

# Spinner II® Oil Cleaning Centrifuge

**The power to remove soot and  
contaminants from your lube oil**

**Extends oil and filter life**

**Reduces engine wear**

**Protects the environment**



## How It Works

***If you operate and maintain heavy-duty diesel and natural gas engines, the benefits of cleaner lube oil go straight to your bottom line. Because cleaner oil extends engine life, lengthens service intervals, increases equipment availability and cuts waste disposal costs.***

### **The Problem With Filters**

Conventional oil filters alone can't deliver the protection today's engines need. Why? Because a vast majority of the grit and soot particles contaminating your oil measure 10 microns or less\* — far smaller than a typical 40-micron full-flow filter can stop. So these abrasive particles continually recirculate in the oil around rings, cams and bearings. As a result, you're faced with major engine wear, downtime and unnecessary maintenance expenses.

But there's a permanent, inexpensive solution for premature engine wear — the Spinner II® oil cleaning centrifuge. It removes abrasive solids down to less than one-tenth of a micron, cutting engine wear in half and dramatically reducing your maintenance costs.

### **The Centrifugal Solution**

A Spinner II centrifuge uses the power of centrifugal force to remove both large particles and fine, submicron contaminants. Unlike ordinary media filters, the Spinner II centrifuge actually removes contaminants from the oil stream and stores them as a compacted, solid cake in a cleanable bowl. Soot and other contaminants aren't continually recirculated through your engine — so your oil maintains its lubricity, additives maintain potency and your engines run longer with less wear.



***Spinner II centrifuges can be combined in parallel to achieve any oil-cleaning capacity.***

A Spinner II centrifuge not only removes particles 400 times smaller than a typical engine filter, it also has up to ten times the dirt storage capacity. So it stays on the job longer. Plus there's no filter element to plug, so cleaning efficiency remains constant throughout the entire service interval. As a result, your oil lasts longer, full-flow filters last longer, waste disposal costs are reduced — and your engine is protected better than ever before.



A Spinner II centrifuge has three main sections: separation chamber, turbine and optional level control mechanism. All are contained in a rugged steel and cast-aluminum housing.

### **Separation Chamber**

Oil enters the separation chamber under engine pressure, flowing up through a hollow spindle. It passes through a rotating bowl where centrifugal force 2,000 times greater than gravity separates contaminants from the oil. Contaminants accumulate on the bowl surface as a solid cake, while clean oil flows out of the bowl to the turbine.

### **Turbine**

Clean oil exits from opposing, twin nozzles, powering the centrifuge up to 6,000 rpm.

**Separation Chamber**

**Turbine**

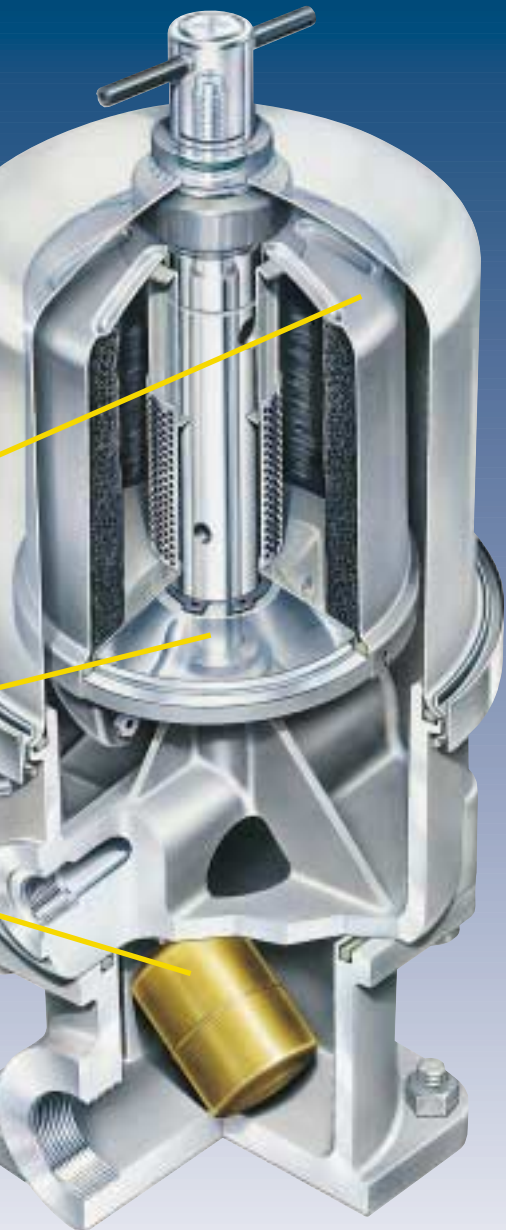
**Level Control**

**Model 200 HD with Level Control Base**

***\*Analysis of used lube oil solids shows average 98% of particles are ten micron or less — call for complete report.***

## Level Control Base

Oil returns to the crankcase from the level control base, which maintains the proper oil flow for maximum speed and efficiency. This patented control system allows the Spinner II unit to be mounted in any convenient location.



