



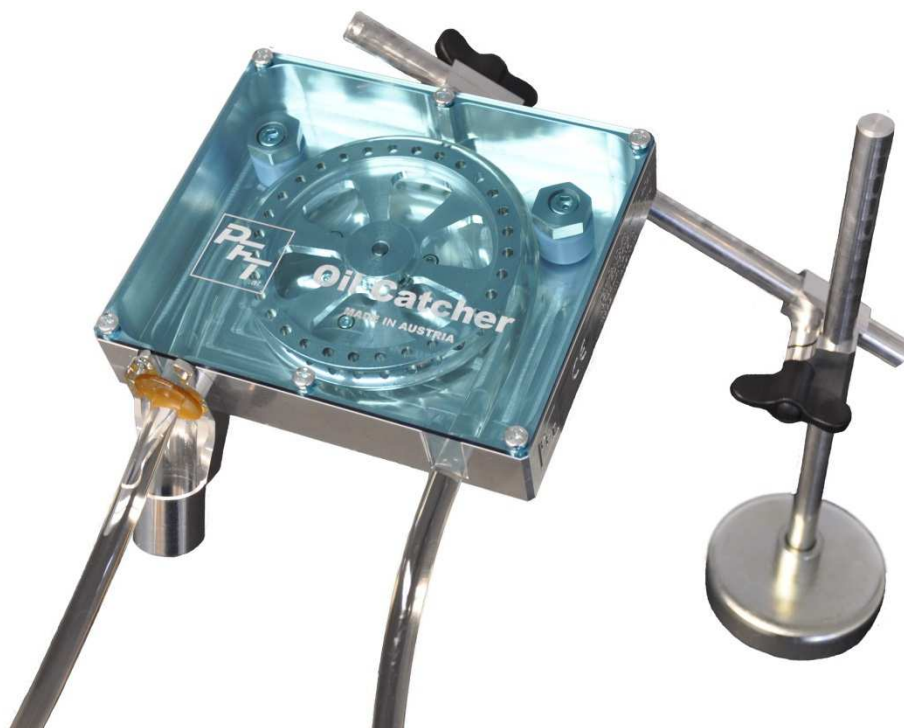
Präzisions
Fertigungs
Technik GmbH



Oil Catcher

MADE IN AUSTRIA

Instruction Manual



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PFT PräzisionsFertigungsTechnik GmbH

5202 Neumarkt am Wallersee
Bahnhofstraße 13a
Austria



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EC Declaration of Conformity

according to Machinery Directive 2006/42/EC dated May 17, 2006 annex II A

We hereby declare that, with regard to the design and layout as well as the type put on the market by us, the machine described below is in compliance with the fundamental safety and health requirements of the EC directive 2006/42/EC. This declaration becomes void if the machine is altered without our consent.

Manufacturer: PFT PräzisionsFertigungsTechnik GmbH
5202 Neumarkt am Wallersee
Bahnhofstraße 13a
Austria

Description and identification of the machine:

- Operation: Removal of oil/soiling floating on cooling lubricants
- Type/Model : OC03
- Serial number: xxxx
- Year of construction: 201x

The machine complies with the following standards/directives:

EC directive/provision:

Machinery directive 2006/42/EC
Low-voltage directive 2006/95/EC

Applied harmonised standards, in particular:

EN-ISO 12100-1; EN-ISO 12100-2

Other applied technical standards and specifications:

None

Person authorised for the technical documentation:

Hermann Graef
Managing director

Place/Date:

Neumarkt am Wallersee, January 1, 2015

Personal identification of the authorised signatory:

Hermann Graef, managing director

Signature:





1 Safety Information

1.1 Description of Warnings Used

Please observe the meaning of the following symbols and warnings contained in this document. Pursuant to ISO 3864-2, the warnings are classified according to different risk potentials.

DANGER



Describes a directly life-threatening situation. Failure to comply with this instruction could result in severe injuries to or the death of a person.

WARNING



Describes a potentially life-threatening situation. Failure to comply with this instruction could result in severe injuries to or the death of a person.

NOTE



Describes a possibly dangerous situation. Failure to comply with this instruction could result in minor or moderate injuries to a person.

INFORMATION



Describes general or useful information on the efficient operation of the system that does not affect the safety and health of the operating personnel.

1.2 General Information

The instruction manual must always be available and kept in an easily accessible location near the machine.



1.3 Intended Use

The Oil Catcher must only be used to remove floating oil and soiling from cooling lubricants used for cutting metal working machines.

DANGER



The device must only be used with the protective cover closed.

DANGER



In case of a failure in the power supply, it is imperative to disconnect the mains adapter from the power supply.
The device may be reconnected to the power supply only after successful re-establishment of the power supply and inspection of the working area.

NOTE



Operation of the Oil Catcher without proper collection container is not permitted for reasons of environmental protection.

1.4 Use Contrary to the Intended Purpose

The removal of substances from any media which are not included in the scope of the intended use is considered use contrary to the intended purpose.

This also applies to any operation beyond the defined operating limits and/or with unauthorised modifications made to the structure.



