
Watkiss P2T 2-Knife Trimmer User Manual

English, Issue 1a, October 2016



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Introduction to the Watkiss P2T 2-Knife Trimmer

Thank you for choosing the Watkiss P2T 2-Knife Trimmer.

Your Manual

This User Manual describes how to do these tasks.

- Operate the P2T 2-Knife Trimmer
- Find and correct error conditions
- Do normal maintenance tasks

Operator training is given when the machine is installed. To make sure you use your machine correctly, read your manual.

This User Manual does not describe the operation of the booklet maker. If needed, refer to your booklet maker user manual.

In this manual the 'P2T Two Knife Trimmer' is referred to as the 'Side-Trimmer'.

Safety Information

Safety information is included in the separate "Safety Information Manual".
Read the safety information before you use your PowerSquare.

Warning and Caution Messages

The warning and caution messages used in this manual are shown below.



WARNING: A *WARNING* message tells you that a procedure or operation can be dangerous. To prevent injury, you must follow the instructions.



CAUTION: A *CAUTION* message tells you that a procedure or operation can damage the machine or the product. To prevent damage, you must follow the instructions.

Installation

Your Side-Trimmer must be installed by a Watkiss approved service engineer. Special knowledge is needed to install the machine.



CAUTION: *Only connect the machine to a mains power supply of the correct voltage with a good earth-connection. The correct machine-voltage is shown on the label at the mains power supply input on the rear of the machine. If the machine is connected to the wrong supply, the warranty is cancelled.*

How to Get Help

If you have any questions or problems, refer to the problem solving section in this manual (see “Error Conditions, Problems and Solutions” on page 25). Contact your supplier for further help.

Description of the Side-Trimmer

Introduction

The Watkiss Side-Trimmer completes the booklet-making process by trimming the top and bottom edges of the book. The fore-edge of the book is already trimmed by the booklet maker, so this additional module provides a professional solution for full bleed printed work.



P2T Side-Trimmer

FIGURE 1. Side-Trimmer

The Side-Trimmer

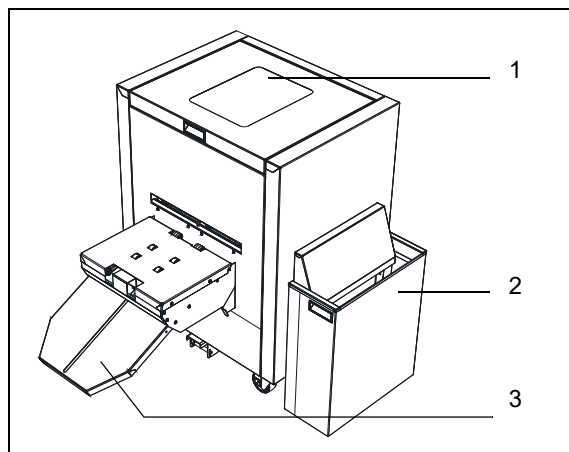
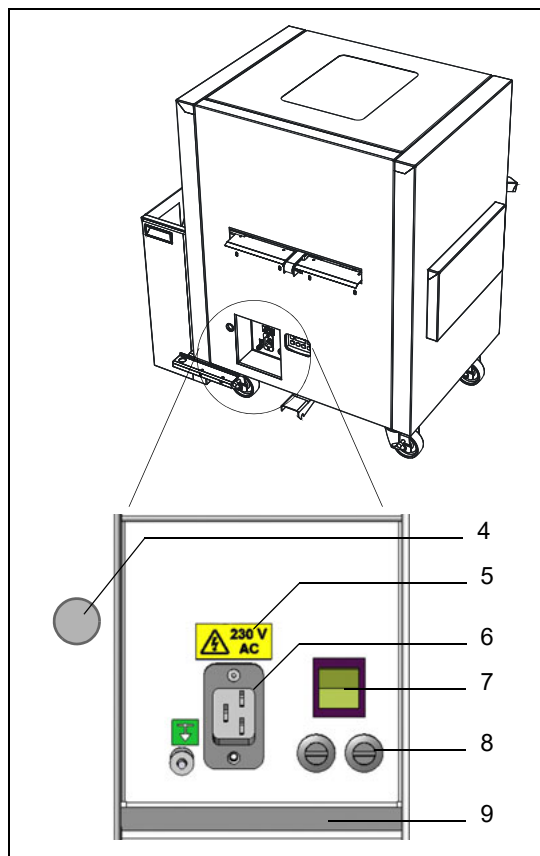


FIGURE 2. Side-Trimmer Components



Component - Function Table

No.	Component	Function
1	The Top Cover	The top cover opens to allow error recovery.
2	The Trim Bin	The trim bin collects the paper that is trimmed from the top and bottom of the book. If the PowerSquare is configured with a Book Stacker and a P2T Side-Trimmer, the P2T trim bin is located in the Book Stacker.
3	The Stacker	The stacker collects the finished books.
4	Communications cable	The communications cable connects the Side-Trimmer to the PowerSquare.
5	Voltage label	The voltage label displays the machine voltage.
6	Mains power input connector	The mains power input connector is used to connect the Side-Trimmer to mains electrical power.
7	Mains power ON/OFF switch	The mains power ON/OFF switch turns ON the Side-Trimmer or turns OFF the Side-Trimmer.

No.	Component	Function
8	Fuses	The fuses make sure the operator and the machine are protected if there is an electrical problem or short circuit.
9	Rating and serial label	The rating label displays the type of machine, serial number, power use and fuse information.

CHAPTER 2 **How to use the Side-Trimmer**

Introduction

This chapter gives information on how to use the Side-Trimmer.

For information on how to operate the booklet maker, refer to the booklet maker documentation.

Information about the user interface is included in “The User Interface” on page 7.


Information about standard procedures, for example opening covers to clear a paper jam, is included in “Standard Tasks” on page 11.

Turn On the Side-Trimmer

Procedure

1. Connect the Side-Trimmer to the mains power supply.
2. Use the mains ON/OFF switch to turn ON the Side-Trimmer.

Enter the Job Settings

Make the settings in the **BASIC**  window on the touch screen of the booklet maker. See “The User Interface” on page 7 for more information.

- The side trim dimension is calculated automatically according to the **PAGE SIZE**.
- To change the size and trim position, touch **SIDE TRIM**. See “Side-Trim” on page 8.

- If the side-trim size is 190mm or less, remove the book supports. See “Remove and re-fit the Side-Trimmer Book Supports” on page 46.

Adjust the Stacker

Adjust the stacker according to the size and thickness of the finished book. See “Adjust the Side-Trimmer Stacker” on page 14.

