

**Coolant Lubricants – Industrial Fluids  
Filtration, Disposal, Cooling and Preparation with Turbo Centrifuges  
and Filter Systems without filter media**

**Technical Data**

**Standard-Centrifuge T22**

Rotor	Motor	Controls	Standard Equipment
- Capacity : total 22 dm <sup>3</sup> Sludge 10 kg - Processing capacity : 1 – 120 l/min (140l/min) - Acceleration : min.-max. 900 – 1320 g	- Performance : 1.5 kW - Rated speed : 50Hz = 1700 LPM 60Hz = 2100 LPM	- PLC controls with thermal protection - Indicator lamps for operation and faults - Controls transformer - upon request display	- Cover security of lockup - 2 sludge baskets - Operators and Maintenance Instructions

Model Designation	T22	K700/T22	K1200/T22
Configuration :	free standing	complete filter system only 75 mm	complete filter system only 75 mm
Inflow height min. :	1000 mm	700 liter	1100 liter
Clean fluid tank :	-	80-100 l/min.	100-140 l/min.
Pump, rated capacity :	-	G 5/4"	G 5/4"
Connection :	G 5/4"	1600x1200x2150	2000x1200x2150
Dimensions :	630x630x980	320 kg	350 kg
Weight approx. :	270 kg		
Options :	With re-cooling unit, magnetic-prefilter, variable frequency controlled supply pump etc.		

**Your Cleaning Plant ?**

- for example, for the separation of fine chips from the lathe processing machine in the secondary flow circuit
- with high- and low-pressure pump for internal cooled tools
- with immersion re-cooling unit
- with separating unit Turbo Ölex float for the separation of tramp oil from the emulsion



**Turbo Prepares Projects and Produces**

- Centrifuges with manual sludge removal for cleaning rates of up to 150 l/min.
- Centrifuges with fully automatic sludge removal for cleaning rates of up to 350 l/min.
- Central filtration systems for extensive a complex filtration tasks up to 1500 l/min.

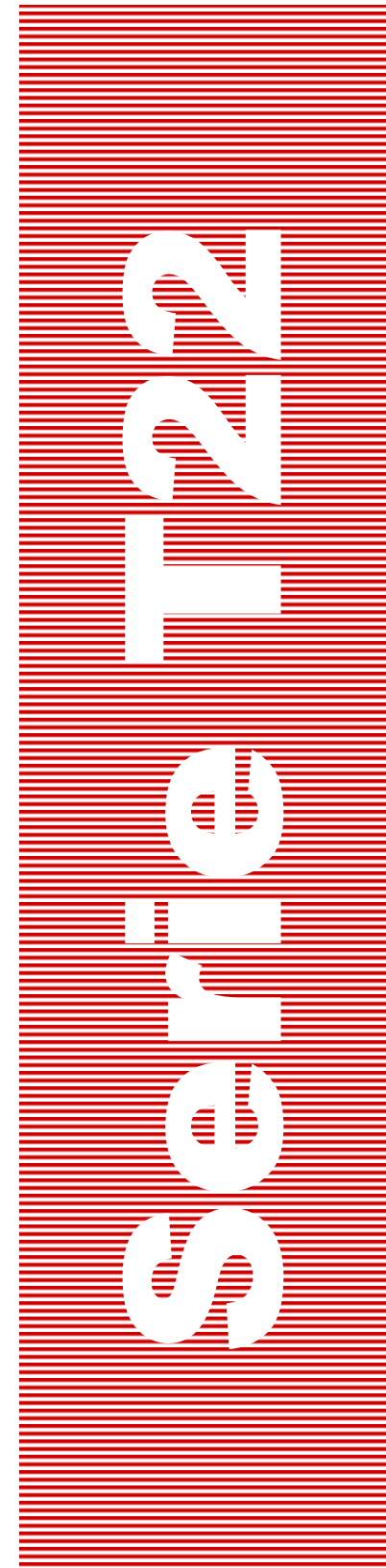


**Turbo-Separator**

**Turbo-Separator AG**  
**CH-9620 Lichtensteig**  
**Tel. + 41 (0) 71 987 70 20**  
**Fax + 41 (0) 71 987 70 29**  
**Mail : info@turbo-separator.ch**  
**Home : www.turbo-separator.ch**



