

ES-TE

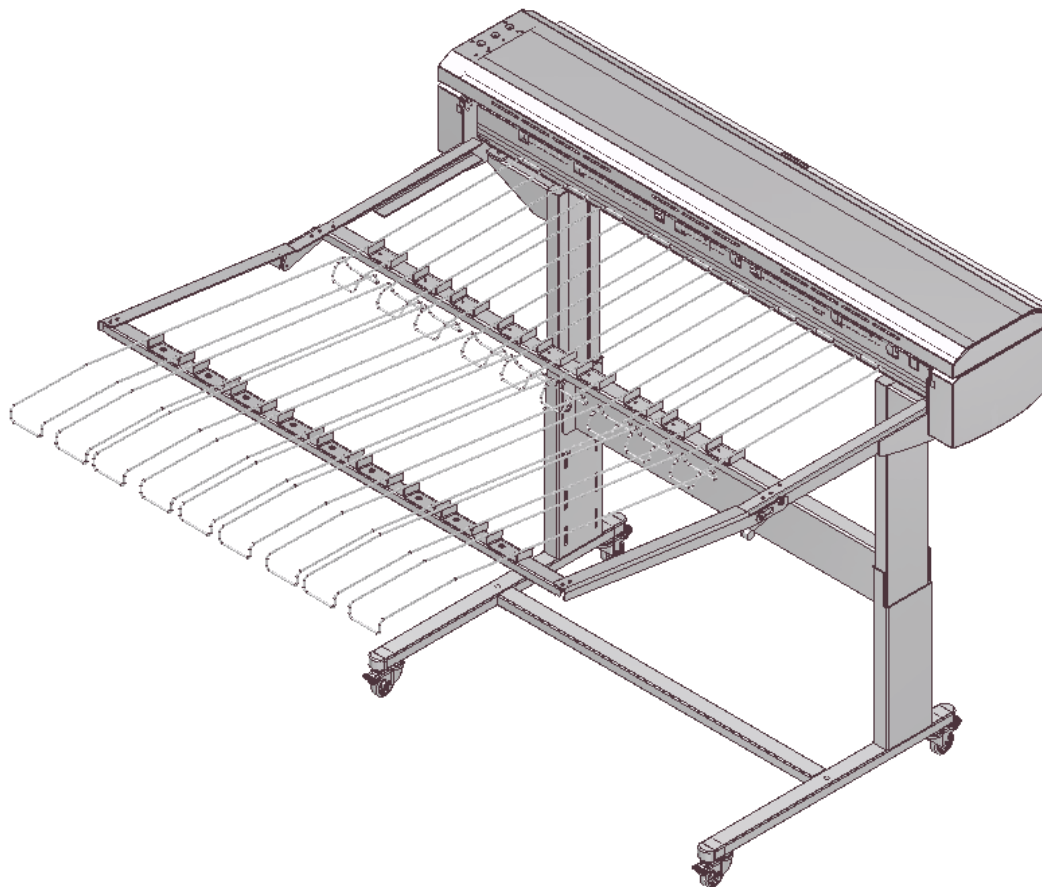
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Documentation estestack 1000



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Safety instructions



For your protection, please read these safety instructions completely before operating the estestack 1000 and keep this manual for future reference close to the stacker. Carefully observe all warnings, precautions and instructions on the estestack 1000 or the ones described in the operating manual.

In order to guarantee hazard-free operations ES-TE Folding Systems (hereafter called ES-TE) strongly recommends that any maintenance or repair work is only carried out by trained personnel.

Please consider that life-threatening voltage may occur on touchable parts while the protective covering is open.

Please notice that the wire rack is laid out for a max. weight of 40 kg. Therefore it is prohibited to lean or sit on top of the wire rack.



The estestack 1000 contains a heating unit. Temperatures of up to 90°C resp. 194°F may occur inside the stacker. Avoid any contact with exposed parts while the protective covering is open.

Since electrical energized and rotating parts are exposed while the covering is open, it is prohibited to remove the covering. **It is also prohibited to manipulate or disconnect the safety switch.**

May an exceptional opening of the covering be necessary, all power supplies have to be cut off in advance: Unplug the power plug!

Any unauthorized modifications, which decrease the operational safety, are prohibited.

Set the stacker out of order when it is evident that a safe operation is not possible.

Possible reasons for this are:

- a visible damage or a breakdown of the electricity,
- the temporarily occurrence of abnormal operation sequences.

