

Océ 7050/7051

User Manual





Océ-Technologies B.V.

This manual, which can be kept behind the left-hand door of the copier, contains a description of the Océ 7050/7051 and the copying that can be done with it. The introduction (chapter 1) contains a general description of the working methods for using the copier and it is recommended that you read at least this chapter.

Overview of copier parts on the covers

To assist you in finding parts of the copier and the functions on the operating panel quickly, an illustration of the Océ 7050/7051 is presented on the inside front cover and of the operating panel on the inside back cover, both of which can be folded out.

Safety information

This manual contains the following safety information:

- Appendix B lists 'Instructions for safe use'. ***You are advised to read this information before you start to actually use the copier.*** Technical safety information such as safety data sheets can also be found in appendix B.
- Where applicable, cautions and warnings are used throughout this manual to draw your attention to safety precautions to be taken.

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Chapter 1

Introduction

This chapter contains a general description of the Océ 7050/7051 and how to get the copier ready to copy.



The Océ 7050/7051

The Océ 7050/7051 is a copier for large documents (e.g. architectural or engineering drawings).

The machine is easy to use and makes copies on paper, transparent, vellum or polyester film with the quality and reliability that one might expect from Océ. The Océ 7050/7051 has a copy feed table for manual copy material input, and as optional a manual roll for copy material.

Explaining figures of the Océ 7050/7051 and its operating panel can be found on the inside covers.

The operating panel

The operating panel (see the illustration on inside back cover) on the Océ 7050/7051 is easy to use and specially designed to carry out copy jobs.

After switching on, see page 9, the machine is always ready for operation. The operating panel on the Océ 7050/7051 with manual roll will show blinking LEDs on the display, to indicate that the machine is ready for operation. In this state, the operating panel is in stand-by mode. The operating panel activates in the following situations:

- you feed an original
- you feed a copy material
- a button on the operating panel is pressed

Note: *If you do not work with the operating panel for more than 2 minutes, it returns automatically to stand-by mode. The Océ 7050/7051, however, remains always ready for operation.*

Stop button The stop button stops the current copy process immediately without finishing the current job. The original and the copy material remain in the copier.

Exposure scale (lighter / darker) You modify the exposure scale with the 'lighter' and 'darker' buttons. The exposure scale can be changed at all times.

Copy material selection button (film / paper) You can use this button to select the copy material. Your selection, paper or film, influences the fusing temperature. All materials, except for film, should be copied in the 'paper' setting.

Copy quantity selection button (Océ 7051 only) Press these buttons to increase or decrease the number of copies, as shown in the copy quantity display. The copy quantity can be changed at all times.

Correction button (Océ 7051 only) Resets the copy quantity counter to '1'. By pressing the correction button twice, all settings will reset to the standard settings (see 'Standard settings' on page 42).

Display selection button (Océ 7051 with manual roll only) By pressing the 'display selection' button, you can determine what will be shown on the

display at the top of the operating panel: the original length in cm or the amount of trailing edge in mm. One of the indicators will light up to show the current setting.

Trailing edge buttons (Océ 7051 only) After selecting 'trailing edge' by pressing the display selection button, you can use these buttons you add or remove a filing strip at the trailing edge varying between +40 to -100 mm in steps of 5 mm.

Switching on/off

After switching on the machine is ready for operation. The display shows a moving spot. In this state, the operating panel is in stand-by mode.

After you have switched on the machine, there is no need to switch it off after each copy job. You can leave the machine switched on for the rest of the day. At all times, the Océ 7050/7051 is ready for operation.

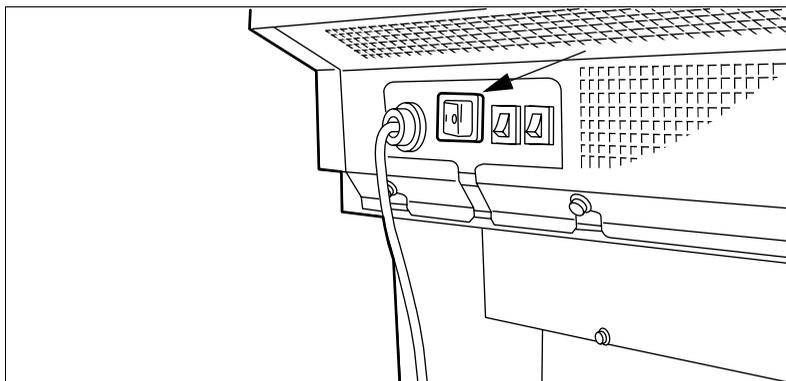
If the machine has been inactive for more than 2 minutes, the operating panel returns automatically to the stand-by mode. The operating panel activates in the following situations:

- you feed an original
- you feed a copy material
- a button on the operating panel is pressed



Switching on

- 1 Set the on/off switch at the rear of the machine, to position '1' (see figure 1). If the mains is connected correctly, the green switch will light up.



[1] On/off switch

Note: *The machine is immediately ready for use.*



Switching off

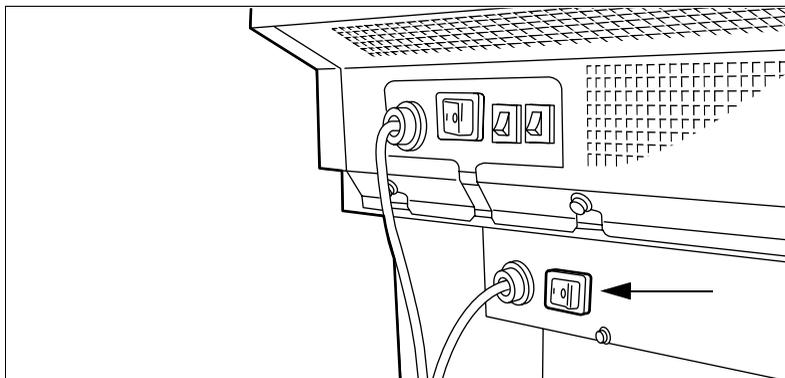
- 1 Set the on/off switch at the rear of the machine, to position '0' (see figure 1).

Dew Preventer (optional)

If the Océ 7050/7051 is equipped with the optional manual roll, a 'Dew Preventer' can be installed as separate option. Only in extreme humidity conditions it is recommended to switch on the 'Dew Preventer' to enhance copy quality.

▼ Switching on Dew Preventer

- 1 Set the Dew Preventer switch at the rear of the machine, to position '1' (see figure 2). If the machine is switched on, the green switch will light up.



[2] Dew Preventer switch

Note: *The Dew Preventer will only be effective if it is left on.*

▼ Switching off

- 1 Set the Dew Preventer switch at the rear of the machine, to position '0' (see figure 2).

Chapter 2

Copy jobs

Making copies and special settings



Introduction

The Océ 7050/7051 enables copies to be made on paper, transparent, vellum and polyester film. By pressing the copy material selection button you can make your choice. The standard setting of the copy material selection button is paper. Only when using film this button has to be pressed to change to film. All other materials should be copied on the paper setting.

Note: *Make your choice before feeding the original.*

It is most convenient to feed the original first. When feeding the original it is transported to the rear of the machine. The display will show the original length. When you now feed the copy material the original returns to the front in order to make a copy.

Note: *Only use paper as is specified in 'Copy material that can be used' on page 46. Avoid storing paper in rooms where temperature and humidity are high (see 'Roomtemperature (T) and Relative Humidity (RH)' on page 44). Also, avoid dust and direct sunlight. Wrap unused paper in plastic to prevent it absorbing moisture.*

Making copies

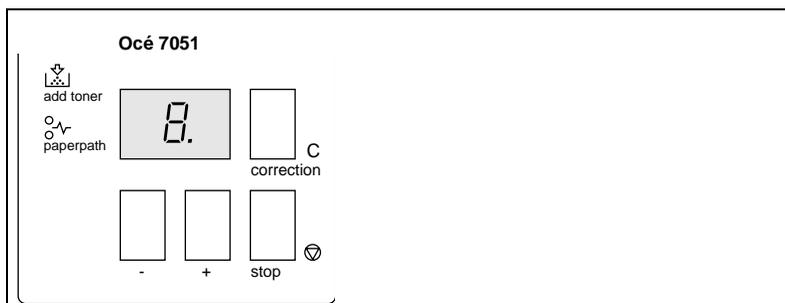
By feeding the original or the copy material the operating panel will go 'on' and the copying process will start automatically. When you have a copier which is equipped with a repeat function (Océ 7051), you can make a maximum of 9 copies when feeding 1 original.

Note: After 2 minutes of idleness, the operator panel returns to the ready mode. When you wait more than 2 minutes between two operations, you have to restart the procedure.

