

*Translation of the original operating instructions*

## **Socket router Pro-Fit 2000 Vario**

**701F40=1**

**701F40=1-US**

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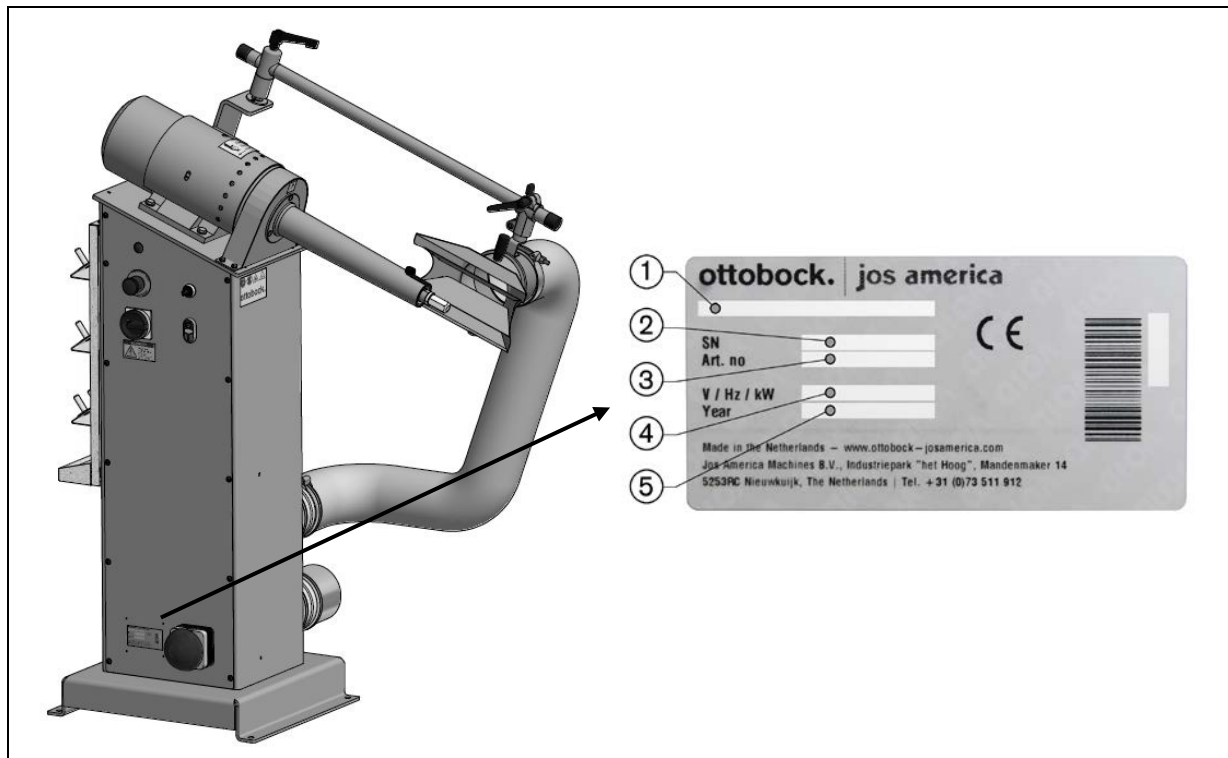
# 1. Important information on the document

	<p><b>WARNING</b></p> <p><b>Operating this product without following the operating instructions</b></p> <p>May result in death or very serious injuries as a result of following improper procedures</p> <ul style="list-style-type: none"> <li>▶ Study the operating instructions if you are to work with this product</li> <li>▶ Familiarise yourself with the structure and contents of the operating instructions by reading the "Scope of the document" section.</li> <li>▶ It is important to go through the "Product description" section and the safety instructions in sections relating to the work to be performed.</li> <li>▶ Always keep these operating instructions with the product</li> </ul>
	<p><b>The information set out opposite this symbol is intended to prevent serious injuries and/or death; always read this information carefully. The activity is only to be continued if the correct safety precautions have been taken.</b></p>

## 1.1 Scope of the document

This document relates to one or more of the products below:

Reference number	Machine designation
701F40=1	Socket router Pro-Fit 2000 Vario
701F40=1-US	Socket router Pro-Fit 2000 Vario



Nameplate key	
1	Product name
2	Serial number
3	Article number
4	Voltage in volts/Frequency in Hz/Power in kW
5	Year of manufacture

## ***1.2 Document release date***


Release date [year-month-day]	Version number
2017-04-26	1717

## ***1.3 Original operator's manual information***

This manual was created as the original operator's manual in the Dutch language. This manual in any other language is a translation of the original.

