MudCube®

By Cubility

The Next Generation Solids Control Platform

SHAKING UP THE INDUSTRY

The Challenge:

Every well loses valuable drilling fluid, generates unnecessary waste, and suffers from reduced drilling efficiency when drilled solids accumulate in the active mud system.

Conventional shale shakers have changed little over the past decades, leaving operators with higher dilution rates, increased chemical consumption, more waste and increased tool wear.

The Solution:

MudCube® changes the way solids control is performed by recovering more drilling fluid in the area 30-60% more mud than competing technologies, while producing cleaner mud for improved drilling performance.

CLEANER MUD
BETTER PERFORMANCE

Cleaner drilling fluid is the foundation for drilling performance.

MudCube® continuously removes drilled solids while maximizing drilling fluid recovery. The result is a cleaner active mud system that improves drilling efficiency throughout the well.

Benefits:

- Lower Low Gravity Solids (LGS)
- Improved mud properties
- Better hydraulics
- Reduced dilution
- Lower barite consumption
- More stable drilling parameters

Proven performance by the numbers

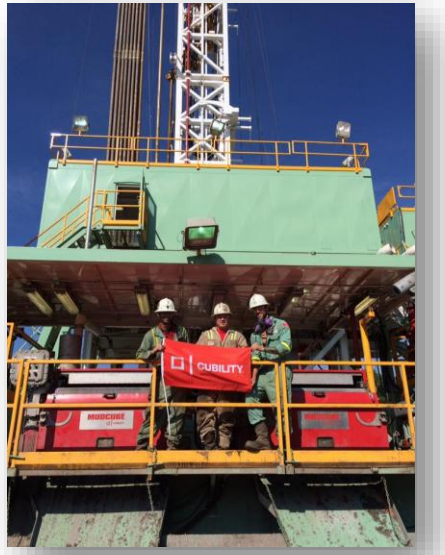
60% less MOC
Up to 60% reduction in Mud On Cuttings

40% less waste
Up to 40% reduction in waste volume

<5% LGS
Less than 5% Low Gravity Solids in drilling fluid

Less dilution
Less make-up mud & Fewer chemicals

Significant cost savings demonstrated in several wells



FASTER DRILLING, BETTER WELLS

Cleaner mud leads to measurable improvements throughout the drilling process.

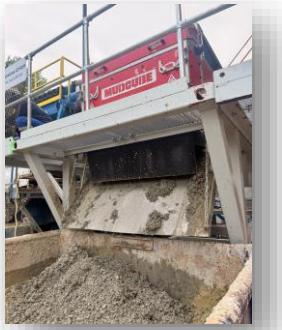
The power of the MudCube® has been demonstrated across offshore and onshore drilling operations worldwide contribution to improved operation and performance. The unique filtration technology provides clients with competitive advantages throughout it's mud processing capabilities such as:

Operational benefits

- Higher Rate of Penetration (ROP)
- Better hole cleaning
- Improved borehole stability
- Better overall well quality

Longer equipment life

- Reduced pump wear
- Longer bit life
- Extended motor and MWD/LWD life
- Lower maintenance costs



Proven Across Drilling Industries

Oil & Gas

A proven solution that has exceeded expectations in global drilling operations on-and offshore for years

Geothermal

The MudCube® has made a breakthrough in geothermal drilling, delivering lower noise, cleaner mud and reduced waste

Horizontal Directional Drilling

The MudCube® is rapidly becoming a preferred mobile solids control solution in the HDD market

UPGRADE YOUR OPERATION WITH COST-REDUCING TECHNOLOGY

The MudCube® has delivered predictable and reliable performance in the field.
Some of the most important reasons why operators and drilling contractors replaces shakers with MudCubes are:

Cost reduction

- Reduce mud losses up to 60%
- Reduce drilling waste weight up to 40%
- Better LGS control
- Improve mud quality

HSE risk reduction

- No exposure to fumes, extreme vibration or excessive noise
- Safe cuttings monitoring for geologists
- Reduced carbon emission

More efficient use of rig personnel

- Integrated CCTV camera for remote monitoring (optional)
- Automated warning for damaged CubeBelt®
- Built-in CubeBelt® cleaning, no need for manual high pressure washing
- Only 1 CubeBelt® per MudCube®, replacement in a few minutes

A STEP CHANGE IN HSE & WORKPLACE SAFETY

MudCube® replaces traditional shale shakers with a fully enclosed solids control system, combining high-airflow filter belt technology and micro-vibration at just one-tenth of the G-force for cleaner, quieter and safer solids separation.

