

**LINATEX**

# COMPACT

TM



Introducing the new range of compact sand plants from **LINATEX**

## Philosophy

Rapid deployment portable single grade sand washing, dewatering & twin grade classification systems designed for minimum installation time.



### Compact - Washing & Dewatering , Fines Recovery and Correction

The range of 3 washing & dewatering Linatex Compacts are designed for feed rates of up to 150 tph of -6mm as "raised material" and to produce a single grade washed product, dewatered and suitable for direct stockpiling.

The standard Compact is configured to perform simple washing ie the reduction of -63 micron material. Typical applications would be the in processing of primary products such as construction sands for concrete, building, mortars, asphalt etc, industrial sands & leisure sand dressings.

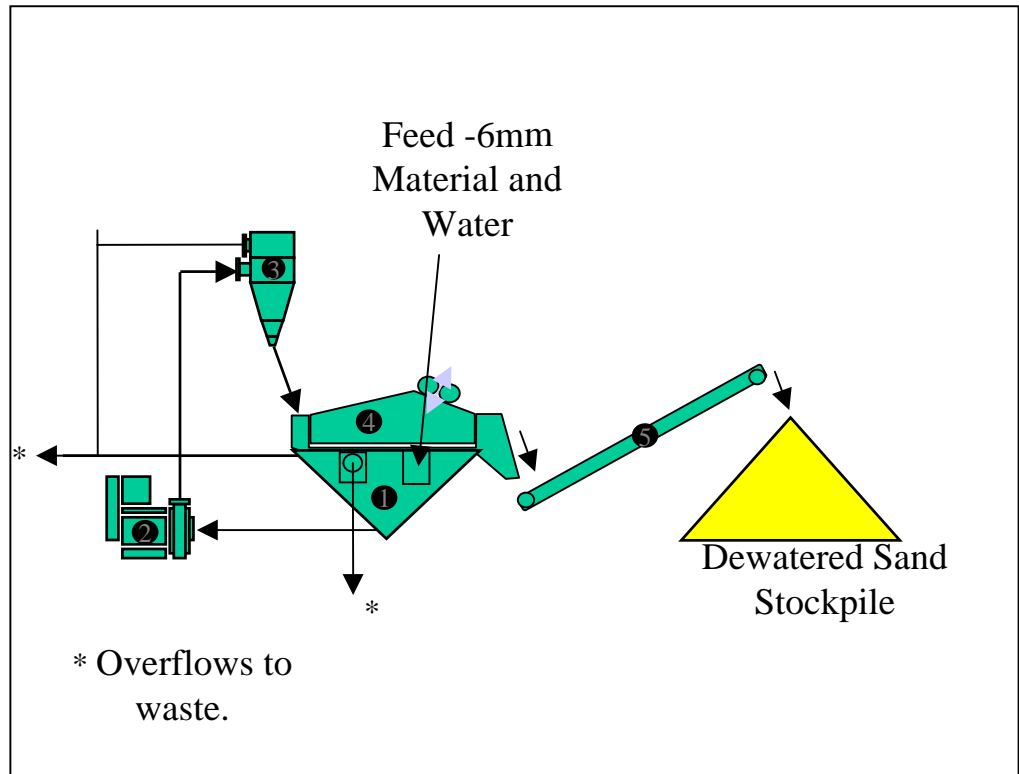
The Compact can be configured for fines recovery, ie maximum recovery down to 50 micron to effect the capture of useful material from effluent streams or de-gritting of effluent to reduce loading on effluent treatment plant such as thickeners.

A third configuration offers fine classification below for example 125 micron. Typical applications would be for the correction of fines content in sand in order to meet a specific grading requirement.