## 2. Product description

### 2.1 *Intended use*

	<p><b>WARNING</b></p> <ul style="list-style-type: none"> <li>▶ Use this product exclusively for the intended use.</li> <li>▶ The manufacturer is only liable to the extent that the socket router Pro-Fit 2000 Vario is used in accordance with the instructions.</li> <li>▶ You are advised to maintain this product in accordance with the manual.</li> </ul>
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The product was designed for the following areas of application:

#### **Intended production methods**

- Milling
- Grinding
- Pre-processing
- Polishing

#### **Material to be processed**

- ▶ Wood
- ▶ Pedilen and Pedilin
- ▶ Plastics
- ▶ Foams
- ▶ Composites

#### **Intended tools**

- ▶ Ottobock | Jos America tools suitable for both the production method and the material from which the workpiece is made

#### **Intended installation**




- ▶ Orthopaedic workshops

#### **User training level**

- ▶ Only to be used by well qualified employees
- ▶ Maintenance and repairs may only be performed by service technicians authorised by Ottobock | Jos America
- ▶ Machine may only be used by **one person** at a time

## 2.2 Explanation of symbols on the product

The symbols listed below appear on stickers attached to the product:

 <p><b>⚠ DANGER</b> <b>Hazardous voltage inside.</b> Disconnect power before opening. This unit is to be serviced by trained personnel only.</p>	<p>Danger, voltage. Disconnect the voltage source before opening.</p>
 <p><b>⚠ WARNING</b> Read and understand operator's manual before using this machine. Failure to follow operating instructions could result in death or serious injury.</p>	<p>Caution: First read the operator's manual carefully before using and/or operating this machine.</p>
 <p><b>⚠ ACHTUNG</b> Rotierende Achse <b>⚠ WARNING</b> Rotating Shaft <b>⚠ AVERTIR</b> Axe rotatif <b>⚠ PREVENIR</b> Eje rotatorio</p>	<p>Caution: rotating shaft. Contact with the shaft may cause very serious injuries resulting in death.</p>

For all symbols used in this manual, see the "Pictograms used" section.

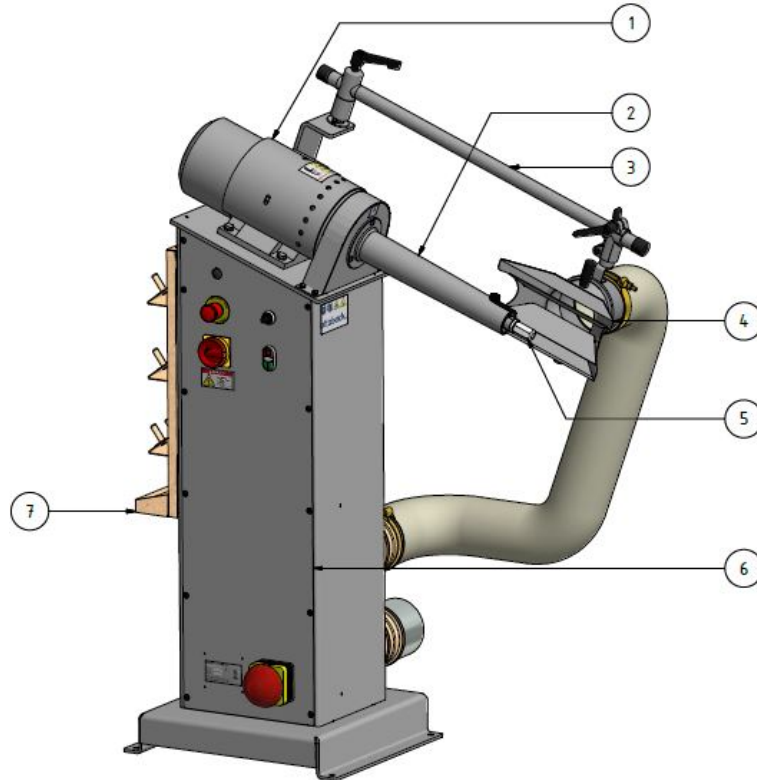
## 2.3 Improper use

The product is not intended for the following unauthorised applications:

- Improper use is any use that is not listed in the "**Intended use**" section.