Any unintentional use of the stacker is immediately to prevent! (Unplug the power plug, remove the stacker, label accordingly).

Consignes de sécurité



Pour votre propre protection, veuillez lire soigneusement ces consignes de sécurité avant d'utiliser l'estestack 1000 et conservez ce mode d'emploi à proximité de l'empileuse afin de pouvoir le consulter ultérieurement.

Respectez soigneusement tous les avertissements, consignes et instructions notés sur l'estestack 1000 ou décrits dans le mode d'emploi.

Afin de garantir une utilisation sans danger des systèmes de pliage ES-TE (ci-après dénommés ES-TE), nous vous recommandons de faire exécuter les travaux d'entretien et de réparation uniquement par du personnel qualifié.

Veuillez tenir compte du fait que les éléments accessibles lorsque le cache de protection est ouvert peuvent être conducteurs d'un courant mortel.

Veuillez noter que la grille est présentée pour un poids maximal de 40 kilogrammes. Par conséquent elle est interdite pour se pencher ou se reposer sur la grille.



A l'intérieur de l'estestack 1000 se trouve une unité chauffante. L'intérieur de l'empileuse peut atteindre une température allant jusqu'à 90 °C (ou 194 °F). Évitez tout contact avec les éléments exposés lorsque le cache de protection est ouvert.

Les éléments électrifiés et rotatifs étant mis à nu lors de l'ouverture du cache, nous vous déconseillons de retirer ce dernier. **Il est également interdit de manipuler ou de déconnecter l'interrupteur de sécurité.**

Si une ouverture exceptionnelle du cache s'avère nécessaire, toutes les alimentations électriques doivent être coupées au préalable: débranchez la prise !

Toute modification non-autorisée et réduisant la sécurité opérationnelle est interdite.

Mettez l'empileuse hors service lorsqu'une utilisation sûre ne peut pas être garantie.

Causes possibles:

- un dommage visible ou une coupure d'électricité,
- l'apparition temporaire de séquences opérationnelles anormales.

Il ya lieu de prévenir toute utilisation non-intentionnelle de l'empileuse! (Débranchez la prise, retirez l'empileuse, apposez une étiquette correspondante).

Introduction

The estestack 1000 flattens and stacks up to 500 wide format prints straightly and clearly arranged. It fully automatically processes prints, posters and a wide variety of other media types (60- 200g) up to 1110mm (44") wide and 1200mm (47") long.

A special characteristic of the estestack 1000 is the integrated heating unit which causes the de-curling effect. The temperature of the heating unit is adjustable according to the used media type and application.

These features make the estestack 1000 the perfect fit for any wide format b/w or color printer.

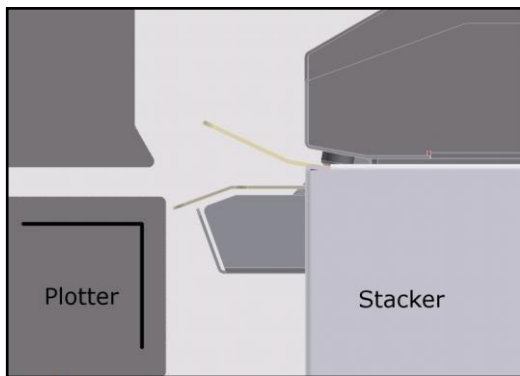
Initial Operation

The initial operation of the estestack 1000 is rather simple and can be carried out without any previous knowledge. A separate "Assembly Instruction" is included in the package.



Positioning:

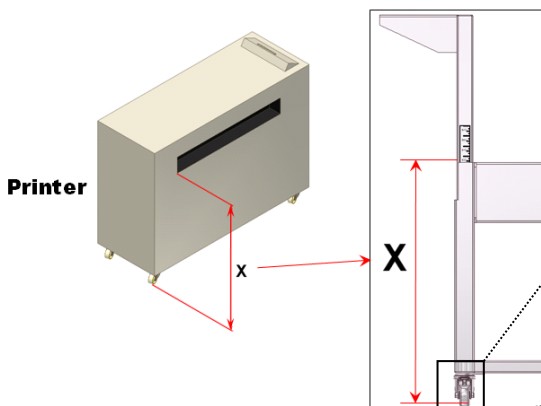
Position the stacker centered to the paper outlay of the printer.



