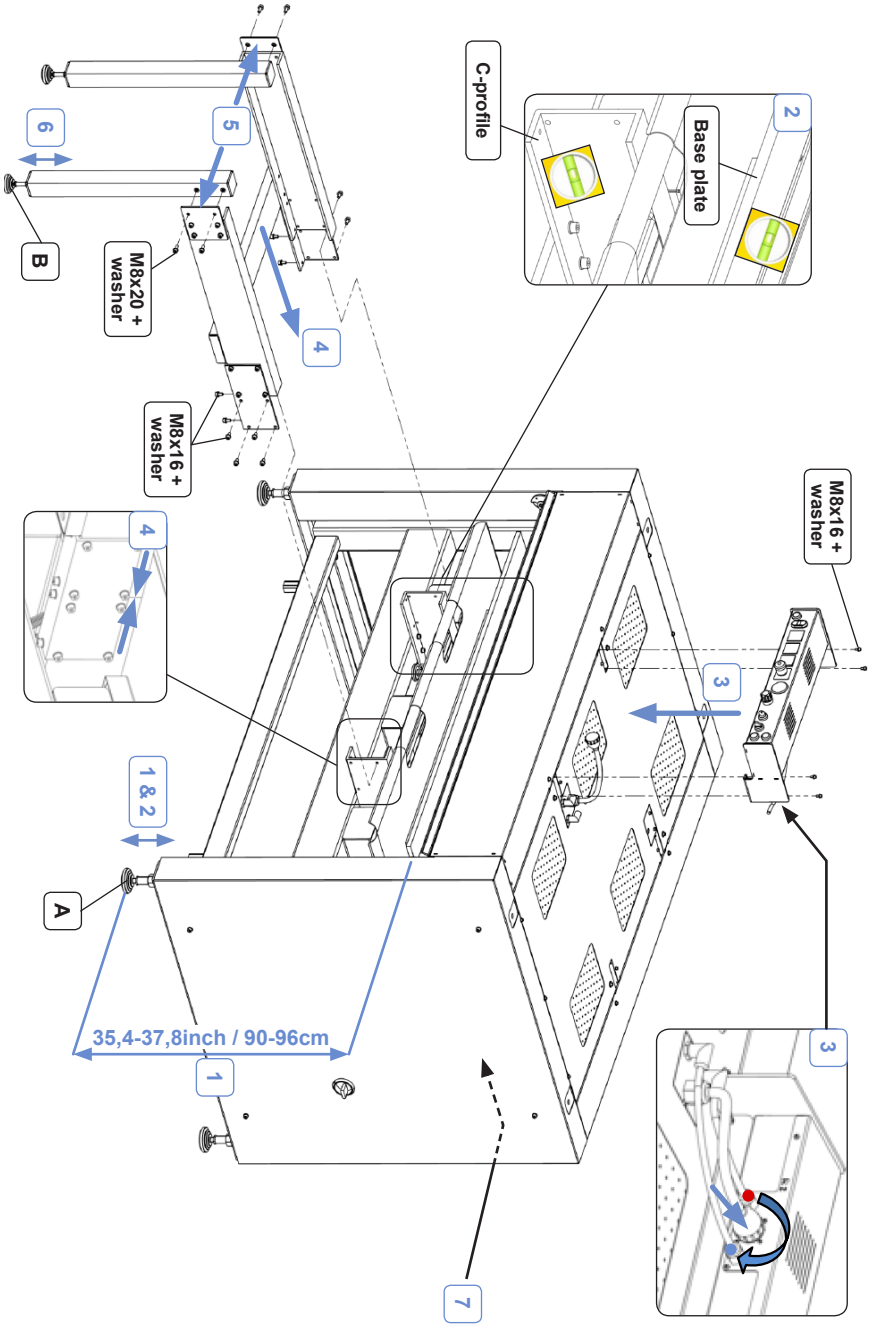
Make sure to provide for sufficient space to work and put up racks. Look at chapter “11 Technical data” to find out more about the individual measurements and the minimum distances (X&Y) to be kept to surrounding walls, shelves, etc.

4. Unpack the remaining components on the pallet and check scope of delivery.

** Only TWIN-Version*

SHIPMENT		
Pos.	Quantity Solo | Twin	Item
1	1 | 1	Heat press
2	0 | 1	Base plate
3	0 | 3	Intermediate frame
4	0 | 2	Star grip nut
5	0 | 1	Textile catcher
6	0 | 1	Trolley
7	1 | 2	Guide rail
8	1 | 1	Instruments box no 1
9	0 | 1	Instruments box no 2
10	2 | 4	Stand
-		Various screws and washers
-	1 | 1	Carbon pin with spring
-	1 | 1	Open end wrench size 14, 17, 24 & 36 mm
-	1 | 1	Allen wrench size 8 mm
-	1 | 1	Spirit level