Noise & Vibration
Dramatically reduced vibration and noise levels on the rig, lowering long-term hearing risk and physical strain for personnel.

Hazardous Exposure
Enclosed design sharply reduces exposure to benzene, oil mist, H2S and other harmful gases during solids control operations.

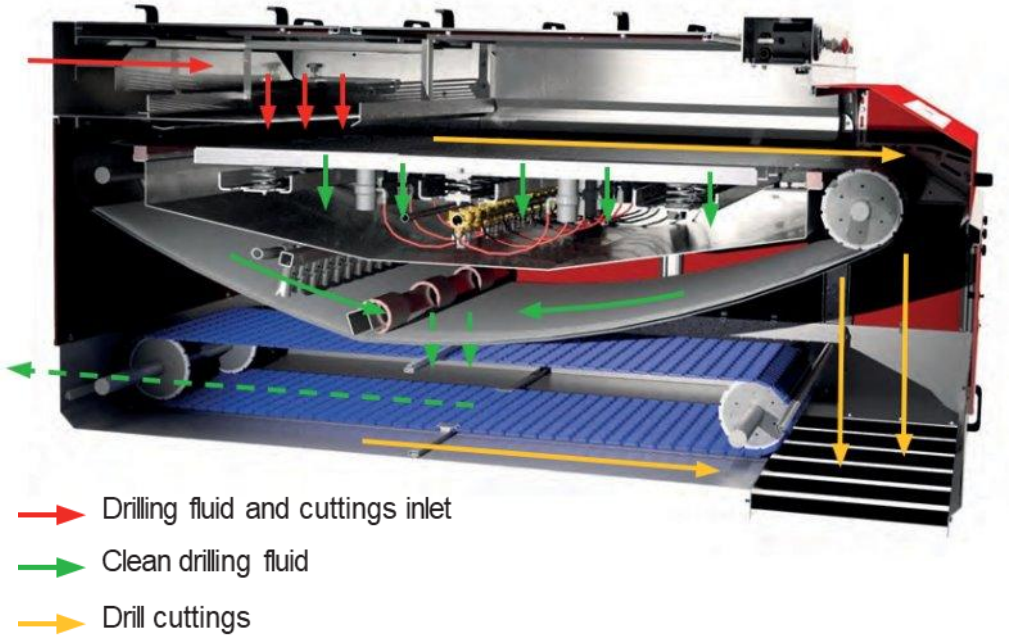
Equipment Health
Cleaner mud separation reduces mechanical stress on pumps and downstream equipment, supporting a steadier and safer operating environment.

A safer, quieter working environment
MudCube® significantly reduces noise and exposure compared to conventional shale shakers. Its enclosed design and remote monitoring minimize the need for personnel in the solids control area.

HOW IT WORKS

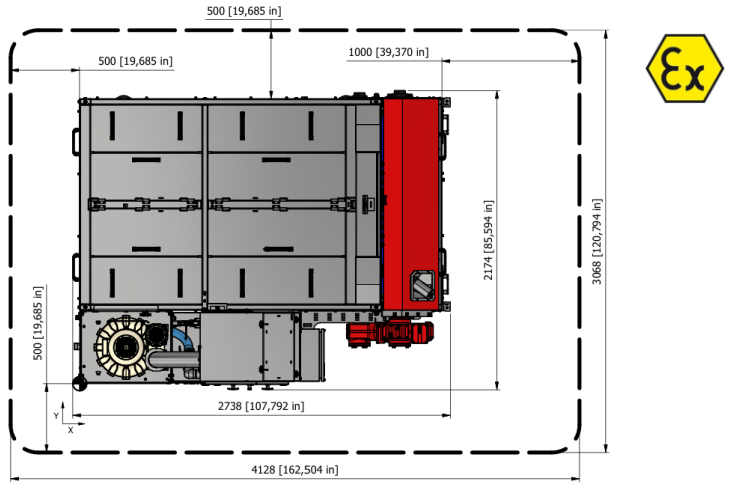
MudCube® improves drilling fluid separation by delivering cleaner drilling mud and dryer cuttings by combining a rotating filterbelt, micro vibration and high vacuum airflow.

