



# USP ASSOCIATES

*Redefining Lubrication*

Total Lube & Fluid Management Services

## INDUSTRIAL OIL FILTRATION SOLUTIONS

### USED ON

- Compressor Oil
- Cutting Oil
- EDM Oil
- Fuel Oil (HSD, LDO, FO, CBFS Etc.)
- Honing Oil
- Hydraulic Oil
- Lubricating Oil
- Machine Tool Applications Oil
- Nut Bolt Forming Machine Oil
- Quenching Oil
- Spindle Oil
- Transformer Oil Wire Drawing Oil (Aluminum, Copper etc.)
- F.R.H.O
- Wire Drawing Oil

### FEATURES

- 100% consumable free
- High sludge holding
- Purifies upto sub micron
- Very fast filtration (upto 5000 lph)
- Applicable on all oils
- Cleaning oil constant efficiency
- 10 years trouble free life
- Very easy to install
- Cleans metallic, non metallic, dust, rust, carbon, soot, tar varnishes etc.
- Recovers Material from Wire Drawing Oil

### ADVANTAGES

- Reduces maintenance cost
- Improves product quality
- Lowers operating cost
- Improves & extends oil life
- Continuous filtration
- Reduces m/c down time
- Eliminates malfunction
- Reduces oil consumption
- Minimizes production losses
- Removes paper filter

#### PRODUCTS USED / APPROVED BY :-

DGS & D, MINISTRY OF RAILWAY, MINISTRY OF STEEL,  
MINISTRY OF DEFENCE, NTPC, RDSO, CPWD, MES,  
BHEL, HAL, IIT-DELHI, HONDA, LG ETC.



205, Samruddhi Building, Opp SAKAR III, Nr. Income-Tax Circle, Ahmedabad-380014.

Phone: 079-30080035, 31, 32 (M) +91 9727707997, 9824393547 E-mail: [info@usplubes.in](mailto:info@usplubes.in)

[www.usplubes.in](http://www.usplubes.in)




**USP ASSOCIATES**  
*Redefining Lubrication*


**Total Lube & Fluid Management Services**

**100% Consumable free centrifugal cleaning and separation machines (for oil and water)**

## **Centrifugal Oil Cleaning Machines**

| Machine  | Details of Features  |
|--|--|
| <b>COCA MONO GD-20</b><br> | <p><b>Used to remove solid contamination from oil, solvent and water</b></p> <p><b>Processing - UP TO 40 LPM</b><br/><b>Sludge holding - UP TO 20 KG MAX</b></p> <p><b>FEATURES OF MACHINE</b><br/>100% recurring expense free,<br/>No consumables inside,<br/>Free flow delivery (By gravity)</p> <p><b>STANDARD MOUNTINGS</b><br/>1-Centrifuge, 2- Elec. Motors, 1-Gear Pump, 1-Inlet hose (3 meters),<br/>1-Outlet hose (3 meters) and 1-Electrical Control Panel</p> <p><b>POPULARLY USED ON</b><br/>Lubricating, Quenching, Furnace, Honing, Neat Cutting, Nut bolt forming, Wire drawing oil, water solvents and water</p> |


## Centrifugal Oil Cleaning Machines

| Machine  | Details of Features   |
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| <b>COCA MONO GD-10</b><br> | <p><b>Used to remove solid contamination from oil, solvent and water</b></p> <p><b>Processing - UP TO 20 LPM</b><br/> <b>Sludge holding - UP TO 10 KG MAX</b></p> <p><b>FEATURES OF MACHINE</b></p> <p>100% recurring expense free,<br/>         No consumables inside,<br/>         Free flow delivery (By gravity)</p> <p><b>STANDARD MOUNTINGS</b></p> <p>1-Centrifuge, 2- Elec. Motors, 1-Gear Pump, 1-Inlet hose (3 meters), 1-Outlet hose (3 meters) and 1-Electrical Control Panel</p> <p><b>POPULARLY USED ON</b></p> <p>Lubricating Oil, Hot &amp; Cold Quenching, Furnace, Honing, Neat Cutting, Nut bolt forming, Wire drawing oil, water solvents and water</p> |