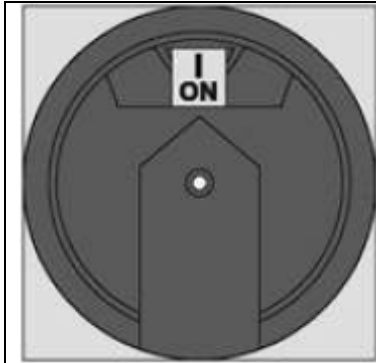
## 2.4 Product overview



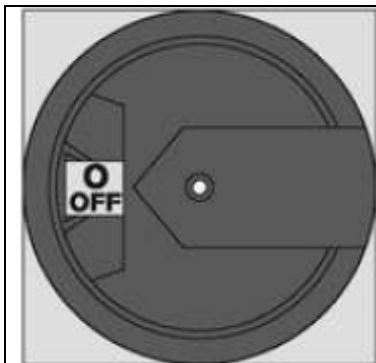
Product overview	
1	Socket router motor
2	Interchangeable shaft guard
3	Suction arm
4	Suction nozzle
5	Adapter/tool holder
6	Operating panel
7	Tool rack

## 2.5 *Operating elements*

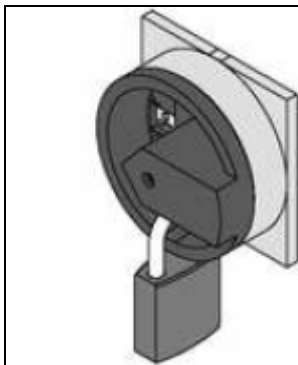
### 2.5.1 Mains switch



The product is ON when the switch is in the I ON position.

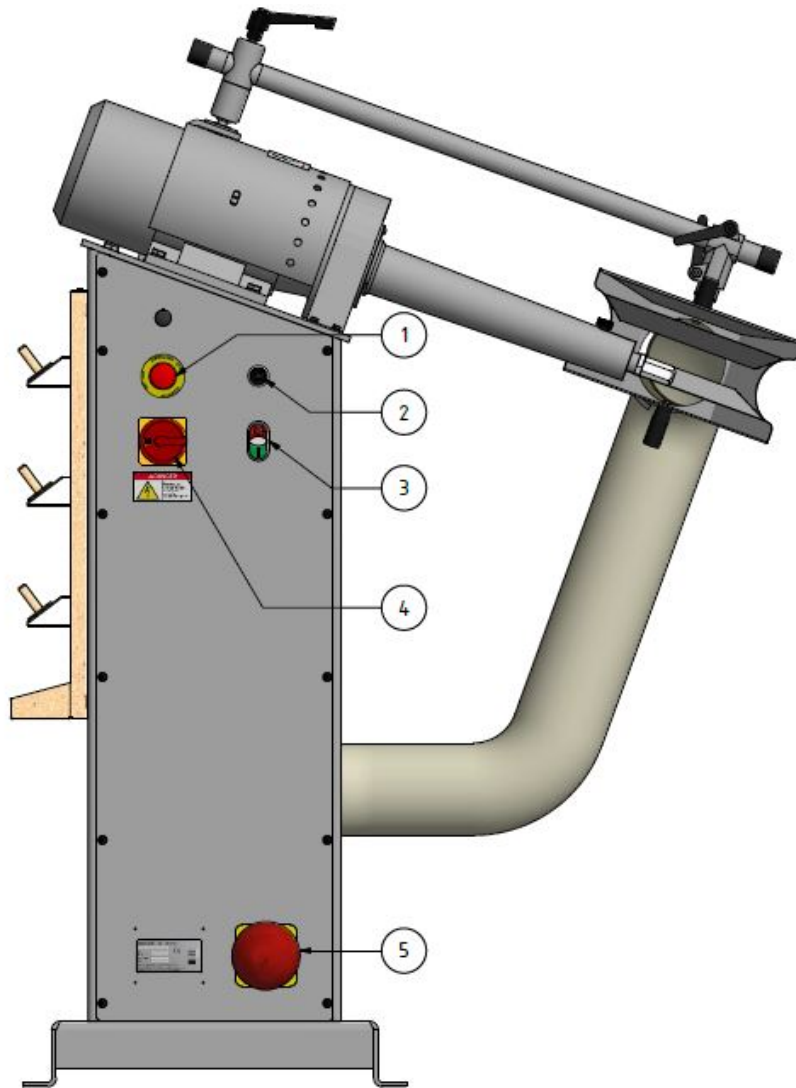


The product is OFF when the switch is in the O OFF position.



The mains switch can be locked in position O OFF using a padlock. This padlock is not included in the scope of delivery.