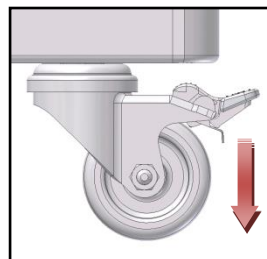
The height of the stacker has to be adjusted to the paper outlay. The lower inflow plate of the stacker has to be approx. 3-5mm lower than the paper outlay of the printer.

Loosen the screws in the stand of the stacker with a 4mm socket wrench in order to adjust the height.

Measure the outlay height (X) and adjust the value (X) accordingly on the scale of the brackets. This adjustment is realized most conveniently before the stacker is fixed to the frame. (see Assembly Instructions)



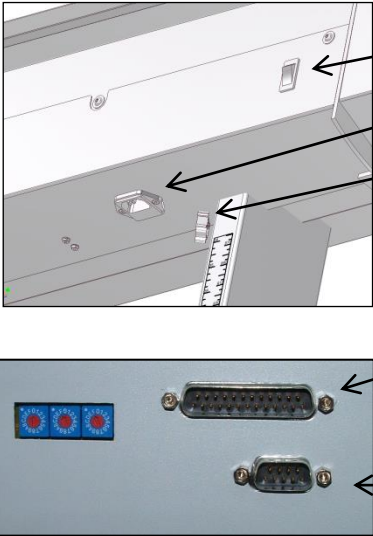
It is recommendable to fix the rolls of the stacker as soon as it is positioned correctly.



Tilt down the rack

	<p>Tilt down the rack until the fixture snaps in.</p>
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Power supply, power on and communication interfaces

	<p>Turn the stacker on by using the main switch.</p> <p>Connect the stacker to the power supply system. Secure the cable- using the cable clip.</p> <p>The stacker offers two Communication Interfaces:</p> <p>Com is a 25-pol extension port which allows a remote control or a communication with the plotter (not necessary nor available for all plotter models).</p> <p>Service is a 9-pol RS232 port to load firmware updates and to read out machine data.</p>
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Control panel

Press the *on/off Button* in order to turn the stacker on.
After a short initial phase the status LED will turn green.
Is one of the heat levels preselected, the according LED (Level 1 or 2) will indicate through blinking green/red alternating that the operating temperature is not reached yet.
After approx. 3 min. the LED will stop blinking and permanently shine green - the operating temperature is reached.

In case the preselected level is *Level 2* and heat sensitive materials are to be processed, the temperature can be lowered by pressing the *Level 1* button.
The temperature will be reduced to the preselected *Level 1*. This cool down process can take a couple of minutes depending on the surrounding, while this time the LED will shine red until the desired temperature is reached, then the LED will switch to green.

Trough pressing the already selected *Level 1* or *Level 2* button again the heating unit will be completely disabled. The status LED will shine green when the stacker reaches the room temperature. During the cool down phase the status LED will blink green/red alternating.



- ○ LED blinks green or red
- ● LED shines green or red

Status	Level 1	Level 2	comment
●	○ ○		The operating temperature for level 1 is not yet reached.
●		○ ○	The operating temperature for level 2 is not yet reached
●	●		Lower operating temperature reached
●		●	Higher operating temperature reached
●	●		The temperature is too high; please wait until the heater is cooled down to the desired level.
●		●	The temperature is too high; please wait until the heater is cooled down to the desired level.
○ ○			The heating unit is disabled and still cooling down.
●			The heating unit is disabled and has room temperature.



Not all media types have the same affinity to curl the edges. Disable the heating unit in case it is not necessary for the used media type.

Setting the temperature

Please notice that for monochrome as well as for plotters with heat sensitive colors it is recommended to disable the heating unit for all operations.

Since there are many variables which influence the print such as plotter type, used paper, used ink, print speed, print quality etc. we recommend that each user adjusts the according heat levels to their applications. To do so simply use the hex switches.

