



imachinery
FOR HEAVY EQUIPMENT & SERVICES



Vision

To be clearly recognized as our industry's leading solution provider in maximizing our customer's growth, by understanding their needs, always obtaining the reliable operating nucleus.

Mission

We are in business to help our customers grow. Our efforts will focus on fully understanding and exceeding their expectations. We care every employee's and shareholder's wellbeing.

CORPORATE VALUES

- To be the industry leader in slurry treatment , environmental solutions and safety.
- To be recognized as the number one equipment choice for critical slurry treatment work.

GOALS

- To provide our employees with a fun, safe, and challenging work experience where everyone has the ability to succeed.
- To contribute to the communities and strive to improve the environment everywhere we operate.



**EXPLORE
OUR RANGE**

DEEP INNOVATORS SINCE 1986



THE WIDEST RANGE

**FOUNDATION
EQUIPMENT**

**PILING
EQUIPMENT**

**EXPLORATION
DRILLING EQUIPMENT**

**GEO THERMAL
EQUIPMENT**

**GEOTECHNICAL
EQUIPMENT**

**WATER WELL
EQUIPMENT**

COSTUMER- FOCUSED APPROACH & COSTUMIZED SOLUTIONS

Tailor-made to suit specific needs and solve jobsite problems.

PASSION FOR INNOVATION & DRILLING TECHNOLOGY

Innovation and continuous technological investment to improve production process, making worker's job easier.

AFTER SALES SERVICE TRAINING & SUPPORT

Continuous support for training and assistance to all customers in every part of the world, taking quick action and minimizing downtime.

SPARE PARTS

A team of specialists provides genuine components of certified quality that guarantee the durability and reliability over time of all our drilling rigs.

QUALITY

Precise selection of components creating a product that is reliable, safe and in line with European Directives.

KEY



**ENGINE
POWER**



WEIGHT



**LIFTING
CAPACITY**



**EXCAVATOR
CLASS**



CLAMPS

PIILING

MULTIPURPOSE RIGS



CH 150

 **54 kW / 73 HP**

 **15 t**



CH 300

 **142 kW / 190 HP**

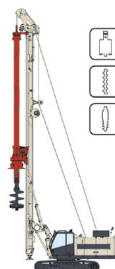
 **30 t**



CH 320

 **142 kW / 190 HP**

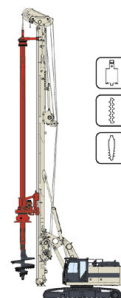
 **32 t**



CH 450

 **209 kW / 284 HP**

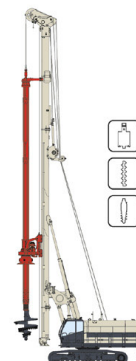
 **45 t**



CH 650

 **261 kW / 350 HP**

 **65 t**



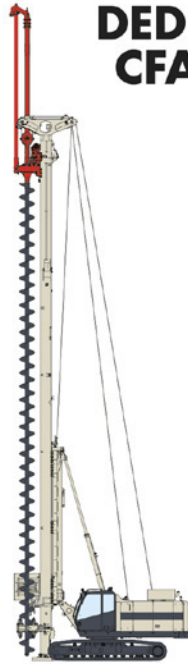
CH 850

 **405 kW / 543 HP**

 **85 t**



DEDICATED CFA RIGS

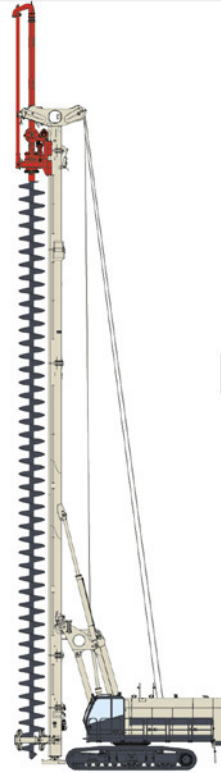


CHF 500

 **231 kW / 310 HP**



50 t



CHF 900

 **405 kW / 543 HP**



86 t

CH RANGE TECHNOLOGIES



KP
(Kelly Piles)



DP
(Displacement Piles)



LDTH
(Large DTH)



CFA
(Continuous Flight Auger)



SM
(Soil Mixing)

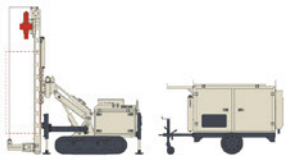


MP
(Micropiles)

FOUNDATIONS



REMOTE POWER PACK



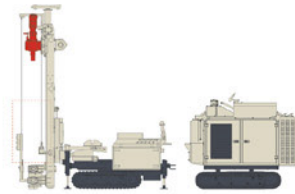
MC 2D



33 kW / 44 HP



2 + 1 t
(RIG + POWER PACK)



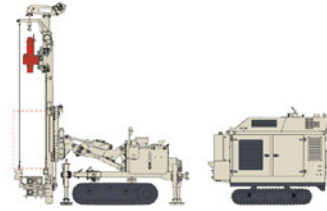
MC 3D



33 - 55 kW
44 - 74 HP



3 + 2 t
(RIG + POWER PACK)



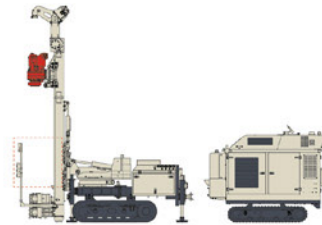
MC 4D



55 - 100 kW
74 - 134 HP



5 + 3 t
(RIG + POWER PACK)



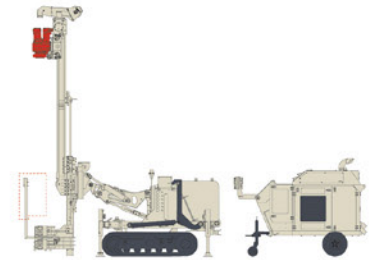
MC 5D



86 - 100 kW
115 - 134 HP



6 + 3 t
(RIG + POWER PACK)



MC 8D



97 kW / 130 HP

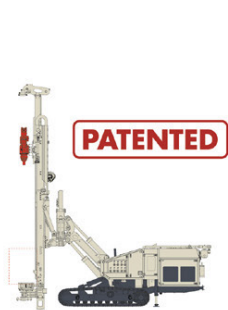


9,5
(RIG + POWER PACK)

FOUNDATIONS



FULLY ARTICULATED MULTIPURPOSE

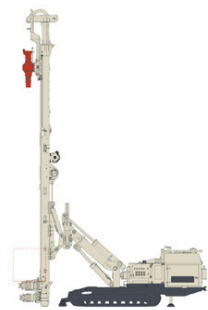


PATENTED

MC 14

 **140 kW / 188 HP**

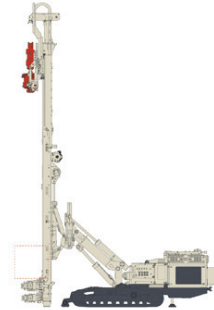
 **15 t**



MC 15

 **119 - 140 kW**
160 - 188 HP

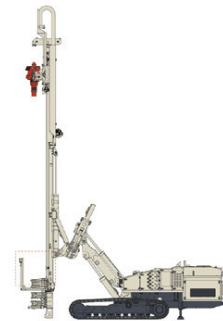
 **17 t**



MC 15P

 **168 kW / 225 HP**

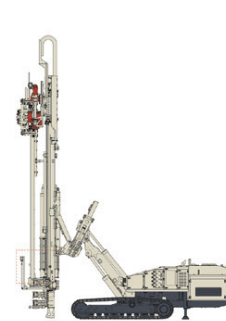
 **18 t**



MC 20

 **209 kW / 280 HP**

 **22 t**



MC 20A

 **209 kW / 280 HP**

 **23 t**



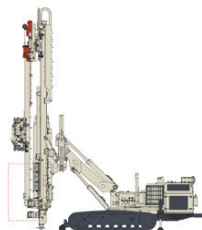
MC 22

 **147 - 168 kW**
197 - 225 HP

 **24 t**



FULLY ARTICULATED MULTIPURPOSE



MC 22A



147 - 168 kW
197 - 225 HP



25 t



MC 28



188 - 245 kW
252 - 333 HP



27 t



MC 28 HD



225 kW / 302 HP



28 t

TUNNELING



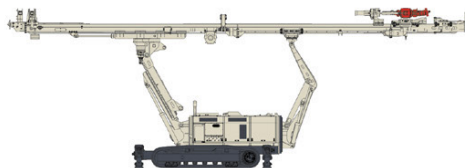
MC 28A HD



225 kW / 302 HP



29 t



MC 30 TX



147 - 160 kW
197 - 214 HP

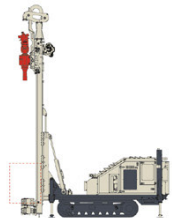


30 t

GEOTECHNICS

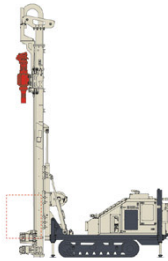


CRAWLER MOUNTED



GEO 601

	6.500 daN 14,612 lbs
	86 - 100 kW 115 - 134 HP
	9 t



GEO 602

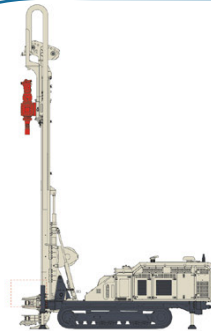
	9.500 daN 21,357 lbs
	115 - 119 kW 154 - 160 HP
	11,5 t