During the job

- Unload books from the stacker before the stacker is full.
- Empty the side-trim bin from time to time. The booklet maker displays a message if the side-trim bin is full. See “Empty the Side-Trim Bin” on page 13.

CHAPTER 3 The User Interface

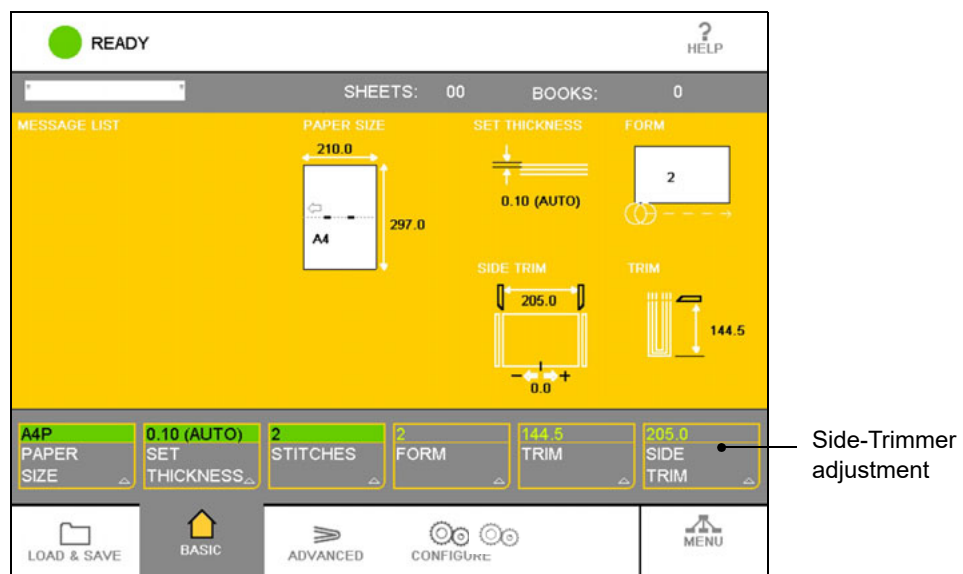


FIGURE 3. The booklet maker Touch Screen

The Job Mimic

The job mimic shows the current machine status.

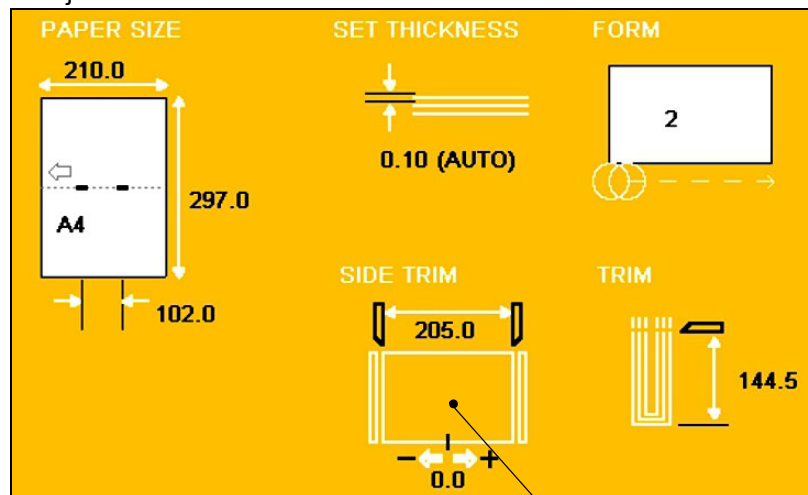
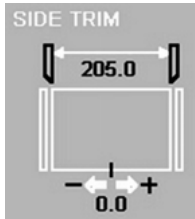



FIGURE 4. The Job Mimic

Side-Trimmer status


Icon	Information
<p>Side-Trim</p> 	<p>The side-trim setting is displayed.</p> <p>The number at the top shows the trim size.</p> <p>The number at the bottom shows if the trim is offset from the centre-line.</p> <p>A red X shows that the side-trim function is not active.</p>

The BASIC Window

The **BASIC**  window gives you access to frequently-changed machine settings.

Button	Information
SIDE TRIM	<p>The side-trim dimension is calculated automatically according to the PAGE SIZE.</p> <p>If needed, the side-trim dimension can be changed. Touch SIDE TRIM to adjust the size of the finished book.</p> <p>The default setting is 2.5mm from each side.</p> <p>The maximum side-trim is 40mm from each side.</p> <p>The minimum side-trim is 1mm from each side.</p> <p>The machine will not permit a setting that conflicts with the stitch position. Change the stitch pitch if necessary.</p> <p>The side-trim function can be turned off.</p>
- AUTO	Touch AUTO to select the default side-trim position.
- TRIM SIZE	Touch '+' or '-' to adjust the side-trim dimension.
- TRIM OFFSET	<p>By default, the book is trimmed equally on both sides. Touch '+' or '-' to move the trim position away from the centre line.</p> <p>The range is -40mm to +40mm, dependent on how much is to be trimmed. The default setting is 0mm.</p>

The CONFIGURE Window

The **CONFIGURE**  window lets you make changes to the configuration of the machine.

Some functions and buttons are only available at certain access levels. Refer to your booklet maker manual.

Button	Information	Operator	Supervisor
<input type="radio"/> Hidden <input checked="" type="radio"/> Active <input type="radio"/> Visible			
- SIDE TRIM (P2T)	Touch SIDE TRIM (P2T) to switch off communication to the Side-Trimmer. Only do this if the Side-Trimmer is disconnected.	<input type="radio"/>	<input checked="" type="radio"/>

CHAPTER 4 **Standard Tasks**

Introduction

This chapter describes the standard tasks that are needed in the day-to-day operation of your Side-Trimmer.