## Centrifugal Oil Cleaning Machines

| Machine  | Details of Features  |
|--|--|
| <b>COCA DUAL GD-20</b><br><br> | <p><b>Used to remove solid contamination and moisture from oil.</b></p> <p> <b>Processing</b> - UP TO 40 LPM<br/> <b>Sludge holding</b> - UP TO 20 KG MAX<br/> <b>Moisture Holding</b> - UP TO 1 Liter         </p> <p><b>FEATURES OF MACHINE</b><br/>         100% recurring expense free,<br/>         No consumables inside,<br/>         Free flow delivery (By gravity)       </p> <p><b>STANDARD MOUNTINGS</b><br/>         1-Centrifuge, 1-Moisture Separator, 2- Elec. Motors,<br/>         1-Gear Pump, 1-Inlet hose (3 meters), 1-Outlet hose (3 meters) and 1-Electrical Control Panel       </p> <p><b>POPULARLY USED ON</b><br/>         Hydraulic Oil, Diesel, LDO, Lubricating Oils.       </p> |


## Centrifugal Oil Cleaning Machines

| Machine  | Details of Features  |
|--|--|
| <b>COCA DUAL GD-10</b><br> | <p><b>Used to remove solid contamination and moisture from oil.</b></p> <p> <b>Processing</b> - UP TO 20 LPM<br/> <b>Sludge holding</b> - UP TO 10 KG MAX<br/> <b>Moisture Holding</b> - UP TO 0.500 Liter         </p> <p><b>FEATURES OF MACHINE</b><br/>           100% recurring expense free,<br/>           No consumables inside,<br/>           Free flow delivery (By gravity)         </p> <p><b>STANDARD MOUNTINGS</b><br/>           1-Centrifuge, 1-Moisture Separator, 2- Elec. Motors,<br/>           1-Gear Pump, 1-Inlet hose (3 meters), 1-Outlet hose (3 meters) and 1-Electrical Control Panel         </p> <p><b>POPULARLY USED ON</b><br/>           Hydraulic Oil, Diesel, LDO, Lubricating Oils.         </p> |





## Portable Oil Cleaning Systems

| Machine  | Details of Features   |
|--|---|
| <b>POCS 5000 SL-LL</b>   | <b>Used to remove solid contamination and moisture from oil.</b>  |
|  | <p><b>Processing</b> - UP TO 5000 LPH<br/><b>Sludge holding</b> - UP TO 20 KG MAX<br/><b>Moisture Holding</b> - UP TO 1.750 Liter</p> <p><b>FEATURES OF MACHINE</b><br/>100% recurring expense free,<br/>No consumables inside,<br/>Free flow delivery (By gravity)</p> <p><b>STANDARD MOUNTINGS</b><br/>1-Centrifuge, 1-Moisture Separator, 1- Elec. Motors,<br/>1-Gear Pump, 1-Inlet hose (3 meters), 1-Outlet hose (3 meters) and 1-Electrical Control Panel</p> <p><b>POPULARLY USED ON</b><br/>Lubricating Oil, Hot &amp; Cold Quenching, Furnace, Honing,<br/>Neat Cutting, Nut bolt forming, Wire drawing oil etc.</p> |

## Portable Oil Cleaning Systems

| Machine         | Details of Features   |
|-----------------|---|
| POCS 2000 SL-LL | <p>Used to remove solid contamination and moisture from oil.</p> <p> <b>Processing</b> - UP TO 2000 LPH<br/> <b>Sludge holding</b> - UP TO 6 KG MAX<br/> <b>Moisture Holding</b> - UP TO 1 Liter         </p> <p><b>FEATURES OF MACHINE</b><br/>           100% recurring expense free,<br/>           No consumables inside,<br/>           Free flow delivery (By gravity)         </p> <p><b>STANDARD MOUNTINGS</b><br/>           1-Centrifuge, 1-Moisture Separator, 1- Elec. Motors,<br/>           1-Gear Pump, 1-Inlet hose (3 meters), 1-Outlet hose (3 meters) and 1-Electrical Control Panel         </p> <p><b>POPULARLY USED ON</b><br/>           Lubricating Oil, Hot &amp; Cold Quenching, Furnace, Honing,<br/>           Neat Cutting, Nut bolt forming, Wire drawing oil etc.         </p> |



## Portable Oil Cleaning Systems


| Machine         | Details of Features   |
|-----------------|---|
| POCS 1000 SL-LL | <p>Used to remove solid contamination and moisture from oil.</p> <p>Processing - UP TO 1000 LPH<br/>Sludge holding - UP TO 1 KG MAX<br/>Moisture Holding - UP TO 200 ml</p> <p><b>FEATURES OF MACHINE</b><br/>100% recurring expense free,<br/>No consumables inside,<br/>Free flow delivery (By gravity)</p> <p><b>STANDARD MOUNTINGS</b><br/>1-Centrifuge, 1-Moisture Separator, 1- Elec. Motor,<br/>1-Gear Pump, 1-Inlet hose (3 meters), 1-Outlet hose (3 meters) and 1-Electrical Control Panel</p> <p><b>POPULARLY USED ON</b><br/>Low viscosity Lubricating Oil, Hydraulic oils etc.</p> |