2.5.2 Operating panel





Operating panel key	
1	Emergency stop
2	Stepless adjustment of motor rotation speed
3	Start/stop buttons for socket router motor
4	Mains switch
5	Foot-operated emergency stop

1. Machine **emergency stop**. Pressing this button immediately stops all moving and rotating parts of the machine. This button is only to be used in emergencies and/or when an emergency situation threatens to arise.
2. **Stepless adjustment of motor rotation speed**. Rotating this dial between 0 and 10 adjusts the rotation speed of the motor steplessly to any value between 1195 and 3890 rpm.
3. **Start/stop buttons for socket router motor**. Pressing the green button (I) turns the abrasive belt on and illuminates the light in the centre of the control. Pressing the red button (O) turns the abrasive belt off and switches off the light in the centre of the control.
4. **Mains switch** of the machine. Turning the switch to the right (ON I) turns the electrical current on. The light is now illuminated and the machine is ready for use. Turning the switch to the left (OFF O) immediately stops all moving and rotating parts. All electrical power in the machine is switched off.
5. **Foot-operated emergency stop** of the machine. Pressing this button immediately stops all moving and rotating parts of the machine. This button is only to be used in emergencies and/or when an emergency situation threatens to arise.


### 3. Transport

	<p><b>WARNING</b></p> <p><b>Never walk or stand under suspended loads</b></p> <p>May result in death or very serious injuries as a result of following improper procedures</p> <ul style="list-style-type: none"> <li>▶ Ensure that no persons are located near suspended loads during transport.</li> </ul>
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	<p><b>WARNING</b></p> <p><b>A number of precautions must be taken to ensure safety during transport:</b></p> <ul style="list-style-type: none"> <li>▶ Wear safety shoes</li> <li>▶ Ensure the personnel are properly trained</li> <li>▶ Always lift or hoist with at least two people</li> <li>▶ Note the centre of gravity of the product so that it does not tip during transport</li> <li>▶ During transport, lifting and hoisting, do not exceed the maximum load for transport, lifting and/or hoisting equipment</li> <li>▶ Transport the product only in the original packaging</li> <li>▶ Make sure that the product is sufficiently secured to the means of transport</li> </ul>
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	<p><b>ATTENTION</b></p> <ul style="list-style-type: none"> <li>▶ Protect the product from moisture and extreme temperature shifts.</li> <li>▶ To avoid contamination during transport, leave the product in the original packaging or cover it with protective film.</li> </ul>
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### 4. Storage

	<p><b>ATTENTION</b></p> <ul style="list-style-type: none"> <li>▶ Before storing the product, read the "Technical data" section.</li> <li>▶ Protect the product from moisture and extreme temperature shifts.</li> <li>▶ In order to avoid contamination during storage, leave the product in the original packaging or cover it with protective film.</li> </ul>
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## 5. Unpacking








	<p><b>ATTENTION</b></p> <ul style="list-style-type: none"> <li>▶ Lift or hoist the product only at the point over the centre of gravity and ensure proper stability (for instance by using a forklift)</li> <li>▶ When lifting or hoisting, make sure the product cannot fall over</li> <li>▶ Place the product or parts of the product in suitable locations</li> <li>▶ Protect the product from moisture</li> </ul>
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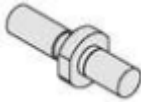
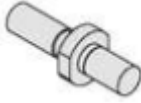
	<p><b>When unpacking, a number of precautions must be taken to ensure safety:</b></p> <ul style="list-style-type: none"> <li>▶ Wear safety shoes</li> <li>▶ Ensure the personnel are properly trained</li> </ul>
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	<ul style="list-style-type: none"> <li>▶ Check that the delivery is complete.</li> </ul>
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## ***5.1 Inspecting the delivered contents***

The following products are included in the scope of delivery:

<b>Product contents</b>			
<b>#</b>	<b>Product description</b>	<b>Article number</b>	<b>Image</b>
<b>1x</b>	Socket router Pro-Fit 2000 Vario	701F40=1 or 701F40=1-US	
<b>1x</b>	Manual for the socket router Pro-Fit 2000 Vario	JAM-16.10.0115.0	
<b>1x</b>	Electrical diagram	-	
<b>1x</b>	Push-fit connector Ø 125mm	702Y220=125	
<b>2x</b>	Open-ended spanner - 27mm	702F6=27	
<b>1x</b>	Earth cable for cuff	JAM-01.99.1061.0	
<b>1x</b>	Attachment set M12-25	702F280=1	
<b>1x</b>	Wall/floor mounting set 6x60	JAM-03.98.6060.0	

1x	Shaft guard, short	702F196	
1x	Protective nut 5/8"	502K2=5/8"	
1x	Adapter 5/8" - M16	702F7=M16	
1x	Adapter 5/8" - 5/8"	702F7=5/8"	
1x	Socket router accessories	646D1074	