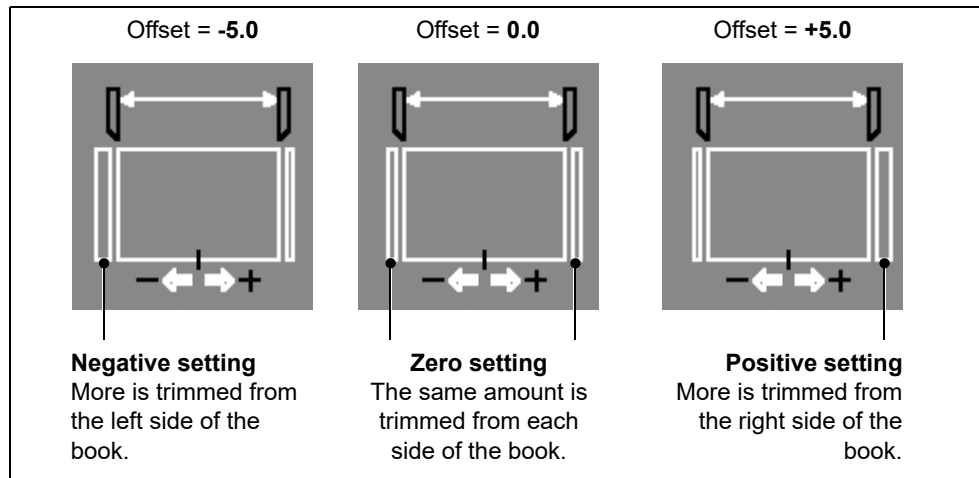
Adjust the Side-Trim Offset

Introduction

By default, the book is side-trimmed by an equal amount on each side. The side-trim dimension is automatically calculated to trim 2.5mm from each side. For example, if the book is 210mm wide, the default trim is 205mm. This side-trim dimension can be changed. Touch **BASIC > SIDE TRIM** and then touch '+' or '-' to adjust the **TRIM SIZE**.

The side-trim can be offset from the centre line by a maximum of 40mm, dependent on how much is to be trimmed. The machine will not permit a setting that conflicts with the stitch position. Change the stitch pitch if necessary (see "Adjust the Side-Trim Offset" on page 11).

If the **TRIM OFFSET** is changed, the icon changes to show the setting. The icon is the same orientation as the book delivery out of the Side-Trimmer.



Select a non-standard side-trim offset

1. Touch **BASIC > SIDE TRIM** and then touch '+' or '-' to adjust the **TRIM OFFSET**.
2. Touch **CLOSE** to close the window.

Select the default side-trim offset

1. Touch **BASIC > SIDE TRIM** and then touch **AUTO**.
2. Touch **CLOSE** to close the window.

Empty the Side-Trim Bin

When to do

- An error message **CHECK THE SIDE TRIM BIN** is displayed on the touch screen when the trim bin is full.
- You can empty the side-trim bin when you choose. For example, before you start a new job.

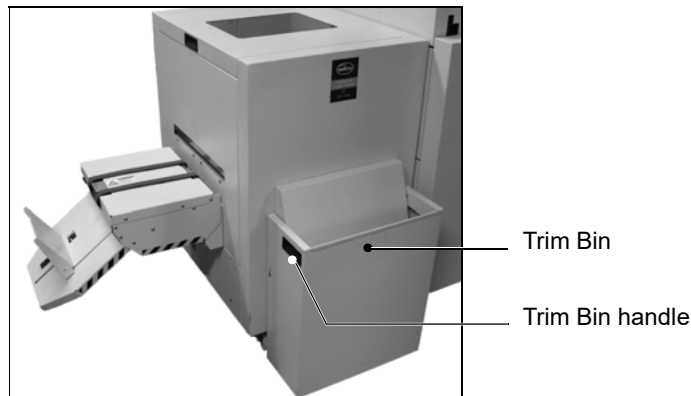


FIGURE 5. Side-Trim Bin

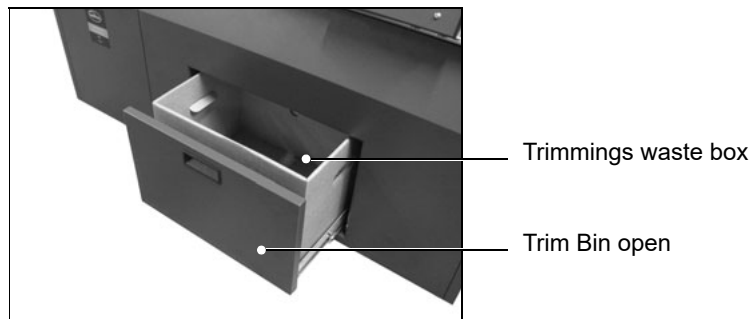


FIGURE 6. Side-Trim Bin with optional Book Stacker

Note

The PowerSquare operates with the side-trim bin removed for a short time. The printer waits while the side-trim bin is removed, then continues when the side-trim bin is replaced. To prevent lost production, you must remove, empty and return the side-trim bin to the PowerSquare as quickly as possible.

Procedure

(See Figure 5)

1. Use the handles to move the side-trim bin away from the machine.
2. Empty the side-trim bin.
3. Return the side-trim bin under the chute. Check the bin is positioned close to the machine. Magnets hold the bin in position.

Procedure - with the optional Book Stacker

(See Figure 6)

1. Open the side-trim bin waste drawer.
2. Remove the trimmings waste box.
3. Empty the trimmings waste box and replace it in the waste drawer.
4. Close the side-trim bin waste drawer.

Adjust the Side-Trimmer Stacker

The stacker must be adjusted according to the book size.

When to do

- When you start a new job.

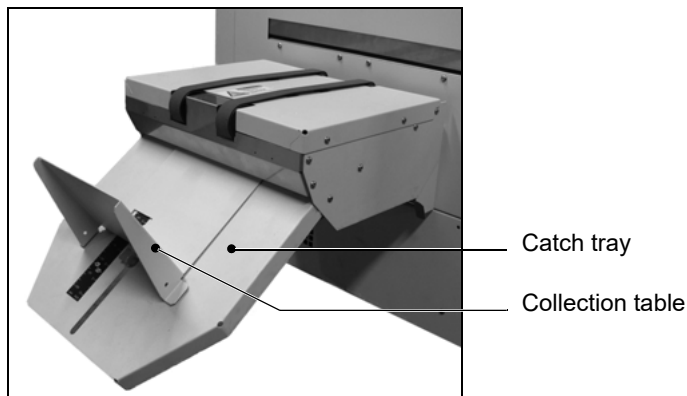


FIGURE 7. The stacker

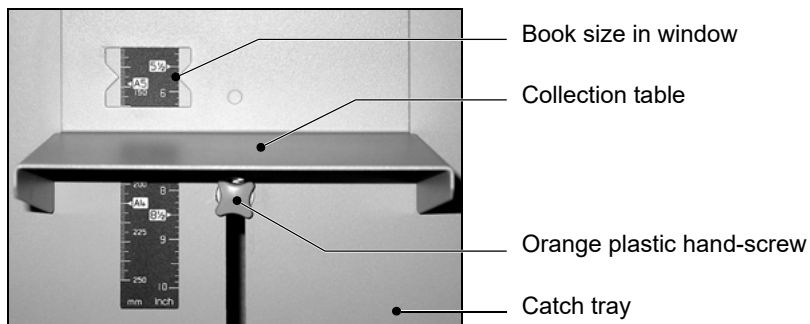


FIGURE 8. Collection table position

Procedure

Set the collection table position according to the size of the book. Read the setting through the window.