## Portable Oil Cleaning Systems

| Machine  | Details of Features  |
|--|--|
| <b>POCS NANO</b><br><br> <p>Portable Oil Centrifugal System-NANO</p> | <p><b>Used to remove solid contamination and from oil.</b></p> <p>Processing - UP TO 250 LPH<br/>         Sludge holding - UP TO 400 GMS MAX</p> <p><b>FEATURES OF MACHINE</b><br/>         100% recurring expense free,<br/>         No consumables inside,<br/>         Free flow delivery (By gravity)</p> <p><b>STANDARD MOUNTINGS</b><br/>         1-Centrifuge, 1- Elec. Motors, 1-Gear Pump, 1-Inlet hose (2 meters), 1-Outlet hose (2 meters) and 1-Electrical Control Panel</p> <p><b>POPULARLY USED ON</b><br/>         Low viscosity Lubricating Oil, Hydraulic oils etc.</p> |

## Portable Hydraulic Oil Cleaning Systems

| Machine  | Details of Features   |
|--|---|
| <p><b>POCS 2000 -2M</b></p>   | <p><b>Used to remove solid contamination and moisture from oil with 2 micron washable cartridge</b></p> <p> <b>Processing</b> - UP TO 2000 LPH<br/> <b>Sludge holding</b> - UP TO 6 KG MAX<br/> <b>Moisture Holding</b> - UP TO 1.000 Liter<br/> <b>Filtration up to</b> - 2 micron (washable cartridge) </p> <p><b>FEATURES OF MACHINE</b><br/> 100% recurring expense free,<br/> No consumables inside,<br/> Free flow delivery (By gravity) </p> <p><b>STANDARD MOUNTINGS</b><br/> 1-Centrifuge, 1-Moisture Separator, 1-2 micron washable SS cartridge, pressure system, 1- Elec. Motors, 1-Gear Pump, 1-Inlet hose (3 meters), 1-Outlet hose (3 meters) and 1-Electrical Control Panel </p> <p><b>POPULARLY USED ON</b><br/> Hydraulic Oils, Turbine Oils, etc. </p> |

## FILTROCLEAN ELECTROSTATIC FILTRATION MACHINES



### Technical Specifications for **FC-50**

**Dimensions** : 835mm (L) x 480mm (W) x 915 mm (H)  
**Weight** : 130 Kgs.  
**Pump Flow** : 10-12 Ltrs./Min.  
**Type** : Gear Pump  
**High Voltage Transformer** : 1 Nos.  
**Hose Pipes (2 Nos.)** : Nylon/PVC 4 Mtrs. each  
**Cleaning Shell Capacity** : 50 Lts.  
**Oil Super cleaned per day (24 hrs.)** : 100-150 ltrs. per day (Also depends on actual contamination in oil)  
**Power Supply** : Standard 415 V 3 Phase 50 Hz / Single Phase 220 V  
**Power Consumption** : 375 W  
**Max Temperature of Oil upto** : 60°C  
**Moisture contents** : Below 1000 PPM  
**Viscosity** : Upto 400 CST

### Technical Specifications for **FC-100**

**Dimensions** : 900mm (L) x 615mm (W) x 920 mm (H)  
**Weight** : 220 Kgs.  
**Pump Flow** : 10-12 Ltrs./Min.  
**Type** : Gear Pump  
**High Voltage Transformer** : 1/2 Nos.  
**Hose Pipes (2 Nos.)** : Nylon-4 Mtrs. each  
**Cleaning Shell Capacity** : 100 Lts.  
**Oil Super cleaned per day (24 hrs.)** : 200-250 ltrs. per day (Also depends on actual contamination in oil)  
**Power Supply** : Standard 415 V 3 Phase 50 Hz  
**Power Consumption** : 375 W  
**Max Temperature of Oil upto** : 60°C  
**Moisture contents** : Below 1000 PPM  
**Viscosity** : Upto 400 CST