The pre-adjusted temperatures are:

- *Level 1:* 30,5°C (0)
- *Level 2:* 30,5°C (0)

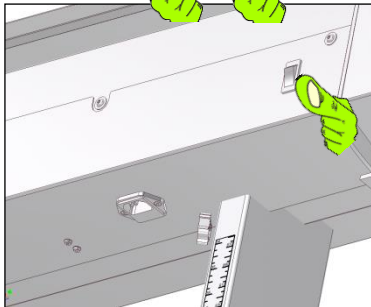
		<table border="1"> <thead> <tr> <th colspan="2">Level 1</th> <th colspan="2">Level 2</th> </tr> </thead> <tbody> <tr><td>0</td><td>30,5 °C/ 87 °F</td><td>0</td><td>30,5 °C/ 87 °F</td></tr> <tr><td>1</td><td>33,8 °C/ 93 °F</td><td>1</td><td>33,8 °C/ 93 °F</td></tr> <tr><td>2</td><td>37,1 °C/ 99 °F</td><td>2</td><td>37,1 °C/ 99 °F</td></tr> <tr><td>3</td><td>40,4 °C/ 105 °F</td><td>3</td><td>40,4 °C/ 105 °F</td></tr> <tr><td>4</td><td>43,7 °C/ 110 °F</td><td>4</td><td>43,7 °C/ 110 °F</td></tr> <tr><td>5</td><td>47,0 °C/ 117 °F</td><td>5</td><td>47,0 °C/ 117 °F</td></tr> <tr><td>6</td><td>50,3 °C/ 123 °F</td><td>6</td><td>50,3 °C/ 123 °F</td></tr> <tr><td>7</td><td>53,6 °C/ 129 °F</td><td>7</td><td>53,6 °C/ 129 °F</td></tr> <tr><td>8</td><td>56,9 °C/ 134 °F</td><td>8</td><td>56,9 °C/ 134 °F</td></tr> <tr><td>9</td><td>60,2 °C/ 141 °F</td><td>9</td><td>60,2 °C/ 141 °F</td></tr> <tr><td>A</td><td>63,5 °C/ 147 °F</td><td>A</td><td>63,5 °C/ 147 °F</td></tr> <tr><td>B</td><td>66,8 °C/ 152 °F</td><td>B</td><td>66,8 °C/ 152 °F</td></tr> <tr><td>C</td><td>70,1 °C/ 158 °F</td><td>C</td><td>70,1 °C/ 158 °F</td></tr> <tr><td>D</td><td>73,4 °C/ 164 °F</td><td>D</td><td>73,4 °C/ 164 °F</td></tr> <tr><td>E</td><td>76,7 °C/ 170 °F</td><td>E</td><td>76,7 °C/ 170 °F</td></tr> <tr><td>F</td><td>80,0 °C/ 176 °F</td><td>F</td><td>80,0 °C/ 176 °F</td></tr> </tbody> </table>		Level 1		Level 2		0	30,5 °C/ 87 °F	0	30,5 °C/ 87 °F	1	33,8 °C/ 93 °F	1	33,8 °C/ 93 °F	2	37,1 °C/ 99 °F	2	37,1 °C/ 99 °F	3	40,4 °C/ 105 °F	3	40,4 °C/ 105 °F	4	43,7 °C/ 110 °F	4	43,7 °C/ 110 °F	5	47,0 °C/ 117 °F	5	47,0 °C/ 117 °F	6	50,3 °C/ 123 °F	6	50,3 °C/ 123 °F	7	53,6 °C/ 129 °F	7	53,6 °C/ 129 °F	8	56,9 °C/ 134 °F	8	56,9 °C/ 134 °F	9	60,2 °C/ 141 °F	9	60,2 °C/ 141 °F	A	63,5 °C/ 147 °F	A	63,5 °C/ 147 °F	B	66,8 °C/ 152 °F	B	66,8 °C/ 152 °F	C	70,1 °C/ 158 °F	C	70,1 °C/ 158 °F	D	73,4 °C/ 164 °F	D	73,4 °C/ 164 °F	E	76,7 °C/ 170 °F	E	76,7 °C/ 170 °F	F	80,0 °C/ 176 °F	F	80,0 °C/ 176 °F
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Setting the operation speed

Plotters with continual paper flow (mostly b/w plotters)

	<p>In order to set the correct operating speed for the designated plotter please follow these steps:</p> <p>Manual speed setting</p> <ul style="list-style-type: none"> • Switch off the stacker using the main switch. • Press the <i>Level 1</i> and <i>Level 2</i> buttons simultaneously and turn the stacker on using the main switch. • Hold the buttons until the motor starts and the <i>Level 1</i> and <i>Level 2</i> LED blink • Through multiple pressing of the <i>Level 1</i> button the operating speed is decreasing as shown in the table below. • Through multiple pressing of the <i>Level 2</i> button the operating speed is increasing as shown in the table below. • The speed setting is saved after power off/power on. <p>Automatic speed calibration</p> <ul style="list-style-type: none"> • Switch off the stacker using the main switch. • Press the <i>Level 1</i> and <i>Level 2</i> buttons simultaneously and turn the stacker on using the main switch. • Hold the buttons until the motor starts and the <i>Level 1</i> and <i>Level 2</i> LED blink • Press <i>Level 2</i> button several times until the speed will not be increasing anymore • Send one copy from the printer • The stacker measures the speed of the leading edge and saves this value automatically as operating speed. • The speed setting is saved after power off/power on.
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Plotters with gradual paper flow (mostly ink jet plotters)



