



Turbo-Separator

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

Turbo-Separator T22 Series



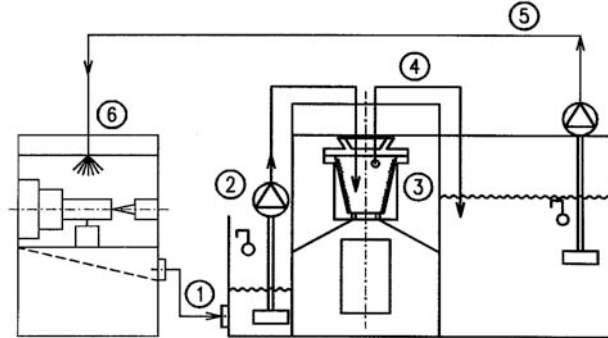
T22

Turbo-Centrifuge T22

40 GPM, Large Solids Capacity, Removable Liner, 2,200 RPM

Typical Continuous Flow Process

- 1) Gravitational flow of the dirty fluid into the dirty collection tank
- 2) Feed pump lifts the dirty fluid up to the centrifuge rotor
- 3) Separation of the solids from the fluid, where the particles settle on the wall of the sludge basket
- 4) The cleaned fluid is removed from the rotor with a scoop and directed to the clean coolant tank
- 5) Pump returns the cleaned coolant from the coolant tank to the machine tool (6).



Easy to Clean Centrifuge Bowl Liner

The T22 centrifuge is designed to remove a large volume of sludge before the liner has to be serviced. Capable of processing liquids at flow rates up to 40 gpm, the 2,200 rpm rotor will remove fine solids down to 5-10 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 large diameter aluminum rotor and high speed rotation guarantees filtration quality. The heavy-duty plastic sludge basket facilitates simple operation.

Operator Safety is paramount and designed into every Turbo-Separator. A 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.

The separated sludge can be quickly and easily removed from the T22 rotor.



1. The Centrifuge is switched off; the hinged cover is opened



2. Rotor cover Locks are disengaged



3. The Rotor cover is removed



4. The filled sludge basket is removed with solids



5. A cleaned sludge basket is reinstalled.



6. The rotor cover is reinstalled and locked in place, housing cover lowered, and centrifuge switched on.

Benefits

- No costs for filter medias 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
- No Obsolescence – centrifugal filtration that is flexible enough for future applications



Glass Grinding

- Removal of Glass Particulate from coolant
- Double unit design to process up to 80 gpm
- Options can include units mounted on a base for secondary containment, chillers, tanks



Oil Reclamation and Purification after Chip Processing

Separation of the Brass, Steel or Aluminum solids from oil or water based coolant
Options can include magnetic prefiltration, chiller, tanks and pumps

Purification of Grinding Oil

- Removal of Steel, HSS and carbide from grinding oil
- Process capacity for 2 machine tools each processing at 20 gpm
- 300 gallon Clean Tank with 34,000 BTU/Hr Immersion Chiller



Recycling of Vibratory Compound

- Removal of ceramic media solids from Vibratory Compound
- Complete systems available with tanks, automatic proportional mixers, pumps
- Flow rates from 5 – 20 gpm



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

Technical Data

Standard-Centrifuge T22

Rotor	Motor	Controls	Standard Equipment
- Rotor Capacity: 5.8 gals Sludge Capacity: 26 pounds Processing capacity: 1 – 40 GPM - Acceleration : min.- max. 900 – 1320 g	- 3.0 HP : - Rated speed: 2100 rpm	- PLC controls with thermal protection - Indicator lamps for operation and faults - Controls transformer	- Cover Lock - 2 sludge baskets - Manuals

Model Designation	T22	T22-2-52	T22-2-217	T22-2-322
Configuration :	free standing	complete filter system	complete filter system	complete filter system
Inflow height min (in):	39	13.00	3.00	3.00
Clean fluid tank (gals):	None	33	185	290
Pump, capacity (gpm):	None	5 – 21	21 - 26	26 – 50
Connection (in):	1.25 in	1.25 in	1.25 in	1.25 in
Dimensions (in) (LxWxH):	25x25x38	55x38x60	62x47x85	78x47x85
Weight dry approx (lbs):	595	670	755	770
Options :	Immersion Chillers, magnetic-prefilters, variable frequency controlled 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 T22 to an integrated T22-2-217 with tanks, chiller and supply pump we have a design to meet your needs.

