



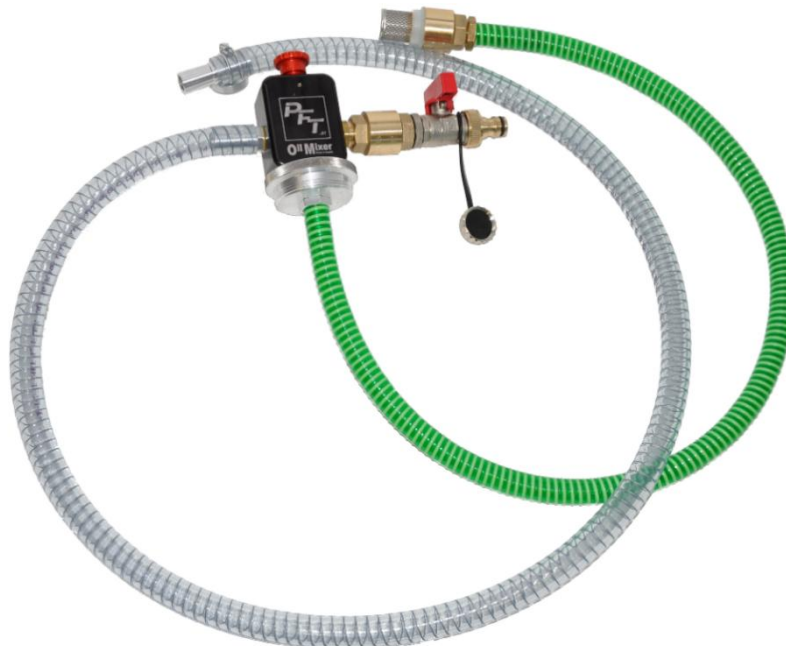
Präzisions
Fertigungs
Technik GmbH



Oil Mixer

MADE IN AUSTRIA

Instruction Manual



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PFT PräzisionsFertigungsTechnik GmbH

5202 Neumarkt am Wallersee
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Declaration of Conformity

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

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

Description and identification of the device:

- Operation: Mixes coolant concentrate to a water/oil emulsion
- Type/Model: OM01
- Serial number: xxxx
- Year of construction: 201x

Person authorised for the technical documentation:

Hermann Graef
Managing director

Place/Date:

Neumarkt am Wallersee, February 3, 2015







1 Safety Information



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

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

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

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



1.2 General Information



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







1.3 Intended Use

The OilMixer must only be used to blend coolant concentrate with water used for cutting metal working machines.

 DANGER	
	<p>In order to eliminate environmental damage, the connection to the drinking water line must always be via a backflow preventer.</p> <p>There must be used a backflow preventer type BA for liquid Categories 1, 2, 3 and 4 of DIN EN 1717 and ÖNORM EN 1717.</p> <p style="text-align: center;">The backflow preventer is NOT included in the delivery!</p>

 DANGER	
	<p>Do not open the water supply until it is ensured that the outlet hose is fixed to the coolant tank or another suitable vessel. Leaking coolant emulsion must not escape into the environment.</p> <p>Avoid skin contact with coolant emulsion. DO NOT drink!</p>

 DANGER	
	<p>Neodymium magnet on the outlet hose</p> <div style="display: flex; justify-content: center; align-items: center; gap: 20px;">   </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



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

After preparation of the coolant emulsion, the water supply must be disconnected from the OilMixer.

The water supply must only be connected to the OilMixer during operation; the water supply must be disconnected after operation!

1.4 Use Contrary to the Intended Purpose

The mixing of 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 Safety Information

2.1 Technical Data & Operating Limits

Description		Unit	
Dimensions	Length	[mm]	240
	Width	[mm]	70
	Height	[mm]	150
Weight - OilMixer (without hoses)		[kg]	1.1
Required water pressure		bar	4-6
Required supply line profile		inch	1/2"
Capacity (emulsion preparation)		[l/h]	600l/h
Ambient temperature			
- Operation		[°C]	5 to 40
- Storage		[°C]	-20 to 60
- Transport		[°C]	-20 to 60

2.1.1 Connections

- 3/4" water connection (Gardena quick-connect fitting)
- IØ13 suction hose
- IØ16 outlet hose

