

PRAB SEMI-AUTOMATIC CENTRIFUGE

ELIMINATE CONSUMABLE MEDIA AND MINIMIZE MAINTENANCE

Discharge Solids to Waste Drum

Using no filters or consumables and very few moving parts, the PRAB Semi-Automatic Centrifuge moves solid particulate away from liquid and toward the rotor wall, where it is compacted and can be removed during cleaning.



"The reason we purchased PRAB's equipment is because it can keep up with production, it is fully automatic, clean, and very user friendly."

– Gary Sroufe, C&A Tool's multi-spindle "go-to guy"

Semi-Automatic Centrifuge

Features:

- Carbon steel enclosure and Aluminum rotor
- Bottom non-clogging 1" injector tube
- Bottom centrate discharge
- Bearings completely isolated from fluid
- Low-torque angled blade

Benefits:

- No filters or consumables
- Low maintenance
- Very few moving parts
- Semi-automatic discharge of solids to waste drum

Backed by the **PRAB Difference**

PRAB SEMI-AUTOMATIC CENTRIFUGE

HIGH PERFORMANCE LIQUID/SOLID SEPARATION

Centrifuge Operation

Feed enters at the dirty liquid inlet and progresses upward through the rotor body. Centrifugal force is applied to the liquid stream in the main body of the rotor, causing solid particulate to move toward the rotor wall. Solids are deposited at the rotor perimeter while clean liquid overflows through the top of the rotor. The clean overflow discharges at atmospheric pressure via gravity through the clean liquid outlet. Solids deposited in the rotor are compacted by centrifugal force and allowed to build up until they are removed during the cleaning cycle. The clean cycle is manually initiated by the operator.

During the feed cycle, the lower cabinet is flushed continuously with clean liquid to minimize the accumulation of solids in that area. When a clean cycle is determined based on run time by the operator, the feed pump is turned off and stops the flow to the centrifuge. The drive motor is then turned off and the rotor coasts to a full stop. Any residual liquid remaining in the rotor drops to the lower cabinet and then drains back to the process tank.

The accumulated solids are removed from the rotor in the following manner: First, the drain plate is slid to the open position. This movement opens the bottom of the rotor to the sludge bin below so the solids will drop into the sludge bin. Then, the stopper pin is inserted into the block which locks the rotor in place. The t-wrench is then inserted on the scraper shaft and rotated clockwise and counterclockwise, so the scraper cleans the solid particulate from the walls of the rotor, causing the solids to drop into the sludge drum below. After the sludge has been removed from the rotor, all of the above operations are reversed. The drive motor is then turned on and the centrifuge returns to full speed. Once it is at full speed the feed pump is turned on and the system is running in normal operation. Normal operation will continue until the system is shut down or needs to be cleaned again.

Model	Flowrate	Bowl Volume
CL-60SA	12 GPM	1.6 Gallons
CL-100SA	25 GPM	2.6 Gallons
CL-150SA	50 GPM	4 Gallons

Applications:

- Automotive Blank Washer
- Coil Coater Brush Washer
- Ceramics-Grinding Coolant
- Deburring Solutions
- Honing Oils
- Glass Grinding Coolants
- Machine Coolants
- Paint Booth Curtain Water
- Paint Strip
- Quench Fluids
- Rinse Baths
- Stone Grinding Coolants
- Vibratory Finishing/Polishing
- Wire Drawing Coolants
- Zinc/Iron Phosphates



A true performance guarantee ensuring your PRAB equipment achieves the specific results it was designed and manufactured to deliver. And if you need technical support, call us. We are available 24/7.

Contact us to **request a quote** today

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