ALIGNMENT & MOUNTING



ALIGNMENT & MOUNTING

HEAT PRESS ALIGNMENT AND FRONT PLATE MOUNTING

1. Adjustment is effected by the four stands A to a height between 90 and 96 cm / 35,4 and 37,8 inch.
2. Bring the heat press into a horizontal position by way of adjusting the four stands up or down.
   a. To do so place the spirit level included in the shipment first on the base plate as shown in detail in figure 2 and align the heat press in a cross direction.
   b. Subsequently place the spirit level on the C-profile to align the heat press in a longitudinal direction.
3. Mount instruments box no 1 (M6x12+ washer) and connect the pneumatic tubes. Connect the plug with the casing by moving it onto the bushing and simultaneously turning the nut clockwise.
4. Push the guide rail onto the C-profile mounted in the heat press and fix all screws (M8 x16+washer).

ATTENTION: Mind the two guide rails which are not identical for the TWIN version. There is one guide rail for the front and one for the back side. There is a silvery (unvarnished) strip on the right resp left vertical interior side of the guide rail. There is also such an identical strip on one of the two C-profiles which are mounted in the heat press. The guide rails must be aligned in a way that the strips of both the guide rail and the C-profile are on the same side.

Now first tighten the screws on the lower side and then the screws on the sides. Make sure that the space between the guide rail and the C-profile is as narrowas possible (detail view 4).

5. Fix the stands (M8x20+washer).
6. Fix the stands B in a way to assure a skid proof position.
7. Unlock the transport fixture of the trolley on the backside of the heat press and pull it out at the front.

   Check if the trolley remains in any chosen position. If it doesn't the position of the heat press is not exactly horizontal and you have to repeat step 2.2.

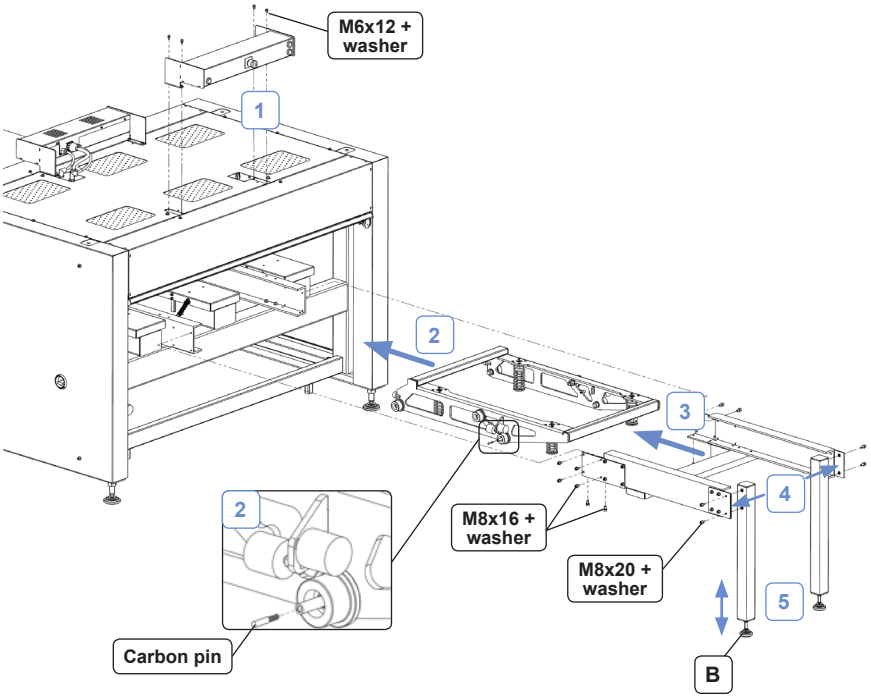
TWIN ASSEMBLY

BACKPLATE MOUNTING (only TWIN-version)

1. Fix the instruments box no 2 (M6x12+washer). Connect the plug with the casing by pushing it onto the bushing and by turning the nut clockwise.
2. Roll the 2nd trolley into the guide rails until you can see nothing but the front pair of rolls. Now push the carbon pin with its spring in front into the drill hole of the left axis (detail view 2). Keep your finger on the carbon pin while you roll the trolley completely into the heat press.
3. Push the 2nd guide rail onto the C-profiles mounted in the heat press and fix all the screws (M8x16+washer).