Raise and Lower the Side-Trimmer Stacker

The stacker can be raised to allow access to other parts of the machine.



WARNING: Take care to keep your hands clear of the folding part of the stacker.

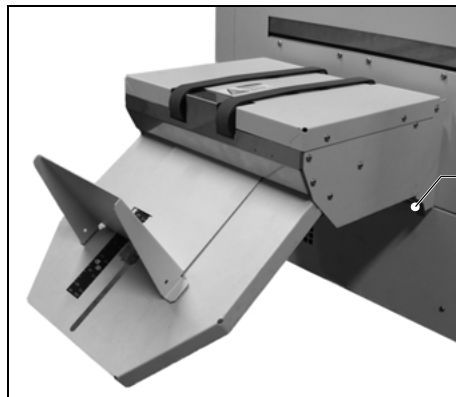


FIGURE 9. The stacker



FIGURE 10. The stacker in raised position

Procedure - Raise the stacker

1. Press down on the top of the stacker, beside the green belts.
2. At the same time, push down on the stacker release handle.
3. Release pressure from the top of the stacker, the stacker will raise to a folded position.

Procedure - Lower the stacker

1. Push down on the top of the stacker until it clicks into position.

Move the Side-Trimmer

The Side-Trimmer locks in position onto the booklet maker. The docking latch is released by a foot pedal.

When to do

- to access the mains ON/OFF switch
- to replace the mains input fuses

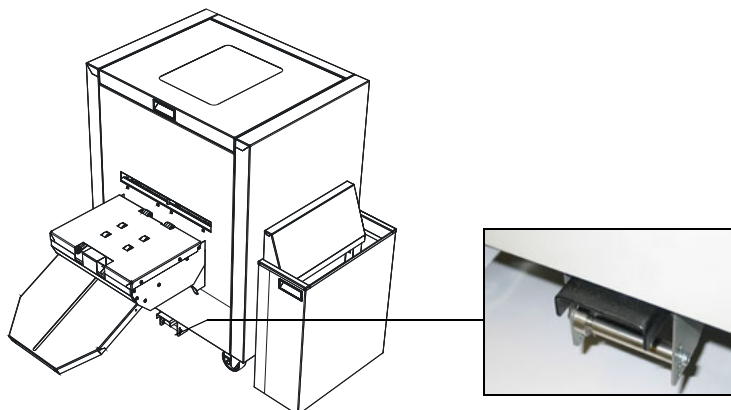


FIGURE 11. The Side-Trimmer docking latch

Procedure

Note: If a Book Stacker is fitted, first move the Book Stacker, then start at step 3.

Step	Action	Information
1	Remove the trim bin.	See "The Side-Trimmer" on page 3
2	Raise the Side-Trimmer stacker.	See "Raise and Lower the Side-Trimmer Stacker" on page 15.
3	Use your foot to release the docking latch.	See Figure 11 on page 16.
4	Rotate the Side-Trimmer away from the PowerSquare as far as the safety chain allows.	The safety chain prevents damage to the power and communication cables.

When needed, rotate the Side-Trimmer back to the docked position, the latch will click closed.

Remove and re-fit the Side-Trimmer Book Supports

There are five removable metal book supports in the side-trimmer. They must be removed when small books are made and re-fitted for normal applications.

When to do

- Remove the book supports when the side-trim dimension is 190mm or less.
- Ensure the book supports are fitted when the side-trim dimension is over 190mm

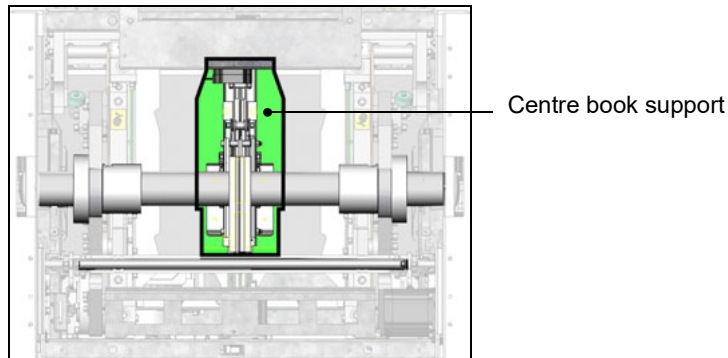


FIGURE 12. Top view of Side-Trimmer - centre book support

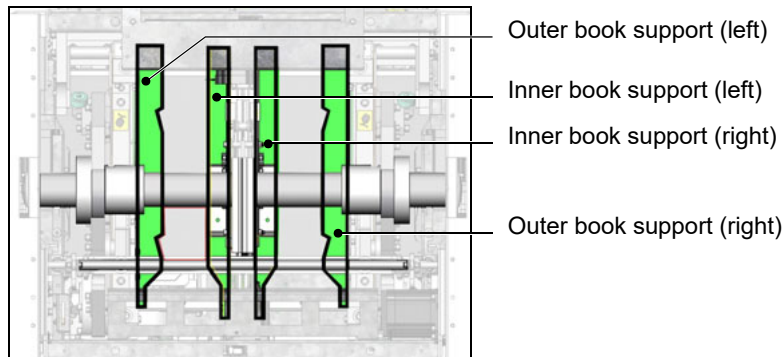
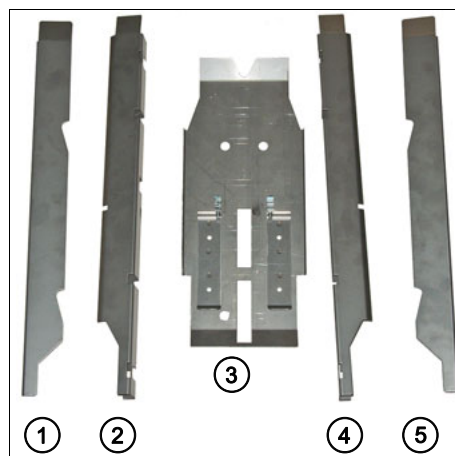


FIGURE 13. Top view of Side-Trimmer - Inner and out book supports (centre book support removed)



1. Outer book support, left (marked **LH OUT**)
2. Inner book support, left (marked **LH IN**)
3. Centre book support
4. Inner book support, right (marked **RH IN**)
5. Outer book support, right (marked **RH OUT**)