The following product is supplied additionally with the 701F40=1:

1x	CEE wall socket, 230V (blue)	JAM-01.06.0051.0	
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## 6. Installation

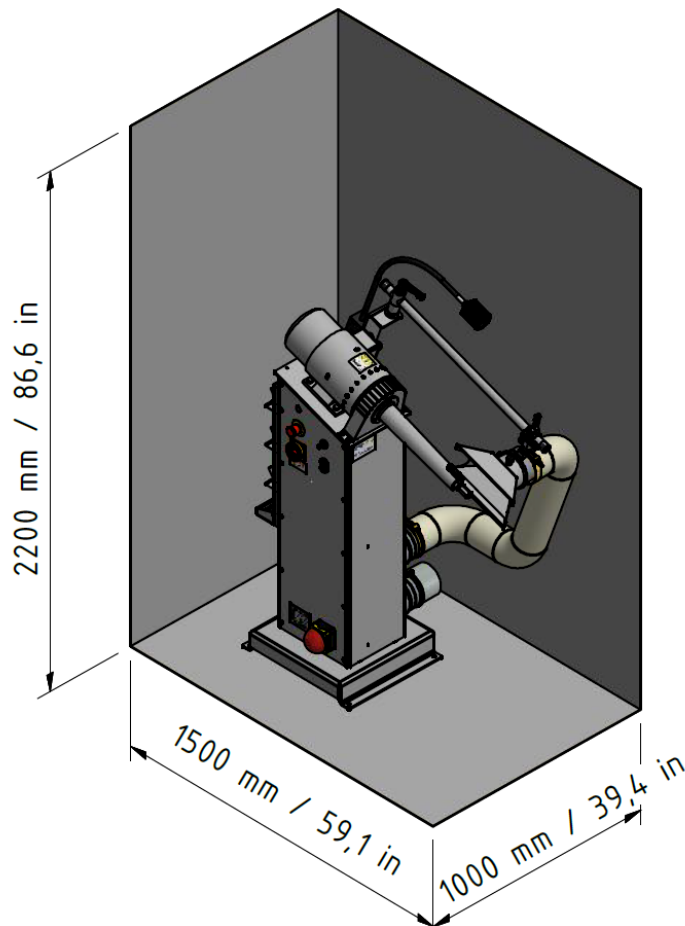
The socket router Pro-Fit 2000 Vario should be installed on a flat and, most importantly, firm surface. Sufficient space should be left around the product to allow for its operation and maintenance and for the heat to be dissipated. The surface must have a minimum load capacity equal to the weight of the socket router Pro-Fit 2000 Vario plus 10%. The weight of the product can be found in the "**Technical Data**" section of this document.

The socket router Pro-Fit 2000 Vario is delivered ready for use and is not suitable for permanent installation. The space required is:

Width: 1000 mm/39.4 in

Depth: 1500 mm/59.1 in

Height: 2200 mm/86.6 in



## ***6.1 Connecting the product***

Once the socket router Pro-Fit 2000 Vario has been positioned in its intended location with the required space left around it, it must be anchored to the floor to avoid the risk of it tipping over. It can then be connected up.

The following must be connected:

- Power supply
- Suction
- Suction earthing

### **6.1.1 Power**

Requirements:	701F40=1	701F40=1-US
Voltage	230V 1pH+N+PE	208V
Frequency	50Hz	60Hz
Each group	16A	15A
Residual current device	30mA type B	30mA type B

### **6.1.2 Suction**

A suction tube with a 125mm diameter is required to connect the product to an external/central suction source. The Pro-Fit 2000 has internal shaft extraction and an external suction nozzle. Provided the machine/suction has been switched on, extraction is in operation at all times both through the suction arm and the shaft.

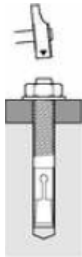
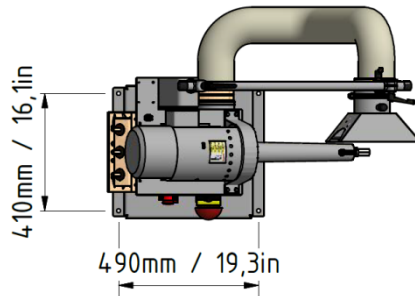
### **6.1.3 Suction earthing**

A green/yellow earthing cable is fitted to the product. This is attached to the 125mm-diameter exhaust tube that connects to the external/central suction source. This earthing is intended to discharge any static electricity.