In order to set the correct operating speed for the designated plotter please follow these steps:

- Switch off the stacker using the main switch.
- Press the *Level 1* and *Level 2* buttons simultaneously and turn the stacker on using the main switch.
- Hold the buttons until the motor starts running and the *Level 1* and *Level 2* LED are blinking.
- By multiple pressing *Level 1* button the operating speed will decrease as shown in the table below.
- By multiple pressing *Level 2* button the operating speed will increase as shown in the table below.
- Please ask your local service engineer for the optimal speed settings.

If you want to set a value accordingly to the table below, you need to set the highest speed firstly by pressing the *Level 2* button several times until the speed stops increasing.

Now you can start from the highest speed 20,20 m/min.

E.g.: pressing the *Level 1* button ten times will set a speed of 16,00 m/min.

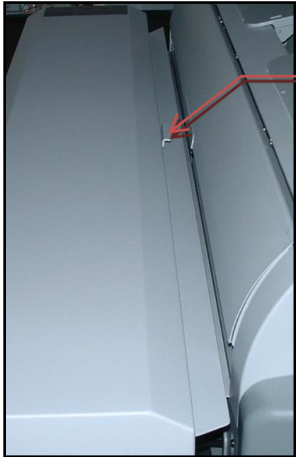
Operating speeds

number of pressing <i>Level 1</i>	speed in m/min	number of pressing <i>Level 1</i>	speed in m/min	number of pressing <i>Level 1</i>	speed in m/min	number of pressing <i>Level 1</i>	speed in m/min
0x	20,2	11x	15,7	22x	10,9	33x	6,3
1x	20,2	12x	15,2	23x	10,6	34x	5,9
2x	19,7	13x	14,9	24x	10,2	35x	5,5
3x	19,2	14x	14,3	25x	9,6	36x	5,0
4x	18,6	15x	14,0	26x	9,1	37x	4,6
5x	18,3	16x	13,6	27x	8,7	38x	4,2
6x	17,9	17x	13,2	28x	8,4		
7x	17,5	18x	12,6	29x	7,9		
8x	17,1	19x	12,2	30x	7,6		
9x	16,4	20x	11,9	31x	7,1		
10x	16,0	21x	11,4	32x	6,7		

Remove a paper jam



CAUTION: Serious burn hazard! Maintain adequate distance!
The heated roller and guiding plates are exposed, while the covering is open.



Unlocking



In case of a paper jam the stacker covering can be tilted upwards and the distracting paper can be removed.

Lift the unlocking in the middle of the stacker and tilt the covering upwards.






Remove the distracting paper.



Close the covering of the stacker by pressing it downwards in the middle until it snaps in on both sides.

Pressure adjustment

1st step - open the top lid cover

	<p>Security advise</p> <ul style="list-style-type: none">• Remove the power cord before opening any cover.• Wait at least 20 minutes after the last operation to avoid injury.
	<ul style="list-style-type: none">• Position of the screws
	<ul style="list-style-type: none">• Remove the 4mm screw on the left rear side.
	<ul style="list-style-type: none">• Remove the 4mm screw on the right rear side.



- Open the lid.
- Remove the 4mm screw on the left side.



- Remove the 4mm screw on the right side.



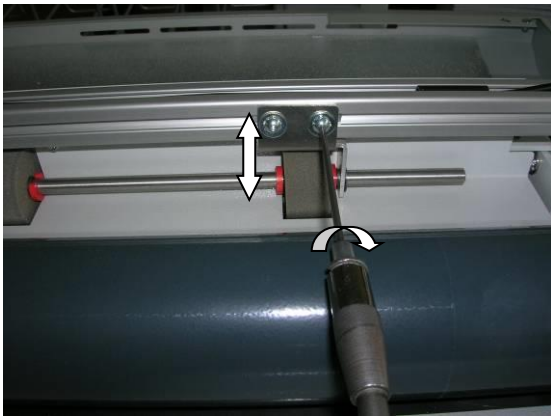
- Close the lid.
- Open the cover by lifting it from the output side first and place it on the tray.