## Process Description

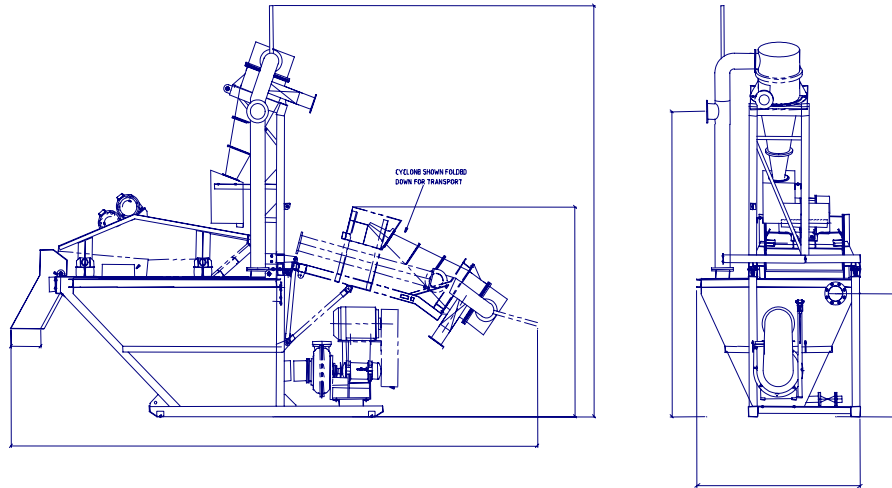
### Compact 60, 100 & 150 (Single grade units)



1. Feed material (pre-screened to -6mm) is introduced into the distribution box of the sump unit (item 1) along with the associated feed water.
2. The Linatex centrifugal slurry pump (item 2) draws from the sump and delivers the process slurry to the Linatex Hydrocyclone (item 3) where excess fines are rejected to waste.
3. The clean washed sand is discharged to the dewatering screen (item 4) where all free moisture is removed and is presented via a discharge chute to a conveyer unit (item 5) for stockpiling.

## Technical Data

### COMPACT 60



#### General Dimensions

Overall Length - Erected 5500mm

Folded 7500mm

Overall Height - Erected 5300mm

Folded 3300mm

Overall Width - 2600mm

Weight (empty) - 6000kg

Weight (Max) - 26000kg

#### Power Requirements

Pump unit - 15kW

Dewatering Screen - 2 x 1.9kW

#### Capacity

Suitable for feeds up to 60tph of -6mm (maximum) material (SG2.7). Maximum water associated with feed 165 m<sup>3</sup>/hr (600gpm).

#### Equipment Specifications

Integrated sump/ underpan unit with automatic level control. Designed to provide excellent feed distribution and mixing of the raw feed with the process water and to provide constant head conditions for the pump unit. Design incorporates folding feature for ease of transport/ relocation.

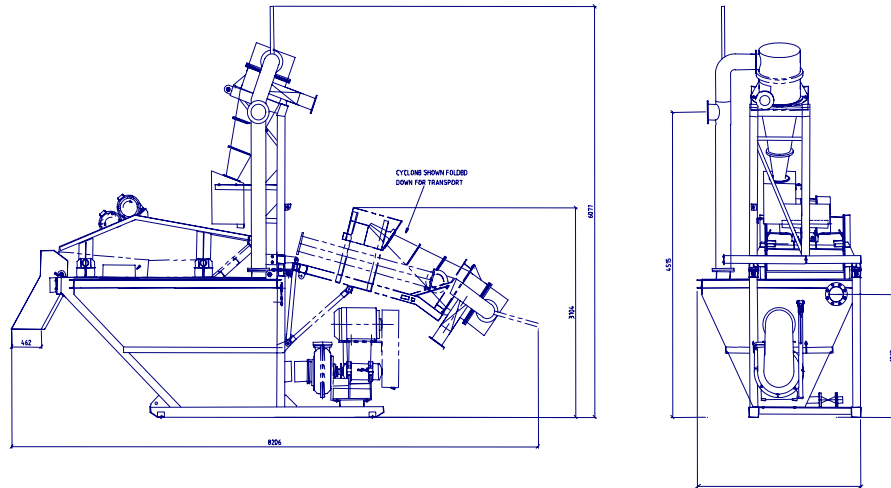
Linatex 150/125 Linapump IIIr Centrifugal Slurry Pump unit, with Linatex abrasion resistant linings.

Linatex 518 Hydrocyclone - The standard Compact configuration is for classification at approx 75 micron for removal of fine clays, organics etc. Linatex abrasion resistant linings and spigot access for ease of servicing.

Linatex Velco VD9 Dewatering Screen - A unique design reverse slope linear motion vibrating screen for high dewatering efficiency.

## Technical Data

### COMPACT 100



#### General Dimensions

Overall Length - Erected 6100mm

Folded 8200mm

Overall Height - Erected 6100mm

Folded 3300mm

Overall Width - 2600mm

Weight (empty) - 7500kg

Weight (Max) - 28000kg

#### Power Requirements

Pump unit - 22kW

Dewatering Screen - 2 x 4kW

#### Capacity

Suitable for feeds up to 100tph of -6mm (maximum) material (SG2.7).