### Specification of Filtro-Clean EOF Machines :

| Unit Type | Dimensions L X W X H (mm) | Weight (Kgs) | Pump Flow Ltrs,Min | Oil Supercleaned Per Day | Power Supply         | Power Consumption | Moisture Below | VG Upto |
|-----------|---------------------------|--------------|--------------------|--------------------------|----------------------|-------------------|----------------|---------|
| FC-100    | 900x615x920               | 220          | 10-12              | 200-250 Ltrs.*           | 415v, 3.50 Hz        | 0.5 HP/375 W      | 1000 PPM       | 400 CST |
| FC-50     | 835x480x915               | 130          | 10-12              | 100-150 Ltrs.*           | 415v, 3, 50Hz        | 0.5 HP/375 W      | 1000 PPM       | 400 CST |
| FC-35     | 540x425x875               | 90           | 8-10               | 75-100 Ltrs.*            | 415v,3Ø/220,1Ø, 50Hz | 0.5 HP/375 W      | 1000 PPM       | 400 CST |
| FC-25     | 515x420x850               | 70           | 3-5                | 40-60 Ltrs.*             | 220,1Ø, 50Hz         | 0.25 HP/180 W     | 1000 PPM       | 400 CST |

### BENEFITS BY USE OF FILTRO-CLEAN ELECTROSTATIC OIL FILTER MACHINE

★ On line removal of contamination from oil down to 0.8 microns. ★ Removes smaller particulate (ie. Carbon, Sludge, Dust, Rust, Oxidized matter) from any non-conductive fluid. ★ Low operating cost. ★ No clogging or pressure drop. Reduces down time ★ Improves life of hydraulic and other lubricating oils. ★ Improves life of your Machine. Removes oxidation products and retards the oxidation process. ★ Requires no supervision during operation. Keep oil cleaner than

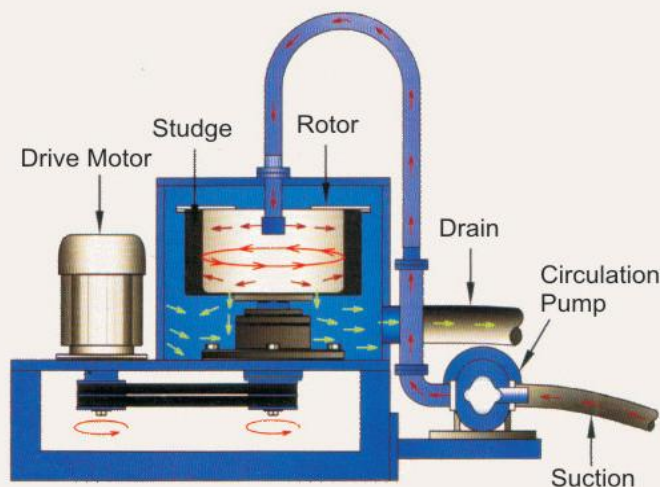
## THE SIMPLEST WAY TO GET SUPERCLEAN HYDRAULIC OILS



## FILTROCLEAR COOLANT CLEANING SYSTEM

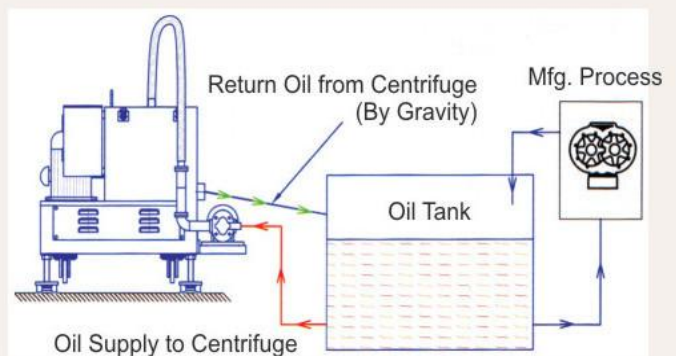
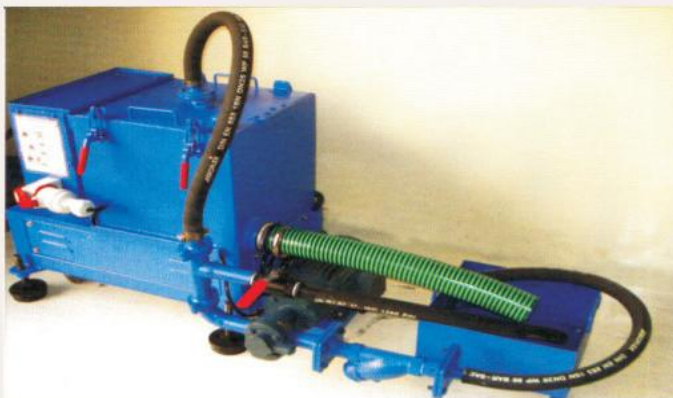
### FILTRO CLEAN COOLANT CLEANING SYSTEM