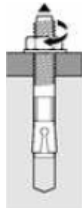
### 6.1.4 Anchoring the product



- ▶ Step 1: Drill 12mm/0.4844 inch diameter holes in the floor to a depth of 75mm/3 inches using the centre spacings shown in the figure below:



- ▶ Step 2: Position the nut as high up on the thread as possible to prevent damage to the thread.



- ▶ Step 3: Hammer the anchor into the pre-drilled hole until the washer is in contact with the machine foot.

- ▶ Step 4: Tighten the nut to the maximum torque of 50Nm.

## 7. Technical data

Name: 701F40=1(-US) socket router

Year of manufacture: See nameplate

Type:	701F40=1	701F40=1-US
Weight [kg/lbs]:	120 kg/264 lb	120 kg/264 lb
Dimensions:		
Width:	800 mm/31.5 in	800 mm/31.5 in
Depth:	1220 mm/48.03 in	1220 mm/48.03 in
Height:	1560 mm/61.4 in	1560 mm/61.4 in
Power [kW/hp]:	2.2/2.99	2.2/ 2.99
Voltage:	230V/50Hz	208V/60Hz
Current [A]:	10	11

Surface treatment: The product is finished with a paint layer in the colour RAL 7035.

Installation data: Ambient temperature between 5°C/41°F and 40°C/105°F.  
Floor surface must be even and flat

## 8. EC declaration of conformity

Manufacturer: Jos America Machines B.V.  
Industriepark "het Hoog"  
Mandenmaker 14 5253 RC,  
Nieuwkuijk, The Netherlands

Hereby declares that the socket router Pro-Fit 2000 Vario manufactured by us complies fully with the following directives:

<b>2006/42/EC</b> <b>2014/35/EU</b>	General machinery directive Low voltage directive
<b>2011/65/EU</b>	Restrictions on the use of certain hazardous substances in electrical and electronic equipment

and complies with the following standards:

<b>EN-ISO 12100:2010</b>	Safety of machinery – Terminology, general principles for design.
<b>EN-ISO 349:1993+A1:2008</b>	Safety of machinery – Minimum gaps to avoid crushing of parts of the human body.
<b>EN-ISO 13850:2015</b>	Safety of machinery – Emergency stop devices, functional aspects, design principles.
<b>EN 60204-1:2006+A1:2009</b>	Safety of machinery – Electrical equipment of machines. General requirements.

Nieuwkuijk,  
17 May 2017



A.H.M. Boom,  
Manager of Jos America Machines B.V.

## 9. Use

This section describes the daily operation of the socket router Pro-Fit 2000 Vario. The product is only suitable for applications as described in the "Intended use" section.

      	<p><b>Safety measures, including the following, must be taken during use:</b></p> <ul style="list-style-type: none"> <li>▶ Safety shoes required.</li> <li>▶ Eye protection.</li> <li>▶ Light breathing protection required.</li> <li>▶ Hearing protection required</li> <li>▶ Hair covering required</li> <li>▶ Safety clothing required</li> <li>▶ Do not wear gloves</li> <li>▶ Personnel trained for using the product.</li> <li>▶ Clean working environment, keep the floor clean.</li> </ul>
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## 9.1 Adjusting the suction arm

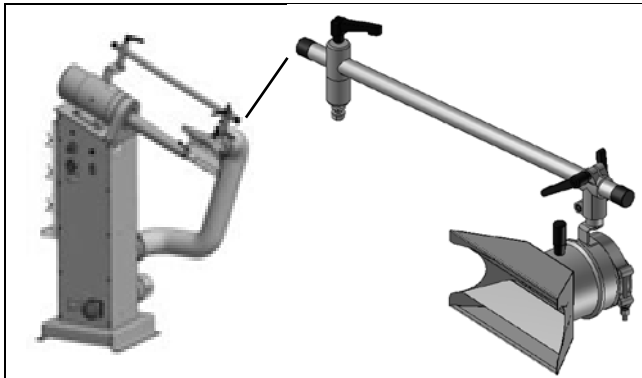


### WARNING

Switch the product off before performing the actions described in this section

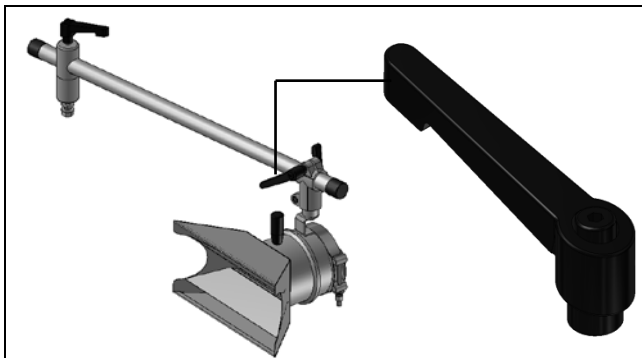
May result in death or very serious injuries as a result of following improper procedures

- ▶ Appropriately trained personnel



A number of levers allow the suction arm to be set to any position.