GEO 700

	15.000 daN 33,721 lbs
	129 kW / 173 HP
	16 t

AUTOMATIC DYNAMIC PENETROMETER



GEO 900

	15.000 - 20.000 daN 33,721 - 44,962 lbs
	126 - 160 kW 169 - 214 HP
	19 t



GEO 901

	20.000 - 30.000 daN 44,962 - 67,443 lbs
	188 - 209 kW 252 - 285 HP
	22 t

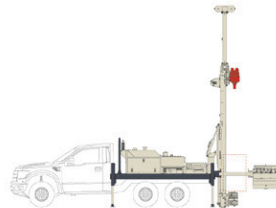


GEO PC

	2.500 daN 5,620 lbs
	17 kW / 23 HP
	1,2 t




TRUCK MOUNTED

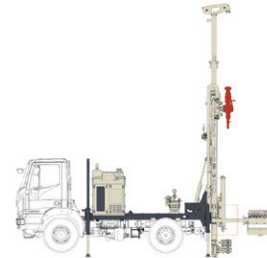


GEO-T 3

 **2.500 daN**
5,620 lbs

 **33 kW / 44 HP**

 **3 t**



GEO-T 5

 **5.000 daN**
11,240 lbs

 **55,4 kW / 75 HP**

 **5 t**

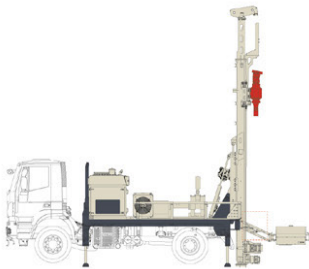


GEO-T 7

 **6.500 daN**
14,613 lbs

 **55 - 100 kW**
74 - 134 HP

 **8 t**

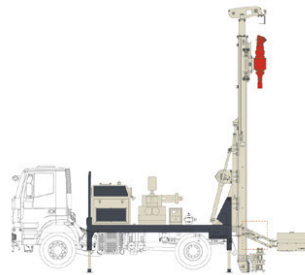


GEO-T 10

 **9.500 daN**
21,357 lbs

 **119 - 129 kW**
160 - 174 HP

 **10 t**



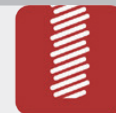
GEO-T 15

 **15.000 daN**
33,721 lbs

 **147- 168 kW**
197- 225 HP

 **15 t**

WATER WELL & GEOTHERMAL

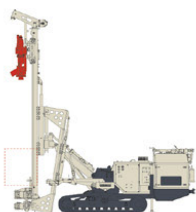


SINGLE HEAD



GEO 405

	6.500 daN 14,612 lbs
	55 - 74 kW 74 - 99 HP
	7 t



GEO 500

	6.500 daN 14,612 lbs
	55 kW / 74 HP
	9,5 t



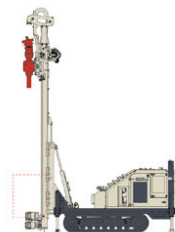
GEO 501

	6.500 daN 14,612 lbs
	100 kW / 134 HP
	12 t



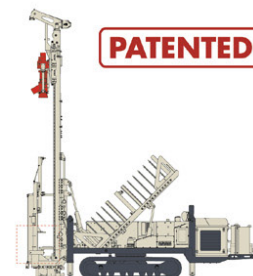
GEO 600

	6.500 daN 14,612 lbs
	55 - 74 kW 74 - 99 HP
	8 t



GEO 601

	6.500 daN 14,612 lbs
	86 - 100 kW 115 - 134 HP
	9 t



GEO 601A

	6.500 daN 14,612 lbs
	100 kW / 134 HP
	11 t

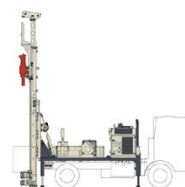


TRUCK MOUNTED



CA 3550

 **50.000 daN**
112,400 lbs
 **285 kW / 385 HP**
 **35 t**



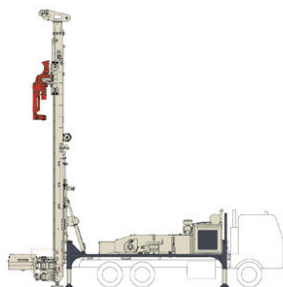
CA-T 10

 **9.500 daN**
21,357 lbs
 **119 - 142 kW**
160 - 193 HP
 **9 t**



CA-T 15

 **15.000 daN**
33,721 lbs
 **147 - 168 kW**
197 - 225 HP
 **12 t**



CA-T 20

 **20.000 daN**
44,962 lbs
 **205 - 245 kW**
278 - 333 HP
 **18 t**



CA-T 30

 **30.000 daN**
67,443 lbs
 **205 - 245 kW**
278 - 333 HP
 **19 t**



CA-T 50

 **50.000 daN**
112,400 lbs
 **205 - 245 kW**
278 - 333 HP
 **25 t**



VIBROFLOT EQUIPMENT

STA

VIBRO & GROUTING EQUIPMENT



Wet Top Feed Kingdom of Saudi Arabia
Wet Top Feed Sousse Tunisia





STA

STA has been designing and manufacturing special hydraulic equipment for more than thirty years. Special foundation and soil improvement equipment.

Vibro flotation and stone columns techniques represent a flexible solution for soil improvement. They are mainly used to improve the bearing capacity, improve soil density, reduce settlements under structural foundations and eliminate potential liquefaction effects

Special foundations

- Grouting equipment JET grouting equipment
- Soil improvement

Vibro flotation

- Vibro replacement-stone columns
- Naval industry Special machines



Applications

Vibro techniques provide a foundation solution to improve a wide range of weak natural soils or land reclamation projects. The range of application is very wide. Vibro flotation and stone columns provide an economic foundation support for different applications.

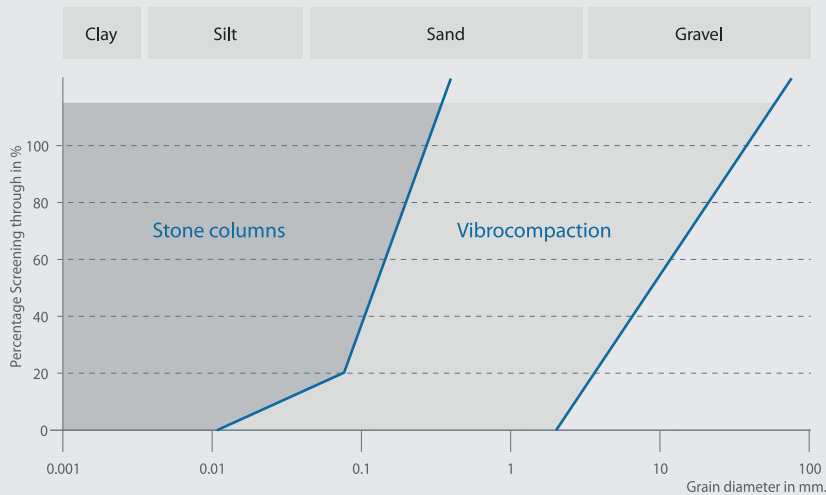
- Industrial buildings
- Oil and gas facilities
- Infrastructures
- Airports
- Railways
- Logistic facilities and platforms
- Foundations for silos
- Foundations for storage tanks
- Commercial and residential buildings

Vibro flotation vs Stone column

When the soil conditions cannot achieve the required bearing capacity, vibro techniques offer an economic solution for the soil improvement.

The choice of the best-adapted technique will be determined mainly by the type of soil and the soil's water saturation and bearing capacity requirements.