Maximum water associated with feed 245 m<sup>3</sup>/hr (900gpm).

#### Equipment Specifications

Integrated sump/ underpan unit with automatic level control. Designed to provide excellent feed distribution and mixing of the raw feed with the process water and to provide constant head conditions for the pump unit. Design incorporates folding feature for ease of transport/ relocation.

Linatex 200/150 Linapump IIIr Centrifugal Slurry Pump unit, with Linatex abrasion resistant linings.

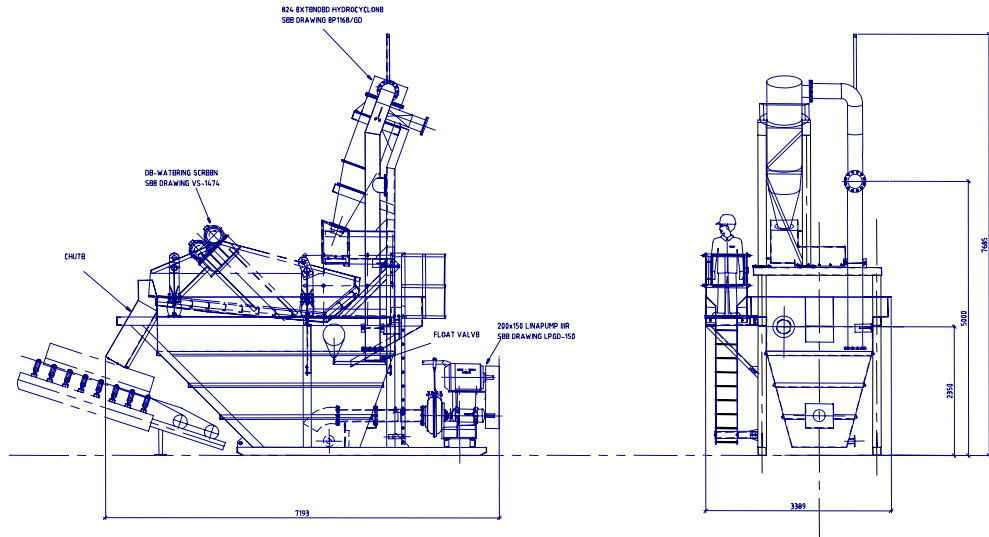
Linatex 624 Hydrocyclone - The standard Compact configuration is for classification at approx 75 micron for removal of fine clays, organics etc. Linatex abrasion resistant linings and spigot access for ease of servicing.

Linatex Velco VD12 Dewatering Screen - A unique design reverse slope linear motion vibrating screen for high dewatering efficiency.



## Technical Data

### COMPACT 150



#### General Dimensions

Overall Length - 7200mm

Overall Height - 7700mm

Overall Width - 3400mm

Weight (empty) - 9000kg

Weight (Max) - 23500kg

(Dimensions shown are as erected, unit dismantles for transport see picture p2)

#### Power Requirements

Pump unit - 37kW

Dewatering Screen - 2 x 5.1kW

#### Capacity

Suitable for feeds up to 150tph of -6mm (maximum) material (SG2.7).  
Maximum water associated with feed 408m<sup>3</sup>/hr (1500gpm).

#### Equipment Specifications

Integrated sump/ underpan unit with automatic level control. Designed to provide excellent feed distribution and mixing of the raw feed with the process water and to provide constant head conditions for the pump unit. Modular design to facilitate ease of transport, installation, & relocation.

Linatex 200/150 Linapump IIIr Centrifugal Slurry Pump unit, with Linatex abrasion resistant linings.

Linatex 824 Hydrocyclone - The standard Compact configuration is for classification at approx 75 micron for removal of fines, clays, organics etc. Linatex abrasion resistant linings and spigot access for ease of servicing.

Linatex Velco VD15 Dewatering Screen - Unique reverse slope linear motion vibrating screen for high dewatering efficiency

**Assembly**



## Compact Split Twin

Designed to accept a twin feed from the aggregate sizing screens, for example -5 & -3mm sand fractions. The Compact Split Twin enables adjustment of the product specifications by enabling manual blending of the fine fraction to the coarse.

The unit is fitted with a Linatex VD9 Dewatering Screen fitted with adjustable division plate for discharge to two stacking conveyors.



