



# **Turbo-Separator**

**Centrifugal Cleaning of Coolants,  
Oils and other Industrial  
Fluids without the use of filter media**

**Turbo-Separator T5/T6 Series**

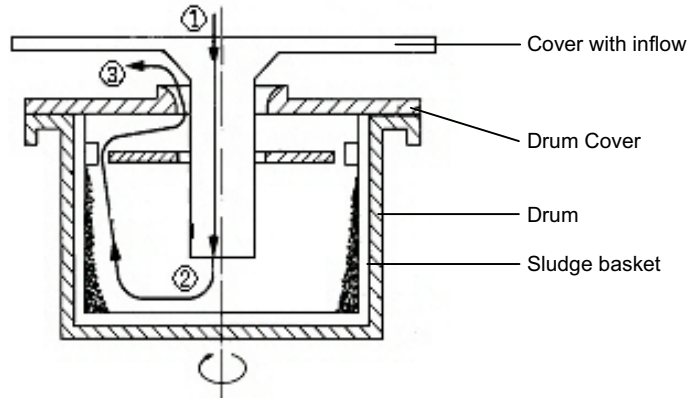


# Turbo-Separator Centrifuge T5 & T6

## 13 GPM, 0.8 Gallon Sludge Capacity, Removable Liner, 3,000 RPM

### Typical Continuous Flow Process

- 1) Gravitational flow of the dirty fluid into the rotor
- 2) Separation of the solids from the fluid, where the particles settle on the wall of the sludge basket
- 3) For the T5 Model: Cleaned liquid overflows the drum lid and is directed to a tank  
or  
For the T6 Model: Cleaned fluid is removed from the rotor with a scoop and directed to a tank



The Turbo-Separator Model T5/T6 is designed to remove up to 0.8 gallons of sludge before the liner needs to be serviced. Capable of processing water based fluids at flow rates up to 13 gpm and oils at flow rates up to 8 gpm, the 3,000 rpm rotor will remove fine solids down to 2-5 micron.

A wide range of solid particulate - all types of metal (both magnetic and non-magnetic), glass, ceramics, hard metals, graphite and plastics can be filtered from a variety of fluids such as emulsions, oils, solvents, water, etc.

The high-speed aluminium rotor guarantees filtration quality. The heavy duty plastic sludge basket facilitates simple operation.

Operator Safety is paramount and designed into every Turbo-Separator. The T5 has a cover lock/brake switch and the T6 has a mechanical cover lock. The cover lock as well as other controls prevents the centrifuge from being opened when the rotor is spinning or activated when the cover is opened.

The electrical controls with all the respective indicator lamps and switches are standard equipment.

## BENEFITS

- Compact design saves floor space
- No additional costs for filter media
- Minimal disposal costs due to the sludge cake being solid and dried
- Optimal machining results from clean coolant/oil
- Personnel satisfaction through simple operation
- No obsolescence – centrifugal filtration that is flexible enough for future applications

## Bowl Cleaning Operation

The separated sludge can be simply and quickly removed from the centrifuge. Switch off the centrifuge, remove (T5) or raise (T6) the housing cover.

Release the lock catches on the rotor and remove the rotor cover.



Replace the filled sludge basket with a cleaned empty basket. Pour the remaining waste liquid from the soiled liner into the newly installed empty liner.

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



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**Standard T5b for Cleaning Coolants or Oils**

- Gravity feed from the machine tool
- Gravity Return to a sump



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**Treatment of Glass Grinding Coolant**

- Separating grinding abrasives from the coolant
- Gravity discharge into the rotor
- 25 gallon clean tank with supply pump returning fluid
- Supplying two machines

▶  
**Treatment of coolant and oil**

- Separating steel, brass, aluminum particles from machine tools



▲  
**Standard T6b for pressurized inlet**

- Centrate Scoop to reduce foaming
- Gravity discharge to clean tank

▼  
**Recycling Vibratory Compound**

- Separating steel, aluminum, brass and ceramic particles from vibratory compound
- Complete system includes proportional mixer



**Other Applications:**

- Cleaning fines from coolant or oil after chip processing
- Removing solids and reducing the viscosity of oil during cold forming applications
- Removing sludge in wastewaters

# Coolants, Oils, Industrial Fluids Filtration with Turbo-Separator Centrifuges and Filter Systems

## Technical Data

### Standard-Centrifuge T5/T6

Rotor	Motor	Controls	Standard Equipment
- Rotor Capacity: 1.4 gals Sludge Capacity: 7 pounds - Processing capacity 1 – 13 GPM (8 GPM oil) - Acceleration : min.-max. 1300 – 1600 g	- 1.0 HP - Rated speed: 3400 rpm	- Contactor controls (T5) - PLC controls (T6) - Indicator lamps for operation and faults - Controls transformer	- Cover Lock - 2 sludge baskets - Manuals

Model Designation	T5b/T6b	T5/T6-2-25	T5/T6-2-50
Configuration :	free standing	complete filter system	complete filter system
Inflow height min (in):	T5 – 21.0 T6 – 23.5	T5 – 22.5 T6 – 24.5	T5 – 24.0 T6 – 25.5
Clean fluid tank (gals):	None	25	50
Pump, capacity (gpm):		8 – 13	8 - 13
Connection (in):	1 in hose	1.25 in	1.25 in
Dimensions (in) (LxWxH):	25 x 18 x 19	28 x 27 x 27	39 x 33 x 28
Weight dry approx (lbs):	165	240	265
Options :	Castors, Chiller, lifting pumps, various supply pump etc.		

### Turbo-Separators – The Right Choice

- Centrifuges with manual sludge removal for processing rates of up to 40 gpm
- Fully automatic Centrifuges to process up to 150 gallons of sludge per day
- Central filtration systems for extensive and complex filtration tasks

From the free-standing T6b to an integrated T14-2-217 with tanks, chiller and supply pump we have a design to meet your needs.