The following graph illustrates the limits of application of the two main Vibro techniques:

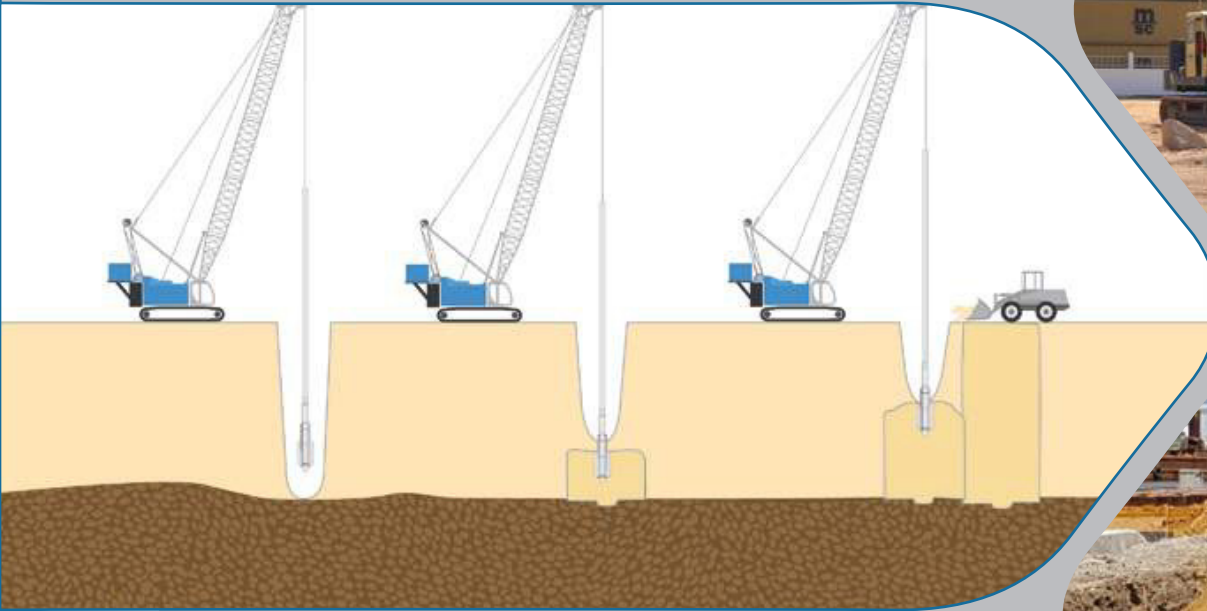


- **Vibro compaction**
- **Stone columns**

Vibro compaction

For land reclamation and sand compaction the VibroSTA is suspended for penetration into the ground thanks to its own weight, vibrations and a perforation fluid as water.

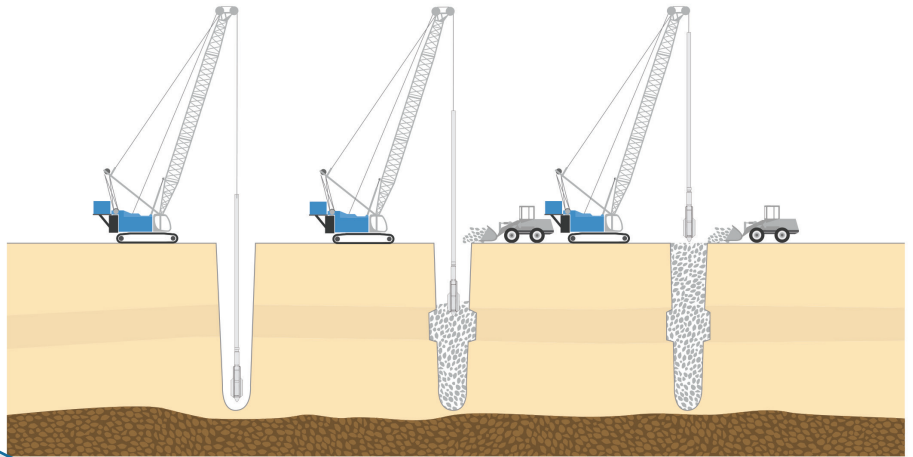
The Vibro compaction technique is used in granular soils with limited fines content. This technique uses the VibroSTA sustained vibrations to rearrange the soil particles of non-cohesive soils into a denser state. The action of the vibrator reduces the inter-granular forces between the soil particles, allowing them to move into a more compact configuration.



Stone column

It is a ground improvement technique used to improve the load bearing capacity and reduce the settlement of the soil. It is also called as granular columns or granular piles.

This technique is also known as vibro replacement. In this technique dense aggregate column (stone columns) is constructed by means of a crane-suspended downhole vibrator.





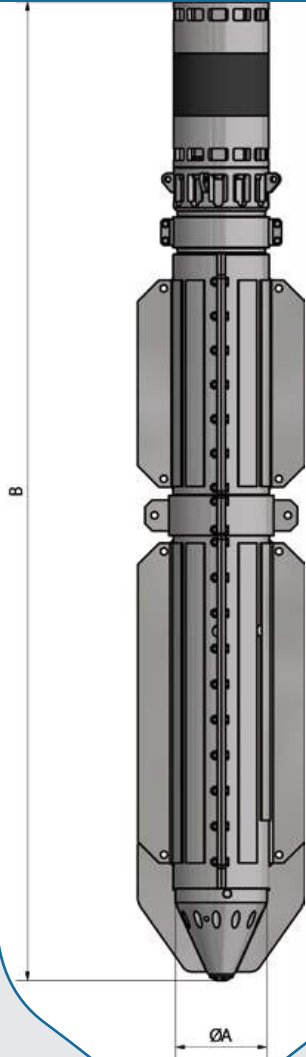
VibroSTA

The VibroSTA is a vibrating tool system, composed by a vibrator, an isolator and various extension tubes. The vibrator contains an eccentric mass that continuously rotates, generating radial centrifugal force.

This lateral/radial force is used to penetrate the soil and then to treat the soil itself, according to the chosen ground improvement technique (vibro compaction or stone columns).

Different length extension tubes allow the VibroSTA to reach any required treatment depth. VibroSTA can be equipped with a Bottom Feed System (BFS), for stone column applications.

In this case, a stone tube and a stone tank with a stone gate, will be added to the VibroSTA in order to drive the gravel up to the bottom of the perforation level.



VibroSTA range

STA offers a wide range of vibroflots for ground improvement jobs.

Different models are available depending on the soil conditions and techniques to be implemented.

The VibroSTA can be mounted on a crane, on a rig or mast, and on excavator.

HYDRAULIC RANGE	VIBRO STA VS130H	VIBRO STA VS150IR	VIBRO STA VS180H	VIBRO STA VS200H
Power (kW)	130	154	180	204
Freq (Hz)	30	50	30	30
Rpm max	2000	3000	2200	1800
KN	200	230	230	413
Weight (kg)	1.900	1.600	2.100	2.600
Length B (mm)	4.000	3.400	4000	4.200
Diameter A (mm)	400	310	400	500



Stone columns

Installation of stone column improves ground by reducing soil settlement. Due to its higher modulus of elasticity than that of soil, it absorbs more load than soil and reduces overall settlement.

Since applied load distributes in between soil and stone column in the ratio of their stiffness, the load carrying capacity of soil also increases.

Stone aggregates are used to fill stone column. Water can easily pass into the stone column. So, stone column helps in excess pore water pressure mitigation and accelerates the consolidation process.

In this method, boring is done by displacing nearby soil. The soil is displaced laterally, due to which engineering property of soil gets change.

This technique can be performed in two methods.

- **Top feed method**
- **Bottom feed method**

Top feed method

During and after the perforation process an annular space stays open around the VibroSTA and the gravel can be provided into the hole from the top.

The top feed stone columns are a vibro replacement technique recommended for cohesive saturated soils. This technique consists in building and compacting in the ground columns made from coarse gravel, crushed stone or crushed aggregate, following a grid pattern previously determined by a test trial.

In the top feed method, the column is made with stones that are added from the ground surface into the hole created by the VibroSTA.

This method requires the use of same equipment as the vibro compaction suspended from a crane.

The backfill is compacted and pushed into the sides of the hole. The stone column is formed from bottom of the hole to the top.



