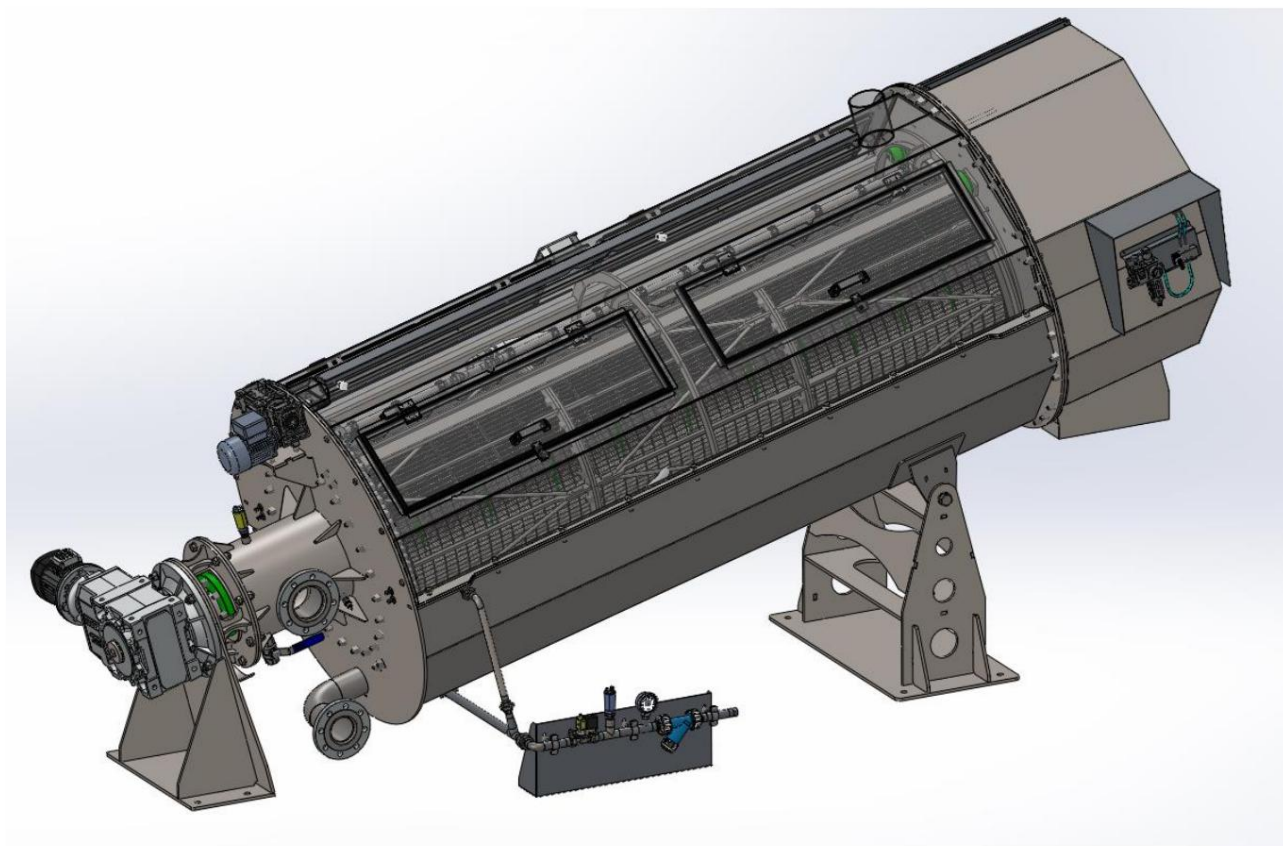



**Use and maintenance manual
Screw Dehydrator for Sludge
Serie S-DEY**



O.M.IT. s.r.l.

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	Use and maintenance manual Screw dehydrator for sludge	Pg. 2 to 40
		Rev. 2.0 from 05/13/2021


INDEX

1.0	GENERALITY.....	4
1.1	REGULATORY REFERENCES.....	4
2.0	SAFETY PRECAUTIONS	5
2.1	SAFETY WARNING SYMBOLS.....	5
2.2	CE MARKS.....	5
2.3	MODIFIED EQUIPMENT.....	6
2.4	COMPETENCE REQUIRED FROM STAFF.....	6
2.5	EMERGENCY STOP.....	6
2.6	ELECTRICAL SAFETY	6
2.7	SAFETY INSTRUCTIONS.....	6
3.0	SCREW DRYER FOR SLUDGE.....	8
3.1	OVERVIEW	8
3.2	CONSTRUCTION FEATURES.....	10
3.2.1	GENERAL CHARACTERISTICS.....	10
3.2.2	SAFETY DEVICES.....	12
3.2.3	COMMANDS.....	12
3.2.4	TOUCH-SCREEN.....	13
3.2.5	STANDARD EXECUTION.....	16
3.2.6	OPERATION	16
3.3	IDENTIFICATION OF THE MACHINE.....	17
4.0	GENERAL INSTALLATION INSTRUCTIONS.....	17
4.1	INSTALLATION.....	17
4.2	LOCATION OF THE CENTER OF GRAVITY.....	18
4.2.1	LIFTING USING BANDS/CHAINS	18
4.2.2	LIFTING WITH A FORKLIFT TRUCK	20
5.0	OPERATION CHARACTERISTICS.....	21
6.0	STARTING AND OPERATION	22
6.1	MANUAL/AUTOMATIC/WORK PAUSE OPERATION.....	23
7.0	TROUBLESHOOTING AND CORRECTIONS.....	23

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	Use and maintenance manual Screw dehydrator for sludge	Pg. 3 a 40
		Rev. 2.0 from 05/13/2021

8.0	MAINTENANCE.....	25
8.1	UPPER BEARING	25
8.2	BADERNA.....	26
8.3	MOTORS AND GEARBOXES.....	27
8.4	WASHING BAR AND SPRAY NOZZLES	27
8.5	WASHING BAR CENTERING ROLLERS	28
8.6	LIST OF CHECKS / OPERATIONS TO BE CARRIED OUT AND FREQUENCY.....	29
9.0	SCRAPPING	29
10.0	RETURN OF MACHINE	30
11.0	STORAGE.....	30
11.1	STORAGE OF THE MACHINE FOR A LONG PERIOD.....	30
12.0	WARRANTY.....	30
13.0	SPARE PARTS LIST	32
ANNEX A.....		35
	EC DECLARATION OF CONFORMITY	35
ANNEX B.....		36
	TEST REPORT	36
ANNEX C.....		37
	TECHNICAL DRAWINGS.....	37
ANNEX D.....		38
	GEARMOTOR(S) DOCUMENTATION	38
ANNEX E		39
	ELECTRICAL PANEL MANUAL	39
ANNEX F		40
	WEINTEK OPERATOR PANEL MANUAL	40

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	Use and maintenance manual Screw dehydrator for sludge	Pg. 4 to 40
		Rev. 2.0 from 05/13/2021

1.0 GENERAL INFORMATION

This manual contains instructions for use and maintenance of the S-DEY series Screw Dehydrator for sludge.

OMIT Srl reserves the right to modify these procedures and/or instructions.

The manual must always be available to personnel working with the equipment.

The manual and other relevant documentation must be retained for the entire life cycle of the equipment.

The manual and other relevant documentation form an integral part of the equipment and should be carefully studied by all users of the equipment and kept at hand for any future reference.

Information necessary for other people to carry out their duties may be provided upon request.

Careful and scrupulous application of the procedures set out in this instruction manual will guarantee the best operating conditions of the equipment to which the text refers over time, also minimizing downtime.

The user accepts full responsibility for any difficulty in operation or invalidity of the warranty resulting from failure to observe these instructions or from the improper use and application of the same.

