

# Mobile Biosolids Dewatering Unit #24



Designed to dewater all types of:

- » industrial & municipal sludges
- » primary sludges (from DAF or clarifier)
- » secondary sludges (aerobic, anaerobic, WAS)
- » clay & mud-based sludges (construction, excavation)
- » greasy sludges (grease-trap, rendering)
- » high-pH sludges (lime based, metal hydroxide)

Outputs:

- » up to 85% reduction in sludge volume
- » 15–50% solids for primary/clay/inorganic sludges
- » 15–22% solids for secondary sludges
- » high solids capture rate (>95%)
- » high filtrate quality (<400 mg/L susp. solids)

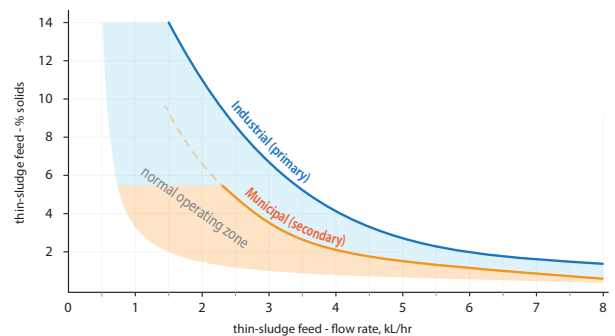
Advantages include:

- » simple & quick plug-n-play setup
- » easy to operate
- » can operate unattended
- » remote log-in to control panel
- » very low noise level (whisper quiet)
- » very low power consumption (<3 kWh)
- » minimal water usage (<500 L/hr)
- » low polymer consumption (2–15 kg effective polymer/tonne dry solids)
- » multiple doors for easy access & operation
- » metallic floor & drainage for easy clean

Requirements:

- » flat surface  $\approx 8 \times 5$  metres (for 20 foot container)
- » floor loading capacity  $\approx 8,000$  kg
- » potable water  $\approx 500$  L/hr
- » 3-phase power  $\approx$  max. draw up to 36 Amps (connect via containers 50 Amp 5-pin inlet socket)
- » ability to remove spadable sludge
- » somewhere to drain or pump the supernatant

Can process up to 200 kgs dry solids/hour (dependent on sludge type & flow) and operate at flow rates to 8,000 L/hr.



System includes:

- HUBER Screw Press Q-PRESS<sup>®</sup> 440
- Thin-sludge feed pump to screw press (800–8,000 L/hr)
- Automatic emulsion polymer preparation unit
- Flow-paced (50–300 L/hr) prepared polymer dosing pump
- Valmet microwave-based thin-sludge solids meter
- HUBER inline sludge/prepared-polymer mixing unit
- Potable (mains) water booster pump
- Supernatant (sump) pump
- Interior lighting, exhaust fan
- Air compressor, retractable water hose
- Container-wide channel-and-grate drainage
- Remote log-in and operation (via mobile network)
- Monitor/recording of power usage, potable water lines, prepared polymer & thin-sludge flows (with totalisers)
- Additional 1-phase 15 Amp power outlet
- Additional 2 x 1-phase 10 Amp power outlets
- 3-metre conveyor to move dewatered sludge

Optional:

- 10 kL conical-bottom sludge feed tank with level sensor
- Pontoon, submersible dam sludge pump & pipework
- Thin-sludge grinder (Vogelsang XRipper XRP100-90Q), reduce entangled, fibrous, textile, sanitary items etc.
- Reverse osmosis unit for potable water improvement

For more information, give us a call on 1300 417 697