

Pressure Powered Centrifuge



ACS 2000+ OIL CENTRIFUGE

2000 cc design capacity
4 gpm & 4000 rpm at 60 psi inlet

The Glacier® pressure-powered centrifuge is the world leader in converting un-used system lube flow to dynamic and effective abrasive control without the use of disposables, trapping debris media filters completely miss. The Oil Transfer Base (left) greatly extends centrifuge application.

FEATURES

APPLICATION VERSATILITY

- May be driven by existing lube circuit or external pump
- Use across a range of viscosities
- Gravity drain or remote mount via Oil Transfer Base

UNMATCHED PERFORMANCE

- Traps debris with 2500 g-force separation
- Properly applied, makes full-flow filters nearly redundant
- Sizes trapped independent of media limitations
- Controls an abrasive sizes causing most adverse effects

APPLICATION GUIDELINES

TURN RATE

TURN RATE — number of centrifuged lube volumes per hour, "tph– turns per hour"

- HYDRAULIC SYSTEM — minimum turn rate: 10 tph
- GEARBOX, High Viscosity — minimum turn rate: 6 tph
- ENGINE, Natural Gas — minimum turn rate: 8 tph
- ENGINE, Diesel — minimum turn rate: 5 tph; better application limit — apply 2000cc centrifuge only on engines of displacement **less than 35 litres.**

SERVICED WORLD-WIDE

- Centrifuge is sold by distributors on every continent.
- Offered as original equipment by well-known engine OEM's

THOUGHTFUL DESIGN & BUILD

- Inlet cut-out valve prevents centrifuge demand at low rpm's
- Radial ribs in rotor cover and inlet flow diffuser improve separation performance
- Cylindrical turbine secures smooth operation at full speed
- Engineered "durable" to exceed 50k hour product life

INSTALLATION

- When using OTB, there must be no manual valve on return path
- Return against pressure head using OTB is feasible with in-line check installed
- Unit may be mounted up to 10° from vertical
- Overhead service clearance — 7.25"
- In standard version, inlet port is #10 SAE O-ring, Female
- Product DIM's — Height: 13.5 to 18.3"; Diameter: 9"Ø

STANDARD & OPTIONAL EQUIPMENT

System	Standard	Optional
• Drain Method	• Base-mounted gravity drain	• Add Oil Control Base (OTB) for mounting remotely at any location, any distance
• Lube Supply	• Use fraction of system flow	• Use external lube pump circulating on system sump
• Cleaning	• Hand-serviceable cover, paper turbine insert for quick dirt release	• Service tool for convenient mounting in vise
• Unit Flowrate	• 4 gpm at 60 psid	• 6 gpm at 60 psid (contact Glacier, PN pg 2)
• Idle Cut-out Valve	• Prevents all centrifuge flow below 35 psi inlet pressure	• Optional spring PN's change COV setting (contact Glacier)

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SPECIFICATIONS — ACS 2000+ Centrifuge

2000cc Centrifuge

Trait

• Drain Method	Gravity Drain Port, 2.5"Ø
• Dirt Capacity (Design)	Maximum 2000cc at 1.9" dirt annulus thickness
• Dirt Capacity (Service)	Do not exceed 1.25" dirt annulus thickness
• Best Cleaning Point	Best servicing at 0.88" dirt annulus thickness
• Fluid Source	Centrifuge uses orifices to create sufficient turbine speed; use highest pressure, highest temperature lube source with no inlet restrictions
• Flowrate	4.2 gpm at 60 psi inlet, SAE 30 oil @ 167°F This product may be applied with other orifices for flows ranging from 3 through 6 gpm (contact your Glacier Distributor)
• Fluid viscosity	5 to 100 cSt
• Dirt Toxicity	Tested only for diesel debris: TCLP Test showed no toxicity
• Hydraulic Internal Pressure limit	150 psi; cover fails by simple deformation
• Oil Transfer Base, OTB	Regulator supplied accepts maximum air inlet pressure of 400 psi
• OTB air consumption	less than 20 in3 per minute
• OTB, minimum air pressure supplied	2 psi; may use turbocharger outlet
• Seals	Viton o-rings, with copper gasket on cov
• Bearing Limitations	This pressure-powered centrifuge is designed to employ the fluid it is cleaning for proper bearing support; see viscosity requirements above. NOT suitable for heavily-loaded machine tool coolants (contact distributor).
• Application Limits	When applied on too large a volume or oil, or too large a dirt-generating system, this product will fail to achieve desired impact on lube life, system durability and system cleanliness. Use turn rate guidelines established through field experience (see Application Guidelines). This size product is effective on diesels whose swept displacement ranges from 18 to 35 liters; above ~35 liter engine displacement, this size unit is inadequate but sometimes applied which may result in unwarranted confidence about lube oil contaminant control.
• More questions?	Please contact a Glacier Distributor or http://www.glacierindustrial.com

PRODUCT PART NUMBERS in 2000cc Series

- PN 2G220 — Glacier ACS 2000+ Advanced Centrifuge System
- PN 2G222 — Glacier ACS 2000+ Advanced Centrifuge System, 6 gpm
- PN 2G225 — Glacier ACS 2000+ with Oil Transfer Base

RELATED PRODUCTS

- 4000 cc lube oil centrifuge, rated 8 gpm
- 6000 cc lube oil centrifuge, rated for 8, 12 or 16 gpm