▼ Making copies using cut sheet copy material

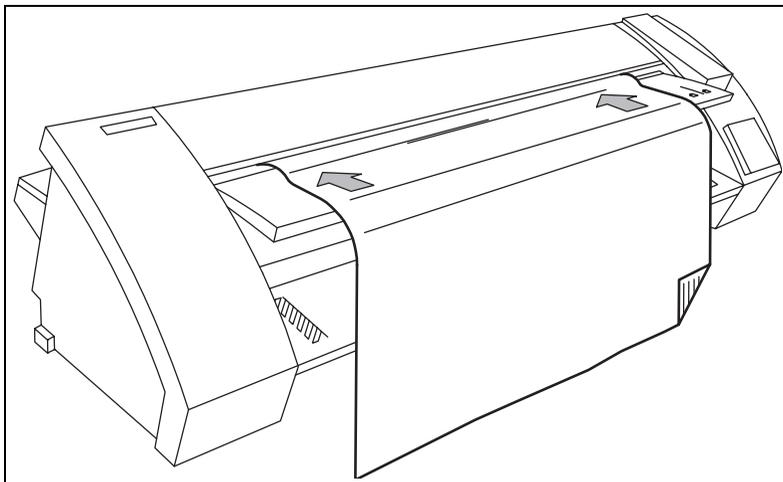
- 1 If required, use the copy material selection button to select copying on paper or film.
- 2 Select the desired number of copies by pressing the '+' or '-' button on the operating panel (Océ 7051 only, see figure 3).

Note: Changing the copy quantity can be done at all times. When you make a mistake you simply press the correction button to correct the copy quantity.



[3] Setting more than one copy using the '+' or '-' button

- 3 Feed the original centrally and face down into the original feed table in accordance with the guidelines (see figure 4).



[4] Feeding an original

Note: *The original is aligned in the nip of the rollers. By inserting the material with an amount of slack, the leading edge is aligned in the nip. A delay between insertion of the material and the start of the transport ensures proper alignment.*

The original is transported to the rear of the machine.

Attention: *Strongly curled originals have to be fed in carefully. In certain circumstances the copier can pull the original in.*

Note: *Minimum length of the copy material is 420 mm.*

- 4 Océ 7051 only: After the job is completed the copy counter will be set to 0. By pressing the '+' button, the original will be transported to the rear of the machine in order to make a next copy, and the counter will be increased to 1. By pulling out the original the counter will be set to 1.

Note: *Changing the set amount can be done at all times.*

When you make a mistake you can press the correction button to correct the copy quantity.

Note: *After 2 minutes the operator panel returns to the ready mode. When you wait more than 2 minutes you have to re-feed your original.*

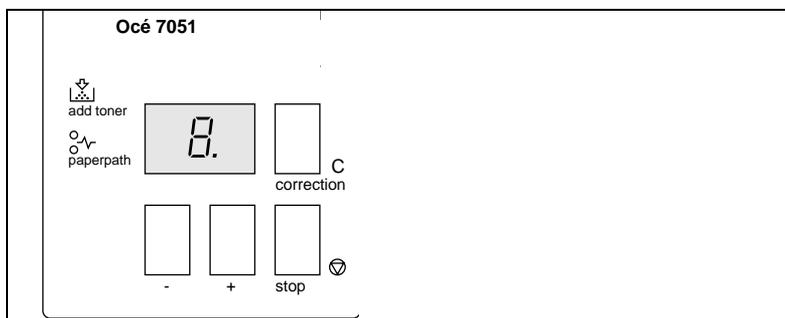
▼ **Making copies using manual roll (optional)**

- 1 Press the copy material selection button to toggle between paper or film.

Attention: *Select the appropriate copy material to avoid flawed copies. All materials (except for film) should be copied with the copy material selection set to 'paper'. Only select the setting 'film' if you make copies on polyester film*

- 2 Océ 7051 only: Select the desired number of copies by pressing the '+' or '-' button on the operating panel (see figure 5).

Note: *Changing the copy quantity can be done at all times. When you make a mistake you simply press the correction button to correct the copy quantity.*



[5] Setting more than one copy using the '+' or '-' button

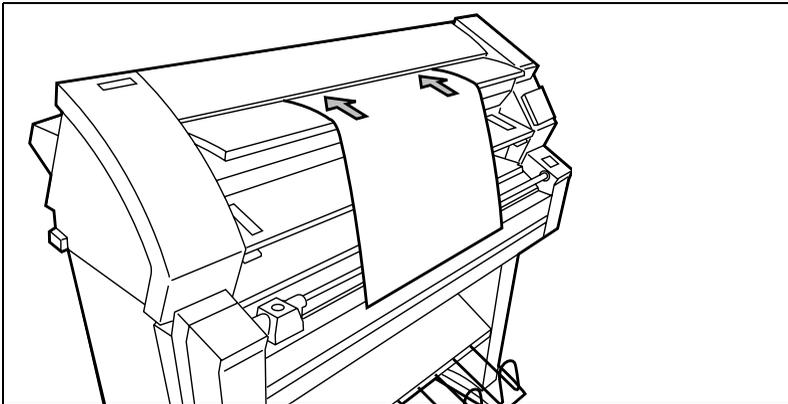
- 3 Feed the original centrally and face down into the original feed table in accordance with the guidelines (see figure 6 on page 16).

Note: *The original is aligned in the nip of the rollers. By inserting the material with an amount of slack, the leading edge is aligned in the nip. A delay between insertion of the material and the start of the transport ensures proper alignment.*

The original is transported to the rear of the machine and the display shows the length of the original in cm.

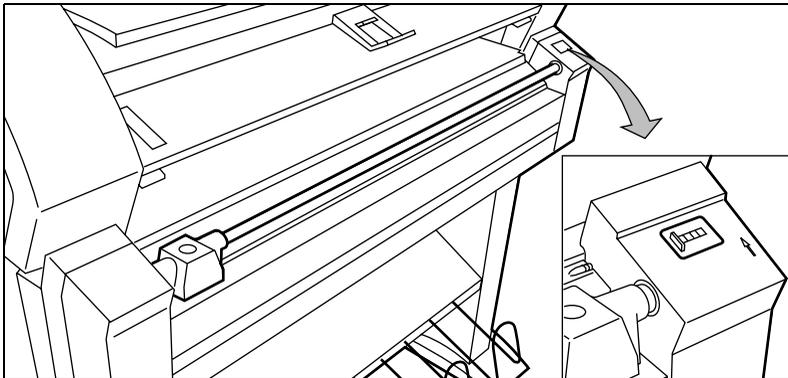
Note: After 2 minutes the operator panel returns to the ready mode. When you wait more than 2 minutes you have to re-feed your original.

Attention: Strongly curled originals have to be fed in carefully. In certain circumstances the copier can pull the original in.



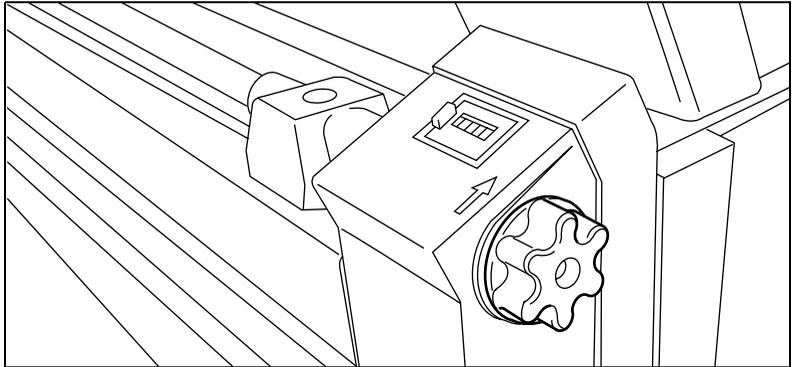
[6] Feeding an original

- 4 Make sure that the cutter is moved entirely to the left or the right side.
- 5 Reset the copy length counter to 0 by pressing the reset button (see figure 7).



[7] Resetting the copy length counter.

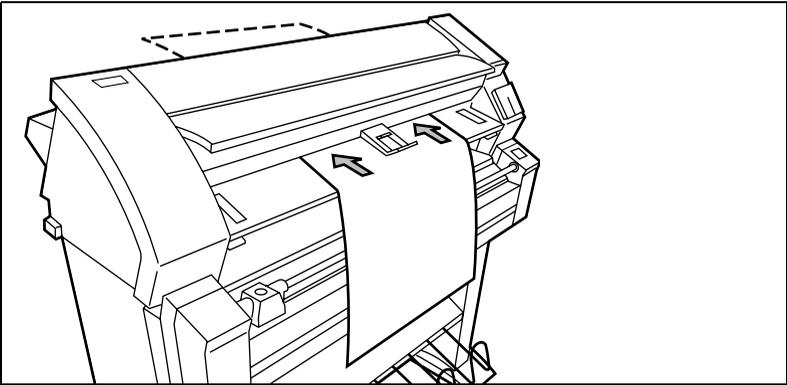
- 6 Notice the direction arrow near the roll feeding knob. Turn the knob in the direction of the arrow, to feed out some copy material (see figure 8).
- Note:** *If you turn the knob in the wrong direction, the copy material can slip out of the feeder (see 'Inserting a new copy material roll' on page 24).*



[8] Turning the roll feeding knob.