2 Description

The PFT Oil Catcher has been developed for the removal of floating oil and soiling from cooling lubricants. Thanks to its low weight (only 1.1 kg / 1.8 kg with magnetic support) and compact design, the Oil Catcher can easily be mounted to inaccessible areas with small tank openings.

2.1 Specifications & Operating Limits

Description		Unit	
Dimensions	Depth	[mm]	136
	Width	[mm]	158
	Height	[mm]	28
Weight			
- Oil Catcher (without accessories)		[kg]	1.1
- Oil Catcher (with mains adapter and support)		[kg]	1.8
Capacity		[l/h]	3-5
Oil Catcher			
- Operating voltage		[V]	12 DC
- Current consumption		[A]	1A
Mains adapter			
- Operating voltage		[V]	230V AC 50-60Hz
- Current consumption		[A]	0.05A
Ambient temperature			
- Operation		[°C]	5 to 40
- Storage		[°C]	-20 to 60
- Transport		[°C]	-20 to 60

2.1.1 Connections

- 12V DC socket for barrel jack
- Conveyor hose insertion
- Conveyor hose outlet with collection hose support

3 Parts Overview

3.1 General View

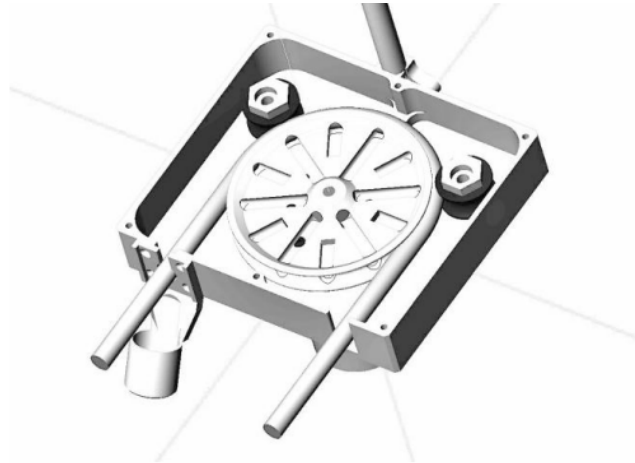


Figure1: General view

3.2 Detailed View

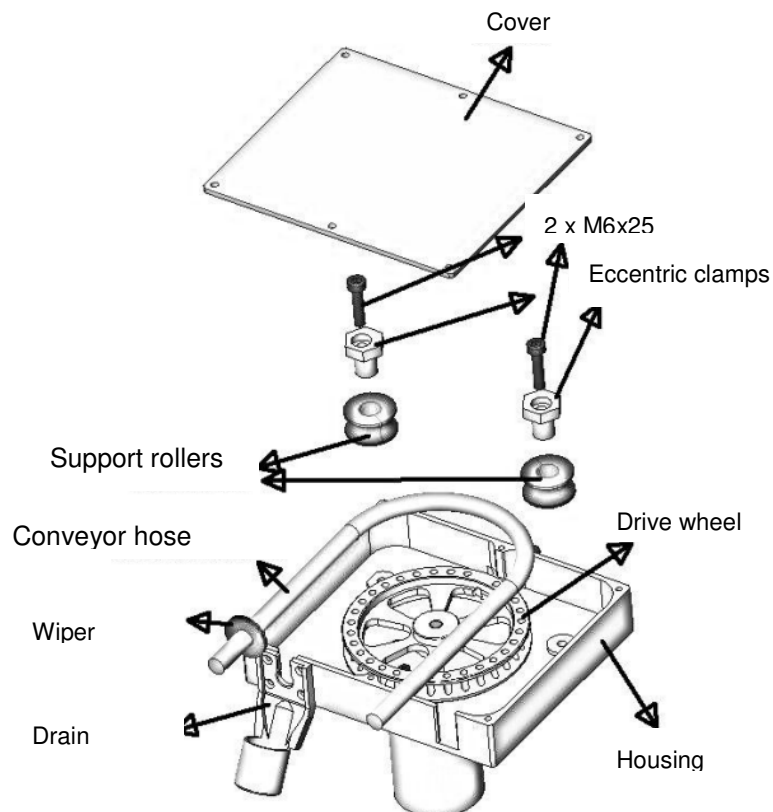








Figure2: Detailed view





4 Operation

4.1 Commissioning

 DANGER	
	<p>Make sure that the provided mains adapter is placed outside the working area. Under no circumstances must the mains adapter be operated above or near the media container and/or near electrically conductive media.</p> <p>Failure to comply with this instruction may cause an electric shock and result in severe injuries to or the death of a person.</p>

 DANGER	
	<p>Magnet</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <ul style="list-style-type: none"> • Risk of crush injuries • Risk of injuries caused by splinters • Hazard due to magnetic fields • Cardiac pacemaker- magnetic data media (credit cards, memory cards etc.) • Electronic devices (mobile phones, computers, screens etc.) • Fire hazard • Health hazards in case of contact with food and drinking water

 NOTE	
	<p>The outlet hose and magnetic support must be mounted before commissioning.</p> <p>Do not operate the mains adapter below 12 volts. Otherwise, the motor might get damaged.</p>

1. Mount the Oil Catcher in such a way that approx. half of the conveyor hose is immersed in the medium and the outlet hose is directed slightly downward.
2. The position must be fixed to the magnetic support by means of the clamping screws.
3. Place a suitable collection container below the outlet hose.