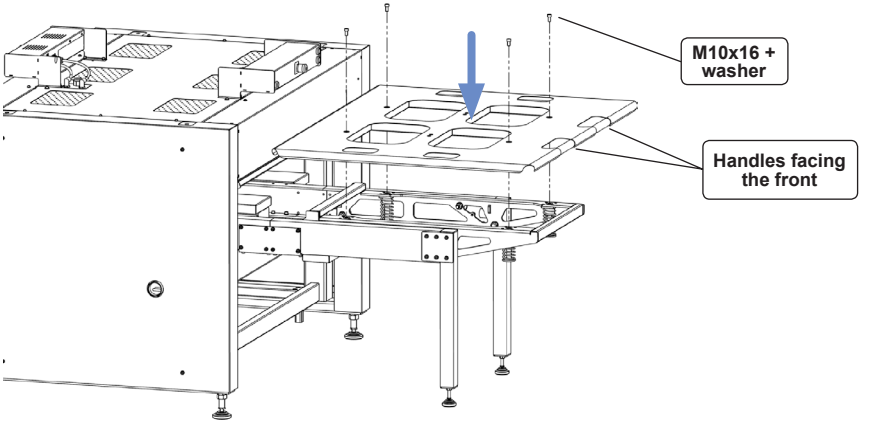
   Make sure that the silvery (unvarnished) strips of the guide rail and the C-profile are on the same side.

   Tighten first the screws on the lower surface and then at the sides. Make sure that the space between the guide rail and the C-profile is as narrow as possible.
4. Fix the stands (M8x20+washer).
5. Fix the stands B in a way to assure skid proof stability on the floor.



MOUNTING TEXTILE CATCHER (Only TWIN-version)

Screw the textile catcher firmly to the trolley (M10x16+washer).



BASE PLATE MOUNTING / HEIGHT ADJUSTMENT

The intermediate frames serve to adapt the space between work and heat platen according to the thickness of the material to be printed.

(See section „6.1 Base plate height adjustment“)

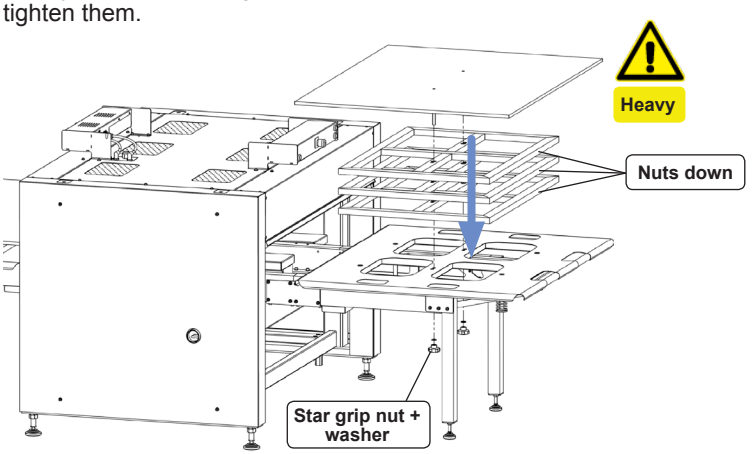
The following description shows the assembly. If you need to adapt the height later during operating the heat press just follow the instructions in a reverse order.

ASSEMBLY:

Put the three intermediate frames on top of one another onto the textile catcher. The nuts serve to hit the center and must face downwards. Now place the base plate with the thread bars facing downwards on the uppermost intermediate frame.

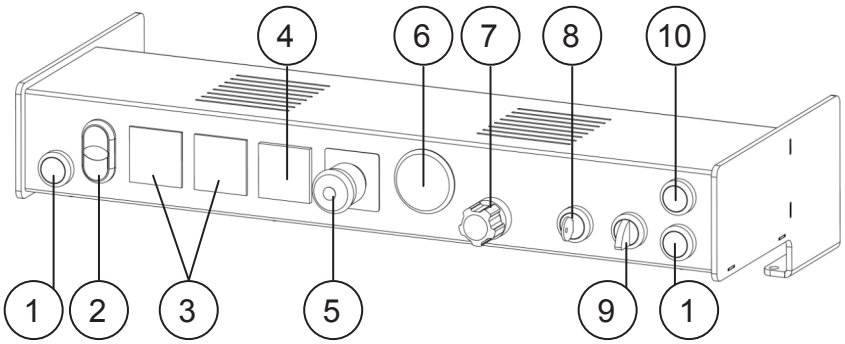
TIP: Two people hold the base plate while another person inserts.

Finally screw the star grip nuts and washer from below onto the thread bars and tighten them.



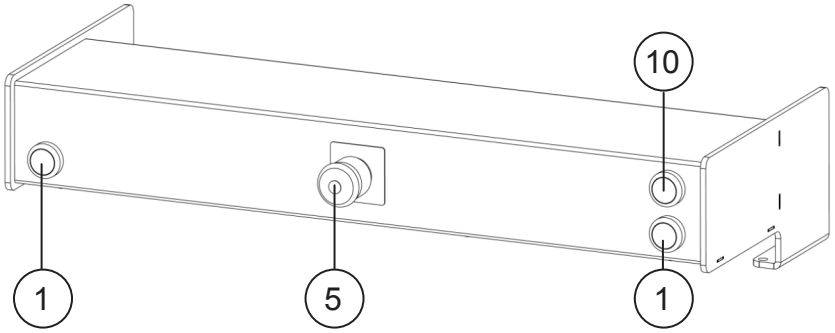
INSTRUMENTS BOX(S)