1.1 REGULATORY REFERENCES

Harmonized standards pursuant to paragraph 2 of the art. 3 of the decree of the President of the Republic 24 July 1996, n. 459, concerning: regulation for the implementation of Council Directives 89/392/EEC, 91/268EEC and 93/68EEC concerning the approximation of the laws of the Member States relating to machinery.

Machinery Directive [2006/42/EC](#)

Regulation 224/88 used for the construction of the machines and deposited in the company.

Community Directive 20/23/EEC, 93/68/EEC, 73/23/EEC for low voltage electrical equipment.


Produced according to the methods specified with the following harmonized standards:

EN 12100:2010, EN 60204-1:2018, EN 13849-1:2016, EN 14120:2015, EN50081-2:1993, EN50082-2:1994

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	Use and maintenance manual Screw dehydrator for sludge	Pg. 5 to 40
		Rev. 2.0 from 05/13/2021

2.0 SAFETY PRECAUTIONS

The S-DEY Series Sludge Screw Dehydrator is designed for safe use when installed correctly and used according to the instructions provided.

The equipment must be installed correctly and adapted to local regulations. The machine equipment is designed to be operated by multiple operators.

Read the relevant parts of the manual before using the equipment or carrying out maintenance on it.

- o Pay attention to all warning symbols in this manual. Ignoring this information could result in serious injury or serious damage to the machine.
- o All electrical equipment is considered live.
- o Before carrying out any type of maintenance, turn the safety switch to the OFF position and block it.
- o Service and maintenance must be carried out only by authorized personnel.

2.1 SAFETY WARNING SYMBOLS

A warning symbol is used in this manual to draw attention to potentially dangerous situations:

WARNING!

Information about potential personal injury and/or equipment damage.



To remind staff to keep their hands and fingers away from moving parts of the grill have safety warning labels affixed to the grill protections (see figure 2.1)



Figure 2.1. Moving parts can cause injuries

2.2 CE MARKS

This machine has obtained the CE mark, certifying that the equipment is designed, manufactured and described in accordance with the EU Machinery Directive 2006/42/EC (AFS 1994:48). Figure 2.2.




Figure 2.2

The CE mark

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	Use and maintenance manual Screw dehydrator for sludge	Pg. 6 to 40
		Rev. 2.0 from 05/13/2021

2.3 MODIFIED EQUIPMENT

The CE mark does not cover components used to modify or reconfigure the equipment not approved by OMIT Srl.

Warning decals and CE markings must be clearly visible. If any piece of equipment, marked with decals or marks, is replaced, new decals or marks must be applied in the same place. Damaged decals and CE markings must be promptly replaced.

2.4 COMPETENCE REQUIRED FROM STAFF

To avoid injury to people and damage to the machine, assistance and maintenance must only be carried out by trained personnel according to the instructions provided by your local dealer. Service and maintenance personnel must limit themselves to the parts of the equipment for which they have been trained.

During setup and maintenance operations before use, the operator can work inside the safety fence and in the reserved area.

2.5 EMERGENCY STOP

The Screw Dehydrator for sludge must be equipped with a safety switch not supplied by OMIT Srl (see figure 2.3) mounted on the general electrical panel or on the machine. In situations requiring an emergency stop, push the safety switch towards the electrical panel.



Figure 2.3

Emergency switch

2.6 ELECTRICAL SAFETY

The electrical connections must be carried out by an authorized electrician and in compliance with current regulations. The tank or structure of the Sludge Screw Dehydrator must be grounded. It is necessary to install a lockable safety switch if the control box is mounted in a location distant from the machine (over 7 meters in EU countries).

2.7 SAFETY INSTRUCTIONS

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REA RM n° 1570055 - Tax code. - VAT/Vat. number: 15134901006 – UNIQUE CODE: VI83O83 E-mail: commerciale@omit.tech



	Use and maintenance manual Screw dehydrator for sludge	Pg. 7 to 40
		Rev. 2.0 from 05/13/2021

The Screw Dehydrator for sludge is activated by placing the safety switch in the AUTO or MANUAL position using the selector on the front panel of the electrical command and control panel (if provided by OMIT. Ltd.). The machine is stopped by moving the selector to position 0.

**WARNING!**

Access to the Sludge Screw Dehydrator by unauthorized personnel must be strictly prohibited.

**WARNING!**

The Sludge Screw Dewaterer may start to rotate suddenly if automatic control is activated. Do not touch moving parts. Do not climb on the structure of the machine when it is in operation.

There are protectors around the transmission mechanism.

Therefore make sure that the latter are always correctly and securely mounted.

**WARNING!**

Vapor emissions from incoming sewage may contain harmful substances. If the machinery is in closed and insufficiently ventilated rooms, adopt suitable personal protective equipment in compliance with local regulations.

The noise level of the Sludge Screw Dehydrator is less than 74 dB(A). If necessary, adopt suitable personal protective equipment in compliance with local regulations.

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REA RM n° 1570055 - Tax code. - VAT/Vat. number: 15134901006 - UNIQUE CODE: VI83O83 E-mail: commerciale@omit.tech



	Use and maintenance manual Screw dehydrator for sludge	Pg. 8 to 40
		Rev. 2.0 from 05/13/2021

3.0 SCREW DRYER FOR SLUDGE

3.1 OVERVIEW

The Screw Dehydrator for sludge is a conical screw press and cylindrical screen (drum) made up of three treatment areas:

- 1) Entrance and drive area,
- 2) Zone of thickening and dehydration, in turn made up of three zones with differentiated spacing,
- 3) Pressing area with counter-pressure cone.

In the inlet area the machine receives the flocculated sludge of sufficient stability coming from a mixer, then entering, by gravity, the thickening and dehydration area. The latter is made up of 3 fixed grilling cylinders, with 3 different spacings: 0.5 mm, 0.4 mm and 0.15 mm.

As the sludge advances, the available volume is gradually reduced thanks to the rotating conical screw (with increasing diameter) and the reduction in the pitch of the spirals. The sludge is therefore mechanically compressed and dehydrated by passing the supernatant through increasingly smaller cracks.

In the final part of the screen, the residual water is expelled from the sludge by pressing the pneumatic back pressure cone at the press outlet.

Depending on the type of consistency of the mud flakes, the pressure applied to the mud can be varied as needed. The sludge is finally pushed beyond the cone by the transport screw into the discharge chamber.

The residence time of the sludge in the screw press and therefore the filtration time can be adapted to the user's needs by regulating the rotation speed of the screw shaft.

The seal between the conical auger and the filter drum is ensured by a plastic coil (polizene) which avoids direct contact between the two components, avoiding wear and bolted directly onto the external edge of the auger.

In the entrance area there is a pressure probe which, in the event of clogging of the screen, starts a cleaning cycle through a washing bar. This consists of two pipes positioned at 180° capable of rotating around the grilling cylinder and equipped with special spray nozzles capable of eliminating obstructions on the surface of the drum.


The liquid part extracted from the sludge is collected on the bottom of the tank forming the supporting frame of the machine, from where it is free to exit via connection to the filtrate outlet flange.

The counter-pressure cone is operated by two double-acting pneumatic cylinders, the thrust is adjustable via a pressure regulator positioned laterally, the greater the pressure selected, the greater the thrust force of the cone on the dewatered sludge coming out, the greater the degree of dehydration and compaction of sludge.

