

AMC Lightweight Solids Removal Unit™

AMC's award-winning Solids Removal Technology in a new, modular and lightweight design.



AMC Lightweight Solids Removal Unit™ (AMC LW SRU™) is a revolutionary solids control unit, delivering multiple economic, operational, environmental and safety benefits to drillers and resource companies. The AMC LW SRU™ is highly mobile; easily towed by 4WD, containerised, transported via helicopter or manoeuvred underground.

Improving efficiency and productivity

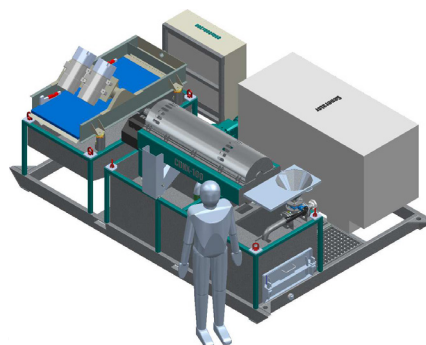
The unit's high-speed Alfa Laval CDNX 100 decanting centrifuge is specifically adapted for diamond drilling, operating with a g-force of up to 3000, to remove solids to less than 5 microns and keep drilling fluid in excellent rheological condition. By maintaining clean, non-abrasive mud, the AMC LW SRU™ is able to reduce mud and water consumption, the occurrence of stuck pipe, wear-and-tear on drilling components, overall downtime, and allow personnel to focus on the drilling operations, rather than monitoring and mixing mud.

How does it work?

AMC LW SRU™ circulates drilling fluid directly from the drill collar to the shaker and centrifuge to separate drill solids from the mud slurry. The solids are then discharged via the unit's waste chute. After processing, cleaned drilling fluid flows into a storage tank. The fluid can then be transferred via a weir to the mixing / suction tank and returned to the hole for reuse.

Compact and highly mobile

The unit's small, lightweight and modular design allows for a range of transport and deployment options. It can be trailer, truck or skid mounted and easily towed by a 4WD. All components weigh less than 600kg enabling it to be transported via helicopter in five lifts.



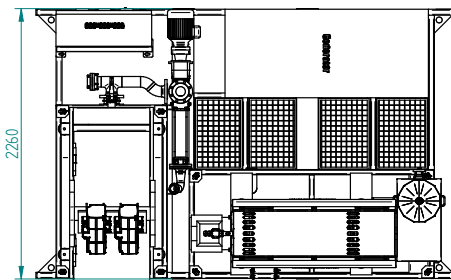
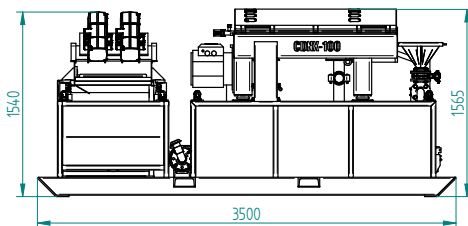
Key Benefits

- Compact, manoeuvrable and lightweight – highly mobile and suitable for underground operations
- PMMS compatible – pre-emptive safety and maintenance management system
- Significantly reduces water consumption, mud usage and associated costs
- Eliminates need for ground sumps – limits environmental disturbance and rehabilitation costs
- Reduces overall site footprint – ideal for remote, restricted or sensitive locations
- Enhances productivity – allows 10% more bit on bottom time
- Enhances on-site safety – limits vehicle movement, manual handling and hazards
- Reduces wear and tear on drill components
- Quick and easy to set up
- Inclusive of mixing system.

Preventative Maintenance and Management System (PMMS)

AMC LW SRU™ is compatible with AMC's Preventative Maintenance Management System (PMMS). This system enhances safety and efficiency by providing operational control, monitoring and trouble shooting from any location globally. Key functions include:

- Unit location (GPS coordinates)
- Daily pre-start checklist
- Pump, centrifuge, agitator and motor control
- Bearing temperature and vibration monitoring
- Safety interlocks
- Monitoring of opening and closing of lids
- Total running hours
- Countdown timer indicating next service
- Remote log-in for monitoring and control via PC software, Android and iPhone apps, including reporting via email.



WEIGHTS AND DIMENSIONS

DIMENSION	SIZE
Length	500cm (197")
Width	235cm (93")
Height	200cm (79")
Weight	3,100kg (6834lb)

TECHNICAL SPECIFICATIONS

ITEM	DESCRIPTION
Shaker	Single deck shaker
Screen	Pre-tensioned
Centrifuge	CDNX 100
Centrifuge feed	Centrifugal 2.2 kW
Mixing pump	Centrifugal 2.2 kW
Tank volume	950L
Power supply	415 V 25 kVA Prime generator

Further Information

For more information please go to our website amcmud.com or contact your nearest AMC office.

Manufactured under a quality system certified as complying with ISO 9001 by an accredited certification body. Results may vary due to fluid properties and solids contents, please consult your nearest AMC technical specialist to achieve optimum performance.

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