

US CENTRIFUGE SYSTEMS

A Division of Filtertech

A560

Automatic centrifuge



CENTERED ON SOLUTIONS.™

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Model A560 automatic centrifuge

Essential equipment to solve your problems

The A560 design handles tough process demands, heavy filtration applications and liquid-solid separations in which the specific gravity of suspended solids are greater than that of the liquid.

The A560 has a highly efficient operation proven to separate micron solids from a liquid medium making it the ideal machine to recover valuable solids, or recycle industrial fluids.

Included with every centrifuge is the 508A approved Standard Allen Bradley Micrologics PLC-based control panel for maximum processing flexibility. This panel allows our Centrifuge Team™ to immediately access and monitor your A560 through an optional IP network interface.

Maximum processing flexibility is assured with standard and customized A560 designs.

BIGGER, BETTER BUILD

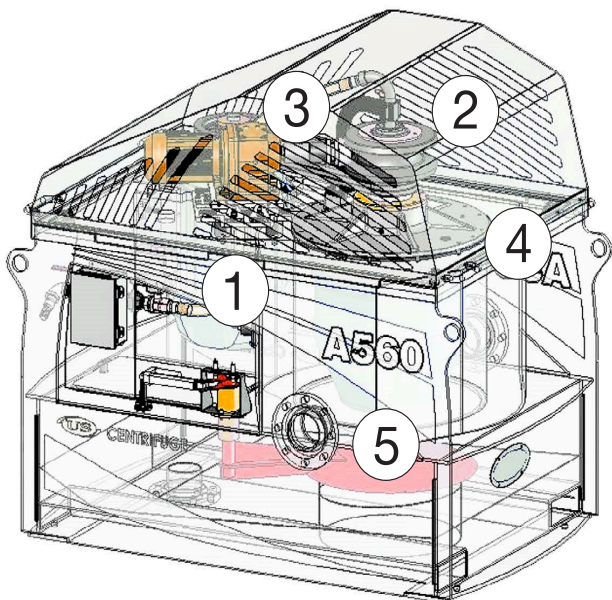
A560 self-cleaning centrifuges are all designed and engineered at actual operating speed before assembly and testing of the complete system takes place.

PRECISION ENGINEERING AND MANUFACTURING

Our state-of-the-art customizing facility uses computer-aided systems and experienced technical engineers to produce centrifuge components with precise tolerances.

Exclusive design features

US Centrifuge Systems builds premier automatic centrifuges engineered to provide our customers with the best performance.

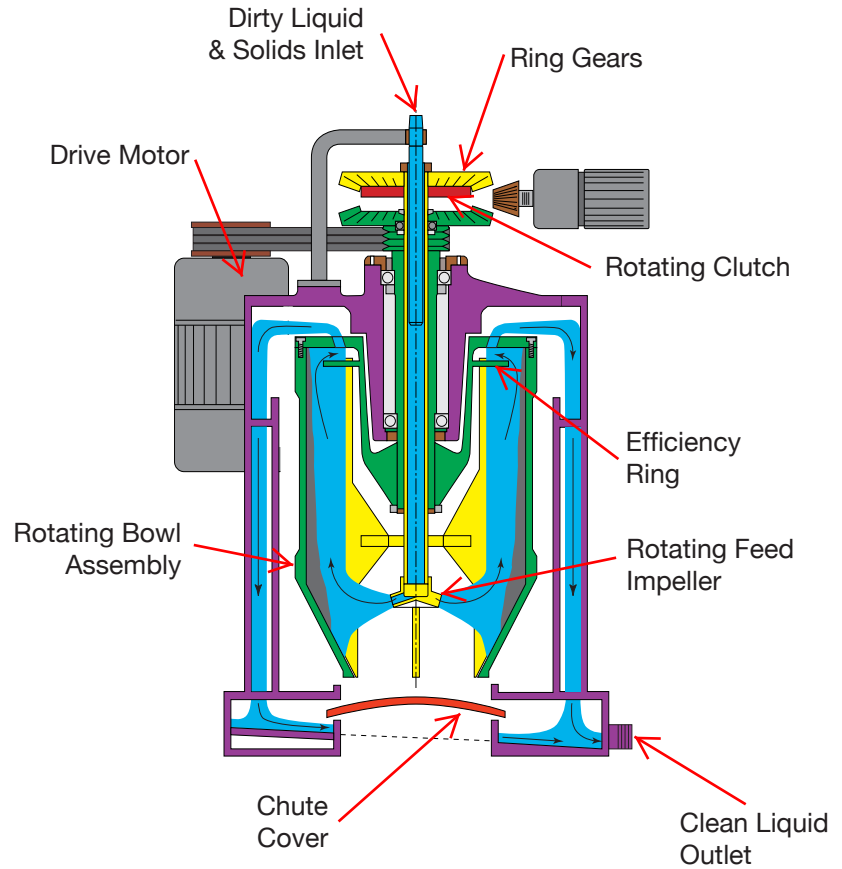


- ① Patented Load Sensitive Dump™ automation
- ② Patented Centri-Lock™ plow clutch
- ③ Rugged hi-torque gear-driven plow system
- ④ Robust monocoque frame construction
- ⑤ High efficiency rotating assembly