3 Parts Overview

3.1 Overall View



Figure1: Overall view

3.2 Detailed View

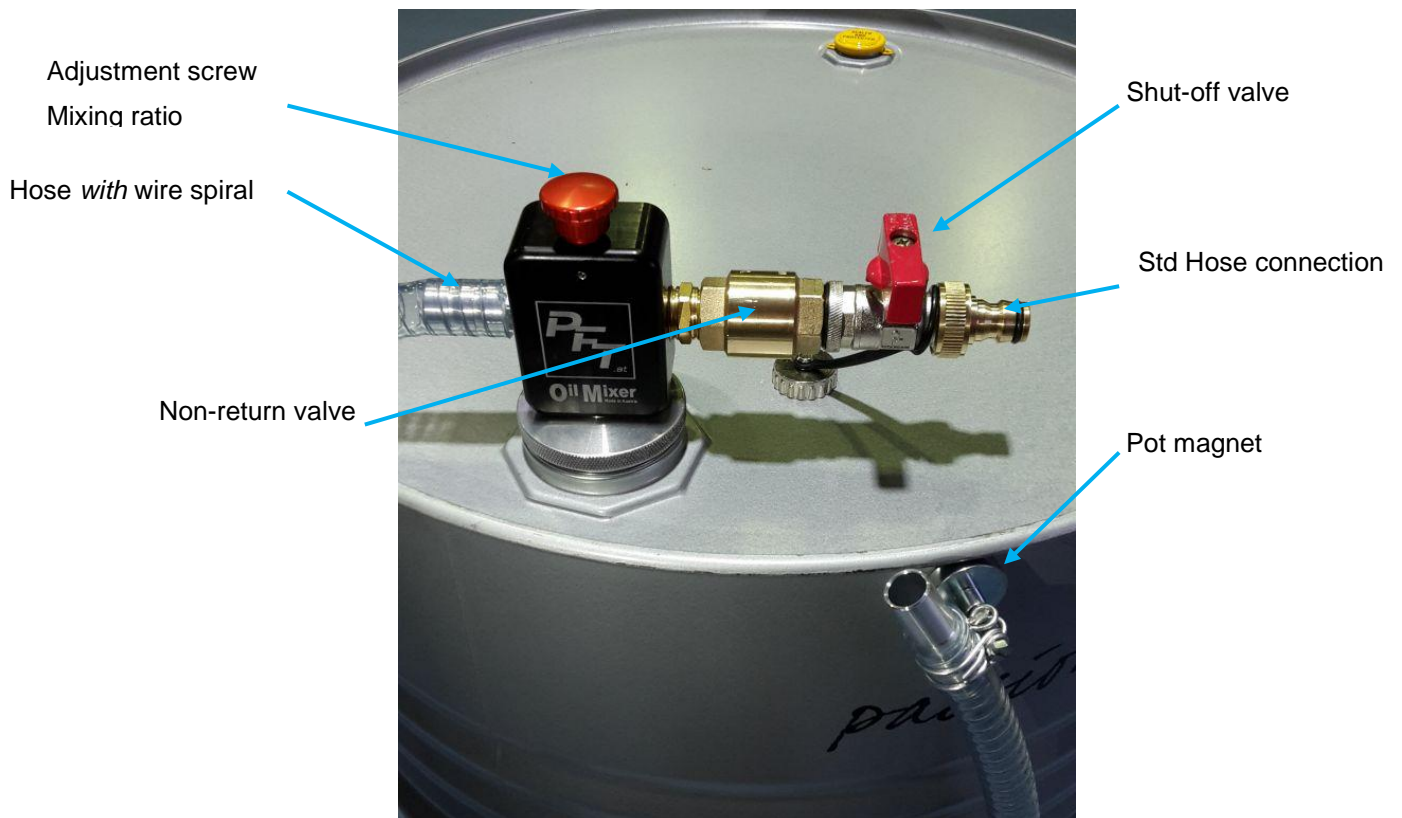


Figure2: Detailed view



4 Operation

4.1 Commissioning

NOTE



Before connecting the water supply, the ball valve must be connected to the OilMixer. (Handle at right angles to the line)

1. Open the 2" screw connection of the coolant barrel.
2. Insert the suction hose (suction line) into the barrel and screw the OilMixer in place.
3. Make sure that the ball valve on the water supply is closed (handle at right angles to the line) and that the water connection is firmly screwed.
4. Connect the water supply.
5. Insert the water outlet hose into the machine tool and fix it to a magnetic part using the mounted magnet (if there are no magnetic parts available, secure the hose against falling out).
6. Unscrew the adjustment screw approx. $\frac{3}{4}$ to the left.
The adjustment screw must only be moved with little effort. Stop unscrewing if you feel a dead stop. Otherwise, the adjustment nozzle gets damaged. Exact dosing or tightness can no longer be guaranteed.
7. Open the ball valve for the water supply. After a short time, check the concentrate percentage with a refractometer, then set the desired concentration using the adjustment screw.
8. After having filled the machine tool with the ball valve, stop the water supply and empty the outlet hose.
9. Disconnect the water supply from the OilMixer.
10. Properly dispose of the discharged coolant emulsion. The emulsion must not be discharged into the sewage system.



4.2 Cleaning

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

INFORMATION



Do not use aggressive cleaning agents to clean the OilMixer.

SAFETY NOTICE:

The water supply of the Oil Mixer must be connected via a backflow preventer type BA (DIN EN1717 and ÖNORM EN1717 - liquid Category 1, 2, 3, 4).