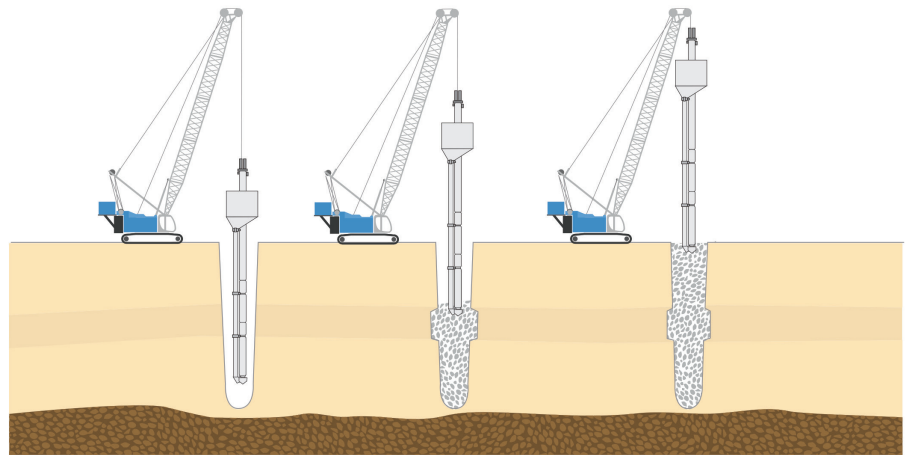
Bottom feed method

The percentage of fines is higher than 10 - 15% of the soil volume.

The soil collapse around the VibroSTA and the hole does not stay open during and after the perforation process.

Once the perforation process is terminated, the stones are discharged at the bottom of the VibroSTA tip through a stone tube that drives the gravel into the VibroSTA building the stone column from the bottom to the top of the designed depth. Preferred perforation fluid is compressed air.

- Crane suspended
- Excavator mounted
- Piling rig application





Off shore application

Off shore sea bed consolidation for under water structures can be performed with VibroSTA equipment. Foundations of quay walls and berths, soil improvement for slopes of dredged areas can be achieved with vibro compaction or stone columns method depending by design requirements.

Execution of top feed and bottom feed stone columns is more challenging when works are to be performed offshore and in marine conditions. In the marine wet top feed method, a 3 m to 3.5 m thick gravel layer is initially placed on the seabed. This layer will feed the stone columns. The maximum stone column lengths that can be constructed using the gravel layer are in the order of 10 m to 15 m. In the bottom feed method gravel is fed to the tip of the vibroflot through a gravel pipe with a large hopper at its head. The hopper has a capacity in excess of the expected stone consumption for one column.



Data logger system

All working data can be visualized in real time and stored with VibroSTALog. The operator can manage and control:

- Depth
- Power of compaction
- Column profile
- Air/Water flow and pressure



Power Packs

TECNICAL DATA	POWER PACK	VIBRO STA
Engine	Caterpillar	CAT C9
Power	Kw	261
Frequency	rpm	2200
Hydraulic flow	l/min	400
Hydraulic pressure	bar	360
Oil tank	lt	1.400
Weight	Kg	6.000
Length	mm	3.200
Width	mm	2.000
Height	mm	1.950



VIBRO & GROUTING EQUIPMENT

vibro and grouting equipment



Grouting equipment

T3-T6 vertical

POMPE D'INJECTION grout pump



T3Sx2

INJECTION PUMP - POMPE D'INJECTION



T3S-T6S

POMPE D'INJECTION grout pump



T3 ECO

POMPE D'INJECTION grout pump



T12 Serie

T12
T12S

POMPE D'INJECTION grout pump



T15

150 lt/min - 90 bar

POMPE D'INJECTION grout pump



T20 230 lt/min - 100 bar
POMPE D'INJECTION grout pump

T50 500 lt/min - 250 bar
POMPE D'INJECTION grout pump



STA SKID
SKID D'INJECTION GROUTING SKID

CONTAINER

CENTRALE D'INJECTION

GROUTING UNIT



STA 5M3

CENTRALE DE MALAXAGE

MIXING UNIT

STA 5M3 + T6

CENTRALE DE MALAXAGE ET D'INJECTION
mixing & grouting unit



STA 5M3 + T20 DIESEL

CENTRALE DE MALAXAGE ET D'INJECTION
mixing & grouting unit



STA 40M3

CENTRALE DE MALAXAGE
mixing unit

STA 20M3 & 30M3

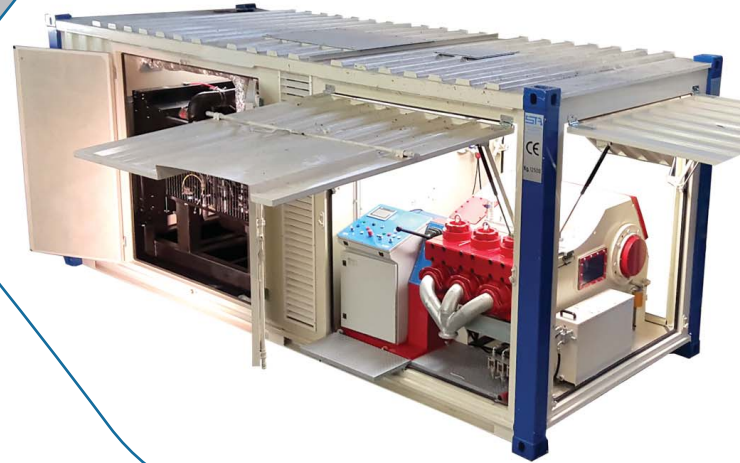
AUTOMATIC

CENTRALE DE MALAXAGE
mixing unit



STA SJ650

POMPE TRIPLEX
Triplex pump



STA SJ500

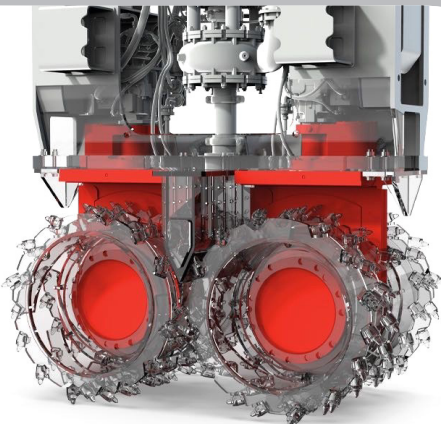
POMPE TRIPLEX
Triplex pump



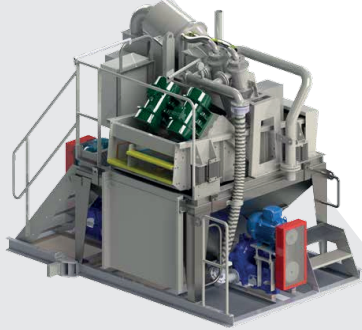
Separation & Recycle Technology Slurry Environmental Solution



Cutting Wheels / Drilling Bits / Gearbox / Mud Pump

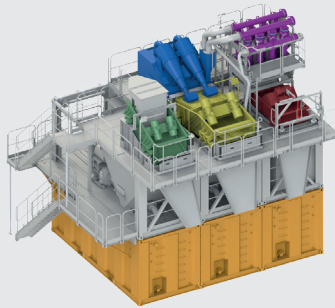


ANCILLARIES OF HYDROMILL



Compact desander / Desilter

- Pilling
- HDD Drilling
- Jet Grouting
- Water Well Drilling



Slurry Treatment Plant

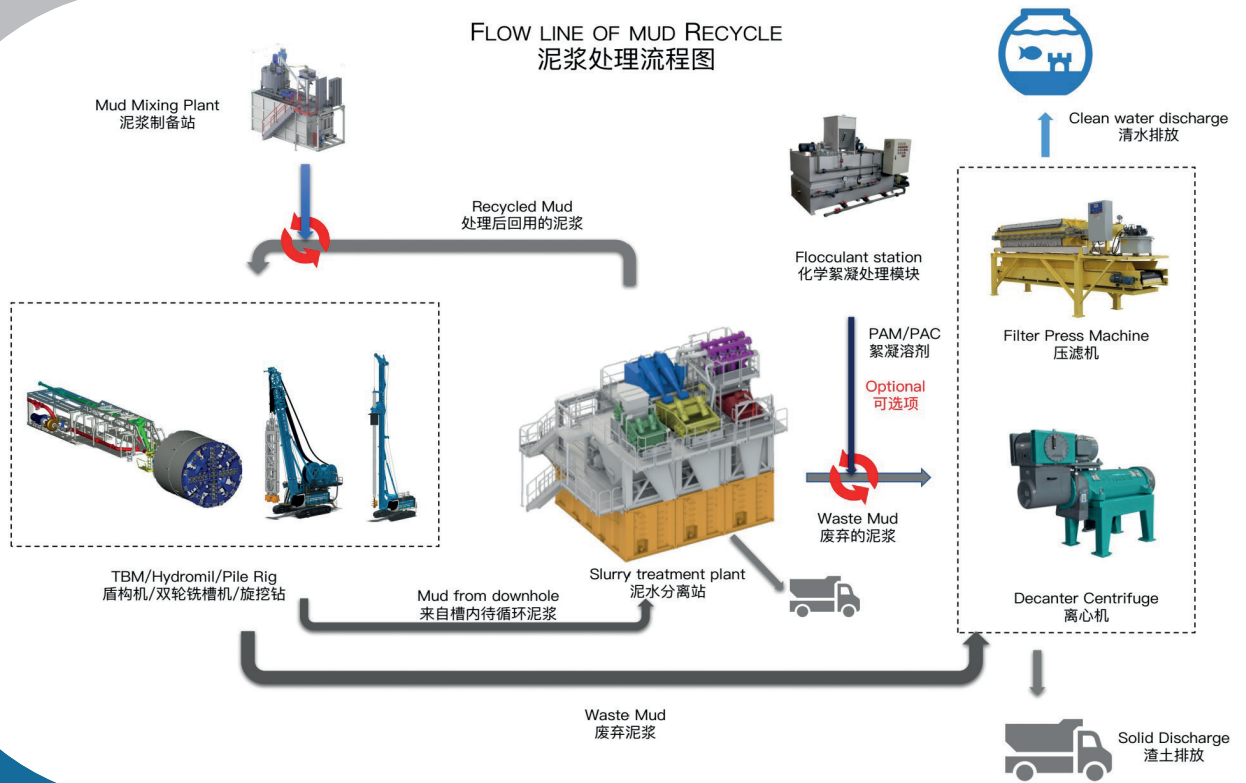
- Hydromill D-wall
- Solids Control system
- Pipe Jacking
- CBM Drilling
- Geothermal drilling