How it works

PROCESS CYCLE

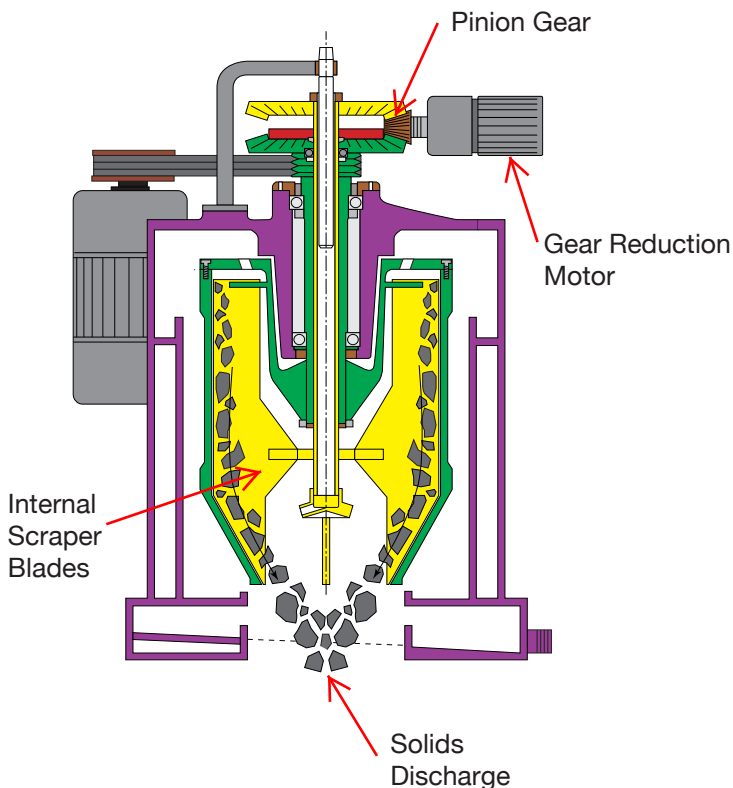
- Process liquid & solids flows down continuously through the feed tube, while the impeller accelerates and distributes liquid into the spinning bowl
- Liquid flows up the pool surface of the bowl as solids separate and compact at the bowl's perimeter. The clarified liquid passes around the efficiency ring and releases through the discharge ports of the bowl-hub into the frame collection chamber.
- Clarified liquid flows down the drain tubes into the lower frame drain pan where the liquid exits the discharge fitting at the rear of the centrifuge



How it works

CLEANING CYCLE

- The drive motor VFD resistor braking system activates and the feed stop valve closes automatically.
- Free liquid drains from bowl into lower frame chamber; plow-motor rotates plow blades and bowl as solids are scraped out sludge chute into hopper or 55 gallon drum.



Benefits

- Automatic operation minimizes attention and time
- Cleaner working fluids for improved product quality
- Extended process liquid, media and tool life
- Reduced maintenance and cleanout
- Minimizes waste volumes
- Relatively dry drip-free sludge
- No consumable filter elements
- Environmental compliance



System specifications

Customized systems and controls are available to suit unique application and facility requirements.

Features of the standard A560 are a carbon steel powder-coated frame with an aluminum bowl shell, carbon steel bowl hub, and a Nu-Tride® surface treated carbon steel plow-assembly. Stainless steel machine configurations are also available. Optional perimeter service platform with vertical access ladder is available.

- Bowl volume: **15.9 GALLONS / 60 LITERS**
- Max g-force: **2,000**
- Process capacity: **5-60 GPM / 19-227 LPM**
- Max solids holding capacity: **8 GALLONS / 30.2 LITERS**
- Drive motor HP: **15-HP 230-600 VAC**
- Plow motor HP: **1-HP 230-600 VAC**
- Liquid inlet fitting: **1" NPT / DN25**
- Liquid discharge fitting: **4" NPT / DN100**
- Liquid discharge pressure: **G-RETURN**
- Max temperature: **160° F / 71° C**
- Weight: **5,500 LBS / 2,495 KGS.**
- Dimensions L x W x H: **56" X 42" X 54"**
(142 X 107 X 137 CM)

Control panel configurations

CUSTOM AUTOMATION

- Engineered and programmed to meet unique application requirements and customer preferences; control panels can be designed and built to suit the customer's specific applications and facility requirements

STANDARD AUTOMATION

- Technically advanced deluxe control panel includes an Allen Bradley Micrologics PLC, Maple Systems color touch screen, HMI operator interface, AB PowerFlex VFD drive-motor control unit with resistor braking, and AB VFD plow-motor unit for plow torque control. Remote monitoring is optional
- Standard panels are 508A approved, meet category three OSHA standards, and CE Certified panels are available
- Standard package accelerates A560 to full speed in less than 40 seconds and stops smoothly in less than 60 seconds to maximize up-time processing by decreased clean-cycle time
- Installation time and cost are minimized with a machine-mounted auxiliary wiring box, a pre-wired flexible conduit wiring harness and plug connectors that quickly plug into the control panel; only required wiring is connecting power to the control panel disconnect