*Actual contaminants removed by a Spinner II centrifuge. To service, simply empty the contents of the cleanable bowl.*



## Advantages

- Extends oil life
- Reduces engine wear up to 50%\*
- Dramatically increases engine life
- Protects the environment
- Field-proven — more than 650,000 units in operation
- Standard equipment for more than 40 engine manufacturers worldwide
- Extends full-flow filter life
- Maintains constant cleaning efficiency
- No channeling, plugging or fouling
- Simple, convenient installation
- No replacement elements
- Contaminant access for engine troubleshooting
- Long-term preventive maintenance

*\*Call for independent lab test reports*

## Long Running, Easy to Maintain

Maintenance intervals for the Spinner II centrifuge are based on your operating conditions and service hours. However, the large capacity of the unit will allow you to keep it in service much longer than an ordinary oil filter.

Cleaning your centrifuge is fast and easy. Simply take off the cover, lift out the reusable bowl and remove the dry, compacted contaminants. There are no expensive filter elements to replace, and nothing to drain, crush or haul away.

Many Spinner II users examine the solid contaminants to diagnose engine conditions. Excessive metal particles, for instance, indicate wear problems. Soft, mushy solids indicate a water leak in the system.

## Spinner II CS Systems

For a completely cleanable, reusable oil cleaning solution, get a Spinner II CS system. It combines a powerful Spinner II centrifuge and a full-flow, stainless steel CS cleanable screen in one compact, easy-to-clean unit. A Spinner II CS system completely eliminates expensive, disposable filter elements, as well as the environmental problems of used filter disposal.



*Spinner II CS system: a powerful oil cleaning centrifuge combined with a full-flow cleanable screen.*

## Custom-Engineered Systems

Spinner II Products engineers special systems to satisfy a variety of needs, including:

**Spinner II CX Systems.** Multi-centrifuge packages operating in parallel for high-volume equipment.

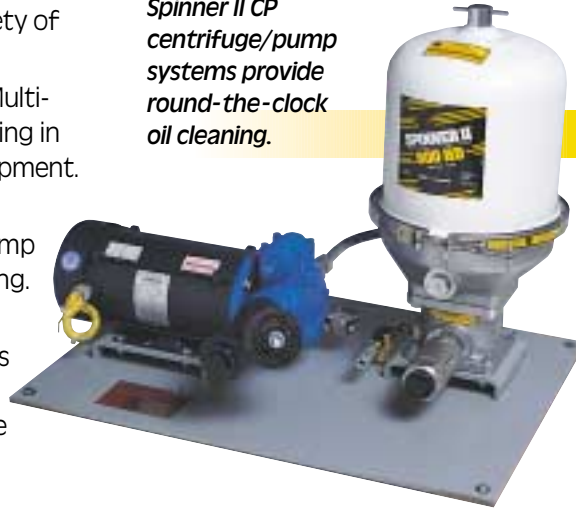
**Spinner II CP Systems.** Combination centrifuge/pump units for constant oil cleaning.

**Spinner II LORS Systems.** Lube oil reclamation systems that separate solids from used oil for effective on-site recycling.

## Spinner II Glycol Systems.

Centrifuges designed to effectively clean contaminated glycol solutions.

*Spinner II CP centrifuge/pump systems provide round-the-clock oil cleaning.*



Model 25 SE  
.8 gal/min



Model 996  
2 gal/min

## World-Class Performance

For over 30 years, Spinner II centrifuges have provided exceptional oil-cleaning performance on more than 650,000 engines worldwide — including equipment by Caterpillar, Waukesha, White Superior, EMD, Alco, General Electric, Detroit Diesel, Clark Bros., Ingersoll-Rand, Cooper-Bessemer, Cummins, MTU and many others.

There's a Spinner II model for virtually any engine application, as well as for the lube systems of compressors, turbines and gear boxes, hydraulic oil applications — virtually any place where clean oil is important. Spinner II centrifuges can be specified on new equipment or easily retrofitted to existing units. Plus they're backed by responsive engineering and technical support.

To find out what cleaner oil can do for your bottom line, contact Spinner II Products for a free, no-obligation analysis.



Model 200 HD  
4 gal/min



Model 400 HD  
8 gal/min



Model 600 HD  
16 gal/min



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