



USED SAND TREATMENT PLANT PRODUCTION OF SINGLE GRADE SAND

MAKE: SOTRES

YEAR: 2009

PRODUCTS TO BE PROCESSED

Treatment of a maximum of **80 t/h** of sand

GUARANTEES

- maximum sand capacity : **80 t/h**
- maximum pulp capacity : **250 m³/h**

PYRAMIDAL PUMP TANK

- one main pump tank welded construction thickness **5 mm**
- dimension: **3700 x 2200 mm ; 2300 mm** height
- one support frame base also used as pump support bolted with the tank
- lower steel support frame to facilitate discharge to product conveyors
- a quick opening manhole **600 x 400 mm** on the side of the tank
- one float valve unit for maintaining the tank level with rubberised steel valve arm and float
- one discharge gate at the tank bottom **DN200**
- one suction pipe welded on the tank

SAND PUMP UNIT

- one centrifugal sand pump type **SCHABEVER C150 E** with
 - cast iron casing in two parts
 - suction and gland side lining anti-abrasion natural rubber
 - closed impeller anti-abrasion natural rubber
 - expeller proofing system
- one adjustable motor support mounted on the pump frame
- one motor: **30 kW ; 1500 rpm ; 400 V ; 50 Hz ; IP55**
- one transmission by **SPB** pulleys type **VECOBLOC ; V** belts
- one protective cover of the transmission
- removable suction pipe **DN200** with rubber joint
- one rubberised suction cone **DN200/150**
- one rubberised forcing cone **DN125/80/150** with emptying valve **DN80**
- one rubberised elbow **DN150/90°** at the delivery pipe
- one anti-abrasion armoured rubber forcing pipe **DN150 ; 6 meters** length
- two special aluminium flange **DN150** for armoured rubber pipe

CYCLONE UNIT

- one cyclone unit type **HL675** including
- the rubber lined cylindrical body with rectangular tangential entry
- one removable rubberised threshold bolted on the cylindrical body for adjustment of the feed pressure
- one feeding sleeve of the cylindrical body with insulation valve and manometer **0/3 bars** for control of the working pressure
- one rubberised overflow pipe and the throughout elbow collecting the waste water
- three bolt assembled cone
- one rubberised underflow cone
- one rubber underflow nozzle apex for sand extraction control
- All the cyclone parts are rubber lined with anti-abrasion rubber 10 and 20 mm thickness
- the overflow tank collecting the waste water used as cyclone support with
 - one outlet flange for maintaining the tank level
 - one main outlet flange for the waste water throughout
- one support for the cyclone with flange

The cyclone is calculated for a separation size **d50= 50 microns**

DEWATERER UNIT

One vibrating dewatering screen **N°5** consisting of

- one bottom frame supporting the dewatering sieves
- two ribbed sides bolted on the bottom frame with spring supports
- one back vertical frame for fixing the vertical sieves
- one ribbed beam bolted with the sides supporting the vibrating motors
- one rubber lined articulated threshold at the dewatering screen chute thickness **10 mm**
- one set of **10** helicoidally springs
- one back protection and one cover protection against water projection

DRAINING DECK

- dimensions: **1250 x 3400 mm**
- area: **4.25 m2**

SAND DRAINING CORRIDOR: **0/5 mm**

- **5** polyurethane bottom sieves **1250 x 680 mm ; 0.6 x 12 mm** slots
- **1** polyurethane vertical sieve **1250 x 410 mm ; 0.75 x 118 mm** slots

VIBRATING MOTORS

- two vibrating motors type **N300/4** with adjustable flyweight and legible scale - power: **2 x 4 kW ; 1500 rpm ; 400V ; 50 Hz ; IP55**



OTHER SUPPLIES

- upper frame supporting the dewatering screen **N°5** and the cyclone **HL550** on the tank
- walkways module with handrails around the dewatering screen **N°5** cover with galvanised stamped grating
- access stair to the dewatering and cyclone with anti-skid steps **700 mm** width and protection handrails
- support for vibrating motors wiring
- one rubber lined chute at the sand discharge
- one rubber lined feeding bolted on the tank for inlet pipe sand 0/4m

PROTECTIONS

SHOT-BLASTING

- all the parts are shot-blasted **SA 2.5**

STANDARD PAINTING

- one rust preventing agent coat
- two coats of synthetic enamel : **100 microns**
- Colour Green

GALVANIZING

- bottom frame of the tank, support frame of the dewatering screen and cyclone, dewatering screen, walkways, handrails, stairs and steps are galvanised

Price: Available on Request. Sold as seen. Ex Site.

Condition: Used

Status: Ready for shipping

Information: Available Ex Stock, subject to remaining unsold.

Full terms and conditions are available on requested or via our website.



**USED SAND TREATMENT PLANT
PRODUCTION OF SINGLE GRADE SAND**



North Dean Engineering Ltd, Units 1 & 2 Hillcrest, Brow Mills Industrial Estate, Hipperholme, Halifax, HX3 8EF

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