## Compact Multi Blend



The Multi Blend unit is a compact version of Linatex In-line blending technology.

The New Linatex X-Type Classifier splits the feed sand into three discrete fractions then using PLC control enables the user to proportionally re-blend these fractions to achieve the desired product specification.

The Multi Blend is designed to accept either a twin feed from the aggregate sizing screens, for example -5 & -3mm sand fractions, or a single feed, the classifier then providing the coarse/ medium fraction differentiation.

The unit minimises water usage by re-cycling of process water for use as upcurrent in the X-Type Classifier.

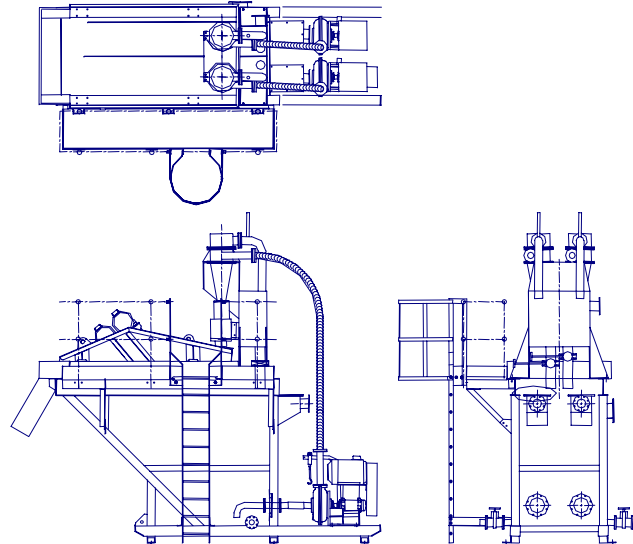


**As demonstrated on the access ramp, stand B17**



## Technical Data

### COMPACT SPLIT TWIN



#### General Dimensions

Overall Length - 5500mm

Overall Height - 4900mm

Overall Width - 2600mm

Weight (empty) - 6500kg

Weight (Max) - 26000kg

#### Power Requirements

Coarse Sand Pump unit - 15kW Dewatering Screen - 2 x 1.9kW

#### Capacity

Suitable for feeds up to 40tph of -6mm (maximum) material (SG2.7).  
Maximum water associated with feed 165 m<sup>3</sup>/hr (600gpm).

#### Equipment Specifications

- 2 x Linatex 80/80 Linapump IIIr Centrifugal Slurry Pump unit, with Linatex abrasion resistant linings.
- 2 x Linatex 415 Hydrocyclone - The standard compact is configuration is for classification at approx 75 micron for removal of fine clays, organics etc. Linatex abrasion resistant linings and spigot access for ease of servicing.
- Linatex Velco VD9 Dewatering Screen - Fitted with adjustable division plate.

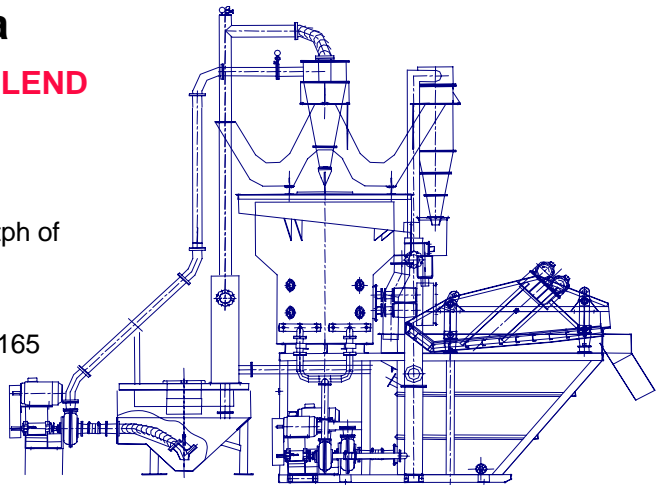
## Technical Data

### COMPACT MULTIBLEND

#### Capacity

Suitable for feeds up to 120tph of  
-6mm (maximum) material  
(SG2.7).

Water associated with feed 165  
m<sup>3</sup>/hr (600gpm)-310 m<sup>3</sup>/hr  
(1140gpm).