- 7 Hold the copy material in the middle, and pull out material until the copy length counter shows the same length as the original, as shown by the display on the operating panel.
- Note:** *Minimum length of the copy material is 420 mm.*
- Note:** *You can turn the roll feeding knob to adjust the length of the copy material.*
- 8 Hold the copy material with one hand, and move the cutter with your other hand entirely to the left or right side to cut the material.
- 9 Feed the copy material into the copy feed table in accordance with the guidelines. Start feeding the cutting edge and feed in line with the original. (see figure 9 on page 18). The copy will now be made.
- Note:** *The copy material is aligned in the nip of the rollers. By inserting the material with an amount of slack, the leading edge is aligned in the nip. A delay between insertion of the material and the start of the transport ensures proper alignment.*

Attention: *Do not turn the copy material before feeding, to ensure that possible curls in the copy material are facing down.*



[9] Feeding the copy material

- 10 Océ 7051 only: After making a copy, the copy quantity counter at the bottom of the operating panel decreases by one. Repeat step 4 to 9 until the copy counter is set to 0.

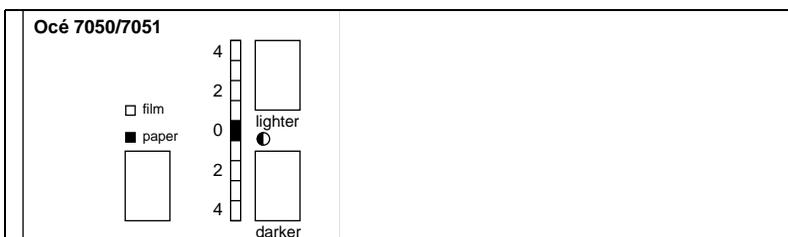
If you want to make more copies of the same original, you don't have to feed the original again as long as you haven't pulled it from the original feed table. By pulling out the original the counter will be set to 1.

Special settings

Exposure setting

When copying extremely light or dark originals, or originals with unequal background density, the result may not meet your requirements (e.g. too much background). In such cases you can adjust the exposure scale.

In the default setting the exposure scale indicator is in the neutral position (see figure 10).



[10] Exposure setting

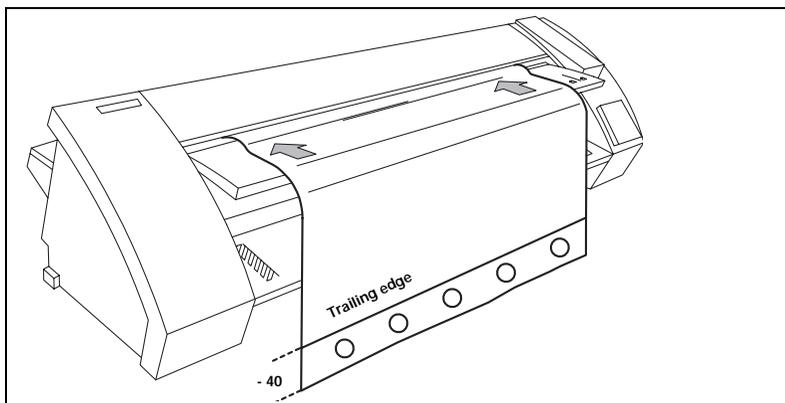


Exposure setting

- 1 If the copy is too dark, you can modify the exposure scale using the 'lighter' (+) button.
- 2 If the copy is too light, you can modify the exposure scale using the 'darker' (-) button.

Trailing edge (Océ 7051 only)

If, for example, your original has a filing strip, and you don't want that to show on the copy, it is possible to shift the image at the trailing edge. Make sure that the filing strip is at the trailing edge of the original (see figure 11). The adjustment steps are indicated on the operating panel, expressed in millimetres.



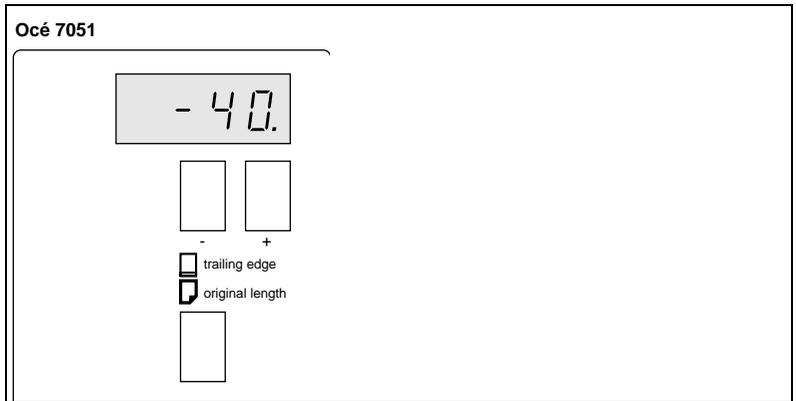
[11] Example of adjusting the trailing edge

▼ **Adjusting the trailing edge**

- 1 Press the display selection button to show the trailing edge on the display. The trailing edge indicator will light up.

- 2 Set the desired length of the trailing edge with the trailing edge buttons, for example -40 (see figure 12).

Note: *The trailing edge can vary +40 to -100 mm in steps of 5 mm).*



[12] Trailing edge buttons

- 3 Press the '-' button to shift the image towards the leading edge.
- 4 Press the '+' button to shift the image towards the trailing edge.

Attention: *Be aware that when shifting the image too much, this may result in the loss of information at the edge that the image was shifted to. In this situation longer copy material is necessary.*

Chapter 3

Materials

This chapter describes how to insert a new copy material roll, how to add toner and how to clean the transparent platen.

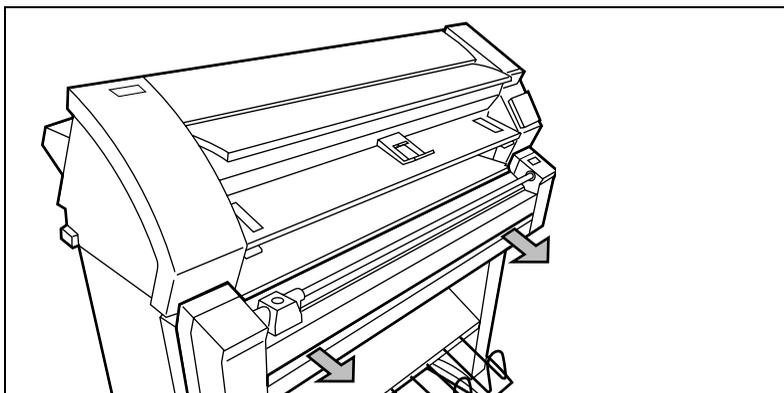


Inserting a new copy material roll

If the Océ 7050/7051 is equipped with the optional manual roll, you can insert a new copy material roll as follows:

▼ Inserting a new copy material roll

- 1 Pull open the drawer by using the two catches. (see figure 13)

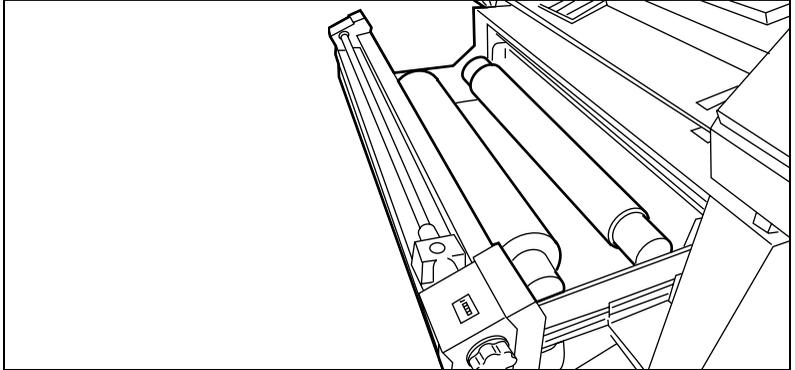


[13] Opening the drawer section

- 2 If one of the rolls is still in use, turn the roll feeding knob in the opposite direction of the arrow to let the copy material slip out of the feeder.
- 3 If you want to use the other roll in the drawer, simply feed in the material of that roll as described in step 11 on page 26 and on.