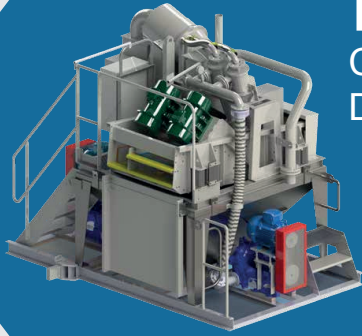


Large Slurry Treatment Plant

- Slurry TBM
- Mine Tailing

FLOW LINE OF MUD RECYCLE 泥浆处理流程图





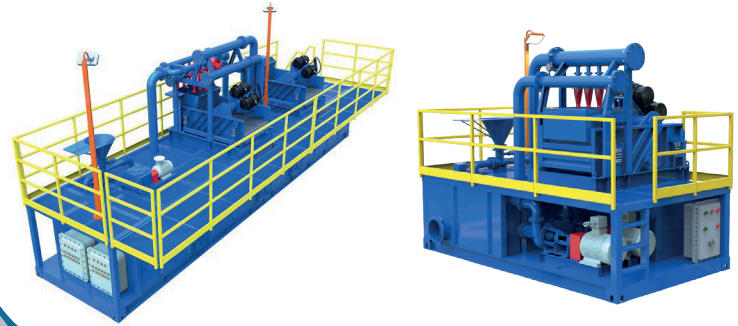
TSP Compact Desanding Plant

Compact Plants of Modular
Design/Trailer-mounted/ Containerized

TSP series Product Range / Technical Data Sheet

Plant Model	TSP-100	TSP-150	TSP-200	TSP-250	TSP 425	TSP-500
Capacity (m ³ /h)	40-100	40-100	150-200	150-250	300-400	300-500
Max. Solids discharge(t/h)	20	30	50	60	100	125
Coarse screen (m ²)	1.6	1.6	2.4	2.4	2.4	2.4
Dewatering (m ²)	1.6	1.6	2.4	2.4	3.6	4.8
Cyclones	1	1	1	1	2	2
Cyclone size	300	375	500	500	400	500
Pump (KW)	17.5	22/37	45	55	75	55X2
Power (KW)	19.5	26/41	49	59	85	122

Mud Recycling Units/ Solids Control System



- Oil&Gas Drilling
- HDD Drilling
- CBM Drilling
- Water Well Drilling
- Geothermal drilling

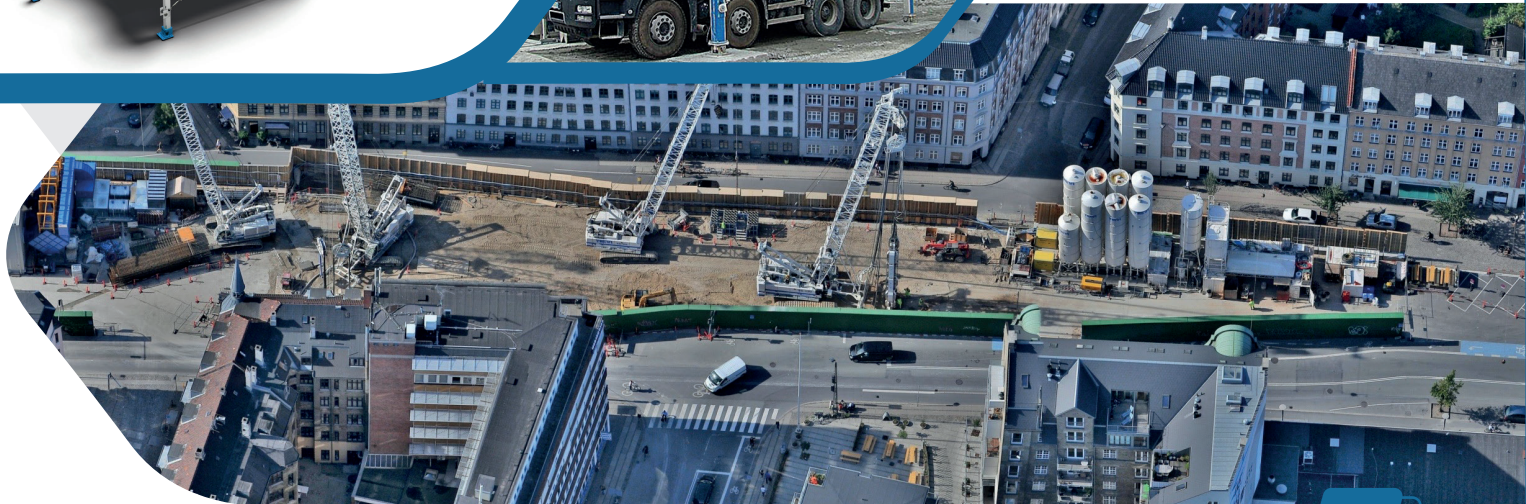
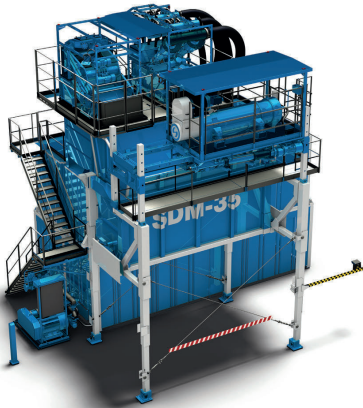
TRON offers mud recycling units for CBM & HDD & water well drilling and other drilling applications; compact design is the key feature for 200GPM / 350GPM/ 500GPM/ 800GPM/ 1000GPM/ 1500GPM/ 2000GPM mud flow.

Model	SMR-200	SMR-500	SMR-1000
Capacity	200GPM (50 m ³ /h)	500GPM (120 m ³ /h)	1000GPM (240 m ³ /h)
Dimension	4000×2360×2940mm	10000×2360×4228mm	12100×2630×4438mm
Power	44kw	150kW	184kW



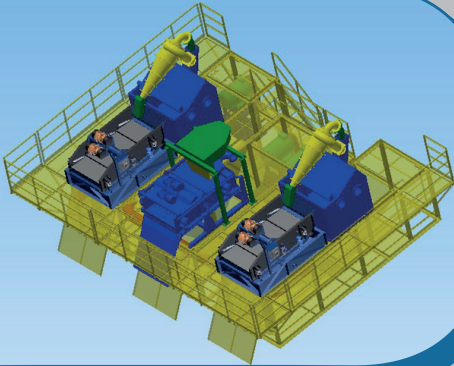
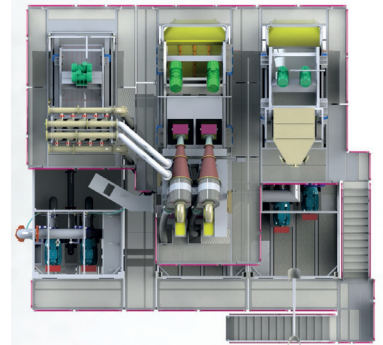
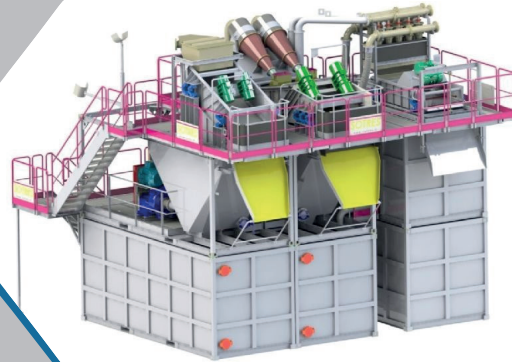
SMT-500 SMT-500 Slurry Treatment Plant (city-compact version)