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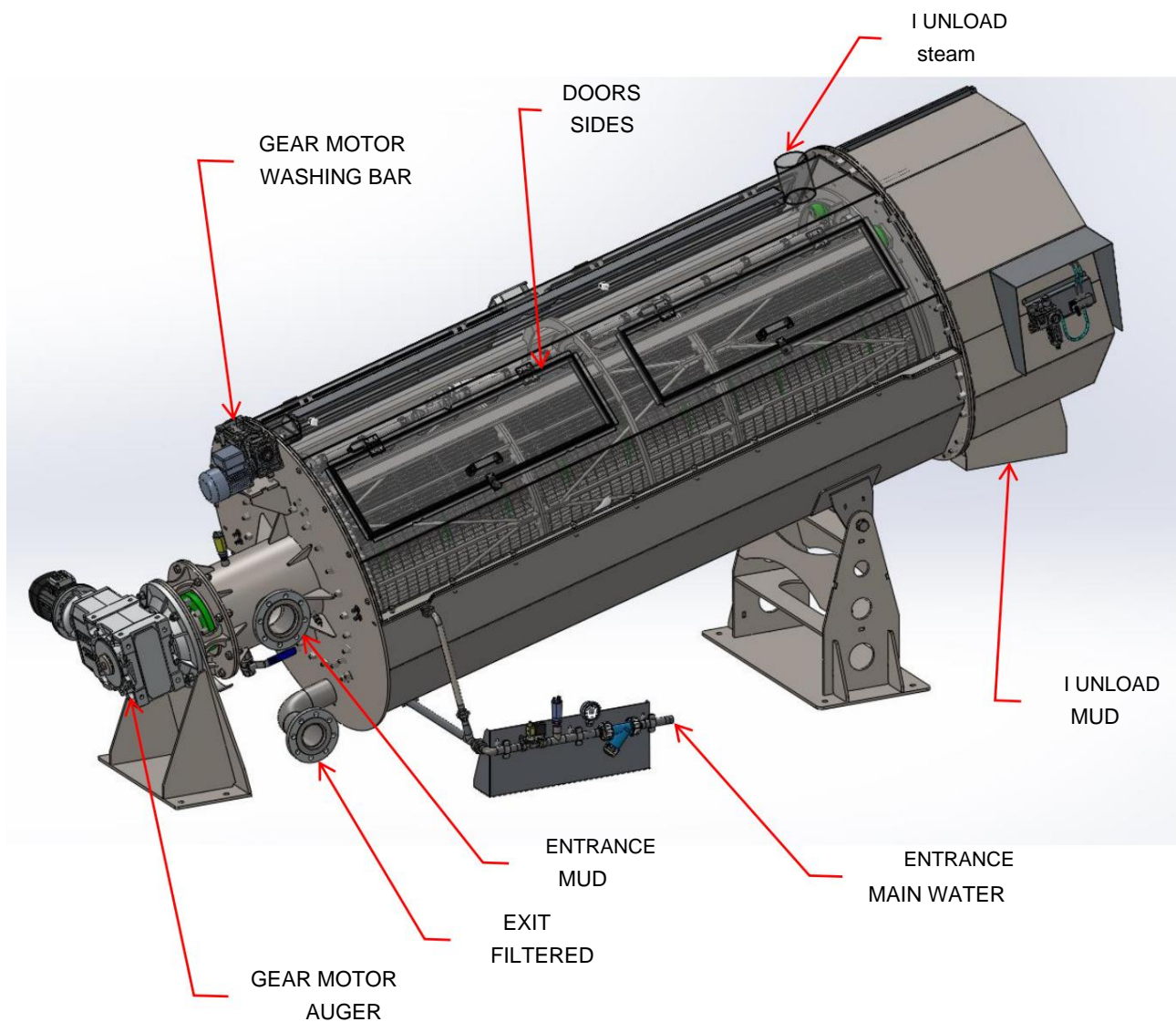


	Use and maintenance manual Screw dehydrator for sludge	Pg. 9 to 40
		Rev. 2.0 from 05/13/2021

In the central part of the machine, on the sides, there are two doors on each side, which allow the operator to view the inside of the central tank and the status of the washing bars.

In the rear part there is a door that allows the operator to view the discharge area, the quality of the sludge at the discharge and the state of the pneumatic cylinders.

All the doors, the side ones and the rear one are equipped with a safety hinge capable of blocking every moving part of the machine with consequent inactivity of the machine.

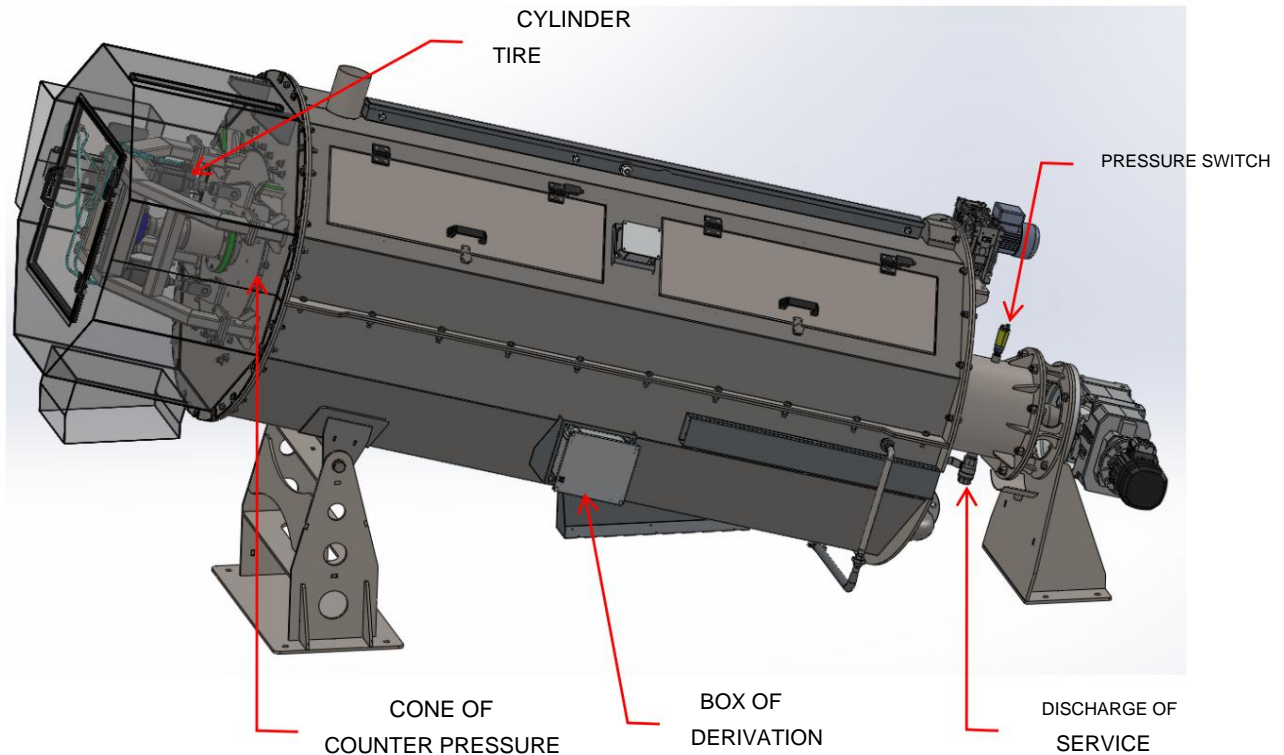


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	Use and maintenance manual Screw dehydrator for sludge	Pg. 10 to 40
		Rev. 2.0 from 05/13/2021



3.2 CONSTRUCTION FEATURES

3.2.1 GENERAL CHARACTERISTICS

The Sludge Screw Dehydrator is capable of draining, thickening and dehydrating flocculated sludge.