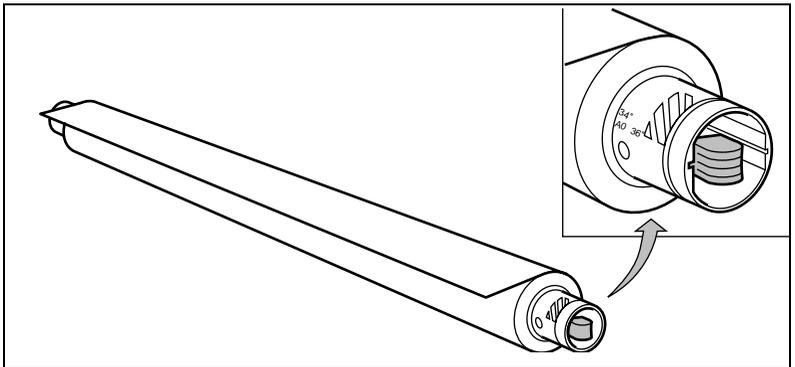
Note: *The front and the back roll do not have to be switched.*

- 4 If you want to insert a new roll, remove one of the roll holders from the drawer.
(see figure 14)



[14] Removing the roll holder from the drawer section

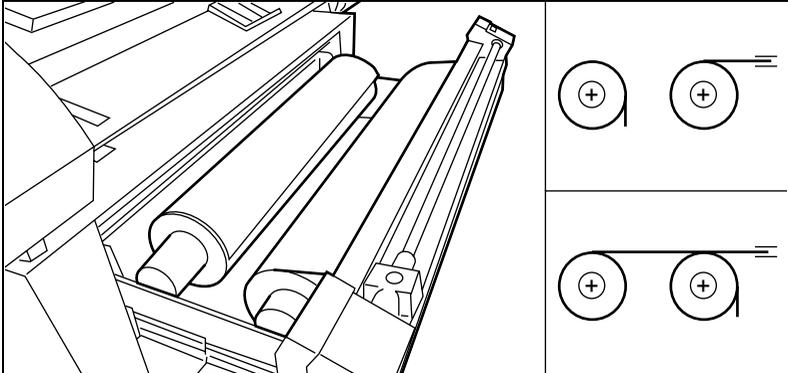
- 5 Put a new roll on the holder as follows:
6 Remove the (empty) roll from the roll holder while pressing the knob
(see figure 15).
7 Slide the roll holder in the new roll of copy material while pressing the knob
Note: *Keep the guide lines (A0, A1 etc.) at the right side, as shown in figure 15.*



[15] Pressing the knob

- 8 Align the copy material roll with the appropriate lines on the roll holder while pressing the knob.

- 9 Reposition the roll holder with the copy material in the drawer. (see figure 16)
- 10 Make sure that the cutter is moved entirely to the left or the right side



[16] Repositioning the roll

- 11 Feed the copy material into the feeder with one hand and turn the roll feeding knob with the other hand in the direction of the arrow.
Note: *Make sure that the copy material is fed into the feeder in a straight way.*
Note: *You can use the front or the back roll to feed the material.*
- 12 Hold the copy material with one hand, and move the cutter with your other hand entirely to the left or right side to cut the surplus of material.
- 13 Close the drawer.

Adding toner

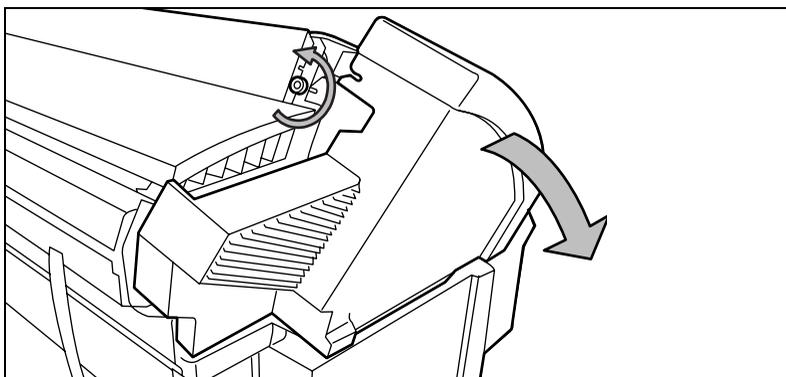
If the toner level is low, the 'add toner' indicator starts flashing. You can finish your job. Then add toner.

Attention: *If you ignore this symbol, copy quality will diminish.*



Adding toner

- 1 Switch off the copier.
- 2 Unscrew the knurled nut at the left hand side of the machine and open the cover (figure 17).

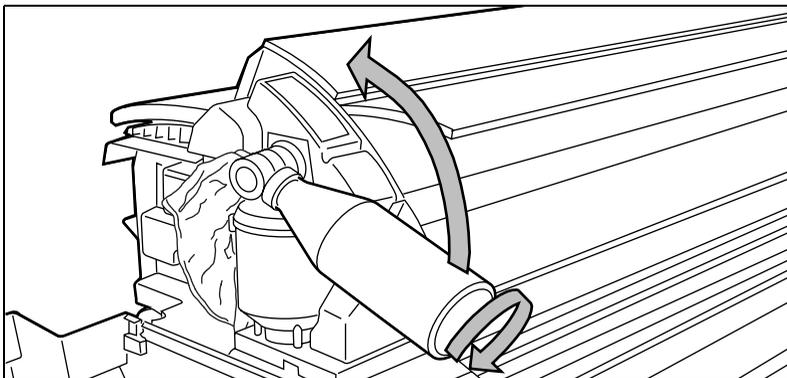


[17] Unscrewing knurled nut and opening the cover

- 3 Shake the toner bottle thoroughly and open the bottle.

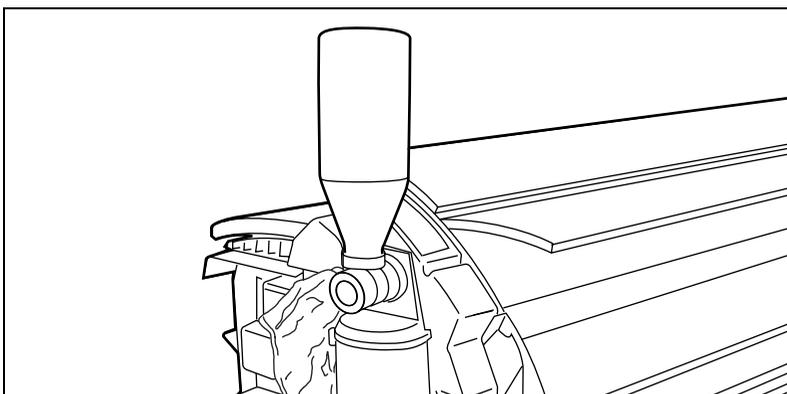
Attention: *Only use B1 toner.*

- 4 Screw in the bottle clockwise in a slanted position (figure 18).



[18] Screwing in the bottle

- 5 Move the toner bottle to a vertical position (figure 18 and 19).

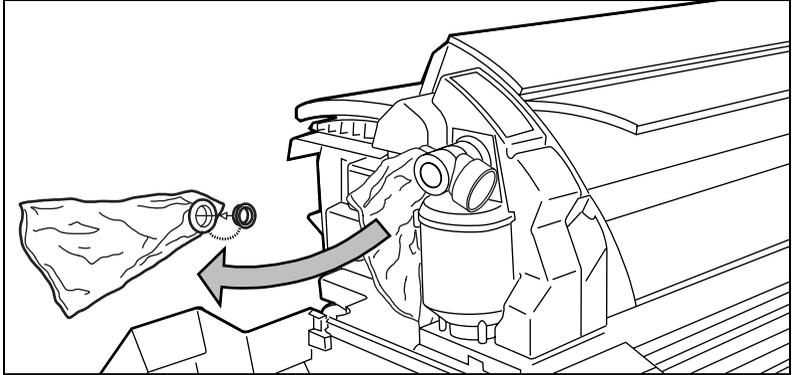


[19] Adding toner

- 6 When the toner bottle is empty return the bottle to the original position.
- 7 Unscrew the toner bottle anti clockwise.

▼ **Replacing the waste toner bag**

- 8** Pull the waste toner bag from the holder and place the cap provided on the bag (figure 20).



[20] Replacing the waste toner bag

- 9** Slide a new waste toner bag over the holder.
- 10** Close the cover and tighten the knurled nut.
- 11** Switch on the copier.

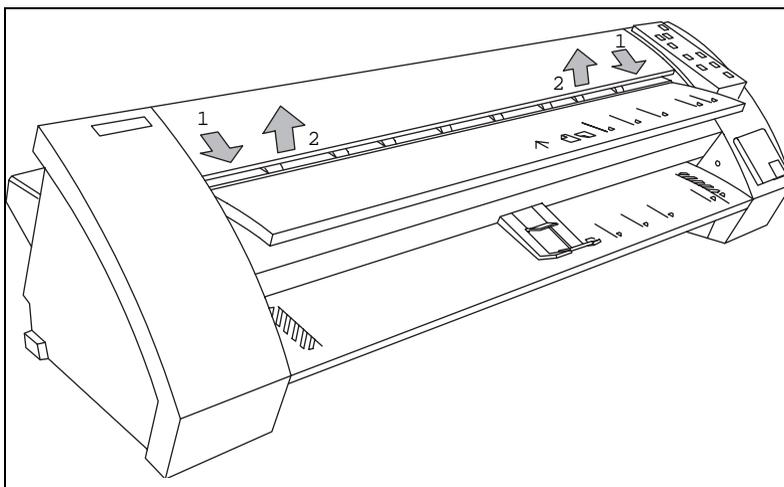
Cleaning the transparent platen

If the transparent platen is dirty or static it should be cleaned to ensure top quality copies. At the same time you can clean the white pressure platen

Attention: *To achieve the best results, we recommend the use of Océ cleaner 'A'. (Codennr. 1068117; Cleaner kit).*

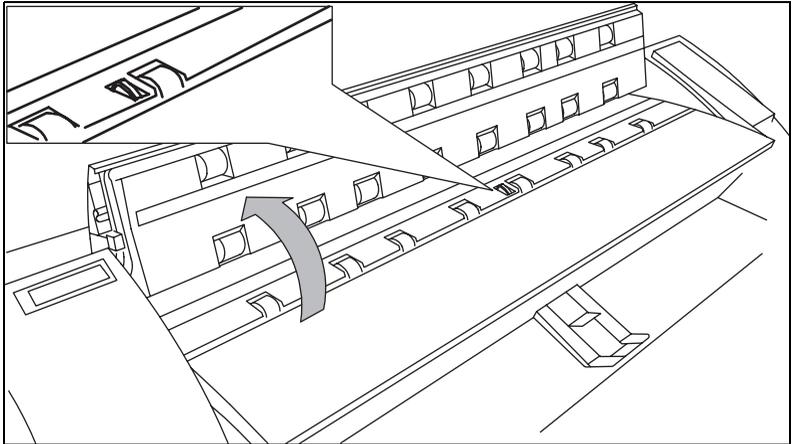
▼ Cleaning the transparent platen and the pressure platen

- 1 Switch off the copier.
- 2 Open the top cover by pulling it towards you and raising the cover (figure 21).