INSTRUMENTS BOX NO 1



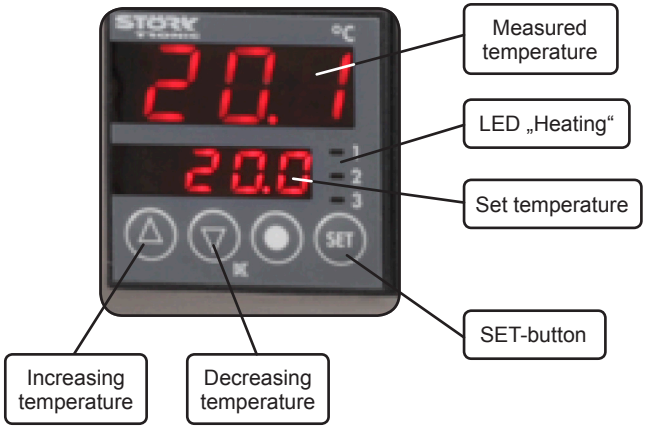
INSTRUMENTS BOX NO 2

(Only TWIN-Version)

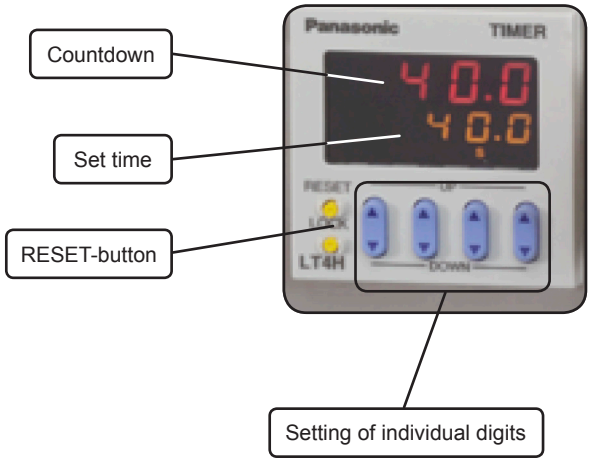


1	**START-button** (Press simultaneously to start printing operation)
2	**ON- / OFF-switch** (Switches on / off from / into stand-by)
3	**Temperature control** no 1 & 2 (See Chap. 6.3)
4	**Time control** (See Chap. 6.4)
5	**EMERGENCY-STOP-control** (Switches off in case of emergency; see chap 7)
6	**Manometer** (see chap 6.2)
7	**Pressure relief valve** (see chap 6.2)
8	**Key operated switch f. operation mode** (see chap 6.5): 0 – Manual 1 – Automatic 2 – Maintenance / setting
9	**Changeover switch** (see chap 6.6) - Left: Centric print - Right: Allover print
10	**STOP-button** (Interrupt printing operation)

Temperature control (pos 3)**:**



Time control (pos 4)**:**



OPERATION

ELECTRIC CONNECTION

We herewith explicitly point out that considerable (mortal!) dangers for people and objects may arise if the electric installations have not been carried out in an orderly way!

The heat press has been delivered with or without power plug depending on the country.

- If the heat press is fitted with a power plug connect it with a suitable socket.
- Has delivery been effected without plug the cable of the heat press is either connected with a plug which is customary in that country or it will be directly connected to a fuse box.

Such works must exclusively be effected by trained experts!

In any case make sure that the applied electric components (plugs, cables, fuses etc) are appropriate for the voltage and amperage and that they are connected correctly. Also consider possibly existing safety instructions which are specific in your country.

The data for the electric interfaces can be found in section “11 Technical data” as well as on the reverse side of the heat press on the type plate.

COMPRESSED-AIR CONNECTION

Connect the compressor resp the compressed-air system through a compressed-air tube with the filter on the backside of the heat press.

The initial power of the compressed-air should be at least 8 bar.

ATTENTION: The pressure control valve at the filter has been set at the factory and must not be changed!

The pressure control valve inside the instruments box no 1 serves to control the operating pressure.

SWITCHING THE HEAT PRESS ON AND OFF

Turn the main switch to „ON“. Now the heat press is in a stand-by mode. Press the green button „ON“ of the ON/OFF switch (Pos 2). The instruments are switched on and the heat press is ready for operation.

When you press the OFF-switch of the ON/OFF switch (Pos 2) the heat press falls back into a stand-by mode. The heating is also switched off when in stand-by mode – the temperature is not maintained. In order to switch the heat press off completely turn the main switch into „OFF“-position (recommended at the end of the working day).