Be careful

- Avoid damage to the ground cable and the flat cable which connects the panel with the controller.
- If they are too short, unplug them.

2nd step – exit roller adjustment



- Lose the 4mm screws of the roller bracket.
- Move the bracket up or down to adjust the pressure.



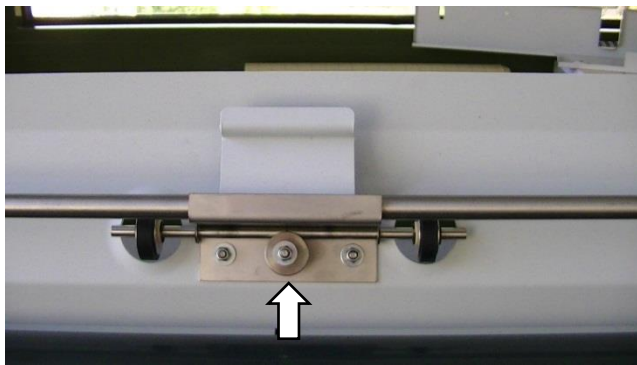
- The pressure adjustment must be the same on both sides.



- Repeat the adjustment to the other axis.

- After all adjustments close the cover by fixing the screws.
- **Pay attention to the ground and flat cable of the cover.**

3rd step - entry roller adjustment

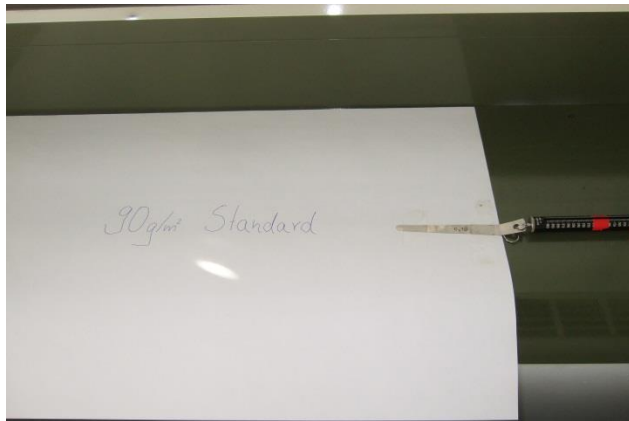


- Lose or fix the 4mm nut to adjust the pressure.



- If you own an ES-TE Stack 1000 with two axes, apply the adjustment to the second axis.

4th step – testing the roller adjustment



- Test the pressure with a spring scale.
- Use a standard paper of 90g/m² and A4 size.



Make the stacker operable

- Close the lid
- Plug on the power cable and switch the stacker on (main switch and push *On/Off* button).

Test the entry rollers

- Feed the testing sheet into the stacker, the motor will start to run. Try to keep the sheet just under the rollers.
- The measured value should be between 70g – 90g (0,15lb – 0,2lb).

Test the exit rollers

- Feed the sheet only under the exit rollers and activate the motor by pushing the switch manually.
- The measured value should be between 140g – 180g (0,31lb – 0,4lb).

Test both rollers together

- Feed the testing sheet carefully into the stacker.
- If the sheet is under both rollers the measured value should be between 320g – 360g (0,71lb – 0,79lb).

Cleaning and Maintenance

The stacker should be cleaned regularly from paper dust and toner deposits. The interval depends on the intensity the unit is used and the quality of the used media. We recommend checking in intervals of two weeks at the beginning. For cleaning use a light moistened cloth. Appropriate are also glass cleaner and mild household detergent.

Disposal advise according to WEEE

You will get all the needed information about the correct disposal of the stacker according to WEEE from your local distributor.

Warranty Conditions

You get a warranty for the correct function of the unit. Information about length and coverage of the warranty is available from your local distributor.

Specifications

Stacking capacity:	Up to 500 sheets
Dimensions:	Low Stand: 1350x 1620x 940 mm (W, L, H) High Stand: 1350x 1620x 1245 mm (W, L, H)
Paper entry height:	Low Stand: 660-865 High Stand: 865-1170
Weight:	50 kg
Power requirement:	115 V / 230 V
Power consumption:	9 A / 4,5 A
Fuses internal	T10A / T4A slow blowing
Safety certificates:	EN 55014, IEC 60950