# Turbo-Separator



**Continuous Cleaning of Cooling  
Lubricants and other Industrial  
Fluids without filter media with  
the Turbo Model T22**

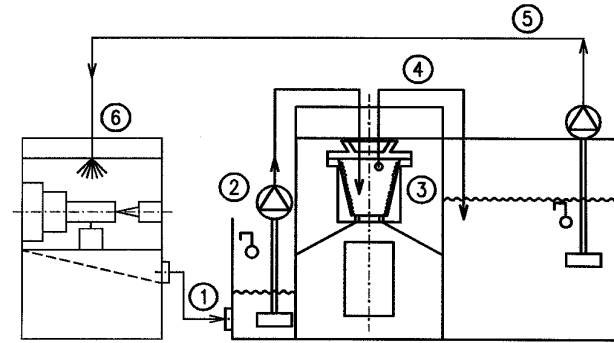


# Turbo-Centrifuge MZF-T22

## The Solution for the Filtration of a Variety of Fluids

### Function

- 1) Gravitational flow of the soiled fluid into the collecting tank.
- 2) Feeding of the soiled fluid to the rotor with a pump.
- 3) Separation of the foreign particles from the fluid, whereby the particles settle on the wall of the sludge basket.
- 4) The cleaning fluid is removed from the rotor with a scoop and directed to the coolant tank.
- 5) From the coolant tank, the correct quantity is pumped under the desired pressure to the machine tool 6).



The Turbo centrifuge T22 is especially suited for the filtration fluid volumes from 100 - 140 l/min).

A wide range of particles, for example, all types of metal (both magnetic and non-magnetic), glass, ceramics, hard metals, graphite etc. can be filtered from a variety of fluids such as emulsion, oil, petroleum, solvents, water etc.

The high-speed aluminium rotor guarantees a high filtration quality. The robust plastic sludge basket facilitate simple operation. The massive reinforced mounting of the motor permits the application of the T22 Turbo centrifuge even under the most adverse ambient conditions.

The most stringent safety regulations are fulfilled with the reversed current brake and the electrical cover securing mechanism, which prevents the centrifuge from being activated when the cover is open.

The PLC controls, with all the respective indicator lamps and switches, are part of the standard equipment.

### Your advantage

- No costs for filter aids such as non-woven fabrics
- Minimal disposal costs, due to the sludge cake being solid and dried without the additional burden of filter materials
- optimal machining results due to the high level of purity of the cooling fluid
- personnel satisfaction through simple operation
- short-term amortization
- filtration system of the future

### Operation

The separated sludge can be simply and quickly removed from the centrifuge. Switch off the centrifuge, open the housing (disengage the lock catches).



Remove rotor cover.

Remove the sludge-filled basket.



Install the clean sludge basket.

Re-install rotor cover and close housing cover, secure the lock catches and switch on centrifuge.



### Separating Sulphur

- Separating sulphur from emulsion
- unit with two centrifuges, dirty coolant tank, two feed pumps attached to existing tank system



### Cleaning Oil from Chip Wringer

- Separating Brass, Steel and Aluminium particles from oil or water based coolant

### Additional Applications

#### Oil Cleaning :

- Separating various materials (Steel, Glass)
- Capacity depending o requested filter quality 5 – 50 LPM
- Integrated fine cleaning cycle for an improved overall filter quality

#### Recycling vibratory process liquid

- Separating workpiece particles and abrasive particles
- Compound is not separated (Compound automatically added)
- 200 – 300 litres per hour continuously or batch wise

### Grinding Oil Treatment

- Separating steel and carbide from grinding oil
- Supplying two machines with 70 LPM at 5.7 bar each
- Clean tank 1200 Liter
- With recooling unit 10,6 kW to remove the generated heat



### Recycling Grinding Water

- Separating Silicon particles from cut-off grinders for solar energy systems
- Capacity 40-60 LPM