FIGURE 14. Side-Trimmer book supports

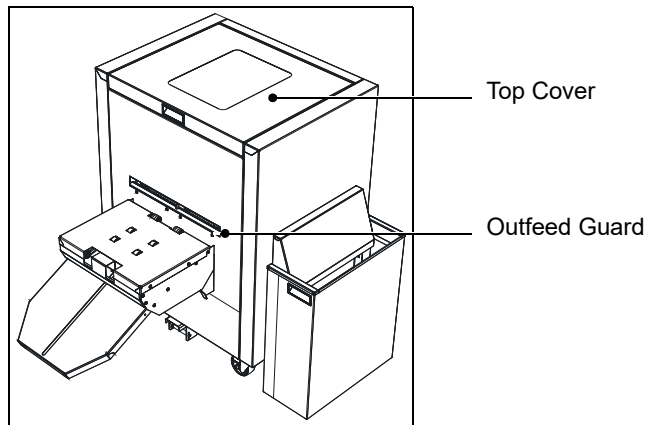


FIGURE 15. The side-trimmer

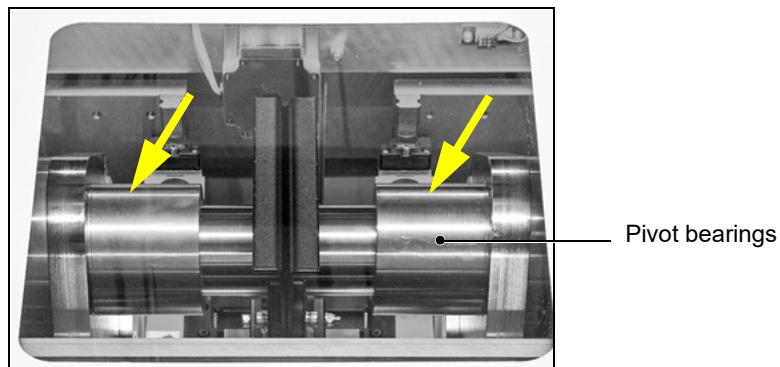


FIGURE 16. View through the top cover. Pivot-bearings visible.

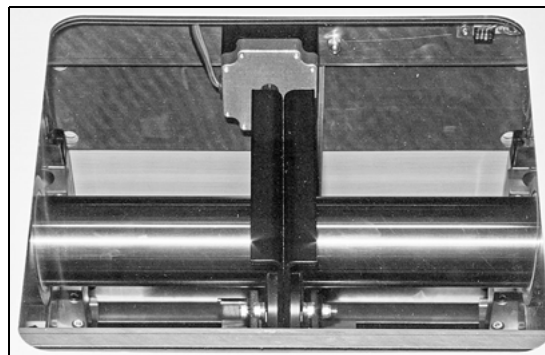


FIGURE 17. View through the top cover. Pivot bearings are not visible.

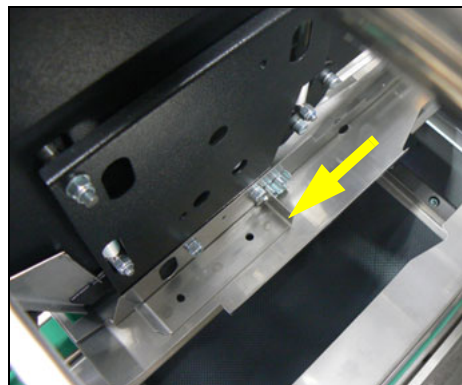
Procedure - Removal

Step 1 - preparation	
Rotate the Side-Trimmer away from the booklet maker.	See "Move the Side-Trimmer" on page 16.
Use the mains ON/OFF switch to turn OFF the Side-Trimmer.	See "Turn On the Side-Trimmer" on page 5.
Look through the top window of the Side-Trimmer. Note the position of the pivot-bearings.	See Figures 16 and 17.
If the pivot-bearings are not visible: There is enough space to remove the book supports. <ul style="list-style-type: none"> • Open the top cover of the Side-Trimmer. • Go to "Step 2 - remove the centre book support". 	See Figure 17 on page 18
If the pivot-bearings are visible: <ul style="list-style-type: none"> • Use the mains ON/OFF switch to turn ON the Side-Trimmer. • Look through the top window of the P2T. The pivot-bearings will move. • When the pivot bearings are not visible, then turn off the P2T. • Open the top cover of the Side-Trimmer. • Go to "Step 2 - remove the centre book support". 	See Figure 16 on page 18

Step 2 - remove the centre book support

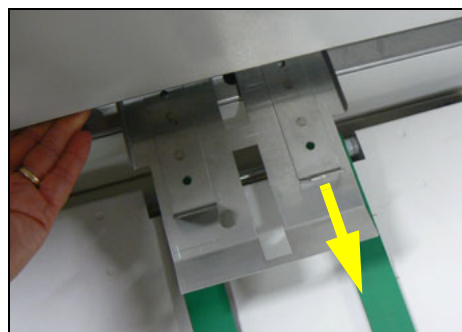
The centre book support is secured with spring clips.

Hold the centre book support with two hands and pull in the direction shown by the arrow, until it unclips from the fixings.



Hold the outfeed guard open with one hand and remove the centre book support through the opening.

See Figure 15 on page 18.



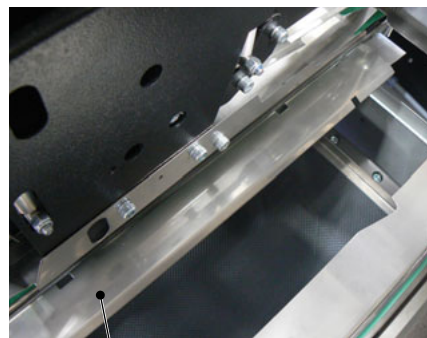
Step 3 - remove the inner book supports

There are two inner book supports. Remove one at a time.

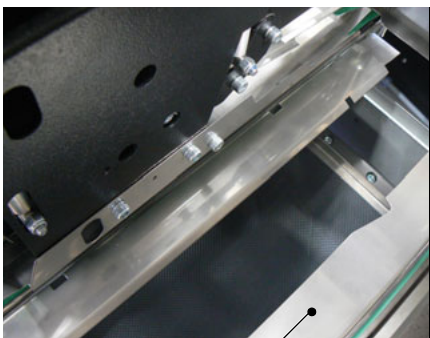
Hold each end of the inner book support and lift upwards.

Remove the inner book support through the top of the machine.

Repeat with the other inner book support.



Inner book support (right)

Step 4 - remove the outer book supports	
<p>There are two outer book supports. Remove one at a time.</p> <p>Hold each end of the outer book support and lift upwards.</p>	 <p>Outer book support</p>
Remove the outer book support through the top of the machine.	
Repeat with the other outer book support.	

