

**PURECUBE®**

By Cubility

## Taking better care of resources through technical evolution

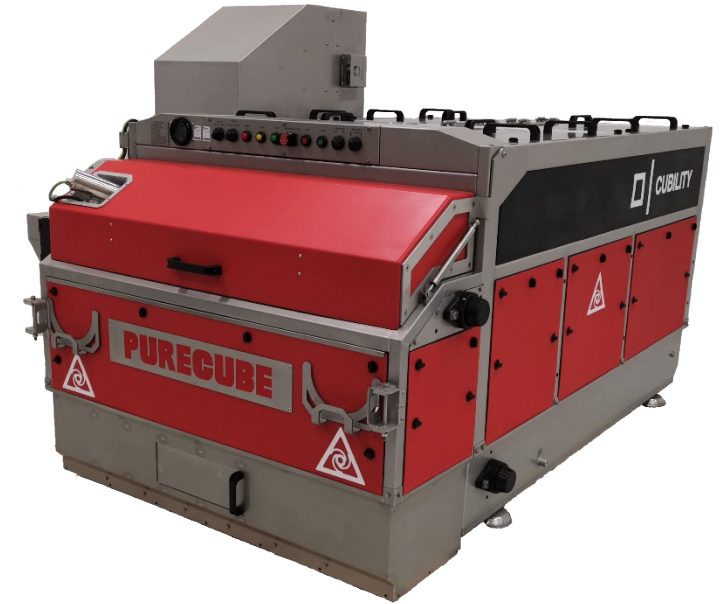


### The Challenge:

Water is becoming a scarce resource, and more focus is put on reuse of our resources and hence reducing our carbon footprint. This puts heavy demands on industrial and governmental players in utilizing sustainable methods for solid/liquid separation and water reuse

### The Solution:

The MudCube® has for 10 years helped the oil and gas industry in optimizing the separation of drilling fluids and waste with a 30-40% efficiency improvement compared to the traditional shale shakers. The PureCube® is now introduced to general sludge dewatering and industrial filtration showing remarkable results.



## A safer and more efficient method

PureCube® is a modern, lightweight and compact alternative to vibrating shakers and belt filters. It combines high frequency vibrations with high air flow through a rotating filterbelt and offers an unprecedented solids/liquid separation capability.

From years of successful operation within oil and gas drilling, the PureCube is field proven in the most harsh and demanding environments. The PureCube® combine high efficiency and good working conditions with its low noise level and enclosed design where no odors or harmful gases are released.

# Improve your operations with new cost-reducing technology

The PureCube® performs solids separation/filtration, sludge thickening and dewatering within one compact unit. A PureCube® system provides primary treatment in a fraction of the footprint and at 30-60% lower cost compared with traditional solutions.

## Highlights:

- Compact modular design
- 100% enclosed – no VOC's, gases or odors can escape
- Can handle large and quick variations in feed
- Can filter from below 50µm to above 1 mm
- Wide variety of filterbelt mesh sizes ranging from 45 to 850 µm (and above)
- Microvibration and filterbelt speed can be adjusted to suit process specific needs and filtercake formation

## Ease of operation

- Integrated IP camera for remote monitoring (optional)
- Wifi access point for easy access (optional)
- Automatic screen damage detection
- Integrated filter cleaning – manual hosing made redundant (optional)
- Replacement of a filterbelt in 3-4 minutes to quickly adapt to process flow variations.

Perfect for urban area operations with low noise level and no structural vibrations



# Introducing the PureCube®

An innovative and patented solution for solid/liquid separation



Based on the experience from operations within oil and gas drilling, the PureCube® is now introduced successfully deployed in the general market for separation of solids from liquids. The PureCube® being a microvibration enhanced continuous vacuum belt filter is applicable in many industry segments.

## Industries

- Mining
- HDD and microtunnelling
- Construction
- Industrial Wastewater
- Aquaculture
- Pulp & Paper