6.1 HEIGHT ADJUSTMENT OF THE BASE PLATE

The height adjustment of the base plate serves to adapt the space between base and heat plate according to the thickness of the materials to be printed. For flat materials like e.g. textiles install all three intermediate frames. If you wish to print thicker materials remove the number of frames correspondingly (see section 4.4).

The space measurements available result as follows:

3 frames .....1.4 inch / 35 mm
2 frames .....2.6 inch / 65 mm
1 frame .....3.7 inch / 95 mm
no frame .....4.9 inch / 125 mm

ATTENTION: If you use a foam mat or something similar to put underneath the space is reduced accordingly.

ATTENTION: In order to protect the heat press from damages the maximum range at closing the heat press is limited. Has the chosen space between base and heat plate been to big the printing process is interrupted automatically. In this case insert another intermediate frame.

SETTING OF OPERATING PRESSURE

The operating pressure is controlled by the pressure control valve (Pos 7) and can be read from the manometer (Pos 6). Turn the pressure control valve clockwise to increase the pressure and counterclockwise to reduce it.

Maximum pressure is 6 bar.

6.3 TEMPERATURE CONTROL

In order to secure constant and even heat supply two separate heating systems have been installed with an individual temperature control (Pos 3) for each of the heating units. Set equal temperatures for both temperature controls.

The upper line indicates the actual temperature (REAL-value), the lower indicates the set temperature (SET- value).

Keep the SET-button pressed to change the value following the directions of the arrows to lower or increase the value.

If you select a higher temperature, the LED “heating” lights up indicating heating until the REAL-value has reached the SET-value.

Is the temperature decreased it may take some time to reach the SET-value. In order to accelerate this process push the base plate with foam mat into the heat press and start printing. Afterwards pull it out again to let it cool down.

Repeat the process until you have reached the set value.

Bear in mind that the REAL-value always fluctuates by some degrees around the SET-value.

Maximum temperature is 410°F / 210°C.

OPERATION

TIME SETTING

The remaining printing time is indicated in the upper line of the time control (pos 4) after initiating the printing process. The lower line indicates the set printing time. Change of printing time. Use the blue buttons to set the value of each digit individually. Finally confirm the setting by pressing the RESET-button.

6.5 SELECTING OPERATING MODE

The key operated switch (pos 8) serves to select between two different modes of operation to work (manual and automatic) and one mode for maintenance and setting:

0-Manual:

Push the base plate completely into the heat press and press both of the green START-buttons (pos 1). Hand protection is lowered. When the hand protection is fully closed printing starts automatically.

1-Automatic:

The same as manual operation with the only difference that the hand protection is lowered automatically as soon as the base place is fully inserted.

2-Maintenance / setting

This operation mode is NOT admitted for normal printing operations! It exclusively serves for maintenance and setting purposes. If this mode is activated no further person except the expert service staff is allowed to be within reach of the heat press!

Functions are as in manual operation mode except for the hand protection which is deactivated. The printing process starts immediately after pressing the two START-buttons. This may be useful if, e.g., the behavior of a certain material in print must be observed.

Go back to manual or automatic mode for current activities when you have finished maintenance / setting works.

In order to prevent the erroneous or intended switch of operation modes the key may not remain in the heat press. Keep it in a safe place where unauthorized people have no access.

6.6 SELECTING CENTRAL / ALLOVER PRINT

The heat press possesses three in-line pressure elements (similar to cylinders). The selection switch (pos 9) allows you to engage or disengage the two outside pressure elements:

Position on the right “allover“:

All three pressure elements are being supplied with compressed air for the printing operation.

This is the standard operation setting.

Position on the left “central“:

Only the central pressure element is supplied with compressed air.

Use this setting if the article to be printed has a thickness of more than 1 mm and covers less than one third of the base plate.

ATTENTION: Always arrange the articles to be printed in the center of the base plate.

PRINTING OPERATION

Switch the heat press on and proceed with the settings. The heat platen starts heating.

For best printing results from the very beginning it is necessary to heat the foam mat(s) and the base plate(s) as well. To do so push the base plate together with the foam mat (but without any other article) into the heat press and start the printing process. Repeat this process until the base plate’s lower side is heated. Apply a longer printing time to facilitate heating.

If SET-temperature is reached and the base plate is hot you can start your printing process. Arrange the article to be printed and the motif centrally on the base plate. Push the base plate into the heat press. Avoid sudden movements to prevent the motif from sliding away.

In accordance with its operation mode the heat press starts automatically (automatic mode) or you have to push the two start buttons (manual mode). When the printing time is expired the heat press opens automatically and you can pull out the base plate or push it out with the second base plate.

In order to stop the printing process prematurely press the red STOP-button (pos 10).

In case of emergency activate the EMERGENCY-STOP-control (pos 5). The heat press switches into stand-by-mode hereafter. If the hazardous situation is over pull at the cap of the EMERGENCY-STOP-control and switch the heat press on again by using the ON/OFF-switch.