Sound-proofing Modular

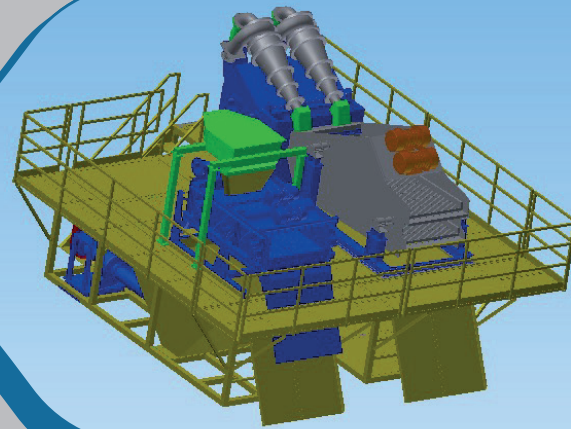


SMD-500

SMD-500 Slurry Treatment Plant
(standard version)



SPC-500C
SPC-500C series Desanding Plant



SMD-500C
SMD-500C Compact Desanding Plant



SMD-500

SMD-500 Desanding Plant Technical Data Sheet

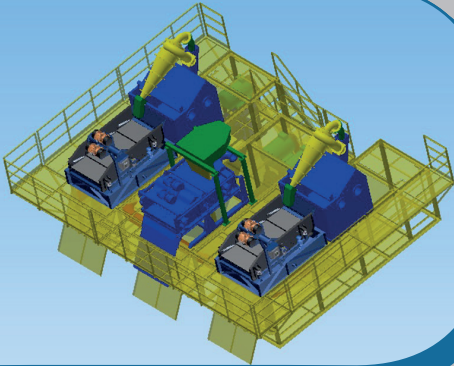
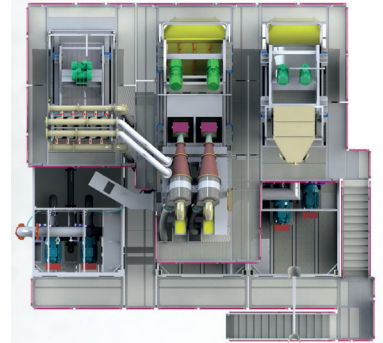
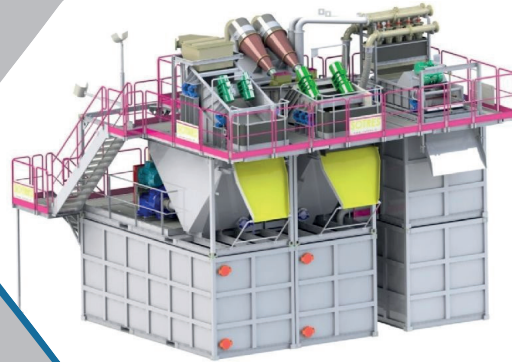
Model	SPC-500/SMD-500C	SMD-500 /SMT-500
Max. Capacity	450m ³ /h	500m ³ /h
Max. solids discharge	1.25g/cm ³	1.30g/cm ³
Max. Sand content input	<18%	<25%
1st stage cyclone	quantity	2 2
	size	500mm 500mm
	pump	1 55KW*2 55KW*2
2nd stage cyclone	quantity	N/A 8
	size	N/A 150
	pump 2	N/A 55KW
feeding tank volume	20m ³	27 m ³
storage volume	N/A	27 m ³ *4=108 m ³
power installed	120kw+90kw	212kw+90kw
weight	30t	45t

FEATURES:

- Containerized and trailer-mounted give you high mobility at low transport cost
- For a quick rig up and rig down
- To facilitate the maintenance
- Add-ons available for individual configuration
- To be reliable and efficient by using worldclass components
- Two cyclone stages ensure optimised cut points, especially in soil with a large proportion of fines
- An optional Finest Separation Kit increases of the dewatering area and improves separation of finest soils

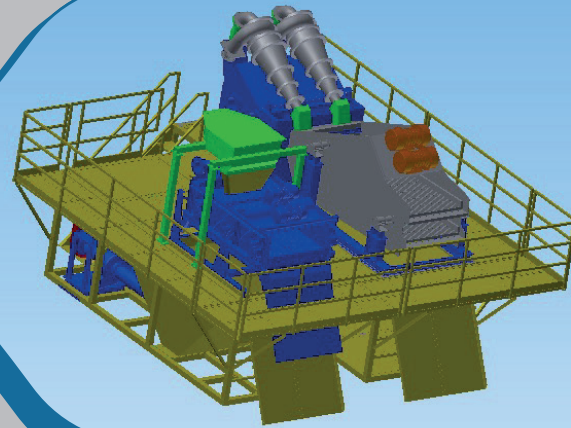
SMD-500

SMD-500 Slurry Treatment Plant
(standard version)



SPC-500C

SPC-500C series Desanding Plant

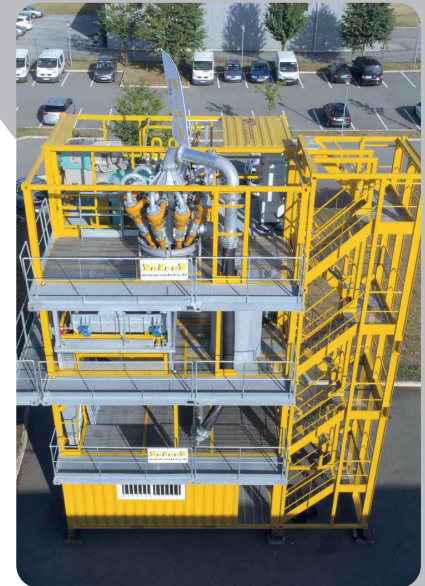


SMD-500C

SMD-500C Compact Desanding Plant



Large TBM Slurry Treatment Plant



Plant type	SMD-600	SMD-700	SMD-800	SMD-1000	SMD-1200
Slurry (m ³ /h)	500-600	600-700	700-800	900-1000	1000-1200
Max. Solids capacity (t/h)	140	160	180	220	250
Coarse screen area (m ²)	10.8	12	18	18	18
1st-Stage Hydrocyclone Qty.	2	3	3	4	6
Hydrocyclone Size	PY-500-RU	PY-500-RU	PY-500-RU	PY-500-RU	PY-500-RU
P1 Pump (KW)	90	110	110	150	180
Dewatering area (m ²)	12	15	15	24	24
2nd-Stage Hydrocyclone Qty.	12	14	16	20	24
Hydrocyclone Size	PY-150-PU	PY-150-PU	PY-150-PU	PY-150-PU	PY-150-PU
P2 Pump (KW)	90	110	132	55	55X2
Weight (t)	32	35	38	55	62
Installed power (KW)	243	263	313	388	458

Slurry Booster Pump

The GP&MP series slurry booster pump is a one-stage impeller pump for handling bentonite-solid slurry. The pump can be used as standard slurry pump as well as an intermediate booster pump. It is a versatile pump package for mud transfer in hydromill works / pipe jacking / Slurry TBM.



Pump Selection guide

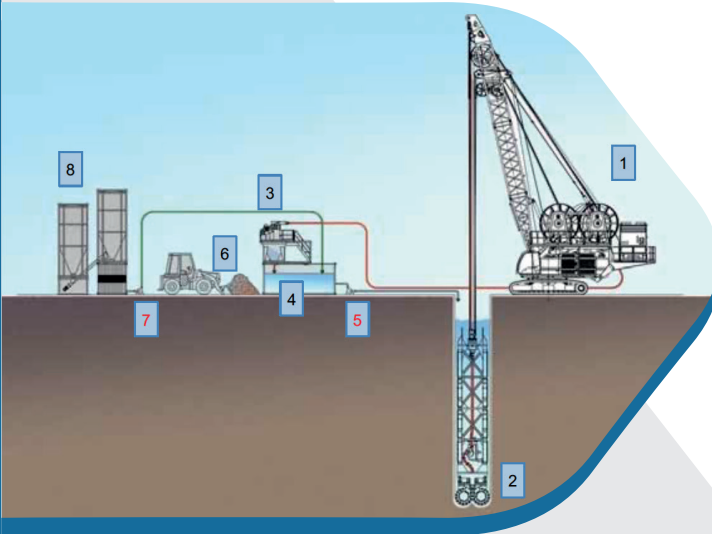
GP Slurry Booster Pumps is suitable for transferring the clean mud which has been processed by the slurry separation plant, or the new mixed bentonite mud.