Operating with one-tenth of the G-force used by conventional shale shakers, MudCube® prevents the generation of fines, improving mud quality, drilling performance and overall well efficiency.



Technical Specifications

Item	Specification	SI Units	Imperial units
1	Manufacturer	Cubility	
2	Model	Cube PN10000	
3	Length/Width/Height	2716 / 2171 / 1803 mm	106.9 / 84.3 / 71.0 in
4	Weight dry (Min – Max)	1600 - 2000 kg (+/-5%)	3527 - 4409 lb (+/-5%)
5	Ambient temperature	-20 – 50 ^{0}C	- 4 – 122 F
6	Process flow temperature	0 – 85 ^{0}C	32 – 185 F
7	Standard filter belt (screen) mesh sizes	Ranging from 45 µm (API 325) up to 850 µm (API 20)	
8	Pressure rating	Atmospheric	
9	Vacuum flow rate	1100 m^3/h @ 50 Hz 800 m^3/h @ 50 Hz	647 cfm @ 50 Hz 470 cfm @ 50 Hz
10	El. power requirement	380-480VAC, 50/60Hz, 12,5 kW 380-480VAC, 50/60Hz, 9 kW	380-480VAC, 50/60Hz, 16.5 hp 380-480VAC, 50/60Hz, 12 hp
11	Body material	SS 316 L	
12	Active filtration area	2,68 m^2	28.8 ft^2
13	Vibration	Negligible	
14	Noise level	max 73 dBA	
15	Interfaces	See General Arrangement	
16	Water knife	75 l/min @ 4 barg	17 gal/min @ 58 psi
17	Comp. air req.-Vibrators (continously)	1.94 Nm^3/min @ 6 barg	69 CFM @ 87 psi
18	Comp. air req.- Air knife (periodically)	4,5 Nm^3/min @ 4 barg	159 cfm @ 58 psi
19	Certification	ATEX Zone 1, Temp class T3, Gas group IIB	



TOP VIEW SERVICE AREA

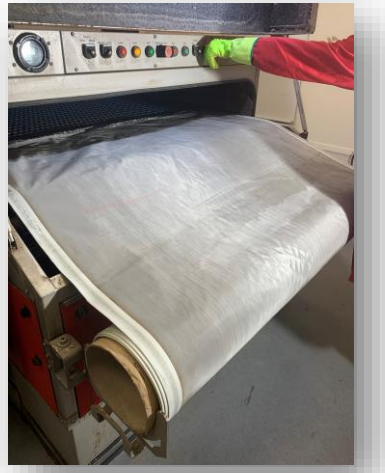
CubeBelt® – an endless screen

Primary Filtration
The CubeBelt® is the primary filtration element, retaining solids while allowing liquid, air and vapours to pass through the mesh and into the suction tray.

Flexible & Low-Stress Design
Installed on top of the support belt without conventional belt tension, the CubeBelt® remains flexible during operation, reducing mechanical stress and wear.

Color-Coded Filtration Range
Available from API 10 to API 400, with color-coded edge strips for quick and easy identification of each filtration grade.

Quick Belt Replacement
The simple, tension-free design allows the CubeBelt® to be replaced in approximately 3 minutes, minimizing downtime and making changes between filtration grades quick and easy.



REDUCING YOUR ENVIRONMENTAL FOOTPRINT

Reduce Co2 Emission

43% Less CO^2e

Reduce Waste

40% Less waste

Health and well-being

Better working environment

Mud Recovery

60% Higher Mud Recovery

Up to 60% less mud on cuttings.
See for yourself using the QR code or type MudCube® into your YouTube search bar.

Verified by CARBON-ZERO

THIS IS CUBILITY

Cubility AS is based in Sandnes, Norway. Cubility's products are distributed globally through a partner network.

New partner?

We are always on the look for new professional partners around the world. Do you want to be one? Please contact our sales team!

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Book a live demonstration · Arrange a pilot trial · Request an ROI assessment
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Worldwide presence

- **Cubility office location**
  HQ – Sandnes, Norway
- **Distribution partner network (See www.cubility/#partner-map.com)**
  Europe – Canada – USA – Chile – Brazil – Colombia – Argentina – GCC – China – India – Singapore – Australia - Africa

Cleaner Mud
Less Waste
Better Wells
Faster Drilling
Longer Tool Life
Improved Work Environment

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