Optimal suction is obtained when the suction nozzle is positioned as close as possible to the tool and the workpiece.




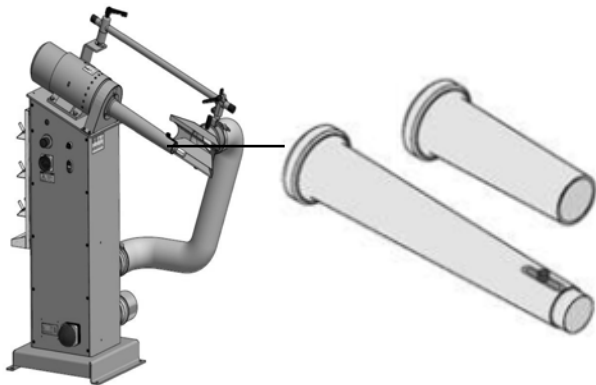
These (3x) levers allow the suction arm to be set to any position.

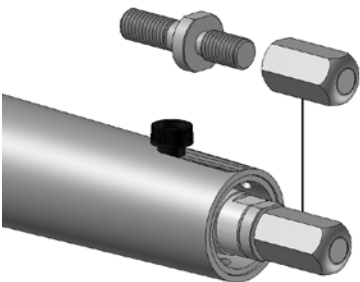
Turning the handle to the left unlocks the mechanism.

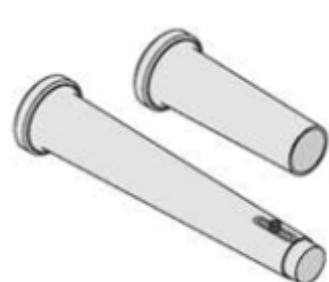
Turning the lever to the right locks the mechanism in place.

## 9.2 Exchanging the shaft guard

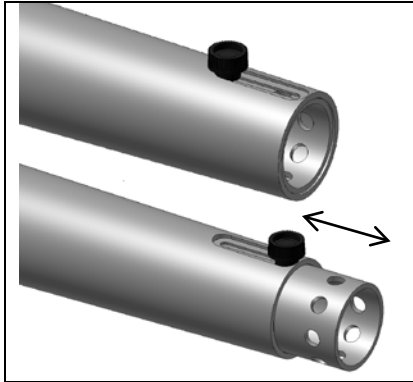
	<p><b>WARNING</b></p> <p>Switch the product off before performing the actions described in this section</p> <p>May result in death or very serious injuries as a result of following improper procedures</p> <ul style="list-style-type: none"> <li>▶ Appropriately trained personnel</li> </ul>
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	<p>A long and a short guard are supplied for fitting over the motor shaft.</p> <p>The guards can be interchanged to suit the tools you are working with.</p> <p>Always use one or other of the shaft guards.</p>
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	<p>If a tool is still in place, this must first be removed. To prevent damage to the adapter thread, you should also either remove the adapter or fit the 5/8" protective nut onto the adapter.</p>
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	<p>To remove the shaft guard, turn it to the <b>right</b> (clockwise).</p> <p>To tighten the shaft guard, turn it to the <b>left</b> (anti-clockwise).</p>
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The long shaft guard is fitted with an adjustable protective sleeve. This can be slid backwards or forwards to achieve optimal extraction for the type of tool being used at the time.

## 9.3 Changing the adapter and/or tool

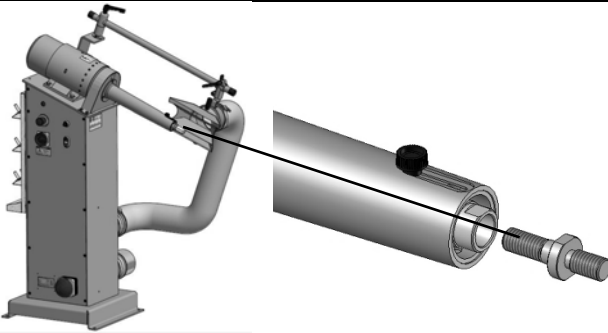


### WARNING

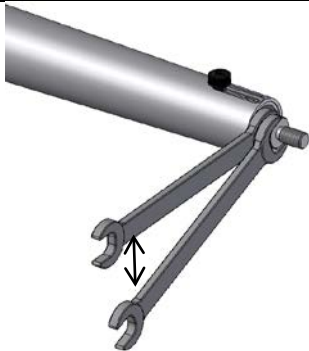
Switch the product off before performing the actions described in this section

May result in death or very serious injuries as a result of following improper procedures

- ▶ Appropriately trained personnel





The tip of the socket router motor shaft is equipped with a hole having a 5/8" internal thread. Two adapters (5/8"-5/8" and 5/8" - M16) are supplied as standard; these allow any standard tools to be used.