Below are the main advantages of the machine:

- Drum with fixed wedge-wire (no moving rings) for greater resistance and durability.
- Spray nozzles fixed on mobile ring. The washing cycle starts only when necessary to reduce washing water consumption.
- Machine controlled by PLC to guarantee total automation and constant performance.
- Completely enclosed machine to ensure clean spaces and odor control. Collection tank of the concrete filtrate not necessary.
- Machine supplied fully assembled and tested to ensure quick and easy installation.
- Completely made of AISI 304L.
- Machine complete with:
- Load-bearing structure made of AISI 304L, complete with inspection doors, suitable for containing and discharge the liquid fraction deriving from the process via a flanged connection.

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 REA RM n° 1570055 - Tax code. - VAT/Vat. number: 15134901006 – UNIQUE CODE: VI83O83 E-mail: commerciale@omit.tech



	Use and maintenance manual Screw dehydrator for sludge	Pg. 11 a 40
		Rev. 2.0 from 05/13/2021

- Set of lids, complete with vapor extraction connection via DN100 pipe, made of AISI 304L.
- Inlet for flocculated sludge, flanged DN 100 PN 10.
- Filter drum diameter 870 mm made with AISI 304L wedge-wire. The drum is split in three sections with 0.5mm / 0.4mm / 0.15mm spacing.
- An Archimedean screw in AISI 304L with a conical central shaft, supported by a gearmotor on the sludge inlet side, while on the other side there is a bushing in anti-lubricating material housed in an AISI 304L support.

- Rectangular outlet for dehydrated sludge, in AISI 304L.
- A filter drum washing system, complete with: a two-way solenoid valve with inlet, pressure gauge for visual control of the washing water pressure, a pressure switch for low pressure alarm, a mobile ring complete with nozzles along the length of the drum automatically activated via the PLC, to optimize water consumption.

- The supply of a disc filter to be installed at the washing water inlet to protect the nozzles sprayers.
- Group of sensors to manage and control the correct movement of the washing ring.
- Pneumatic group for the management and control of the back-pressure cone, complete with: a disconnecting valve with ¼" GF inlet, a pressure switch for low pressure alarm, an air regulator with filter and pressure gauge, a manual lever valve 5/ 2, two pneumatic cylinders.
- A sensor to measure the pressure of the sludge inside the drum which, via PLC, optimizes the sludge dehydration action automatically.
- Support in AISI 304L, to guarantee the correct height and 15° inclination of the unit.
- Junction box to connect the electrical panel to all the components present in the press a quickly.
- Electrical panel made of painted carbon steel and designed for wall installation, complete with Siemens PLC to control all machine functions. An HMI touchscreen is available on the control panel door to inform about the work cycles and anomalies detectable by the PLC. A synoptic is shown on the front of the panel to facilitate the interpretation of any alarms. The panel is complete with a main door lock disconnecter switch, control buttons and an auto/reset/man selector. The power section is composed of automatic circuit breakers, contactors and an inverter for the direct activation of the motors of the screw inside the filter drum and of the mobile washing system.

- 1 input is available on the terminal block for immediate stopping of the entire machine.
- 2 twin inlets for immediate stopping of the sludge and poly-electrolyte pumps and starting of the washing cycle (delayed stopping of the screw press).
- 3 free NO voltage outputs (start/alarm/enable sludge and poly-electrolyte pumps).
- 1 RS485 serial port is available on the HMI to allow communication via protocol. PLC and HMI are supplied with dedicated software to allow correct operation of the machine.

- Power supply: 400 V, three-phase, 50 Hz, 0.80 kW, IP65.

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	Use and maintenance manual Screw dehydrator for sludge	Pg. 12 to 40
		Rev. 2.0 from 05/13/2021

3.2.2 SAFETY DEVICES

The machine is equipped with the following safety devices:

- 1) Sludge detection sensor positioned in the entrance area, signals the presence of sludge treat, the auger will not start if there is no sludge.
- 2) Pressure switch for detecting pressure in the inlet area, detects an increase in the level of the sludge to be treated following a clogging of the filter drum, activates the drum washing system.
- 3) Double pair of sensors for detecting the maximum position of the washing bar, which ensures correct movement ($\pm 180^\circ$).
- 4) Safety hinges on all doors, which block the machine, stopping all moving parts (restarting is possible only after pressing the RESET button on the PLC panel twice).
- 5) Pressure relief valve immediately upstream of the pneumatic system.
- 6) Pressure switch upstream of the hydraulic washing system capable of detecting the absence/drop in pressure in the mains water, blocks the machine as the drum cannot be cleaned of blockages.
- 7) Cartridge filter upstream of the hydraulic washing system to prevent impurities from clogging the cleaning spray nozzles.

3.2.3 COMMANDS

The machine is able to work without an operator, the controls are reduced to a minimum and are used only during the set-up phase.

The first manual control is the lever of the pneumatic system (photo below), capable of activating the thrust cylinders of the counter-pressure cone.


Normally, during operation, the lever is positioned in the INSIDE position, indicating that the cone presses on the dehydrated sludge coming out. In some particular cases, such as after a long period of inactivity, the sludge could be excessively hardened and block the normal flow, it is therefore necessary that the cone is spaced by placing the lever in the OUT position, in this way it is possible to remove the clogging more easily.

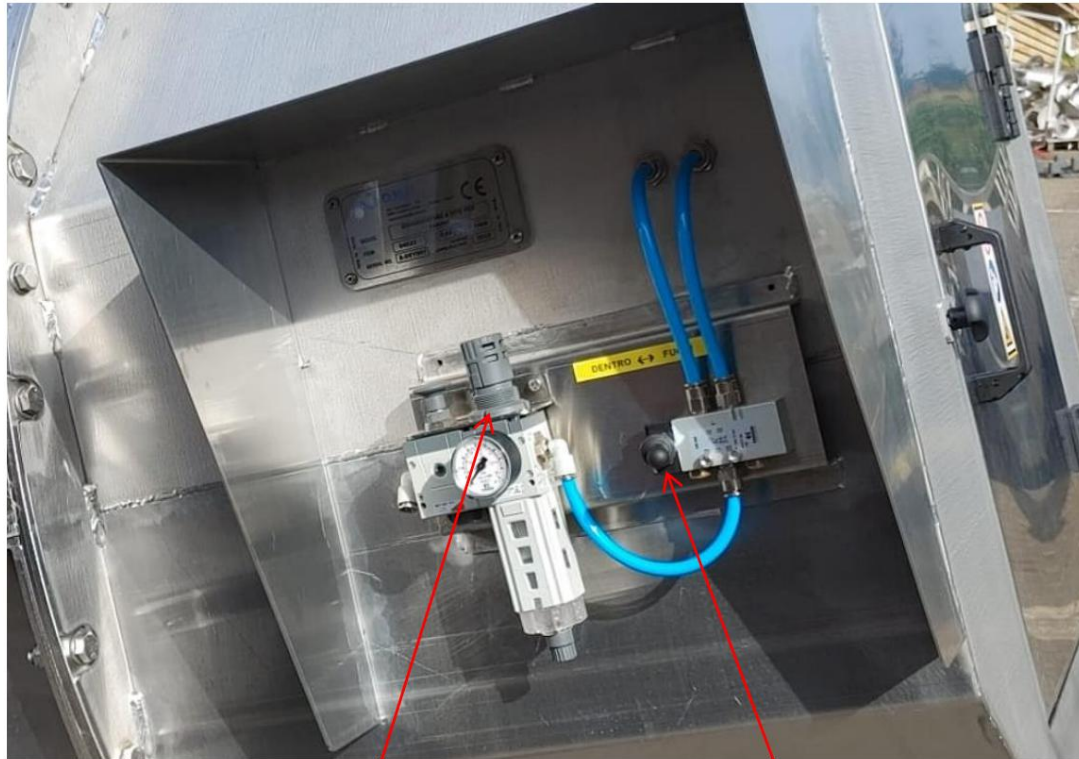
The second control is the cylinder pressure adjustment knob, the higher the pressure the greater the thrust of the cone on the dehydrated sludge coming out, the degree of dehydration of the sludge is at the user's discretion.