ATTENTION:

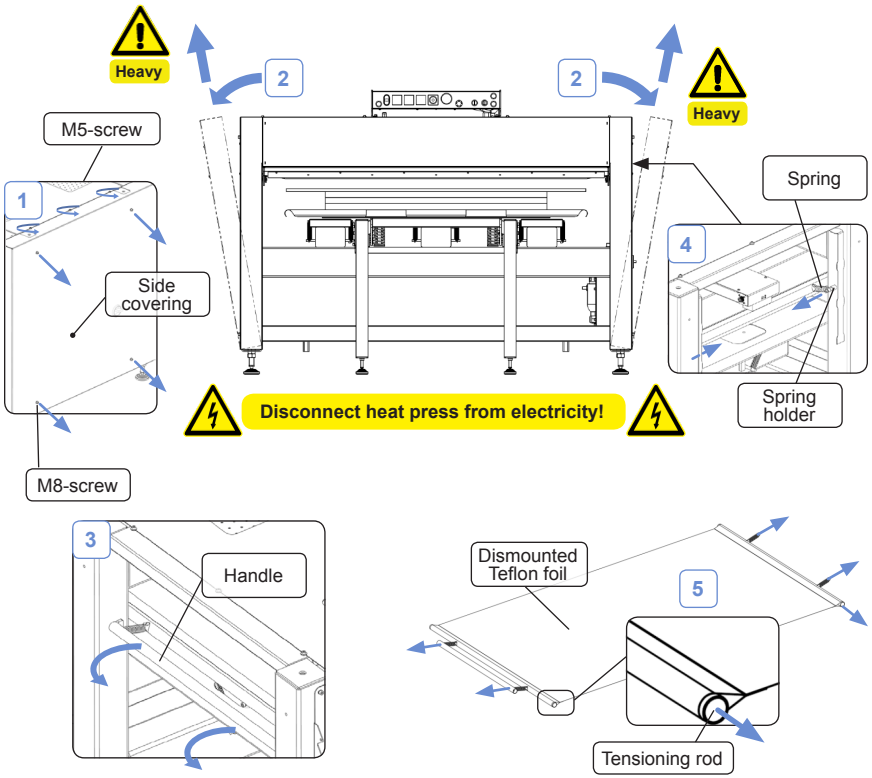
- It is recommended to use an elastic mat all the time.
- Avoid articles with sharp edges, burrs or similar. If sharp-edged articles are unavoidable (e.g. zips) they must be covered by tear- and heat-proof material.

CHANGING TEFLON FOIL

First of all disconnect the press from electricity!

Should you change the Teflon foil during operation bear in mind that the hot Teflon foil and the fixing material are hot. That is why you must wear heat-proof gloves.

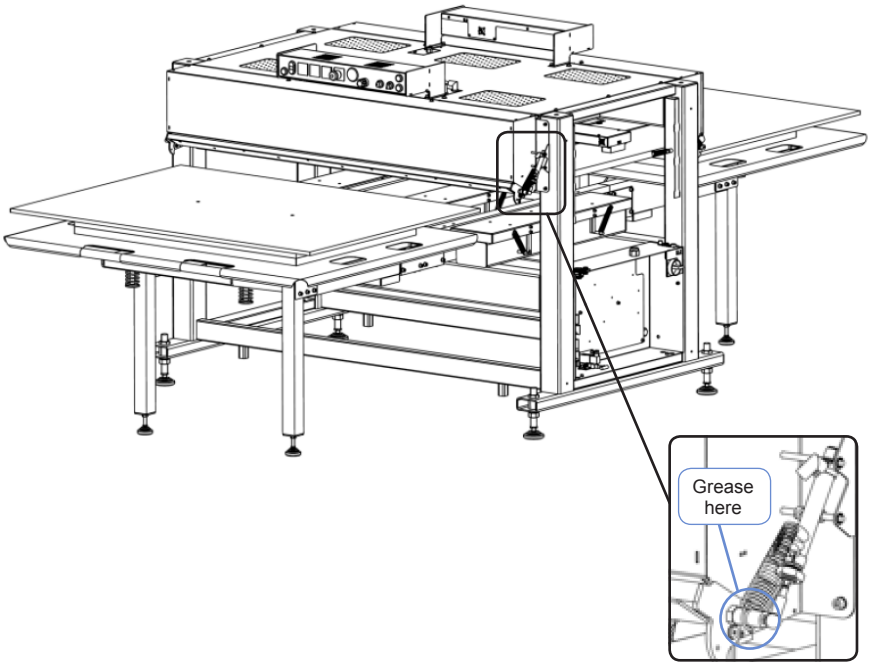
1. Loosen the three M5 screws on the left and right side covering by turning them half a circle or a full circle. Remove the four M8 screws on both sides.
2. Remove both side coverings. To do so tilt the side coverings into your direction and lift them carefully together with a second person until the bottom edge is free.
3. Push a base plate into the heat press. Pull the handle upwards in a diagonal direction, then move it downwards and place the whole Teflon foil on the base plate.
4. Pull the two springs from the spring holders on the opposite side. Now the Teflon foil lies on the base plate. Pull the base plate out of the heat press.
5. Remove the springs and pull the tensioning rods out of the eyelets of the Teflon foil.
6. Exchange the Teflon foil for a new one and follow the instructions in the opposite direction to build it in.