[21] Opening the top cover

- 3 Clean the transparent platen and the white pressure platen with a soft cloth moistened with a small quantity “Cleaner A”.
For safety information see the safety data sheet in Appendix B.



[22] Cleaning the transparent platen and the white pressure platen

Attention: *Make sure not to damage the actuator figure 22, located in the middle of the transparent platen.*

- 4 Close the top cover and push it back until you hear a click.
- 5 Switch on the copier.

Chapter 4

Solving problems

This chapter contains information on how to proceed in case a problem arises



Introduction

This chapter documents problems that may occur with the Océ 7050/7051 and how to solve them.

When an error occurs, the operating panel informs you about the nature of the problem.:

Océ 7050/7051 with manual roll

- if the paper path indicator flashes, a paper jam has occurred (see ‘Clearing original jams’ on page 35 and ‘Clearing paper jams’ on page 36).
- if the display shows an error code, i.e. between E0 and E2, an operator recoverable error has occurred. (see ‘Operator recoverable errors’ on page 39)
- if the display shows a flashing 4-digit error code, a machine error has occurred (see ‘Machine errors’ on page 40).

Clearing original jams



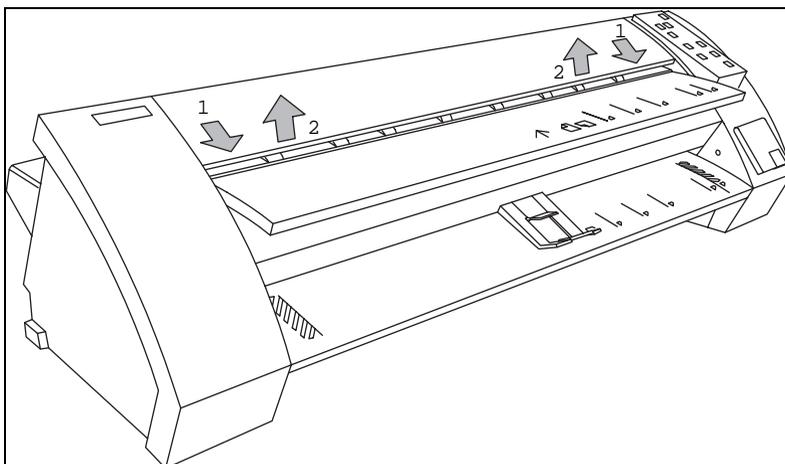
When during copying an original jam occurs, the paper path indicator will start flashing and the display shows the error message E0.

▼ Clearing an original jam

- 1 Switch off the copier.
- 2 First try to remove the jammed original by pulling it gently towards you with both hands.

In case of a very fragile original:

- 3 Open the top cover by pulling it towards you and raising the cover (see figure 23).



[23] Opening the top cover

- 4 Remove the original.
- 5 Close the top cover and push it back until you hear a click.
- 6 If there is copy material in the copier, clear copy path see 'Clearing paper jams' on page 36.
- 7 Switch on the copier.

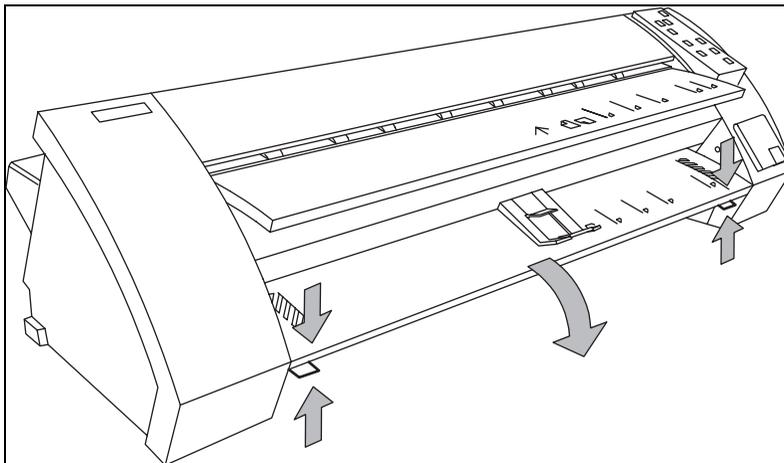
Clearing paper jams



When paper feeds incorrectly, the paper path indicator will flash.

▼ Clearing a paper jam in the copy material feed section

- 1 Switch off the copier.
- 2 Lower the copy feed table, using the two catches on the front underneath the copy feed table (see figure 24).



[24] .Lowering the copy feed table

- 3 Remove the jammed copy material.

Attention: Make sure the copy feed table is lowered before removing copy material.

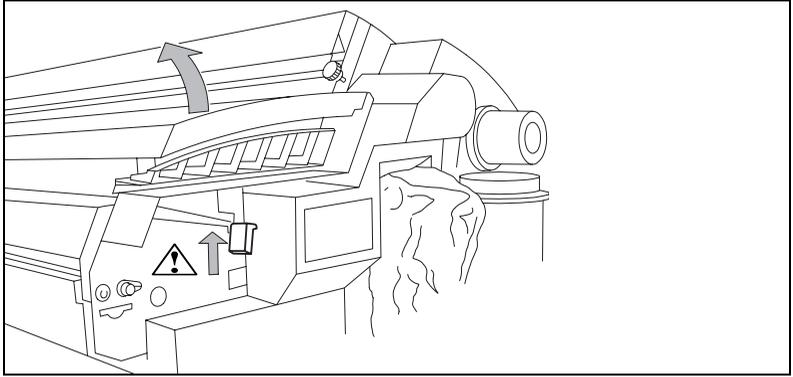
Attention: Pull the sheet of paper backwards carefully, the sheet might be unfused on some parts.

Note: Check thoroughly that no scraps of material are left behind.

- 4 Close the copy feed table.
- 5 Switch on the copier.

If the paper jam can not be cleared by opening the copy feed table than open the fusing section by:

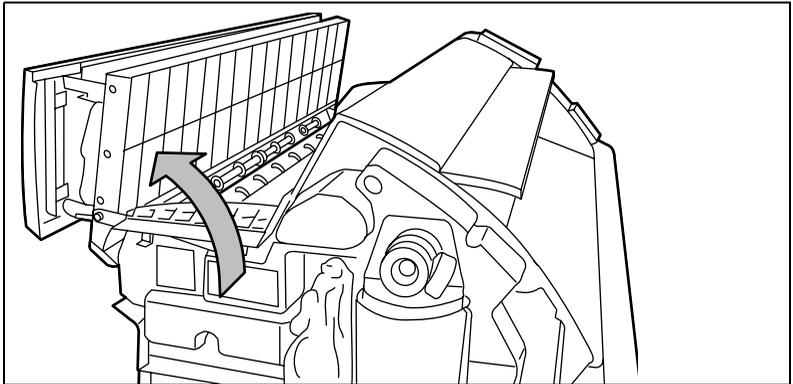
- 1 Switch off the copier.
- 2 Unscrew the knurled nut at the left hand side of the machine and open the cover (see figure 25).



[25] Opening the left cover at the rear of the machine

- 3 Lift the green handle and open the fuser unit (see figure 25 and 26).

Caution: *If the copier has been used recently, the fuser may still be hot.*



[26] Opening the fuser unit

- 4 Remove the jammed copy material.

Attention: *Be careful! The toner is not fused.*

Note: *Check thoroughly that no scraps of material are left behind.*

- 5 Lift the green handle and close the fuser unit.
- 6 Close the left cover and screw the knurled nut.
- 7 Switch on the copier.

Operator recoverable errors

When the copier detects an error, the copier stops immediately. The paper path indicator will lit and the length display shows an error code.

The following explains the general procedure in case of an operator recoverable error

▼ **General procedure for operator recoverable errors**

- 1 Remove the original.
- 2 Open the manual copy material feed table.
- 3 Remove the copy material.
- 4 Check the paper path.
- 5 Close the manual copy material feed table.