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REA RM n° 1570055 - Tax code. - VAT/Vat. number: 15134901006 – UNIQUE CODE: VI83O83 E-mail: commerciale@omit.tech



	Use and maintenance manual Screw dehydrator for sludge	Pg. 13 to 40
		Rev. 2.0 from 05/13/2021



KNOB
REGULATOR
OF PRESSURE

TAKE IT INSIDE-
OUT

3.2.4 TOUCH-SCREEN

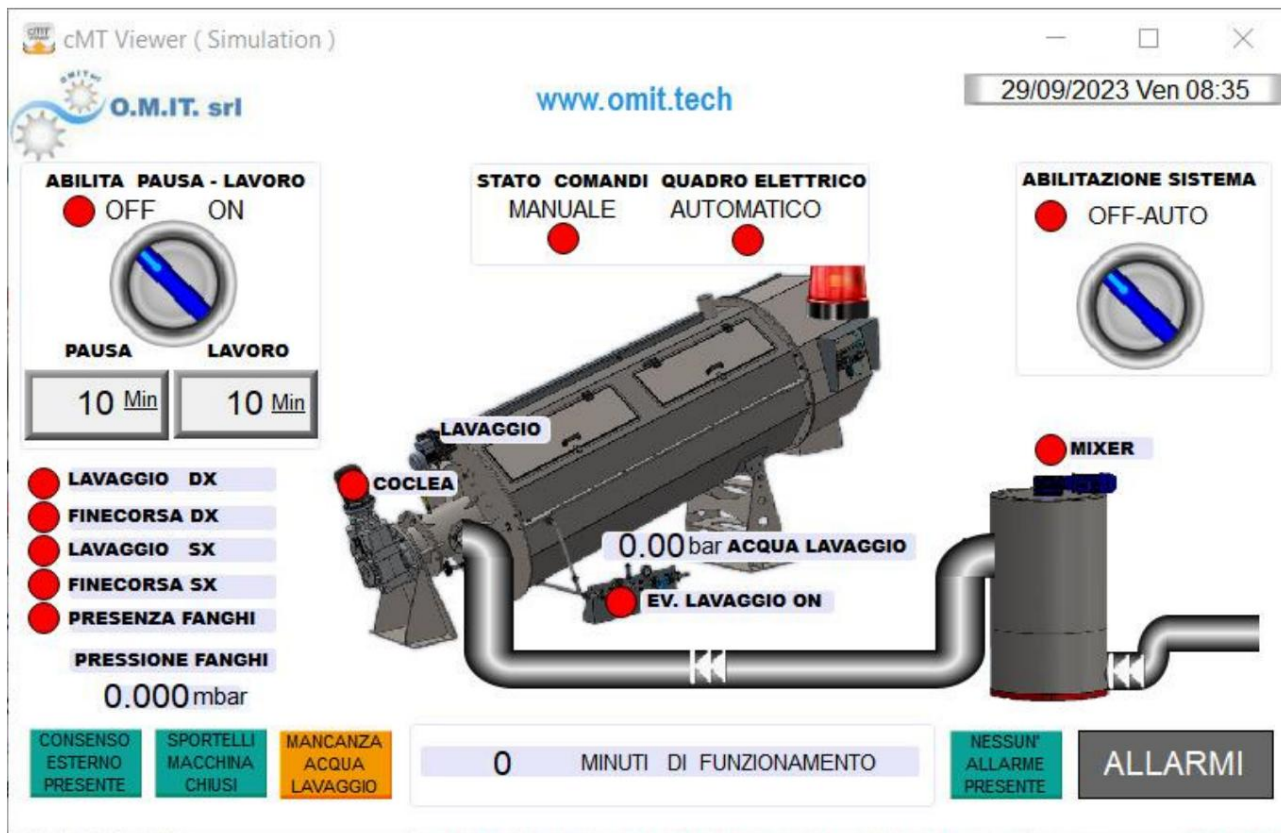
On the touch screen panel of the machine it is possible to set some operating values and view warnings/alarms, as indicated below.

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	Use and maintenance manual Screw dehydrator for sludge	Pg. 14 to 40
		Rev. 2.0 from 05/13/2021




- ENABLE WORK-PAUSE
- ON-OFF: when the selector is in OFF the machine operates continuously, depending on the quantity of incoming sludge, when the selector is in ON it works with the times set by the operator. • ELECTRICAL PANEL CONTROL STATUS • MANUAL-AUTOMATIC: indicates whether the machine is operating in automatic or manual mode. • SYSTEM ENABLE: it is the main selector, when in the OFF position the machine is not activated, when in the AUTO position the machine operates in automatic mode.
- WASHING: indicates the activation of the backwash gearmotor. • SCREW: indicates activation of the gearmotor of the internal compaction screw. • EV. WASHING ON: indicates the activation of the water solenoid valve from the external mains, it is activated only during the cleaning phase.
- WASH WATER (bar): indicates the pressure of the mains water system for cleaning. • MIXER: indicates the operation of the mixer gearmotor upstream of the machine. • RIGHT WASH: indicates the direction of rotation of the washing bar. • RIGHT LIMIT SWITCH: indicates that the backwash bar has reached the extreme position on the right, the movement is reversed.
- LEFT WASH: indicates the direction of rotation of the washing bar.

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	Use and maintenance manual Screw dehydrator for sludge	Pg. 15 to 40
		Rev. 2.0 from 05/13/2021

- LEFT LIMIT SWITCH: indicates that the backwash bar has reached the extreme position on the left, the movement is reversed.
- PRESENCE OF SLUDGE: indicates the presence of sludge at the machine inlet.
- SLUDGE PRESSURE (mbar): indicates the pressure of the sludge in the inlet area. •
- EXTERNAL CONSENT PRESENT: indicates the system is enabled. •
- MACHINE DOORS CLOSED: signals that all doors are closed, the machine is enabled movement.
- NO WASHING WATER: indicates the absence or too low pressure of water from the mains, the machine cannot carry out a cleaning cycle.

In the event of alarms or failures, different screens appear on the touch screen, with the information necessary to restore machine operation, as in the following images.


The cause of the failure/alarm is highlighted in orange.



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	Use and maintenance manual Screw dehydrator for sludge	Pg. 16 to 40
		Rev. 2.0 from 05/13/2021



3.2.5 STANDARD EXECUTION

In AISI 304 stainless steel, on request in 316L stainless steel.


3.2.6 OPERATION

The sludge to be treated coming from the mixer is introduced into the lower part of the machine (sludge inlet flange), the presence of the sludge is immediately detected by the "sludge presence" sensor. As the sludge level increases, it enters the drum and undergoes an initial screening (0.5 mm spacing). Following detection of the presence of sludge, the pushing screw conveyor is activated the sludge upwards, during movement the sludge is compressed and drained (0.4 mm spacing). The filtered part is collected in the collection tank that encloses the cylinder, and is sent downstream of the machine through the filtered outlet flange. When the sludge reaches the end area of the drum, it is pressed between the spirals of the conical screw and the counter-pressure cone, the spacing of the drum is 0.15 mm. Compaction depends on the pressure in the cone push cylinders. When the thrust in the sludge exceeds that of the cone, the latter moves away allowing the dehydrated sludge to escape from the drum and fall into the discharge hopper.

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REA RM n° 1570055 - Tax code. - VAT/Vat. number: 15134901006 – UNIQUE CODE: VI83O83 E-mail: commerciale@omit.tech



	Use and maintenance manual Screw dehydrator for sludge	Pg. 17 to 40
		Rev. 2.0 from 05/13/2021

3.3 IDENTIFICATION OF THE MACHINE

Serial number, machine model and other characteristics of the equipment are shown on the data plate of the machine shown in the figure below



4.0 GENERAL INSTALLATION INSTRUCTIONS

Before installation, check that:

- The electrical specifications of the equipment correspond to the specifications of the power line available;
- The equipment does not show any damage (caused by both transport and storage).