- Check regularly if water has accumulated in the compressed air filters. If there is water in the glass drain it by turning the black valve at the lower end of the filter.
- Check the surfaces of the C-profiles and the guide rails occasionally to see if there is dirt. Clean them if need be with a dry cloth or a detergent.
- Should you notice that the hand protection cannot be moved unobjectionably the springs need greasing.

  To do so remove both side coverings as explained in point 1 in chapter 8.

  Grease the two (SOLO) resp four (TWIN) springs in the marked points with all-round grease.



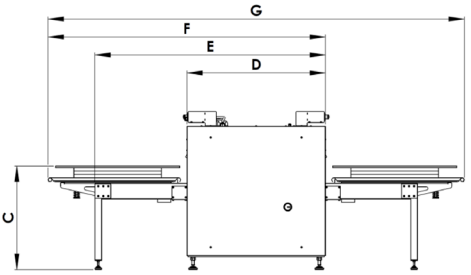
TROUBLESHOOTING

	PROBLEM	REASON	MEASURES
1.1	Heat press does not switch on		See chap 5.3, if problem continues check following points:
1.2		EMERGENCY-STOP pressed	Pull cap of EMERGEBCY-STOP off
1.3		Mains	Check plugs and cable
1.4		Fuse box	Check - Cable connection; - Leaver ON; - Fuses
2.1	Temperature control shows error	Temp.-sensor or -control defect	Please inform us by phone / e-mail
2.2	Temperature control indicator blinks	Alarm for too high or too low temperature	
3	Heat platen does not heat / heats irregularly		Please inform us by phone / e-mail
4.1	Heat press does not close	Base plate not completely closed	Push base plate fully to dead stop / check if trolley rolls unimpeded
4.2		Set manual or maintenance mode	Press green START-button
4.3		Hand protection does not close (manual or automatic mode)	Check if hand protection jammed; compressed air tube kinked; manometer at compressed air filter shows min. 7.7 bar; Effect maintenance if necessary (see chap 9)
4.4		Hand protection does not close completely	Check if both hand protections have reached dead stop by lightly pushing with your hand. If not see 4.3
4.5		Pressure set too low	Increase pressure (see chap. 6.2)
5	Printing process is interrupted	Too much space between heat and base plate	See chap. 6.1

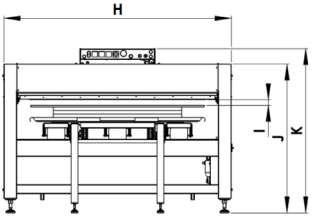
6	Heat press does not build up enough pressure	Only center printing element active	Move changeover switch to the right
(see chap. 6.6)			
		Operating pressure too low	Increase operating pressure (chap. 6.2) Check basic pressure of compressor manometer at compressed air filter (min. 7.7 bar)
7	Base plate rolls away	Heat press / guide rails are not horizontal	See chap. 4.1 point 2
8.1	Printing result irregular	Wrong settings for printing time, temperature or operating pressure	Change settings
8.2		Foam mat (or similar) old	Replace
8.3		Problems with printer, ink, paper	

If you have any questions please turn to us:
Phone: 800-835-0606
FAX: 620-231-1598
E-MAIL: sales@hixcorp.com

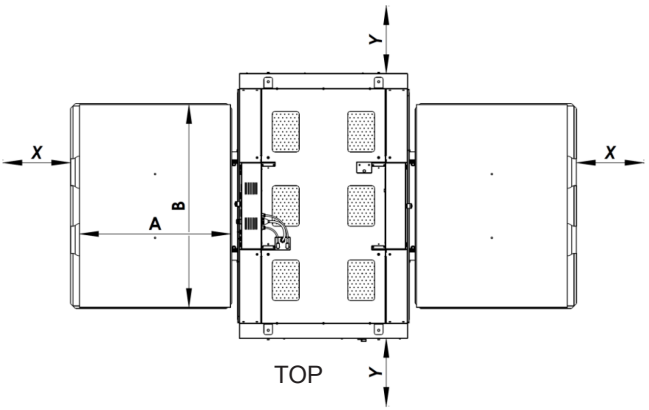
DIMENSIONS



RIGHT



FRONT



TOP

DIMENSIONS	A	[inch / cm]	44 / 112
	B	[inch / cm]	59 / 150
	C	[inch / cm]	35.4-37.8 / 90-96
	D	[inch / cm]	49.6 / 126
	E	[inch / cm]	81.9 / 208
	F	[inch / cm]	98.4 / 250
	G	[inch / cm]	148 / 376
	H	[inch / cm]	77.2 / 196
	I*	[inch / cm]	1.4-2.6-3.7-4.9 / 3.5-6.5-9.5-12.5
	J	[inch / cm]	50.4 / 128
	K	[inch / cm]	55.5 / 141
	X**	[inch / cm]	Min. 47.2 - 59 / 120 – 150
	Y**	[inch / cm]	Min. 39,4 / 100
* Space measurements between heat and base plate ** Minimum distance to surrounding walls			

