

# AMC Surface Solids Removal Unit™

An innovative, cost-effective alternative to using drilling fluid sumps.



The award-winning AMC Surface Solids Removal Unit™ (AMC Surface SRU™) is the ultimate drilling companion, enabling cost-effective, minimal impact drilling, even in the most restricted locations.

The innovative closed-loop system eliminates the use of sumps and maintains drilling fluid at optimal performance, delivering maximum ROI, drastic water, mud and waste reductions and more.

## How Does It Work?

The AMC Surface SRU™ works by circulating drilling fluid directly from the drill collar to be processed by the shaker and centrifuge, where drill solids are separated from the mud slurry and discharged via a waste chute.

After being processed, cleaned drilling fluids flow into a tank for return to the drill rig. A conveniently positioned mixing system can be used to blend products into drilling fluids in this tank.

## Improving Efficiency & Productivity

The unit's high-speed decanting centrifuge is specifically adapted for diamond drilling, operating up to 3,000rpm, to remove solids to less than 5 microns and keep drilling fluid in excellent rheological condition.

By maintaining clean, non-abrasive mud, the AMC Surface SRU™ is able to increase "bit on bottom" time by 10%, reduce stuck pipe, wear and tear on drill components, and allow personnel to focus on productive drilling activities instead of mixing and monitoring mud systems.

**"The AMC Surface SRU™ provided considerable cost savings as excavation, drainage and rehabilitation were not required, and the unit returned a lot of the additives to drill circulation instead of being lost as sludge."** Dr. Bryan Smith – Consultant Geologist



## Key Benefits

- Reduces water consumption mud usage and cartage costs
- Reduces wear and tear on drill components
- Eliminates the costs of digging sumps
- Improves on-site health and safety, reducing slips and hazards
- Increases productivity & KPIs
- Eliminates site re-remediation and environmental management costs
- Reduces site footprint
- Facilitates access to environmentally sensitive or remote drill sites
- Quick and easy installation.

## Reducing Water and Mud Consumption

The AMC Surface SRU™ can significantly reduce water and mud consumption and their associated costs on site. The closed-loop system recycles drilling fluid, shrinking mud consumption by up to 75%, returning clean fluid to the drill hole.

The AMC Surface SRU™ on-board tank system eliminates water lost in traditional fluid sumps through evaporation and seepage. Water consumption can be reduced by up to 80% using the AMC Surface SRU™, proving highly beneficial in dry and remote locations.

## Enhancing On-site Health and Safety

The AMC Surface SRU™ maintains optimal drilling properties, reducing incidents of stuck pipe and damaged drill components which are caused by abrasive mud. Due to reduced rod trips, pulling and reaming, the AMC Surface SRU™ is able to reduce the level of operating labour required on site and risk of injury.

The AMC Surface SRU™ creates a drier, safer work environment, containing and reducing the volume of water and mud on site, reducing slip and trip hazards caused by mud on roads and run ways, as well as reducing drive time for support vehicles including vac and water trucks and associated driving risks.

## Award-winning Technology



AMEC ENVIRONMENT AWARD



WA INNOVATOR OF THE YEAR AWARD

## Further Information

For more information please go to our website [www.amcmud.com](http://www.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.

### TECHNICAL SPECIFICATIONS

#### WEIGHTS AND DIMENSIONS

DIMENSIONS	SIZE
Length	6.2m
Width	2.5m
Height	3.1m
Weight	4.5 ton (nominal)

#### UNIT SPECIFICATIONS

ITEM	DESCRIPTION
Centrifuge	220mm stainless steel bowl decanting centrifuge
Generator	25kVA 415V 50Hz
Fuel	Diesel
Process capacity	50 – 130L / min
Placement method	Trailer or skid mounted
Pump	Seepex BN10-6L
Mixing system	Venturi hopper
Shaker	One panel pre-tensioned (single deck)
Tank capacity	3,000L (approx.)
Trailer	2 axles, manual levering jacks



SCAN THE QR CODE TO WATCH AMC'S SRU™ IN OPERATION, OR VISIT OUR YOUTUBE CHANNEL: [WWW.YOUTUBE.COM/AMCDRILLINGFLUID](http://WWW.YOUTUBE.COM/AMCDRILLINGFLUID)

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