The following table gives an overview of possible causes and specific actions.

Error messages

<i>Message</i>	<i>Possible causes</i>	<i>Specific actions</i>
E0	<ul style="list-style-type: none">■ Copy material is removed during the copy process.■ Stop button has been pressed during a copy process.■ Original feed problem.	Contact the key operator.
E1	Paper feed table is open.	Close paper feed table.
E2	Copy material is too short	Contact the key operator.

Machine errors

- ▼ **Solving a machine error**
- 1 Switch off the copier and check the complete paper path (see page 35 and page 36).
 - 2 Then switch it on again.
If the operator panel shows no error indication, you can continue copying.
- If the machine error maintains, then call the key operator.

Appendix A

Overview and tables



Standard settings

On delivery the Océ 7050/7051 is configured with a number of standard settings.

Standard settings

Océ 7050/7051

Exposure scale	0
Copy material	paper
Trailing edge (Océ 7051 only)	0 mm
Copy quantity (Océ 7051 only)	1

Product specifications

For more information about product specifications refer to the Océ 7050/7051 safety data sheet in Appendix B.

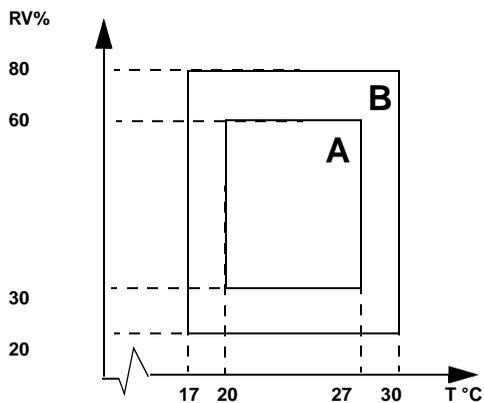
Product specifications

Process	Dry indirect electrostatic
Exposure	Slit exposure with one fluorescent lamp and SLA
Developing system	Binary toner system
Fixing system	Instant heating system
Warm-up time	none
Scale	1:1(+/- 0.5%)
Image width	Max. 914 mm (36")
Copying speed	3m/min
Machine size	Océ 7050/7051: 1352 x 795x 400 (wxdxh in mm) Océ 7050/7051 with manual roll: 1352 x 918 x 1251 (wxdxh in mm)
Machine weight	Océ 7050/7051: 85 kg (copy material excluded) Océ 7050/7051 with manual roll: 136 kg (copy material excluded)

Roomtemperature (T) and Relative Humidity (RH)

A: Machine specifications are applicable for the following conditions.

B: Copy quality not guaranteed, no permanent machine damage.



Originals that can be used

Overview of originals

<i>Originals</i>	<i>Minimum</i>	<i>Maximum recommended</i>
Width	210 mm	1000 mm
Length	279 mm	3000 mm-
Length in retention	1200 mm	
Thickness	0.05 mm	1.5 mm
Weight	60 g/m ²	120 g/m ² (max. 210 g/m ²)

Mechanical conditions originals

Curls

> Ø 75mm without help of operator

< Ø 75 mm with help of operator

< Ø 50 mm in carrier sheet

Paste ups

Paste ups should be pasted 100% at all edges or in carrier sheet

Filing strips

May be present at all edges of the original.

Maximum size of hole: Ø 36 mm

Borders

Punching holes, reinforcement borders and damages may require operator interventions or use of carrier sheets

Folds

Wrinkles and folds may be visible on the copy

Copy material that can be used

Océ copy machines and materials are matched for optimal quality and performance. It is therefore recommended to use only approved Océ materials in the Océ 7050/7051.

A full list of Océ materials suited for use in the Océ 7050/7051, including plain paper, transparent paper, coloured papers and various polyester films is available from your Océ representative.

The maximum roll length of the copy material is 175 m when you use 75 g/m² copy material and 150 m in case of 110 g/m². The diameter of the roll holder equals 3 inch.

Overview of copy material

<i>Copy material</i>	<i>Recommended</i>	
Plain paper	75 g/m ²	
Transparent paper	110 g/m ²	
Vellum	20 lbs	
Polyester film	3.5 mil	
ECO papers	75 g/m ²	
	<i>Minimum</i>	<i>Maximum</i>
Width	297 mm	914 mm
Length	420 mm	any manageable length

Attention: *Paper- and transparent material is sensitive to high humidity. To ensure optimal copy quality it is advised to keep the copy materials in the packaging specially overnight.*

Caution: *Materials which are metal based or conductive are not designed to use in this machine and may result in injury to the operator.*

Attention: *If sheets of copy material are curled, feed them in with the curl facing down, otherwise you will damage the drum.*

Compatibility review media

<i>Materials</i>	<i>Weight</i>	<i>Judgement</i>	<i>Remark</i>
Opaque paper	75 g/m ²	good	
Opaque paper	110 g/m ²	acceptable	Guaranteed up to 50% RH
ECO papers	75 g/m ²	good/acceptable	
Transparent paper	80/85 g/m ²	acceptable	
	90/95 g/m ²	acceptable	
	110/115 g/m ²	good	
Polyester film	3.5 mil	good	
Clear polyester film	4 mil	acceptable	
Contrast film	3.5 mil	good	
Vellum	20 lbs	good	
Vellum	16 lbs	acceptable	
Contrast paper	135 g/m ²	acceptable	Guaranteed up to 50% RH
Fluor paper	90 g/m ²	acceptable	
Pastel paper	80 g/m ²	acceptable	

Good: means fully recommended

Acceptable: means acceptable for limited performance

Not suitable: means not suitable at all

Appendix B

Safety information



Instructions for safe use

Océ copiers and materials have been developed and tested in accordance with the strictest international safety standards. To ensure safe working with these products it is important that you observe the following safety rules:

- Do not remove any screws from fixed panels.
- The copier is not user-serviceable except for the components and maintenance materials mentioned in this manual.
- Do not place any liquids on the copier.
- Use maintenance materials or other materials for their original purpose only. Keep maintenance materials away from children.
- Do not mix cleaning fluids or other materials.
- To avoid risks, all modifications to Océ equipment are strictly reserved for Océ service personnel. It is recommended to use only those copy-control products that comply with (inter)national standards regarding product safety and radio-frequency interference. It is also recommended to use attachment cables specified by Océ.
- The copier has been fitted with an ozone filter. If you have a maintenance contract, the Océ service engineer will check this filter regularly and replace it if necessary.

Correct operation is guaranteed only if the filter is replaced by Océ.

- Do not move the copier yourself. Contact your Océ Customer Service when you wish to move the copier. If for some reason you have to move the copier yourself, please make sure that the mains power point has the right fuse capacity. See the Océ 7050/7051 safety data sheet in this appendix for information about fuses.
- Do not bridge any mechanical or electrical circuit breakers.
- Do not use an extension lead to connect the copier.
- Locate the copier close to a wall socket that is easily accessible.
- The switch in the fixed connection (if any) should be easily accessible.
- This copier has not been designed for connection to an IT power system. (An IT power system is a voltage network in which the neutral wire is not connected to earth).
- Do not block the ventilation openings of the copier.
- Ensure that the copier is placed on a level, horizontal surface of sufficient strength. See the Océ 7050/7051 safety data sheet in this appendix for information about the weight of the copier.
- Ensure there is sufficient space around the copier. This facilitates reloading materials as well as maintenance.

- Do not place the copier in rooms which are subject to excessive vibration.
- Do not place the copier in rooms which are too small and insufficiently ventilated. See the Océ 7050/7051 safety data sheet in this appendix for information about space and ventilation requirements.
- Always use materials recommended by Océ and developed for this Océ copier. Materials not approved by Océ may result in faults in your copier.
- Do not use the copier when it is emitting unusual sounds. Remove the plug from the power socket and contact Océ Customer Service.
- To avoid temporary visual inconvenience, do not look directly into the light; if possible, close the cover before starting a copy job.

Mains core colours

As the colours of the cores in the mains lead of this equipment may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

- The core which is coloured green and yellow must be connected to the terminal in the plug which is marked with the letter E or by the earth symbol, coloured green and yellow.
- The core which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
- The core which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

Safety data sheets

The disclaimer below is valid for all safety data sheets in this manual. For questions about Océ products regarding health, safety and environment, please contact your Océ organisation; you can find the address in the last appendix of this manual.

Disclaimer The safety data sheets in this manual have been compiled to the best of our knowledge as a compact guide to safe handling of this product. We reserve the right to revise safety data sheets as new information becomes available. It is the user's responsibility to determine the suitability of this information for the adoption of safety precautions as may be necessary and to contact the company to make sure that the sheet is the latest one issued. If and in so far as limitation of liability is permitted under the applicable laws, we do not accept liability for any inaccuracy that may occur in this information.