4.1 INSTALLATION


Before assembling the machine inside the structure for which it is intended, check that there are no obstacles or bodies or water present (if installation in a canal) or in the installation area and the supply pipe is closed (if installation on the floor with flange connection).

Check that the edges of the channel, and especially the bottom of the channel or floor are perfectly level.

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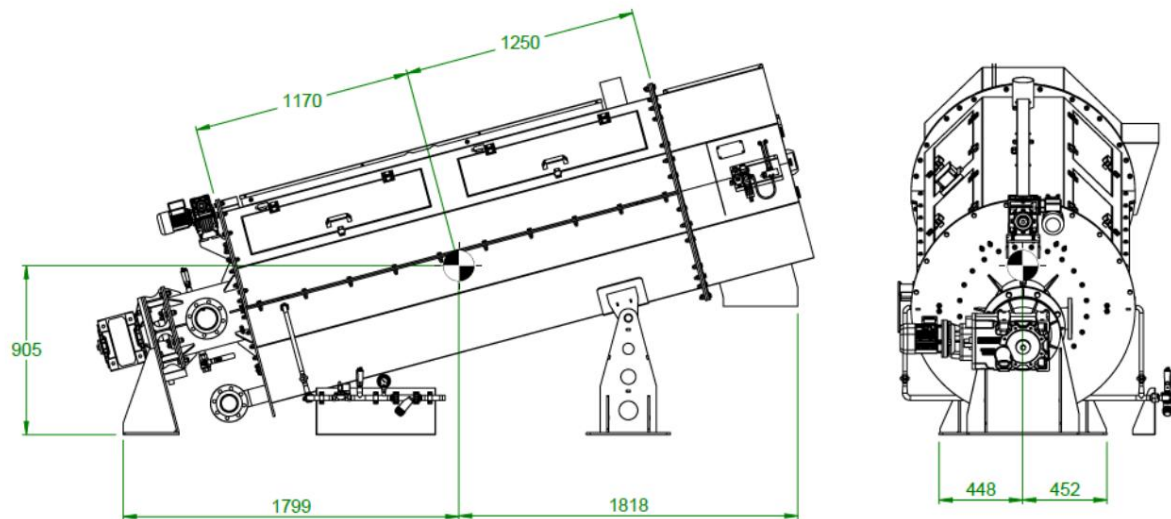
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	Use and maintenance manual Screw dehydrator for sludge	Pg. 18 to 40
		Rev. 2.0 from 05/13/2021

4.2 LOCATION OF THE CENTER OF GRAVITY

For the exact location of the center of mass refer to the following drawing



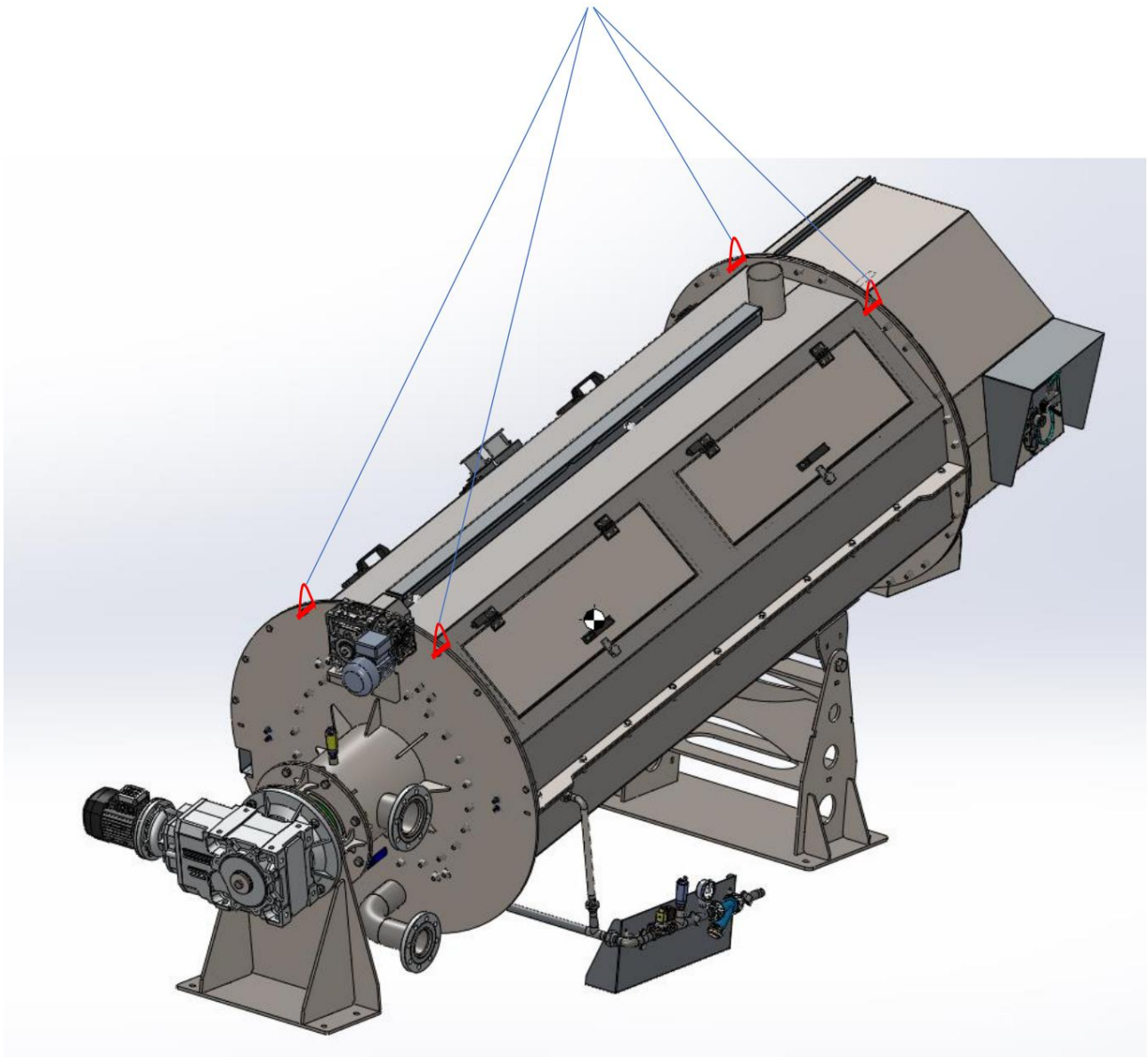
4.2.1 LIFTING USING BANDS/CHAINS

It is possible to lift the machine using 4 bands or chains, to be hooked to 4 M12 shackles (WLL min 630 kg, not supplied). Attach the shackles in place of 4 fixing screws of the plates in the position as shown in the following figure.

After lifting, replace the removed screws.