MP Slurry Booster Pumps is suitable for transferring the cuttings with bigger grainsize solids slurry.

The pump speed can be steplessly adjusted by a frequency converter. The pump can be controlled directly at the switch box or by remote control or operated in automatic mode. Max distance is 400m.



Slurry Booster Pump



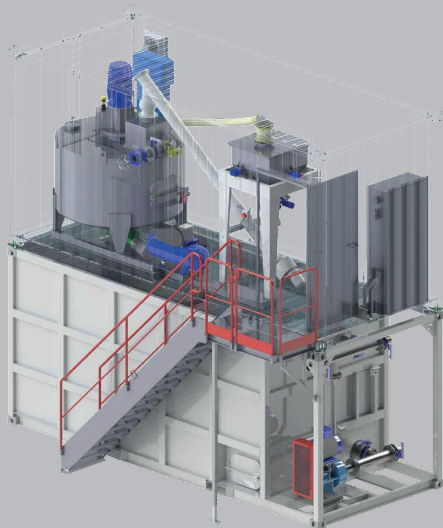
1. Hydromill
2. Suction pump on cutter
3. Slurry Separation Plant
4. Slurry tanks
5. Slurry Booster Pump
6. Screened cuttings
7. Slurry Booster Pump
8. Bentonite mixing plant

Flowline of Hydromill D-walling

Model	GP66-110-VFD	MP66-110-VFD
Max. Delivery Capacity (for water) (m³/h)	400-450	400-450
Max. Flow Height (t/h)	65	65
Max. Permissible grain size (mm)	90	130
Rotation Speed (rpm)	1480rpm (380V 50Hz) / 1700rpm (440V 60Hz)	
Max. working pressure	10bar	10bar
Dimensions (mm)	2700*900*1100	2600*870*1020
Pump (KW)	17.5	55X2
Power installed (KW)	90/110 kw	90/110 kw

Single material mixing unit

SC series single material mixing units are normally applied in the work of mixing bagged bentonite mud .



Mini Mixing plant

Model	SC-20	SC-150	SC-250	SC-750 S	C-1000	SC-1500	SC-2500
Volume mixer	20	150	250	750	1	1.5	2.5
Power input mixer	5.5	5.5	7.5	22	22	22	30
Length mm	850	1300	1850	2400	3000	3100	3200
Width mm	600	830	900	1450	1500	1650	2200
Height mm	1000	1200	1500	1850	2200	2200	2300
Weight kg	200	370	850	1400	1600	1900	3200



Multi material mixing unit

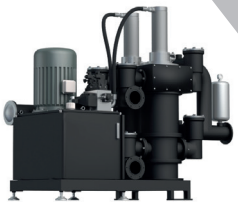
Model	SKC-30-K	SKC-60-K	SKA-30-K	SKA-60-K
Control Mode	Manual	PLC	PLC Control	
Capacity m³/h	8~30	15~60	8~30	15~60
Max. density output	1.5	1.5	1.5	1.5
Dimensions	2370*2160*2350 mm			
Weight kg	2000	2250	2000	2250
Remarks	<p>Dry material silos and screw conveyors are not included in the Dimensions and Weight above.</p> <p>This is a combo product which could be updated by adding more dry material silos.</p>			

Skid-mounted Filter Press System



Skid-mounted Filter Press System Data Sheet

Model	Filter Area	Chamber Volume	Avg. capacity	Remarks
FDU-150	150 m ²	2250 L	10-15 m ³ /h	
FDU-200	200 m ²	2896 L	15-20 m ³ /h	
FDU-250	250 m ²	4375 L	20-25 m ³ /h	
FDU-300	300 m ²	5250 L	25-30 m ³ /h	
FDU-350	350 m ²	6125 L	30-35 m ³ /h	
FDU-400	400 m ²	7000 L	35-40 m ³ /h	
FDU-500	500 m ²	8750 L	45-50 m ³ /h	



Hydraulic Plunger Pump is highly recommended

Filter Press System



Plate chamber Filter Press



Clean water after treatment



Membrane Filter Press



Solids discharge / Silt cakes

Application

- Piling and Diagram Wall
- Tunnel Boring
- Sand Washing
- Drilling Waste Management
- Mining Tailing
- Other Waste Mud Treatment

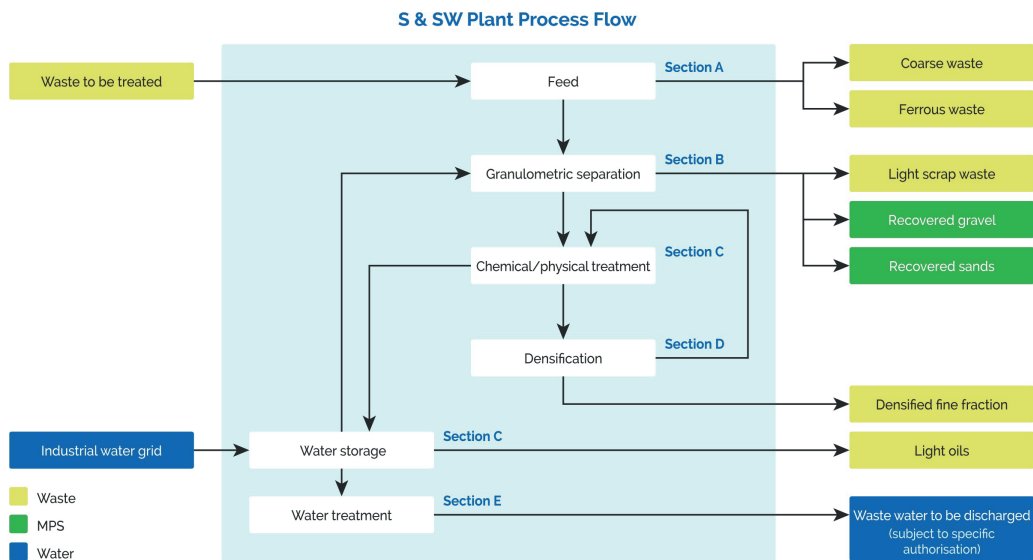


Truck-mounted Filter Press system



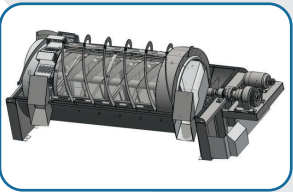
Ground-rooted Filter Press system

Soil & Sediment Washing and Recycle Plant Process Flow



Trevi offers the technical support of S&SW process

EPB TBM Slurry Treatment Plant



Understanding the Needs

- This is a combo products according to the Geo-report of EPB TBM, which is consist of Rotary Screen, Desanding Plant, Sand Washing and Recycling Plant, Filter Press Machine.
- The Core value of this processing flow method are the layout limits of the jobsite and the value of the recycled sand and aggregates.

Decanter centrifuge



GENNARETTI

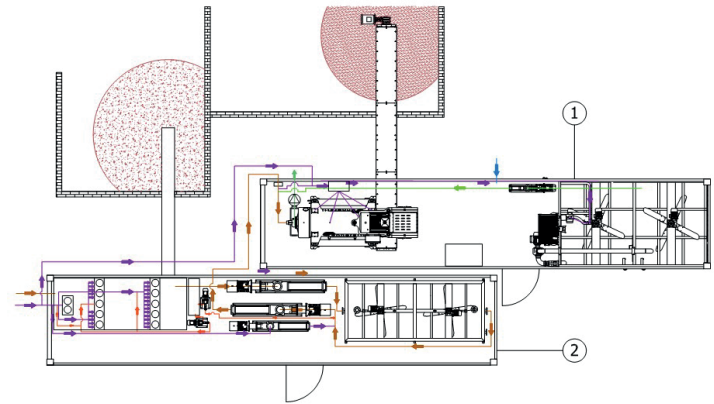
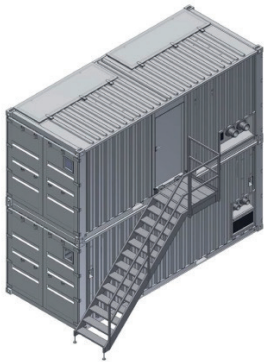
Features

- Dry solids capacity: 3 to 60 t/h
- Slurry volume: 10 to 100 m³/h
- Fully automatic operation
- Standard configuration ranges from basic (BC) to fully mounted (FM)
- Suitable for all types of powder products
- Key chemical treatment is friendly to civil sludge treatment (by using the same method)

Benefits

- Reduced water change frequency
- Increased production rate
- Improved water cleaning reduces water consumption
- Reduction of waste and disposal cost by fine solids treatment

Decanter Centrifuge System Layouts



This decanter centrifuge system is containerized, the flocculant station/ screw pumps/pipes/screw conveyor.