Procedure - Refitting

Step 1 - preparation	
Rotate the Side-Trimmer away from the booklet maker.	See "Move the Side-Trimmer" on page 16.
Use the mains ON/OFF switch to turn OFF the Side-Trimmer.	See "Turn On the Side-Trimmer" on page 5.
<p>Look through the top window of the Side-Trimmer.</p> <p>Note the position of the pivot-bearings.</p>	See Figures 16 and 17.
<p>If the pivot-bearings are not visible:</p> <p>There is enough space to fit the book supports.</p> <ul style="list-style-type: none"> • Open the top cover of the Side-Trimmer. • Go to "Step 2 - fit the inner and outer book supports". 	See Figure 17 on page 18
<p>If the pivot-bearings are visible:</p> <ul style="list-style-type: none"> • Use the mains ON/OFF switch to turn ON the Side-Trimmer. • Look through the top window of the P2T. The pivot-bearings will move. • When the pivot bearings are not visible, then turn off the P2T. • Open the top cover of the Side-Trimmer. • Go to "Step 2 - fit the inner and outer book supports". 	See Figure 16 on page 18

Step 2 - fit the inner and outer book supports

There are two outer book supports and two inner book supports.
Re-fit one at a time.

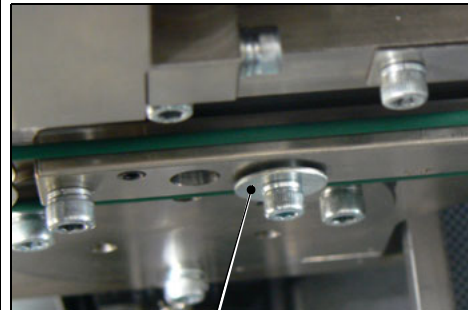
Refer to the illustrations on page 17.

On each book support, there are semi-circular cut outs at each end.

Position the cut-outs over the fixing points.

Press down on the book support so that it fits onto the fixing points.

Repeat with the other book supports.



Fixing



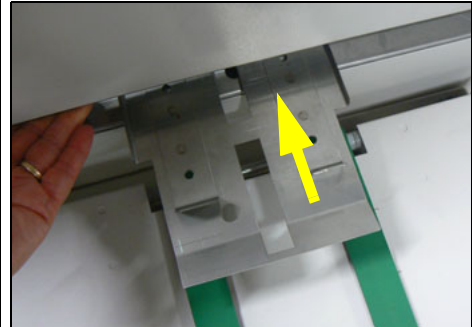
Cut-out

Step 3 - fit the centre book support

Hold the outfeed guard open with one hand and slide the centre book support in through the opening.

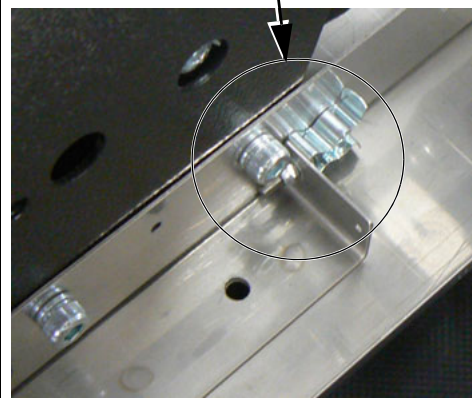
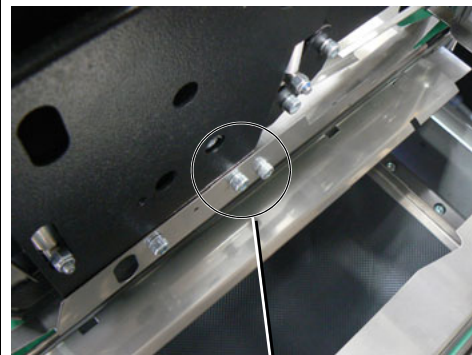
Keep the book support central.

See Figure 15 on page 18



The centre book support is secured with spring clips.

Hold the centre book support with two hands. Lift and slide forwards until it clips onto the fixings.



Error Conditions, Problems and Solutions

This chapter describes how to correct problems that can occur on your Side-Trimmer. If a problem continues, contact your supplier.

Side-Trimmer Error

If a paper jam or other error occurs in the Side-Trimmer, the booklet maker stops. The type of error is displayed on the touch screen. See “Side-Trimmer Message List” on page 30.

Refer also to your booklet maker user manual.

Quality Problems

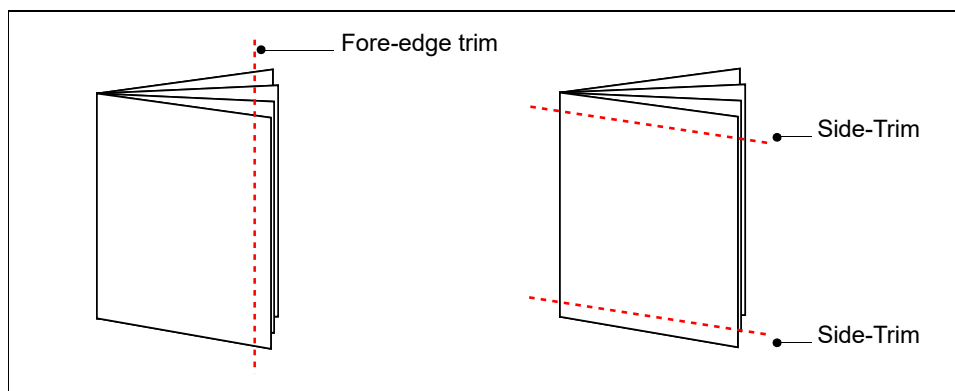


FIGURE 18. Fore-edge trimming and side-trimming

Trimming problems can affect the fore-edge trim or the side-trim. Make sure you follow the correct fault-finding routine.

Side-trimming problems are explained in this manual. Fore-edge trimming problems are explained in the booklet maker manual.

Side-Trimming problem - the book is not trimmed

Check the user interface.

Is the **SIDE TRIM** option turned off?

No Yes

 | Turn on the **SIDE TRIM** option.

Is **AUTO** turned off in the **SIDE TRIM** window?

No Yes

 | Set **SIDE TRIM** to **AUTO**.

Does the problem continue?

Yes No

 | Further action is not needed.

 | If you need to use a custom trim size, enter the trim dimension in the **SIDE TRIM** window. Make sure the size is at least 2mm less than the book size.

Open and then close the top cover of the side-trimmer. Wait for the side-trimmer to reset. Does the problem continue?

