AMC Modular Solids Removal Unit™

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

AMC's MODULAR SOLIDS REMOVAL UNIT (SRU) is an innovative alternative to fluid sumps, proving to be highly beneficial for the environment, on-site health and safety, operational efficiency as well as delivering significant cost savings, especially in HDD mud rotary and chipping operations.

The Modular SRU's closed-loop system is designed to clean drill fluid down to 5 microns, enabling longer use of the drilling fluid. By reusing the drilling fluid, the SRU is able to greatly reduce water and mud costs, as well as improving operational efficiences, and reducing wear and tear of drilling components. Clean fluid reduces the risk of collaring and bit balling, increases Rate of Penetration, and lowers equipment costs through longer down hole tool life and less pump wear.

Highly Beneficial in Chip Core Operations

The Modular SRU is highly beneficial when used for chip-core operations, removing low gravity solids during coring for greater drilling efficiency. The unit includes high flow shakers suitable for Mud Rotary and chipping operations up to 6¼" diameter for top hole drilling.

Delivering Environmental Performance

The Modular SRU's closed-loop system makes sumpless drilling possible, helping to minimise the overall drill site disturbance and allowing a greater number of drill pads and holes to be drilled on the lease. By using the SRU, the need for sumps is eliminated and excess drilling waste is reduced, allowing a smaller site footprint, less soil contamination and significantly reduced clean up.

Key Benefits

- High flow shakers suitable for mud rotary and chipping operations up to 6 ¼" diameter for top hole drilling
- Removes low gravity solids for greater drilling efficiency
- Reduced water consumption, mud usage and cartage costs
- Eliminates the cost of digging sumps
- Reduced site footprint, site remediation and environmental management costs
- Reduced wear and tear on drill components
- Improved on-site health and safety, reducing slips and hazards due to mess, mud and water
- Environmentally friendly.

How Does It Work?

The 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 storage tank, before being transferred to the mixing / suction tank, and then returned to the drill hole.

AMC Modular SRU™

TECHNICAL SPECIFICATIONS

WEIGHTS AND DIMENSIONS

DIMENSIONS	SIZE - CENTRIFUGE MODULE	SIZE - SHAKER MODULE
Length	2,600mm	2,600mm
Width	1,800mm	1,800mm
Height	1,750mm	2,100mm
Weight	2,200kg	1,700kg
Tank Volume	2.5m^3	2.5m^3
No. of Compartments	2	2
Feed Rate	Up to 160L / min	Up to 400L / min
Cut Point	Down to 5 microns	Variable screens available to suit application

UNIT SPECIFICATIONS

ITEM	DESCRIPTION
Shaker	Two panel pre separation (double deck)
Screen	4 x Pretensioned screen 42" - 29"
Centrifuge	MS-936 (9" bowl diameter, 36" length)
Support Pump	Seepex BN10 - 6L
Transfer Pump	Submersible Xylem 3045.181 / 1.2kW
Mixing Rate	200L / min
Power Supply	400V 50Hz 21kW (27 KVA)

Further Information

For more information please go to our website 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.

ASIA PACIFIC

Perth, Australia (Head Office)
T +61 8 9445 4000
E amc@imdexlimited.com

Indonesia
T +62 (0) 21 759 11244

AFRICA

South Africa
T +27 (11) 908 5595

EUROPE

Germany
T +49 4402 6950-0

United Kingdom
T +44 (0) 1273 483 700

SOUTH AMERICA

Brazil
T +55 (47) 3404 5920

Chile
T +56 (2) 2589 9300

Peru/Ecuador
T + 51 (1) 322 8850

NORTH AMERICA

USA / Canada
T +801-364-0233

Mexico
T +52 (871) 169 2095