



Manvers Engineering Ltd.
Specialists in separation



MUDTECH LIMITED
GEOTECHNICAL FLUID SYSTEMS

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WASTEWATER SLUDGE TREATMENT
CENTRIPOD

CentriPod

Designed to meet the growing needs for water clarification and solids dewatering in the extractive industries, **CentriPod** system comes in two specially designed containers enabling easy transport and installation and can be operational within few hours from arrival on site, providing that all services are available.

The system incorporates the expertise and technologies of three leading companies:

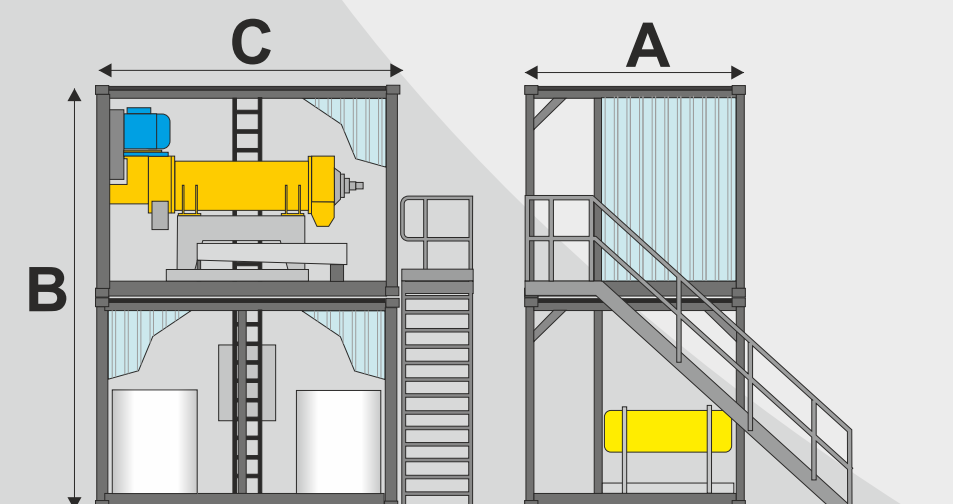
- **Environment Division** of Baioni Crushing Plants SpA.
- **Manvers Engineering Ltd.**
- **Mudtech Ltd.**

The three companies have agreed a joint venture for the production of the **CentriPod centrifuge system** to be manufactured in the Baioni works in Italy, using the latest manufacturing techniques. The system uses the Baioni high performance centrifuge decanter *BaiDec*, together with the Manvers operator friendly *touch screen control panel*, allowing the operator to visually see all processes in operation.

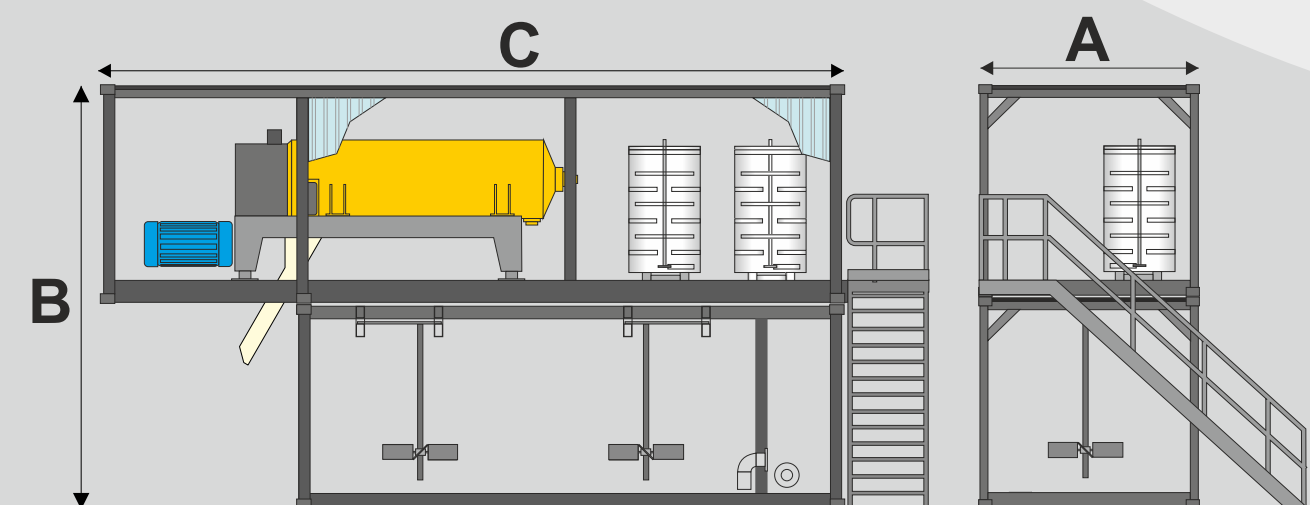
The system comes with its own integrated tanks polymer unit, allowing infinite control of flocculent dosing and the operator to deal with a wide range of sludges. Occupying a small footprint this *plug and play system* can be delivered and up and running a few hours later. It will suit any application for which a centrifuge may be required.