To change the adapter and/or tool, use a pair of 27mm spanners.

## 10. Servicing the product

Servicing of the products of Ottobock | Jos America must only be performed by the supplier or by an installer approved by the supplier. Ensure that the power supply is completely disconnected during servicing, either by setting the mains switch to the **O OFF** position (see the "**Mains switch**" section) or by removing the plug from the socket.

 	<ul style="list-style-type: none"> <li>▶ The user may be placed in danger by incorrect use of the product or by repairs performed by unauthorised personnel.</li> <li>▶ Only use original spare parts.</li> <li>▶ Ottobock   Jos America accepts no liability whatsoever in case of improper use or if non-original spare parts are employed.</li> <li>▶ Before opening, remove the plug from the socket.</li> </ul>
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# 11. Failures and maintenance



## 11.1 Failures

The most common malfunctions are mechanical failures which are generally easy to fix.

Malfunction	Possible cause	Possible solution
The machine is vibrating	- Caused by the machine's natural frequency	- Change the rotation speed until the vibration ceases (see the " <b>Operating elements</b> " section)
The motor is not running	- The emergency stop has been activated  - There is no power supply present - There was a power failure.	- Pull the emergency stop out (see the " <b>Operating elements</b> " section)  - Check the machine's plug - Reset the frequency controller by removing the plug from the socket, waiting at least 5 seconds, then re-inserting the plug.
Machine is in operation but there is no suction	- External/central suction system is not in operation	- Check the external/central suction system

If the possible solutions set out above do not resolve the problem, please contact your supplier. Ensure that you have the following information to hand: serial number, year of manufacture and model (this information can be found on the nameplate, see the "**Scope of the document**" section).

## ***11.2 Maintenance***

 	<ul style="list-style-type: none"><li>▶ The user may be placed in danger by incorrect use of the product or by repairs performed by unauthorised personnel.</li><li>▶ Only use original spare parts.</li><li>▶ Ottobock   Jos America accepts no liability whatsoever in case of improper use or if non-original spare parts are employed.</li><li>▶ Before opening, remove the plug from the socket.</li></ul>
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The socket router Pro-Fit 2000 Vario requires no periodic maintenance.








It is important however to keep the product clean. Ensure it is left free of dust and chips each time it has been used. When being operated intensively it should be cleaned more often.

## 12. Pictograms used








In the following subsections you will see the symbols and pictograms that may be used in this document, together with their meaning.

### 12.1 Warning symbols









	Warning of general danger
	Warning of suspended loads
	Risk of tipping
	Hazardous voltage warning
	Warning of rotating parts
	Warning for splinters
	Noise warning

	Toxic materials warning
	Irritating substances warning
	Risk of crushing lower limbs (such as feet)
	Risk of tripping
	Slip hazard warning
	Risk of crushing upper limbs (such as hands)
	Risk of cutting upper limbs (such as hands)




## 12.2 Mandatory symbols

	<p>General mandatory symbols</p>
	<p>You must read the manual carefully</p>
	<p>Work only with two people or in the presence of a second person</p>
	<p>Hair covering required</p>
	<p>Hearing protection required</p>
	<p>Eye and hearing protection required</p>
	<p>Eye protection required</p>


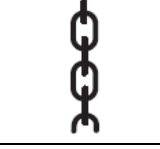
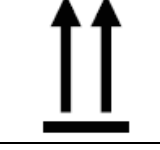




	Wear eye and mouth protection
	Light respiratory protection required
	Safety clothing required
	Safety gloves
	Safety shoes required
	Remove plug from socket before opening
	Switch before use
	Padlock required

### 12.3 Prohibition symbols

	Never walk or stand under suspended loads.
	Gloves prohibited
	Suction of sources of ignition prohibited

### 12.4 Pictograms for transport and storage

	Place in front of the forks of the forklift/pallet truck
	Lifting point
	This side up for transport and storage
	Protect from contamination
	Note the centre of gravity



***Manufacturer and supplier:***  
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*Industriepark "het Hoog"*  
*Mandenmaker 14*  
*5253RC Nieuwkuijk*  
*The Netherlands*  
*[www.ottobock-josamerica.com](http://www.ottobock-josamerica.com)*

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