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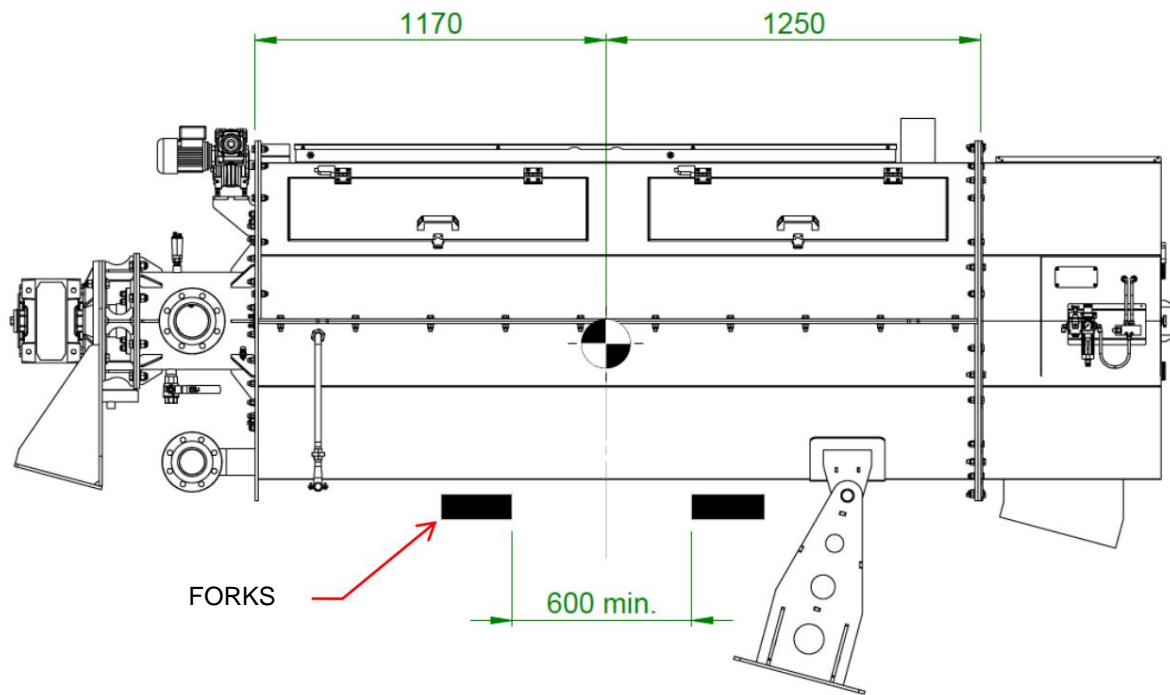
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	Use and maintenance manual Screw dehydrator for sludge	Pg. 20 to 40
		Rev. 2.0 from 05/13/2021

4.2.2 LIFTING WITH A FORKLIFT TRUCK

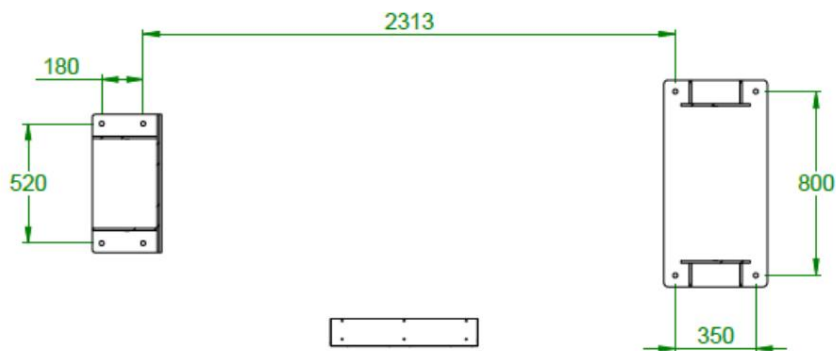
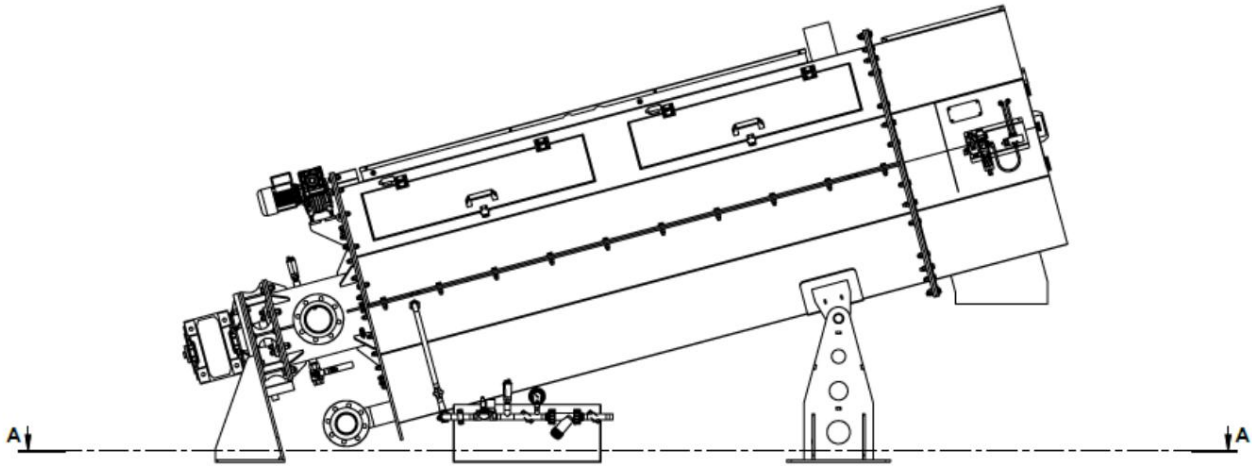
It is possible to lift the machine using a forklift (minimum capacity 5000 kg, fork length min. 1200 mm). Position the forks as indicated in the following figure:



Once the machine has been correctly positioned, proceed with fixing it to the concrete floor. It is recommended to use metal anchors (M16 or M18) and the holes provided on the base plates, as highlighted in the following image:

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SEZIONE A-A

Disegnato con AutoCAD 2010

5.0 OPERATING CHARACTERISTICS

The flocculated sludge enters the machine and is dehydrated through mechanical compaction which takes place in the increasingly smaller spaces between the conical spiral transport screw and the variable-spaced screening drum.

The filtered part is channeled towards the discharge pipe and the dehydrated sludge is conveyed into the discharge hopper.

The degree of dehydration of the output sludge is adjustable by managing the pressure in the thrust cylinders of the counter-pressure cone.

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	Use and maintenance manual Screw dehydrator for sludge	Pg. 22 to 40
		Rev. 2.0 from 05/13/2021

The cleaning of the grilling drum is automatic, when the level of sludge inside the drum increases due to excessive clogging/clogging of the screen, the machine starts a washing cycle.

Furthermore, the completely closed body prevents the spread of bad odors.

6.0 STARTING AND OPERATION

After the machine is fixed at the destination point, before starting it is necessary to ensure that:

- ÿ There are no obstacles to the movement of the washing bars (opening the side doors) and that the mechanical couplings are correct, the bearings and the gearbox adequately lubricated, the area must be free of objects and/or obstacles.
- ÿ There are no obstacles to the movement of the counter-pressure cone (opening the door rear), the area must be free of objects and/or obstacles.
- ÿ All hydraulic connections have been carried out correctly (sludge inlet, filtered outlet, possible odor extraction pipes)

Once the grill is electrically operated, you must ensure that:


- ÿ The electrical connections are correct;
- ÿ The controls of the electrical panel correspond to the actual functions and that the panel itself is functional, especially the emergency stop button;
- ÿ Start the machine from Quadro;
- ÿ Carry out a few turns of the empty screw (before conveying the incoming liquid), making sure that there are no obstacles to the rotary motion and checking that it rotates in the correct direction, uniformly, without jerks and without anomalous noises;
- ÿ Adjust the operating time of the wash based on its clogging by acting on the level control system, or on the timers present in the electrical panel;

NOTE: if the emergency button is pressed or a door with an emergency hinge is opened, the machine locks out and the warning lights on the touch screen turn red. To restart the machine you need to resolve the problem, close the door, unlock the emergency button and press the reset button (green) twice, pressing it fully.