Technical Specifications and Dimensions



CentriPod 36L or 47L



CentriPod 65L

Model	Working Dimensions A-B-C (mt)	Installed Power (kW)	Maximum Solid Output (t/h)
CentriPod 36L	2,8x5,6x5,6	50	3,5
CentriPod 47L	2,8x5,6x5,6	75	8
CentriPod 65L	2,8x9,6x5,4	110	18

Control Panel

The control panel has the latest touch screen control with full graphic display of the continua's process, enabling the operator to control every function of the process from the screen.

Built with the operator in mind, the controls could not be simpler. The touch screen enables instant control of bowl speed, feed pump and polymer dosing, right where the centrate and solids discharge are produced. This allows the optimum mix to be achieved quickly on start up.

Polymer Preparation System

The polymer dosing and mixing system mounted on **CentriPod centrifuge system** is available in two versions:

1. manual for liquid polymer.
2. automatic for dry polymer.

Manual control when using liquid polymer, **the 2-pot version** allows for a quick charge of flocculant concentration, mainly useful when infeed materials change in nature. The inverter controlled polymer pump allows to pump from 0 to 2 m³/h.

Automatic control when using dry polymer (powdered), **the 3-tank system** allows for the correct concentration of the flocculants to be set up and flow automatically, mainly used with aggregate and recycling plants when feed materials are more constant. The flow again is controlled by inverter operated pump allowing from 25 to 4 m³/h.



main control panel



auxiliary control panel



exhaust pipe for centrate



centrate discharge chute





feed pump



flow meter



quick connections



polymer pump

Standard Features

CentriPod centrifuge system comes in two purpose made containers, one housing the BaiDec decanter and one housing the polymer dosing unit.

- **Centrifuge** - Baioni decanter BaiDec 36L, 47L or 65L high performance model.
- **Feed pump** - fitted in its own built cradle it is suited for any application. The pump is a well known industry standard Warman centrifugal type.
- **Control panel** - a 15-inch touch screen control with full graphic display allowing complete visual control of centrifuge speeds, flow of feed pump and polymer pump ranging from 0 to 2 m³ p/hour.
- **Flow meters** - Siemens flow meters are fitted in line for the feed pump delivery and for the polymer pump delivery. Both flow meters can be easily read from the control panel screen or the actual flow meter display.
- **Polymer dosing system** - available in two versions: manual or automatic.
- **Quick connections** - arranged on the outside of the container units, this enables easy connection of all services, sludge supply, electric water.
- **Hydraulic system** - available on the 36L and 47L the hydraulic platform extends for operation and retracts for transport. This does not apply to the 65L model which has a different configuration.
- **Cameras** - installed above the two polymer pots.
- **Lighting system**

External Connections

- Mains water supply
- Electrics supply
- Sludge silt feed

Options

- Non-standard paint finish available.

Application Fields

Engineering excellence drawing from combined experience of industries and activities including:

- sand and gravel production.
- contaminated land remediation.
- tunneling with associated slurry treatment techniques.
- quarrying, mining and recycling.
- large and small civil engineering projects worldwide.
- pipeline projects in difficult conditions.
- river crossing and work near sensitive environmental receptors.
- soil washing.

CentriPod advantages:

- Low capital outlay.
- Low maintenance costs.
- Minimal operator attendance.
- No big installation costs.
- Fast set up on site.
- Small footprint.
- Easy to transport.



hydraulic pump



CCTV camera



solids discharge