ELECTRICAL

Weight SOLO | TWIN	[kg]	700 | 820
Heating power	[kW]	12,6
Electric connection		230 VAC 3 P+G | 50/60 Hz
Max. amperage	[A]	35
Compressed air connection		116 psi / 8 bar
Max. printing power at 87 psi / 6 bar	[t / kN]	12 / 120
Max. printing pressure at 87 psi / 6 bar		4,6 kg/inch² / 750 g/cm²
Printing time	[sec]	0 – 9999
Temperature	[°F / °C]	Up to 410 / 210

WARRANTY

(Effective October 30, 2015)

HIX will automatically register the equipment on the date it was shipped to you or your distributor. If the equipment was not purchased directly from HIX, but through a distributor (either domestic or foreign), please keep a copy of their sales invoice showing the serial number and date it was sold/shipped to you with this warranty. In this case, we will use the distributor's invoice date as the beginning warranty date. **STAPLE A COPY OF YOUR RECEIPT TO THIS WARRANTY** and keep in a safe place to provide verification of your warranty should a problem occur. Thank you.

Please fill in the following information and attach a copy of your receipt for your records.

Date Purchased: _____ From: _____

Model #: _____ Serial #: _____

This warranty applies to equipment manufactured by the HIX Corporation (HIX), Pittsburg, Kansas, U.S.A. HIX warrants to the original purchaser, its Ovens and Dryers, Heat Transfer Presses, Mug Presses, Mug Glazer, Retensionable Screen Frames, Textile Printers, Spot Heaters, and Exposure Units against defects in workmanship and material, except for wear and tear for a period of "One Year" from the date of purchase. Large format heat presses are warranted as follows: frame and body construction-lifetime; moving components-five years; electrical components-two years. HIX warrants its Accessories, Reten Splines/Hardware/Tool Kit, and Shuttle for a period of 90 days from the date of purchase. Thermatrol and doughXpress products are covered under separate warranty.

In the event of a defect, HIX, at its option, will repair, replace or substitute the defective item at no cost during this period subject to the limitations of insurance and shipping costs stated below.

In the case of heat transfer presses (except the Hobby Lite), HIX warrants the heat casting for the "Life" of the machine for the original purchaser. If a part becomes obsolete at the time for repair, and/or cannot be reasonably substituted for, HIX will credit, at half the then current list price or last recorded price, only that part toward a new machine or any product HIX offers. This credit offer shall be the sole responsibility of the HIX Corporation in the event of an obsolete part.

This warranty does not cover belts, rail tape, pads, mug wraps, canvas, rubber blankets, bulbs, glass, rod ends, turn buckles on printers or damages due to accident, misuse/abuse, alterations or damage due to neglect, shipping or lack of proper lubrication or maintenance. HIX shall not be responsible for repairs or alterations made by any person without the prior written authorization by HIX. This warranty is the sole and exclusive warranty of HIX and no person, agent, distributor, or dealer of HIX is authorized to change, amend or modify the terms set forth herein, in whole or in part.

In the case of a problem with the equipment identified herein, HIX Corporation should be contacted during regular business hours to discuss the problem and verify an existing warranty. HIX personnel will assist the customer to correct any problems which can be corrected through operation or maintenance instructions, simple mechanical adjustments, or replacement of parts. In the event the problem cannot be corrected by phone, and upon the issuance of a return authorization by HIX, the equipment shall be returned to HIX or an authorized service representative. All insurance, packaging and shipment/freight costs are solely the responsibility of the customer, and not that of HIX, and HIX shall not be responsible for improper packaging, handling or damage in transit. Contact HIX customer service for complete return authorization information. Correct shipping boxes are available from HIX.

This expressed warranty is given in lieu of any and all other warranties, whether expressed or implied, including but not limited to those of merchantability and fitness for a particular purpose, and constitutes the only warranty made by HIX Corporation.

In no event shall HIX's liability for breach of warranty extend beyond the obligation to repair or replace the nonconforming goods. HIX shall not be liable for any other damages, either incidental or consequential, or the action as brought in contract, negligence or otherwise.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

HIX® CORPORATION

Design and Manufacturers of Graphic Imaging, Commercial Food, Industrial and Custom Drying Equipment

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