Centrifuges in Tunneling & Drilling

CENTRIFUGE DECANTER MODEL	MAIN MOTOR POWER (kW)	INLET SLUDGE FLOW	DRY SOLIDS FLOW
GHT 503VF75	75	40 m ³ /h	9-11 TPH
GHT 503VF600S90	90	50 m ³ /h	12-14 TPH
GHT 503VF600S	132	132 60 m ³ /h	15-17 TPH
GHT 503VF600S	200	200 70 m ³ /h	20-25 TPH
GHT 603VF200	200	130 m ³ /h	32-40 TPH
GHT 603VF315	315	180 m ³ /h	50-60 TPH



D-wall and works of Grand Paris Express Project

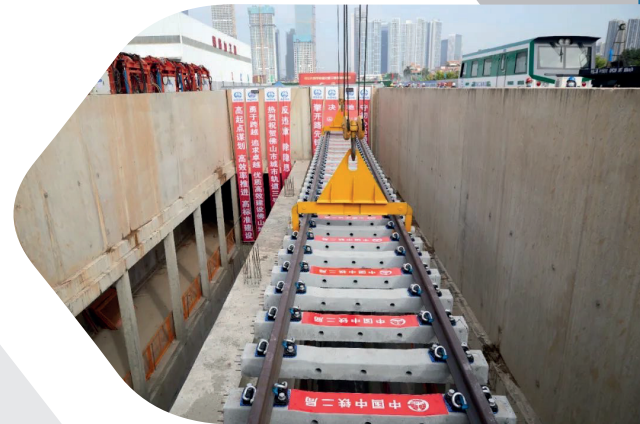


Application in tunneling works



Remote Monitor and Control System

Subway Rail Paving Machine



Subway Rail Paving Machine Data Sheet

Model	Rated load weight	Range of span	Range of height	Speed of lift	Speed of travel
RL-10	10t	3-3.9m	3.1-3.6m	4m/min	3-30m/min
RL-16	16t	3-3.9m	3.1-3.6m	4m/min	3-30m/min

Walking mode: Rail/ Tyre

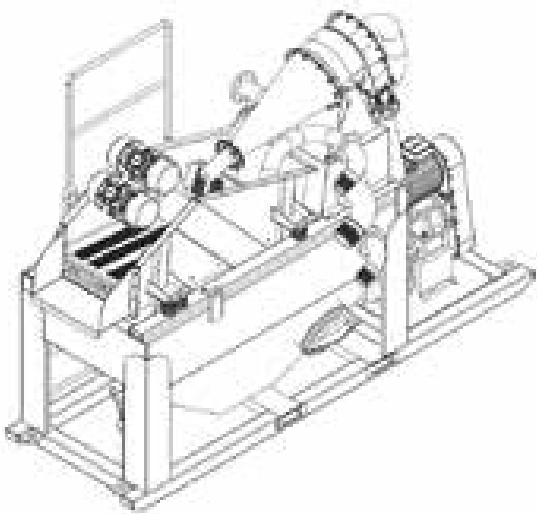
Power supply mode : rolling cable reel





Mud Desander

Model/Type		SKD 840	SKD 2200	SKD 3000	SKD 4400
Pump Capacity	m ³ /h	60	130	180	250
Hydrocyclon	mm	Ø250	Ø350	Ø400	2xØ350
Total Power	KW/V/Hz	13,2/380/50	24,2/380/50	32,6/380/50	49,8/380/50
Cut Diameter	D50 µm	40	50	50	50
Sand Content Before Treatment	%	~10	~10	~10	~10
Sand Content After Treatment	%	~1-4	~1-4	~1-4	~1-4
Dimensions	mm	3257x1170x2065	3885x1410x2600	400x1750x2700	4630x1950x2700
Weight	kg	~2200	~2500	~2800	~3500

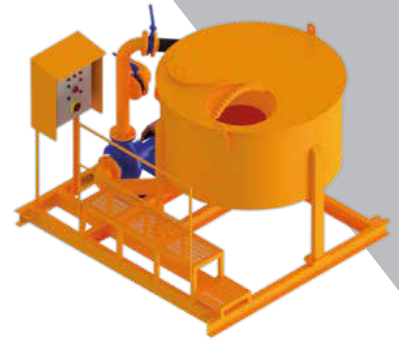




Mud Desander + Desilter

Model/Type		SKD 4000D	SKD 8000D
Pump Capacity 1	m3/h	130	
Pump Capacity 2	m3/h	110	
Hydrocyclon	mm	1xØ350-10xØ100	
Total Power	KW/V/Hz	22+22/380/50	
Cut Diameter Simple Cycloning	D50 µm	50	50
Cut Diameter Double Cycloning	D50 µm	20-30	20-30
Sand Content Before Treatment	%	~1-2	~10
Sand Content After Treatment	%	~2	~2
Dimensions	mm	5700x2200x3320	6000x2200x3620
Weight	kg	~4000	~7000





Bentonite Mixer

Model/Type		SMM100	SMM150	SMM180	SMM250	SMM300
Pump Capacity	lt/min	1670	2500	2500	2500	2500
Total Power	KW	7,5	11	11	15	15
Mixer Capacity	lt	1400	1500	2500	2500	3000
Dimensions	m	2X2,2	2,1X2,3	2,1X2,45	2,1X2,85	2,1X3,2
Weight	kg	1750	2100	2200	2300	2450



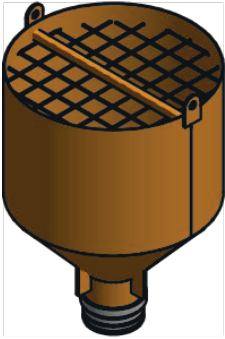
Bentonite Tank

Model/Type		SBT 30	SBT 60	SBT 50
Capacity	m3	30	60	50
Dimensions	m	2,43x6,05x2,59	2,43x12x2,59	2,09x11,61x2,39
Weight	kg	3900	8000	7300

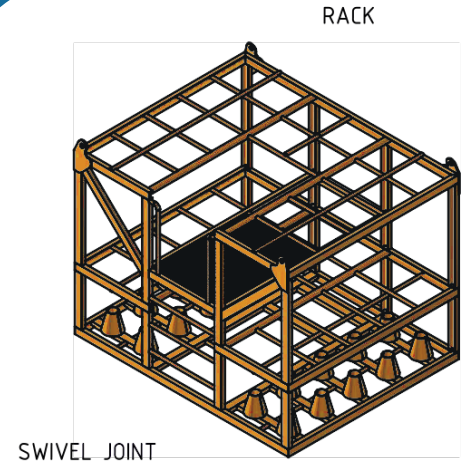
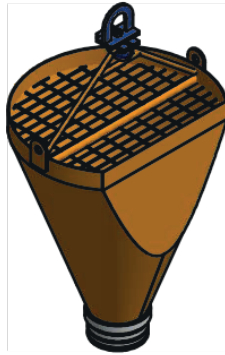
*SBT 50 can be put inside SBT 60 for transportation.

Tremie Pipes and Equipments

HOPPER TYPE-1



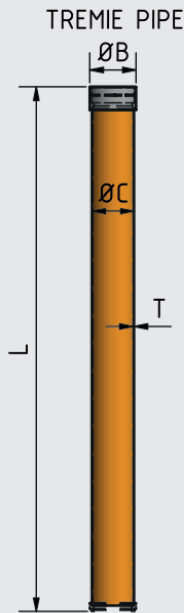
HOPPER TYPE-2



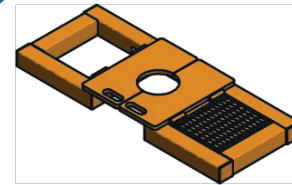
SWIVEL JOINT



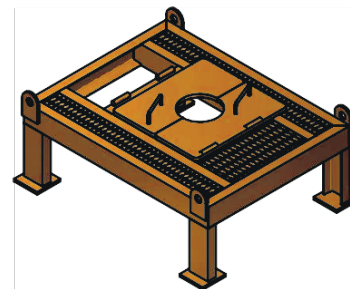
SKC
Makina



PIPE SHOE



SUSPENSION
JIG TYPE-1



SUSPENSION
JIG TYPE-2



Tremie Pipes and Equipments

Naming / Inch	B / mm	C / mm	T / mm
6"	203	168	5
8"	254	219	5.6
10"	300	273	6

Tremie Pipes and Equipments





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