#### Working Principle



The Lubricant to be cleaned is passed through a rotor, driven by Electric Motor, Centrifugal force 2000 times gravity is exerted on the particles, depositing them on inner wall of rotor as dense cake. Clean oil returns back to the oil tank. With clean oil, wear of rotor as dense cake. Clean oil returns back to the oil tank. With clean oil, wear of tools and dies is reduced and job finish is improved. The oil need not be replaced frequently. thereby saving substantially on oil expenses and protecting Environment.

#### Schematic Diagram



**No Consumables - No Recurring Cost.**

**Enhance Quality & Life of Oil**

## FILTROCLEAN OIL RECOVERY SYSTEMS (FORS)

### FILTRO CLEAN OIL RECOVERY SYSTEM (FORS)



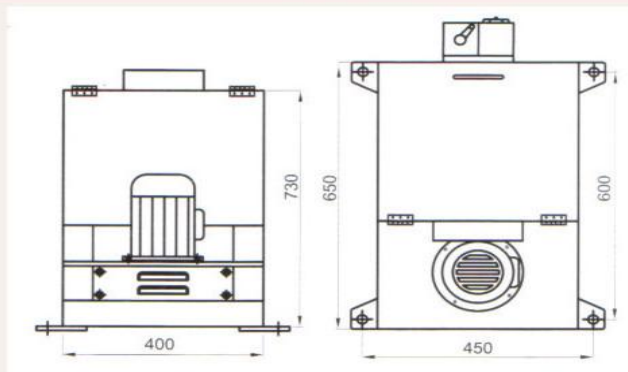
**FORS 50**

- ★ Complete Oil recovery
- ★ Improved Product finish
- ★ Reduced oil consumption
- ★ Save over 1000 Ltrs oil per month
- ★ Substantial savings on cost of oil
- ★ Reduced pollution & environmental impact

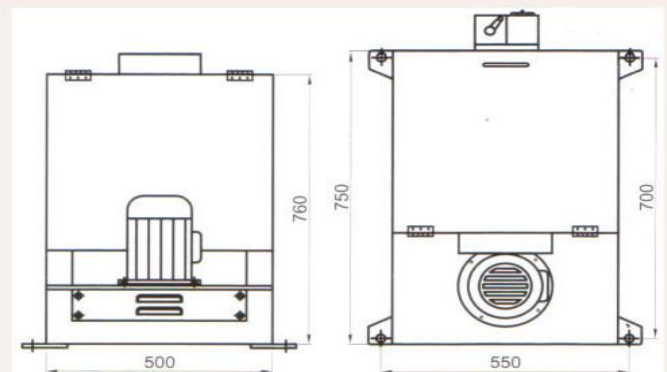
#### Applications

- ★ Gear Mfg.
- ★ Fastener Mfg.
- ★ Spring Mfg.
- ★ Gun Drilling
- ★ CNC Machines
- ★ Auto Components

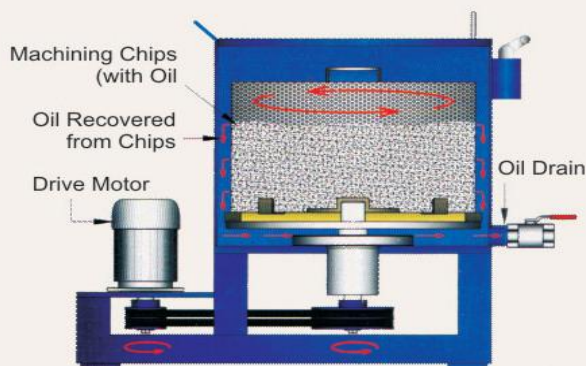
#### FORS 25



#### FORS 50



### WORKING PRINCIPLE



Oil Recovery Centrifuge works on principle of centrifugal separation. Rotor bowl made of perforated steel screen is driven by motor. Chips/Parts from which oil is to be recovered are loaded in the rotor bowl, Centrifugal force created in the rotor separates oil from surface of Chips/Parts. Collected oil is drained out by opening valve provided at the bottom of unit.