4. Set the timer and plug it between the 230V connection of the mains adapter and the 230V mains socket.
5. Set the speed by means of the voltage selection on the mains adapter (not below 6 volts)
 - select high speed in case of heavy soiling
 - select low speed in case of minor soiling.
6. Properly dispose of the oil discharged into the collection container. The oil must not be discharged into the sewage system.
7. **The Oil Catcher is not intended for continuous operation. The medium must not circulate to allow the tramp oil to settle on the surface. The provided timer allows the Oil Catcher to be operated for one to two hours in the standing medium.**

INFORMATION



The Oil Catcher conveys more oil in two to three hours from a basin with standing medium than from a circulating medium on one whole day. If the medium is not resting, it is mainly the mixed medium that is conveyed and not the tramp oil.

NOTE



When inserting the conveyor hose, make sure that the hose can freely move in the media basin and that it is installed far enough away from the conveyor pumps to keep the hose from getting caught in the suction of the pumps.

NOTE



Operation of the Oil Catcher without proper collection container is not permitted for reasons of environmental protection.

DANGER



Before establishing the voltage supply, make sure that the mains adapter, Oil Catcher and connecting cables are in proper and clean condition. It is not permitted to operate the Oil Catcher in heavily soiled condition and/or with defective components.



5 Maintenance / Troubleshooting

5.1 Cleaning

The device including all accessories must be cleaned when heavily soiled.

INFORMATION



Do not use aggressive cleaning agents to clean the Oil Catcher.

5.2 Replacing the Conveyor Hose

1. Disconnect the device from the mains!
2. Remove the housing cover (loosen the 6 M4 screws)
3. Remove the eccentric supports with the support rollers (loosen and remove the 2 M6 screws)
4. Remove the old conveyor hose
5. Insert the new conveyor hose and make sure that the wipers lie flat against the outside of the drain.
6. Insert the hose near the drive wheel
7. Re-assemble the eccentric support rollers; use the eccentric to push the support rollers against the hose and fix them.
8. Reassemble the cover.
9. Carry out a short test run!

5.3 Troubleshooting

5.3.1 Poor Conveyor Performance

Possible cause: Conveyor hose slips

Remedy:

1. Remove the cover from the housing
2. Loosen the eccentric screws
3. Adjust the two support rollers with the eccentric screws tighter against the conveyor hose and refasten them.



5.3.2 Drive Wheel Does Not Turn

Possible cause: Excessive contact pressure of the support rollers

Remedy:

1. Loosen the eccentric screws
2. Check if the support rollers are running smoothly
3. Lubricate the inner diameter of the support rollers with a little oil
4. Refasten the support rollers with a little less contact pressure.

Possible cause: Mains voltage too low

Remedy:

1. Check the mains voltage
2. Set a higher voltage on the mains adapter, e.g. 12V
3. Timer defective (try to operate the Oil Catcher without timer)
4. If no remedy is possible, send the device to the manufacturer for repair.

5.3.3 Defective Mains Adapter



If the mains adapter is defective, send the device to the manufacturer or have it replaced by trained qualified personnel.

 DANGER	
	It is not permitted to operate the Oil Catcher with an unsuitable mains adapter.

5.3.4 Required Inspection

According to [4], movable class I electric equipment (electrical devices / devices with protective conductor) must be checked regularly as far as operated at work places where sockets might be used that are **not** additionally protected (residual current circuit breaker with a maximum nominal residual current of 0.03 A). This residual current circuit breaker must be an integral part of the system. RCD adapters which are connected to the socket are not permitted as substitute for additional protection!

According to [5], the maximum inspection period for movable devices with plug is **1 year**.

 NOTE	
	<p>The Oil Catcher and mains adapter must be checked for proper condition at least once per year.</p> <p>The inspection must be carried out by a qualified electrician or, if proper measuring and testing devices are used, also by a person instructed in the area of electronics.</p>



Quick Guide

- The Oil Catcher shall be put into operation in **resting coolant** for **one to three hours**.
- If the coolant is circulating (with the machine running), the oil cannot settle on the surface of the coolant and thus not be separated from the coolant.
- Position the Oil Catcher in such a way that approx. half of the **conveyor hose** is immersed in the coolant basin and the **outlet hose** is directed slightly downward.
- Fix this position **to the magnetic support** using the **clamping screws**.
- Place a suitable **collection container below the outlet hose**.
- Connect the **provided timer** to the socket, set the time and **operating hours** of the Oil Catcher (during which the coolant does not circulate and the oil can settle).
- Now plug the **mains adapter of the Oil Catcher** into the timer
- Properly dispose of the oil from the collection container.