Note: *Not all safety data sheets were available at the moment this manual was published. The Océ organisation in your country will be pleased to send you a copy of the missing sheets. You can find the address of the Océ organisation in your country in the last appendix of this manual.*

Safety data sheet Océ 7050/7051



Number: E-647-b-UK
Date: May 1995

Model	Océ 7050/7051			
Description	Plain paper engineering (large format) copier, desk-top or console model			
Max. process speed	3 m/min			
Dimensions	Width	Depth	Height	
	1352 mm	incl. stand 1352 mm	incl. shelves 1352 mm	incl. man. roll 1352 mm
	795 mm	795 mm	795 mm	918 mm
	400 mm	1251 mm	1251 mm	1251 mm
Weight	85 kg	114 kg	127 kg	142 kg
Voltage	230 V			
Frequency	50 Hz			
Current - rated	7,5 A			
Current - max	10 A			
Power consumption, operation	1500 W			
Power consumption, standby	10 W			
Mains connection	Cable with plug			
Safety class	I (IEC 536) Protective earth connection			
Protection class	IP 20 (IEC 529)			
Sound pressure level	At operator position: in operation 58 dB(A); impulse $\Delta L_1 = 3$ dB(A)			
Sound power level	In operation 65 dB(A)			
Radio interference	Complies with Directive 89/336/EEC			
Radiation	Below the Threshold Limit Value for UV radiation (TLV list of ACGIH)			
Heat emission	Standby 10 W ; in operation 1500 W			
Ozone emission	0,04 mg/min at continuous operation			
Room volume	Recommendation: min. 25 m ³			
Room ventilation	Recommendation: min. 12,5 m ³ /h (natural ventilation)			
Use simulation at random operation	Room volume and ventilation as recommended			
	Daily copy volume (much more than average) 100 m			
	Total worktime 8 h			
	Ozone concentrations:			
	- Time weighted average 0,002 mg/m ³ (0,001 ppm)			
	- Peak 0,008 mg/m ³ (0,004 ppm)			
	<i>Threshold Limit Value/Occupational Exposure Limit (Time Weighted Average) for ozone 0,2 mg/m³ (0,1 ppm)</i>			
	<i>Odour Perception Limit for ozone 0,04 mg/m³ (0,02 ppm)</i>			
Consumables	Océ OPC Drum (Océ Safety Data Sheet E-192) Océ B1 Toner (Océ Safety Data Sheet E-180) Océ D1 Developer (Océ Safety Data Sheet E-181) Océ Copying Materials			
Marking	CE-Compliance	Approved according to Low Voltage Directive 73/23/EEC	Approved according to EMC Directive 89/336/EEC	
Additional safety information	During the projected lifetime of the copier, the ozone concentration in the workplace will not exceed 0,04 mg/m ³ . Therefore, replacement of the ozone filter will not be necessary.			

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The content of this safety data sheet is subject to the disclaimer of liability on page 53 of this manual.

Safety data sheet Océ B1 Toner

MATERIAL SAFETY DATA SHEET (93/112/EEC and ISO 11014-1)

Number E-180-b-UK
Date July 1997
Page 1 of 2



Océ B1 Toner

1. Product and company identification

Product name Océ B1 Toner
Packing Polyethylene bottle, contents 0,4 kg/0.89 lb

2. Composition / information on ingredients

Ingredients	CAS No.	Classification	Weight %
Polyester resin	170831-75-1		50-100
Phenoxy resin	PMN P-95-461		25-50
Carbon black	1333-86-4		5-10
Dye			1-5
Pigments			<1

3. Hazards identification

In a toner dust cloud the formation of an explosive dust-air mixture is possible.
Toner dust may cause discomfort for the eyes and respiratory tract, in the same manner as inert nuisance dust.
To our knowledge, with due observance of the recommended exposure limit and of normal hygiene this product presents no health hazard in normal use.

4. First aid measures

Eyes contact Rinse with plenty of water.
Skin contact Wash with cold water and soap.
Inhalation Clean nose, mouth, throat. Cough up. Fresh air.
Ingestion Rinse mouth with water. If large quantity swallowed seek medical advice.

For any medical advice take along this material safety data sheet.

5. Fire fighting measures

Flash point (°C) N.A. (=Not Applicable)
Explosion limits (dust explosion) LEL approx. 60 g/m³. UEL U (= unknown)
Ignition temperature (°C) Approx. 500
Extinguishing media Dry chemical, carbon dioxide, water spray (fog), foam
Special fire fighting precautions N.A.
Hazardous products of decomposition N.A.

6. Accidental release measures

Spills can be cleaned with a vacuum cleaner or a damp rag. Do not use warm water, because this makes the powder soft and sticky.

7. Handling and storage

Keep bottle tightly closed to prevent dust formation. Handle carefully. Avoid breathing dust.
No special technical measures for storage.

8. Exposure controls / personal protection

No special technical measures. No personal protective equipment needed.
Industrial hygiene: after skin contact wash with cold water and soap.
Threshold Limit Value for nuisance dust: 10 mg/m³.
Threshold Limit Value for carbon black: 3,5 mg/m³.

continued on the next page

MATERIAL SAFETY DATA SHEET
(93/112/EEC and ISO 11014-1)

Number E-180-b-UK
Date July 1997
Page 2 of 2



Océ B1 Toner

9. Physical and chemical properties

Appearance and odour	Black powder, faint odour.	Bulk density (kg/m ³)	Approx. 1250
Boiling point (°C)	N.A.	Softening point (°C)	Approx. 50
Vapour density (air = 1)	N.A.	Evaporation rate (butyl acetate = 1)	N.A.
Solubility in water	Insoluble	% Volatile	0
Vapour pressure	N.A.	pH (solution)	N.A.
Other characteristics	N.A.		

10. Stability and reactivity

Thermal decomposition	Above approx. 450 °C
Hazardous decomposition products	None at intended use
Hazardous reaction	None at intended use

11. Toxicological information

Inhalation	* At high concentration in air the powder may cause discomfort of upper respiratory system.
Skin	* No adverse health effects are expected.
Eyes	* Dust may cause discomfort in the same manner as nuisance dust.
Ingestion	* Considered relatively harmless.
Mutagenicity	No mutagenicity detected in Ames test.

* These statements are based on toxicological literature on the ingredients of this product and test results of similar products.

12. Ecological information

This product is not biodegradable.
The ingredients are not classified as ecologically hazardous. No adverse environmental effects are expected.

13. Disposal considerations

Pack waste dustproof to prevent dusting. With due observance of local laws and regulations, dispose of by burial in a sanitary landfill or incineration. Do not throw in open fire, in order to prevent the risk of a dust explosion.

14. Transport information

This product is not classified as a dangerous substance according to the international transport regulations.

15. Regulatory information

This product is not classified as a dangerous preparation according to the European Directives 67/548/EEC and 88/379/EEC for the classification, packaging and labelling of dangerous substances and preparations.
Therefore, indications of special risks or safety advice on the packing are not prescribed for this product.

16. Other information

Use: ink powder for copiers.
Room ventilation: see operator manual or safety data sheet for the copier.
Revision of E-180-a-UK dated November 1994.
Modifications: Statement of mutagenicity, softening point and information on ingredients changed.

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The content of this safety data sheet is subject to the disclaimer on page 53 of this manual.

Safety data sheet Océ D1 Developer

MATERIAL SAFETY DATA SHEET (93/112/EEC and ISO 11014-1)

Number E-181-b-UK
Date July 1997
Page 1 of 2



Océ D1 Developer

1. Product and company identification

Product name Océ D1 Developer
Packing Polyethylene bottle, contents 1,65 kg/3,63 lb

2. Composition / information on ingredients

Ingredients	CAS No.	Classification	Weight %
Iron oxide	1317-61-9		50-100
Polyester resin	170831-75-1		1-5
Phenoxy resin	PMN P-95-461		1-5
Carbon black	1333-86-4		< 1
Dye			< 1
Pigments			< 1

3. Hazards identification

In a developer dust cloud the formation of an explosive dust-air mixture is possible.
Developer dust may cause discomfort for the eyes and respiratory tract, in the same manner as inert nuisance dust.
To our knowledge, with due observance of the recommended exposure limit and of normal hygiene this product presents no health hazard in normal use.

4. First aid measures

Eyes contact Rinse with plenty of water.
Skin contact Wash with cold water and soap.
Inhalation Clean nose, mouth, throat. Cough up. Fresh air.
Ingestion Rinse mouth with water. If large quantity swallowed seek medical advice.

For any medical advice take along this material safety data sheet.

5. Fire fighting measures

Flash point (°C) N.A. (=Not Applicable)
Explosion limits (dust explosion) LEL U (= unknown UEL U)
Ignition temperature (°C) Approx. 500
Extinguishing media Dry chemical, carbon dioxide, water spray (fog), foam
Special fire fighting precautions N.A.
Hazardous products of decomposition N.A.

6. Accidental release measures

Spills can be cleaned with a vacuum cleaner or a damp rag. Do not use warm water, because this makes the powder soft and sticky.

7. Handling and storage

Keep bottle tightly closed to prevent dust formation. Handle carefully. Avoid breathing dust.
No special technical measures for storage.