Yes No

 | Further action is not needed.

Turn off the Side-Trimmer at the mains ON/OFF switch. Wait for 5 seconds and then turn on the Side-Trimmer. Does the problem continue?

Yes No

 | Further action is not needed.

Call your service engineer.

Side-Trimming problem - the book is not trimmed to the correct size

Is **SIDE TRIM** turned on?

Yes No

| Turn on the **SIDE TRIM**.

Is the correct trim size entered in the touch screen? Make sure the size is at least 2mm less than the book size.

Yes No

| Enter the correct size in the touch screen.

Open and then close the top cover of the side-trimmer. Wait for the side-trimmer to reset. Does the problem continue?

Yes No

| Further action is not needed.

Turn off the Side-Trimmer at the mains ON/OFF switch. Wait for 5 seconds and then turn on the Side-Trimmer. Does the problem continue?

Yes No

| Further action is not needed.

Call your service engineer.

Side-Trimming problem - the book is only trimmed on one side

This problem is normally caused by incorrect set-up. If the side-trim offset is slightly too large, only one side is trimmed.

Is **AUTO** turned off in the **SIDE TRIM** window?

No Yes

| Set **SIDE TRIM** to **AUTO**.

Does the problem continue?

Yes No

| Further action is not needed.

| If you need to use a custom trim size, enter the trim dimension in the **SIDE TRIM** window. Make sure the size is at least 2mm less than the book size.

Open and then close the top cover of the side-trimmer. Wait for the side-trimmer to reset. Does the problem continue?

Yes No

| Further action is not needed.

Turn off the Side-Trimmer at the mains ON/OFF switch. Wait for 5 seconds and then turn on the Side-Trimmer. Does the problem continue?

Yes No

| Further action is not needed.

Call your service engineer.

Side-Trimming problem - the book is not trimmed square

Open and then close the top cover of the side-trimmer. Wait for the side-trimmer to reset. Does the problem continue?

Yes No

| Further action is not needed.

Open the top cover of the Side-Trimmer. There will be paper trimmings on the large black waste conveyor belt - this is normal. Are there paper trimmings or a book in other places?

No Yes

| Clear the paper trimmings or book.

| Does the problem continue?

Yes No

| No further action is needed.

Is the side-trim dimension more than 190mm?

No Yes

| Are the book supports fitted?

Yes No

| Fit the book supports. See "Remove and re-fit the Side-Trimmer Book Supports" on page 17.

| Does the problem continue?

Yes No

| No further action is needed.

Turn off the Side-Trimmer at the mains ON/OFF switch. Wait for 5 seconds and then turn on the Side-Trimmer. Does the problem continue?

Yes No

| Further action is not needed.

Call your service engineer.

Side-Trimming problem - poor trim quality

The book is trimmed to the correct size and offset, but the trim quality is bad.

Note. Certain book thicknesses or material can result in a small witness mark on the bottom corner of the spine, this is normal.

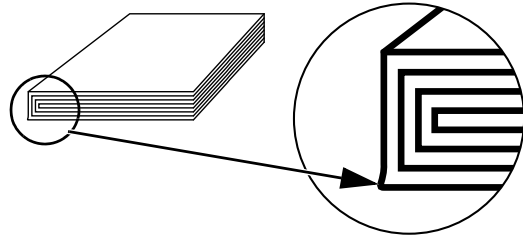


FIGURE 19. Normal side-trim blade witness mark

If the side-trim dimension is over 190mm, check that the book supports are fitted. See “Remove and re-fit the Side-Trimmer Book Supports” on page 17.

Call your service engineer if there are marks on the trimmed edge different to a normal witness mark or if the edge is badly trimmed.

Side-Trimming problem - cannot enter settings

If the user interface will not accept the required settings, this can be due to the following conditions:

- The **SIDE TRIM** window needs to refresh. Touch **CLOSE** and then re-open the **SIDE TRIM** window.
- The side-trim setting will conflict with the stitch position. Reduce the **STITCH PITCH** to move the stitch position away from the trim edge.
- The side-trim setting is larger than the book size.
- The side-trim offset is too big relative to the book size and/or the amount of trim.

Side-Trimmer Message List

Information and error messages are shown in the message list.

Refer also to your booklet maker user manual.

The error messages are shown in order of priority. Follow the action needed for the messages, starting with the message at the top of the list.

To display the information about a message:

- Touch **HELP** then touch the message list.
- Use the right-arrow and left-arrow to see the help text for each message.

Message	Information	Reference
CHECK THE SIDE TRIM BIN	The side-trim bin is either open or full. Check the side-trim bin. Empty the side-trim bin if necessary.	See "Empty the Side-Trim Bin" on page 13.
JAM AT SIDE TRIM INFEED	Open and then close the top cover of the side-trimmer. Then, if necessary, open the top cover of the side-trimmer and check for paper trimmings or obstructions. Close the top cover of the side-trimmer. If the message still does not clear, use the side-trimmer mains ON/OFF switch. Turn the side-trimmer OFF, wait at least 5 seconds and then turn the side-trimmer ON. If the problem continues, then call your service engineer.	
JAM AT SIDE TRIM OUTFEED	Open and then close the top cover of the side-trimmer. Then, if necessary, open the top cover of the side-trimmer and check for paper trimmings or obstructions. Close the top cover of the side-trimmer. If the message still does not clear, use the side-trimmer mains ON/OFF switch. Turn the side-trimmer OFF, wait at least 5 seconds and then turn the side-trimmer ON. If the problem continues, then call your service engineer.	

Message	Information	Reference
JAM IN SIDE TRIM	<p>Open and then close the top cover of the side-trimmer.</p> <p>Then, if necessary, open the top cover of the side-trimmer and check for paper trimmings or obstructions. Close the top cover of the side-trimmer.</p> <p>If the message still does not clear, use the side-trimmer mains ON/OFF switch. Turn the side-trimmer OFF, wait at least 5 seconds and then turn the side-trimmer ON.</p> <p>If the problem continues, then call your service engineer.</p>	
Side trim axis moving	<p>The side-trim axis is moving. This message clears when the adjustment is complete. If the message does not clear:</p> <p>Open and then close the top cover of the side-trimmer.</p> <p>Then, if necessary, open the top cover of the side-trimmer and check for paper trimmings or obstructions. Close the top cover of the side-trimmer.</p> <p>If the message still does not clear, use the side-trimmer mains ON/OFF switch. Turn the side-trimmer OFF, wait at least 5 seconds and then turn the side-trimmer ON.</p> <p>If the problem continues, then call your service engineer.</p>	