#### General Dimensions (configuration shown)

Overall Length - 9700mm

Overall Width - 4150mm

Overall Height - 9300mm

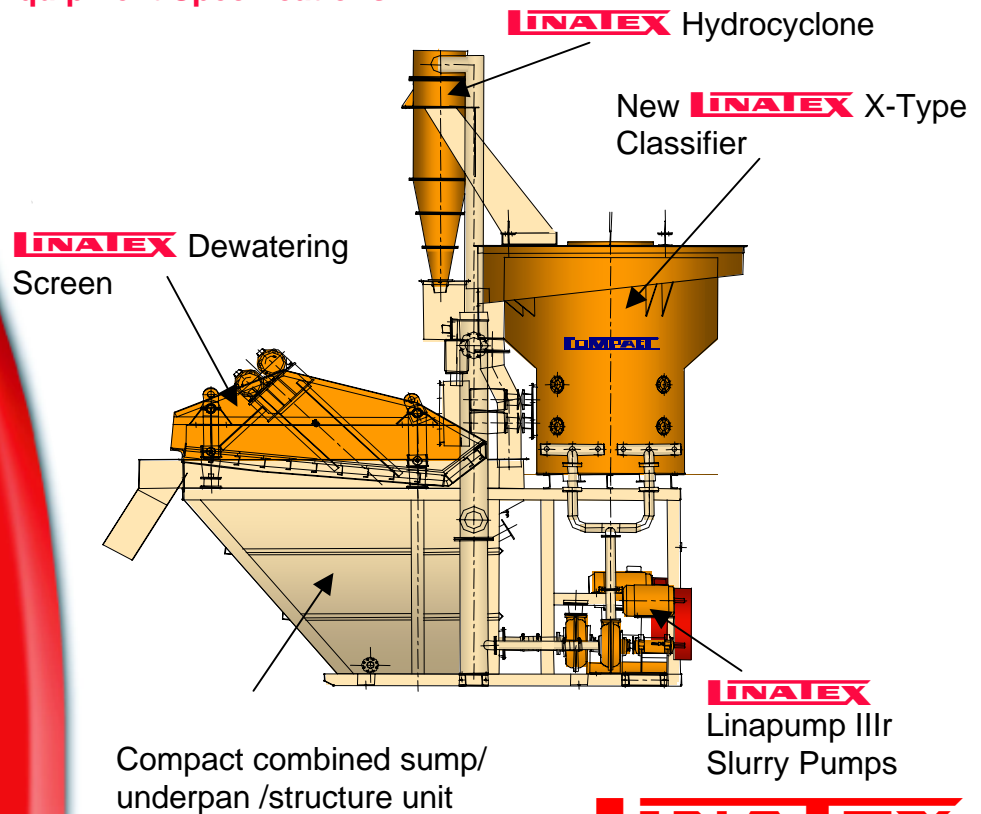
Weight (empty) -14000kg

Weight (Max) - 64000kg

#### Configuration

The Multi Blend can be configured to accept various feed arrangements from a single low level feed (shown above) to twin classified feeds direct to the X-type Classifier (below).

#### Equipment Specifications



## Advantages - Compact Range

### Exceptional Washing Capability

High 'g' centrifugal separation combined with attrition ensures that unwanted fines material adhered to the product material is liberated for disposal to waste.

### Rapid product Availability

The **LINATEX** Velco Dewatering Screens unique reverse slope design ensures maximum moisture removal from the product allowing for faster use of stockpiled material.

Final products of 12-15% moisture by weight are typical.

### Low maintenance

Few moving parts means simple & minimal maintenance

### Unrivalled though life cost advantage .

By control of wear using intelligent design & the use of **LINATEX** natural rubber linings for superior abrasion resistance, Linatex Plant & equipment outlasts the depreciation period and delivers very low running and maintenance cost throughout its life

### Rapid deployment & Retrieval

When used in conjunction with a mobile stocking conveyor the compacts can be installed ready for connection of services in as little as an hour.

### Applications

Sand processing,  
Construction recycling,  
Effluent treatment/ Fines recovery,  
Dust processing (Hard Rock),

## Interested?

To enable **LINATEX** to assess your application and the suitability of our compact range for your requirements, please provide us either with a sample or particle size distribution analysis of the material to be treated along with your end product requirements.

We can be contacted at:-

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#### Note :

Dimensions and weights are estimated and are subject to confirmation.

Capacities are based on material SG of 2.65 and are subject to confirmation on submission of feed & required product particle size distribution.