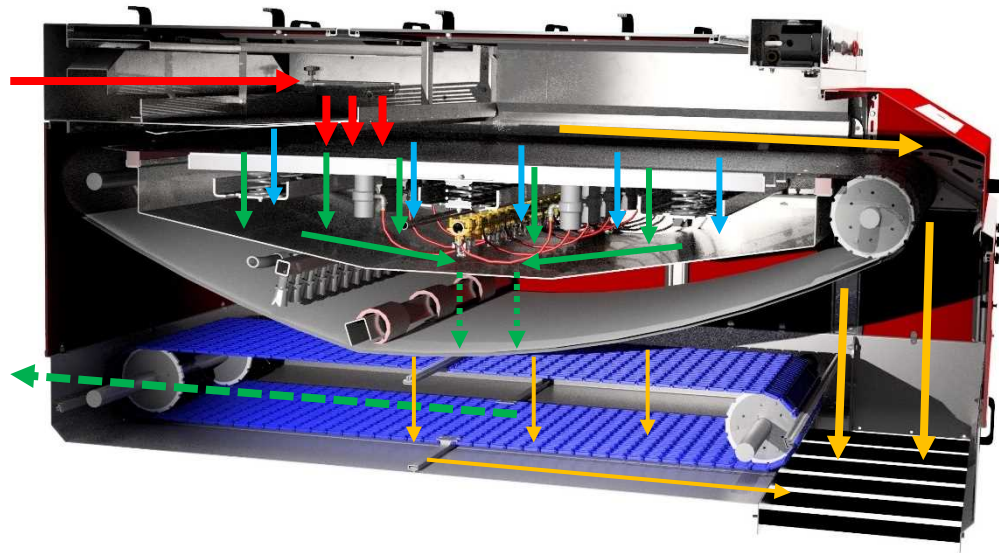
## OEM's

The best performance may be achieved with the PureCube in combination with other processing equipment in front or after. Hence, the PureCube® is available for OEM's to integrate in their own product portfolios.

# HOW IT WORKS



- Solids/liquid mixture
- Dried solids
- Filtered liquid
- Vacuum air (ambient air)



## Technical specifications

Specification	SI Units	Imperial units	Note
Model	Cube PN10000		
Length/Width/Height	2716 / 2171 / 1803 mm	106.9 / 84.3 / 71.0 in	
Weight dry (Min – Max)	1900 - 2000 kg (+/-5%)	4189 - 4409 lb (+/-5%)	1
Ambient temperature	-20 – 50 °C	- 4 – 122 F	
Process flow temperature	0 – 55 °C	32 – 131 F	
Standard filter belt (screen) mesh sizes	Ranging from 45 µm (API 325) up to 850 µm (API 20)		2
Pressure rating	Atmospheric		
Vacuum flow rate	1100 m <sup>3</sup> /h @ 50 Hz	647 cfm @ 50 Hz	3.1
	800 m <sup>3</sup> /h @ 50 Hz	470 cfm @ 50 Hz	3.2
El. power requirement	380-480VAC, 50/60Hz, 14,5 kW	380-480VAC, 50/60Hz, 19.5 hp	4.1
	380-480VAC, 50/60Hz, 11 kW	380-480VAC, 50/60Hz, 15 hp	4.2
Body material	SS 316 L		
Active filtration area	2,68 m <sup>2</sup>	28.8ft <sup>2</sup>	
Structural Vibration	Negligible		
Noise level	max 73 dBA		5
Interfaces	See General Arrangement		
Water knife	75 l/min @ 4 bar	17 gal/min @ 58 psi	6
Comp. air req.- Air knife periodically	4,5 Nm <sup>3</sup> /min @ 4 barg	159 cfm @ 58 psi	6

### Notes:

1	Weight on unit depending on version and optional equipment
2	Other mesh sizes are available on request.
3.1	For units with CL98/1 vacuum unit
3.2	For units with CL72/1 vacuum unit
4.1	For units with CL98/1 vacuum unit
4.2	For units with CL72/1 vacuum unit
5	Noise level measured with a silencer mounted on the exhaust outlet and 4 barg on the air supply for vibrators, following ISO9614-2:1996 standards.
6	Optional equipment

# Words from our clients

*"The PureCube is our main piece of machinery in our tailing pond cleanup operations, working 24-7 with minimal consumption of filterbelts and polymers."*

Brad Banister,  
President,  
New Tech Solids - Canada

*"It's pure beach sand coming out of the PureCube in our DPI (Direct Pipe Insert drilling) operations. No other equipment we know of comes even close to its performance."*

Darron Krause,  
VP of Product Development,  
APEX site rentals - Canada

*"Savings in chemicals and waste hauling costs justifies the investment in the PureCube."*

David Brunton,  
Managing Director,  
Hadlee & Brunton, New Zealand

Cubility has years of operational experience with multiple customers in different geographies and under various conditions





**We strive to make a difference to our customers by the products we deliver and the service we provide.**



# THIS IS CUBILITY

Cubility AS is based in Sandnes, Norway. Cubility's products are distributed globally through a growing 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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## Worldwide presence



## Cubility office location

● HQ – Sandnes, Norway    ● Regional offices – Santiago, Chile

## ● Distribution partner network

Europe – Canada – USA – Chile – Brazil – Colombia – Argentina – GCC – China – India – Singapore – Australia