Message	Information	Reference
SIDE TRIM COVER OPEN	<p>The top cover of the side-trimmer is open.</p> <p>Close the top cover of the side-trimmer.</p> <p>If the message does not clear, open and then close the top cover of the side-trimmer.</p> <p>If the message still does not clear, use the side-trimmer mains ON/OFF switch. Turn the side-trimmer OFF, wait at least 5 seconds and then turn the side-trimmer ON.</p> <p>If the problem continues, then call your service engineer.</p>	
SIDE TRIM - no comms	<p>Check that the mains power input cable and the communications cable are connected.</p> <p>Use the side-trimmer mains ON/OFF switch. Turn the side-trimmer OFF, wait at least 5 seconds and then turn the side-trimmer ON.</p> <p>If the problem continues, then call your service engineer.</p>	See "The Side-Trimmer" on page 3.
SYSTEM ERROR 41.39	<p>If the side-trimmer setting is 190mm or less, check that the book supports are removed. Otherwise, follow the instructions below for other 41.xx system errors.</p>	See "Remove and re-fit the Side-Trimmer Book Supports" on page 17.
SYSTEM ERROR 41.xx	<p>Open the top cover of the side-trimmer and check for paper trimmings or obstructions. Close the top cover of the side-trimmer.</p> <p>If the message still does not clear, use the side-trimmer mains ON/OFF switch. Turn the side-trimmer OFF, wait at least 5 seconds and then turn the side-trimmer ON.</p> <p>If the problem continues, then call your service engineer.</p>	

Paper Jams

1. Open and then close the top cover of the side-trimmer.
2. Then, if necessary, open the top cover of the side-trimmer and check for paper trimmings or obstructions. Close the top cover of the side-trimmer.
3. If the message still does not clear, use the side-trimmer mains ON/OFF switch. Turn the side-trimmer OFF, wait at least 5 seconds and then turn the side-trimmer ON.

If the problem continues, then call your service engineer.

Change the Fuses - Side-Trimmer

Introduction

The Side-Trimmer has two fuses at the power input connector. See Figure 2 on page 3.

If either fuse is broken, the Side-Trimmer will not operate.



WARNING: *Turn OFF the machine and remove the mains power supply cable before you change the fuses. This machine uses two fuses in parallel.*



WARNING: *To avoid the risk of fire, replace fuses using only the same type and rating.*

Fuse Description

- 7A, HRC Quick acting, F
- Part Number 730-018

Procedure

1. Turn OFF the Side-Trimmer.
2. Disconnect the Side-Trimmer from the power supply.
3. Check each fuse.
4. If the fuse is broken then replace with a fuse of the correct specification.

Result

If the fuse breaks again, then call your Watkiss service engineer.

CHAPTER 6 **Maintenance**

Service Maintenance

Service maintenance is scheduled according to the booklet maker use. After every one-million stitches (every 3rd spool of stitch-wire), the Side-Trimmer needs service.

Only a Watkiss approved service engineer can service the Side-Trimmer. Contact your supplier for further information.

Operator Maintenance

We recommend that you clean the Side-Trimmer every week to remove surface dust.

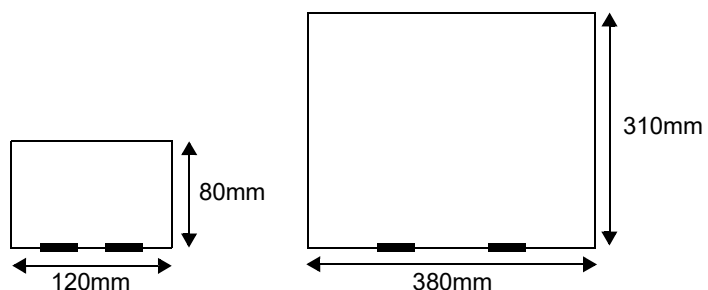


CAUTION: *Only clean the machine with materials that are recommended in this manual. Do not use other chemicals or abrasive material.*

Use a moist cloth to clean the outside of the Side Trimmer.

CHAPTER 7 Specifications

Operating Conditions	10-35°C 35-85% relative humidity up to 2000m above mean sea level
Production	Minimum cycle time: 3.8 seconds 950 books trimmed per hour
Book Size	Minimum book size: 120 x 80mm Maximum book size: 380 x 310mm



Book Thickness	Maximum book thickness: 10.4mm (approx 208 pages 80gsm) Minimum book thickness: one sheet folded to make a 4-page booklet
Trimming	Minimum trim width: 120mm Maximum trim width: 380mm (no trim); 378mm (trimmed) Maximum side trim: 40mm each side Minimum side trim: 1mm each side

Stacker Capacity	Output conveyor: 20 books* Book Stacker (optional): 930mm
Dimensions & Weight	Width: 1142mm (installed) Depth: 924mm Height: 885 - 968mm (adjustable) Weight: 300kg
Power Supply	Side-Trimmer: 220-240V 50/60Hz, single phase
Power Consumption	stand-by: 40VA (10W) in operation: 1200VA (750W) during trimming (1 second of cycle)
Noise Emission	stand-by: ambient in operation: 65 dB (A), peak 79 dB (A)
Approvals	Complies with CE and UL. Conforms to FCC rules Part 15 Class A and VCCI Class A.
Radio Frequency Emissions	This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

* Standard book is made from 20 sheets of 80gsm paper, with 2 stitches.

Production may vary according to operating conditions. In line with a policy of continual product improvement, the manufacturer reserves the right to alter the materials or specification of this product at any time without notice.

CHAPTER 8 **Declaration of Conformity**

(According to ISO/IEC 17050-1)

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Name of Manufacturer:

Watkiss Automation Limited

Address of Manufacturer:

Watkiss House, Blaydon Road, Sandy, SG19 1RZ United Kingdom

Object of the declaration:

Watkiss P2T 2-Knife Trimmer
Serial Number: WA/P2T/0001 onwards

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

2014/35/EU - Low Voltage Directive

2014/30/EU - EMC Directive

References to the relevant harmonised standards used or references to the specifications in relation to which conformity is declared:

Safety: EN 60950-1: 2006 / A11: 2009 / A1: 2010 / A12: 2011 / A2:2013

EMC: EN55022:2010 Class A
EN55024:2010
EN61000-3-2:2014
EN61000-3-3:2013

RoHS: 2011/65/EC Council Directive. EN50581:2012

WEEE: 2002/96/EC Council Directive amended by 2008/34/EC and 2008/35/EC

Reach: REGULATION (EC) No. 1907/2006

M C Watkiss
Technical Director, Watkiss Automation Ltd.
30 September 2016



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