8. Exposure controls / personal protection

No special technical measures. No personal protective equipment needed.
Industrial hygiene: after skin contact wash with cold water and soap.
Threshold Limit Value for nuisance dust: 10 mg/m³.
Threshold Limit Value for carbon black: 3,5 mg/m³.

continued on the next page

MATERIAL SAFETY DATA SHEET
(93/112/EEC and ISO 11014-1)

Number E-181-b-UK
Date July 1997
Page 2 of 2



Océ D1 Developer

9. Physical and chemical properties

Appearance and odour	Black powder, faint odour.	Bulk density (kg/m³)	Approx. 2500
Boiling point (°C)	N.A.	Softening point (°C)	Approx. 50
Vapour density (air = 1)	N.A.	Evaporation rate (butyl acetate = 1)	N.A.
Solubility in water	Insoluble	% Volatile	0
Vapour pressure	N.A.	pH (solution)	N.A.
Other characteristics	N.A.		

10. Stability and reactivity

Thermal decomposition	Above approx. 450 °C
Hazardous decomposition products	None at intended use
Hazardous reaction	None at intended use

11. Toxicological information

Inhalation	* At high concentration in air the powder may cause discomfort of upper respiratory system.
Skin	* No adverse health effects are expected.
Eyes	* Dust may cause discomfort in the same manner as nuisance dust.
Ingestion	* Considered relatively harmless.
Mutagenicity	No mutagenicity detected in Ames- test of similar products.

* These statements are based on toxicological literature on the ingredients of this product and test results of similar products.

12. Ecological information

This product is not biodegradable.
The ingredients are not classified as ecologically hazardous. No adverse environmental effects are expected.

13. Disposal considerations

Pack waste dustproof to prevent dusting. With due observance of local laws and regulations, dispose of by burial in a sanitary landfill or incineration. Do not throw in open fire, in order to prevent the risk of a dust explosion.

14. Transport information

This product is not classified as a dangerous substance according to the international transport regulations.

15. Regulatory information

This product is not classified as a dangerous preparation according to the European Directives 67/548/EEC and 88/379/EEC for the classification, packaging and labelling of dangerous substances and preparations.
Therefore, indications of special risks or safety advice on the packing are not prescribed for this product.

16. Other information

Use: ink powder for copiers.
Room ventilation: see operator manual or safety data sheet for the copier.
Revision of E-181-a-UK dated December 1994.
Modifications: Statement of mutagenicity, softening point and information on ingredients changed.

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The content of this safety data sheet is subject to the disclaimer on page 53 of this manual.

Safety data sheet Océ OPC Drum

MATERIAL SAFETY DATA SHEET (93/112/EEC and ISO 11014-1)

Number E-192-b-UK
Date July 1997
Page 1 of 2



Océ OPC Drum Part No. 2912571

1. Product and company identification

Product name Océ OPC Drum Part No. 2912571 (for Océ 7050 family)
Packing Cardboard box

2. Composition / information on ingredients

Ingredients	CAS No.	Classification	Weight %
Aluminium	7429-90-5		>99
Resins			< 1
Pigments			< 1

3. Hazards identification

To our knowledge this product presents no health hazard in normal use.

4. First aid measures

Eyes contact Not Applicable(=N.A.)
Skin contact N.A.
Inhalation N.A.
Ingestion N.A.

For any medical advice take along this material safety data sheet.

5. Fire fighting measures

Flash point (°C) N.A. (=Not Applicable)
Explosion limits (dust explosion) LEL N.A. UEL N.A.
Ignition temperature (°C) N.A.
Extinguishing media Dry chemical, carbon dioxide, water spray (fog), foam
Special fire fighting precautions N.A.
Hazardous products of decomposition N.A.

6. Accidental release measures

N.A.

7. Handling and storage

No special technical measures for storage.

8. Exposure controls / personal protection

No special technical measures. No personal protective equipment needed.
No special work hygiene practices needed.

continued on the next page

MATERIAL SAFETY DATA SHEET
(93/112/EEC and ISO 11014-1)

Number E-192-b-UK
Date July 1997
Page 2 of 2



Océ OPC Drum Part No. 2912571

9. Physical and chemical properties

Appearance and odour	brown odourless drum	Density (g/cm ³)	2.7
Boiling point (°C)	N.A.	Melting point (°C)	N.A.
Vapour density (air = 1)	N.A.	Evaporation rate (butyl acetate =1)	N.A.
Solubility in water	insoluble	% Volatile	0
Vapour pressure	N.A.	pH (solution)	N.A.
Other characteristics	N.A.		

10. Stability and reactivity

Thermal decomposition	None at intended use
Hazardous decomposition products	None at intended use
Hazardous reaction	None at intended use

11. Toxicological information

Inhalation	N.A.
Skin	No adverse health effects are expected. (Based on toxicological literature on the ingredients of this product)
Eyes	N.A.
Ingestion	N.A.
Mutagenicity	No mutagenicity detected in Ames test. None of the ingredients is listed as mutagenic or carcinogenic.

12. Ecological information

This product is not biodegradable.
The ingredients are not classified as ecologically hazardous. No adverse environmental effects are expected.

13. Disposal considerations

The drum will be returned to Océ for re-use.

14. Transport information

This product is not classified as a dangerous substance according to the international transport regulations.

15. Regulatory information

This product is an article and contains no dangerous substances. Therefore, indications of special risks or safety advice on the packing are not prescribed for this product.

16. Other information

Use: photoconductor for copiers.
Revision of E-192-a-UK dated December 1994.
Modification:none

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The content of this safety data sheet is subject to the disclaimer on page 53 of this manual.

Safety data sheet Océ Cleaner A

Not yet available.

EPA Energy Star®

Océ-Technologies B.V. has joined the Energy Star Program of the United States Environmental Protection Agency (EPA). The purpose of the Energy Star Program is to promote the manufacturing and marketing of energy-efficient equipment, thereby potentially reducing combustion-related pollution.

Using the energy management features outlined below prevents unnecessary power consumption, which helps to prevent air pollution from electricity generating plants and saves money on your utility bills.

As an Energy Star Partner, Océ-Technologies B.V. has determined that the Océ 7050 and 7051 large format copier models meet the Energy Star guidelines for energy efficiency.

The EPA Energy Star criteria for these large format copiers involve the following features:

auto-off mode The use of the auto-off feature offers economic and environmental benefits. The copiers are shipped with the auto-off mode default time set at 2 minutes, which means that the device switches itself off 2 minutes after the last copy is made. The auto-off mode default time is a fixed value and cannot be adjusted. The auto-off mode recovery time is less than 1 second, after which copying can be resumed (“instant copying”).

recycled paper The use of recycled paper also benefits the environment. These copiers are designed to use recycled paper. Product literature on recommended types of recycled copier paper can be obtained from your local Océ company or Océ Headquarters (Océ-Technologies B.V.) in Venlo, the Netherlands.



® Energy Star is a U.S. registered mark

Appendix C

Miscellaneous



Notation conventions

There are a number of notation conventions used in this manual. This consistent style enables you to quickly become conversant with the use of this manual and consequently the Océ 7050/7051.

Description Each section or subsection contains a description of the feature or operation identified in the title. It might also include possible applications, as well as any guidelines that you should bear in mind.

Procedures A description is followed by a procedure. A procedure always begins with a phrase which briefly describes the procedure, followed by a series of numbered steps that take you, step by step, through all phases of performing the operation.

Figures and tables Figures and tables are titled and numbered sequentially throughout this manual. Figures include pictures of product components, screendumps, examples, and diagrams of concepts discussed in the description.

Attention getters There are several types of information to which we draw your attention. This information is classified as follows:

Note: *In a 'Note', information is given about matters which ensure the proper functioning of the machine or application, but useful advice concerning its operation may also be given.*

Attention: *The information that follows 'Attention' is given to prevent something (your copy or original, the copier or printer, data files etc.) being damaged.*

Caution: *The information that follows 'Caution' is given to prevent you suffering personal injury.*

Reader's comment sheet

Have you found this manual to be accurate?

- Yes
- No

Could you operate the product after reading this manual?

- Yes
- No

Does this manual provide enough background information?

- Yes
- No

Is the format of this manual convenient in size, readability and arrangement (page layout, chapter order, etc.)?

- Yes
- No

Could you find the information you were looking for?

- Always
- Most of the times
- Sometimes
- Not at all

What did you use to find the required information?

- Table of contents
- Index

Are you satisfied with this manual?

- Yes
- No

Thank you for evaluating this manual.

If you have other comments or concerns, please explain or suggest improvements overleaf or on a separate sheet.

7055817

Comments:

Date:

This reader's comment sheet is completed by:
(If you prefer to remain unknown, please do fill in your occupation)

Name:

Occupation:

Company:

Phone:

Address:

City:

Country:

Please return this sheet to:

Océ-Technologies B.V.
For the attention of ITC User Documentation.
P.O. Box 101,
5900 MA Venlo
The Netherlands

Addresses of local Océ organisations

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P.O.Box 363
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Australia

Océ-Österreich GmbH
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1233 Vienna
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1140 Brussels
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