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	Use and maintenance manual Screw dehydrator for sludge	Pg. 23 to 40
		Rev. 2.0 from 05/13/2021

6.1 MANUAL/AUTOMATIC/WORK PAUSE OPERATION

Manual/Automatic/Work Pause operation is described in detail in the attached WEINTEK Operator Panel manual.


7.0 TROUBLESHOOTING AND CORRECTIONS

PROBLEM	Cause	Correction
The auger does not rotate	The motor is not connected correctly	Connect the motor following the relevant attached manual
	Check that there are no error/failure indications on the touch screen	Eliminate the cause of the failure
	There are foreign bodies preventing movement in the hopper and/or along the auger path.	Remove foreign bodies
	The auger has deformations that prevent its movement due to foreign bodies and/or improper use of the machine	Replace the auger
	The grilling drum presents deformations due to improper use of the machine and/or impacts suffered during the unloading or moving phases of the machine	Have a specialized technician intervene or send the machine to our factory. garage
The auger does not transport the sludge present towards the exit	The direction of rotation of the auger is in the direction hours.	reverse the direction of travel
	The sliding pads are worn (only present on some versions)	Replace the sliding pads
	Check the hydration state of the incoming sludge is too high, all the sludge passes through the filter drum	Check the quality/state of the sludge at the entrance

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	Use and maintenance manual Screw dehydrator for sludge	Pg. 24 to 40
		Rev. 2.0 from 05/13/2021

PROBLEM	Cause	Correction
The auger rotates with difficulty or jerky	The drum and auger may be off-axis	Check the position and fixing of the UCF bearing positioned in the rear compartment
	The gearbox had an oil leak	Check the quantity of oil in the gearbox
The wash bars do not move	The washing system motor is not connected correctly	Connect the motor following the attached manual
	There are foreign objects preventing movement in the drum bowl	Remove foreign bodies
	The sprocket or gear chain is damaged	Replace the sprocket or chain (Attention: the chain is welded)
	The mains water pressure is not sufficient (less than 2 bar)	Work on the external water system
The wash bars do not move and the external water system is under pressure	Malfunction of the pressure switch or solenoid valve	Verify correct operation of pressure switch and solenoid valve
	The guide rollers are worn	Replace the rollers
Excessive loss of liquid from the packing	The packing (greasy cord) is worn	Tighten the fixing screws to compact the packing. If the leak does not stop, replace the packing

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	Use and maintenance manual Screw dehydrator for sludge	Pg. 25 to 40
		Rev. 2.0 from 05/13/2021

8.0 MAINTENANCE

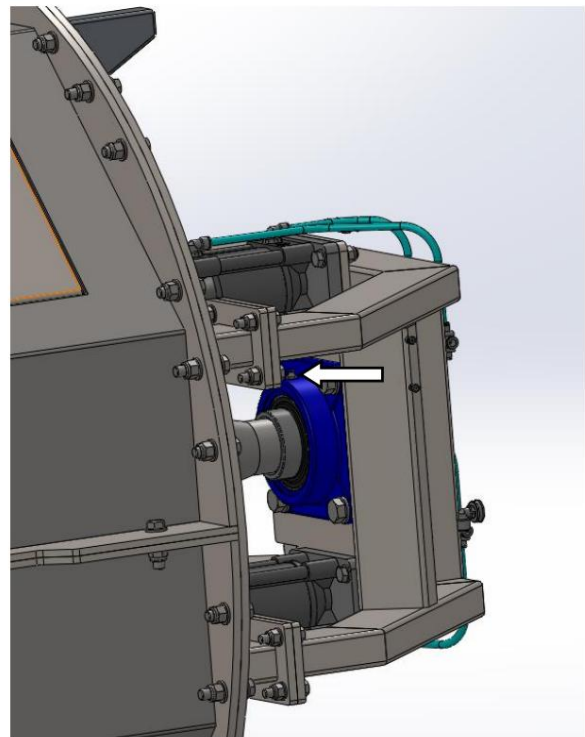


WARNING!

Before carrying out maintenance or service operations, check that the safety switch is locked in the OFF position.

8.1 UPPER BEARING

Grease the lower bearing indicated in the photo on the right based on the hours of actual use of the machine.



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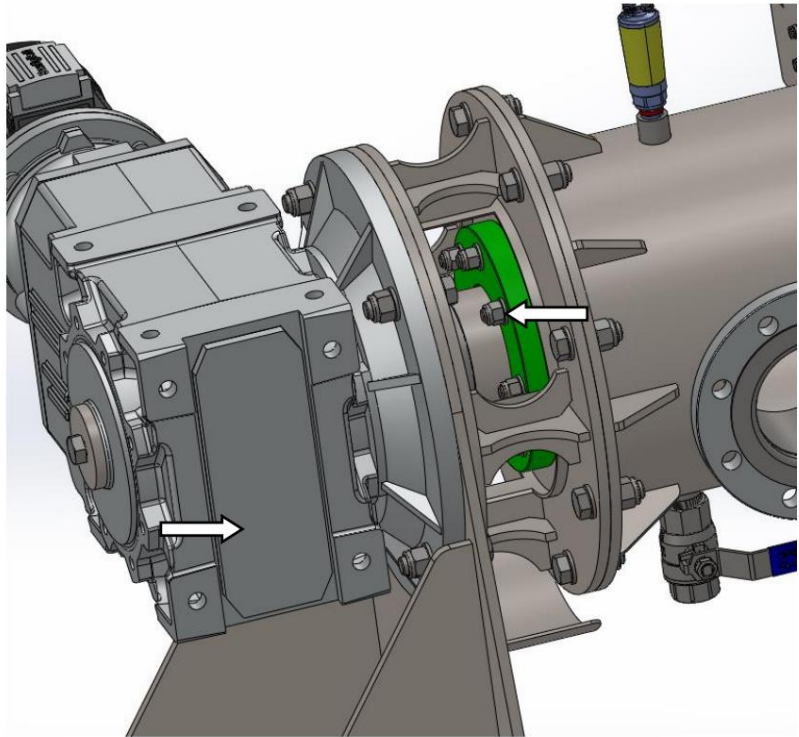



8.2 BADNER

In case of wear of the packing, simply screw the fixing nuts indicated by the arrow;

In case of replacement of
riot, proceed as follows:

- 1) Unscrew the fixing nuts,
- 2) Pull the disc back in
police,
- 3) Replace by the riot
making a ring of fat rope with a 16x16
square section
- 4) Press the packing
pushing the disc into polizene,
- 5) Screw the nuts removed previously.



	Use and maintenance manual Screw dehydrator for sludge	Pg. 27 to 40
		Rev. 2.0 from 05/13/2021

8.3 MOTORS AND GEARBOXES

Information on the motor and gearbox is contained in the relevant attached manuals.

8.4 WASHING BAR AND SPRAY NOZZLES

Remove the bayonet lock by turning it ¼ turn clockwise. Be careful not to loosen the rubber seal (Figure below).



Nozzles of
Wash



Clean the nozzle with compressed air or a plastic brush. Never use steel brushes or pins, as they may damage the nozzle.

Assemble the nozzle in reverse order. Tighten the stop by turning it ¼ turn clockwise and make sure it has reached the end of its travel.

Check spray nozzle wear



Fig. 7.4

New nozzle



Fig. 7.5

Worn nozzle

Nozzles tend to wear out and may need to be replaced. The duration depends on the quality of the rinse water. If the rinse water contains sand or similar particles, the nozzles wear out more quickly.

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	Use and maintenance manual Screw dehydrator for sludge	Pg. 28 to 40
		Rev. 2.0 from 05/13/2021

When a nozzle wears, its opening widens (see Figure 7.5). This leads to less efficient washing (modified dispersion) and greater consumption of rinse water.

It is therefore important to regularly check the functionality of the nozzles (at least once a year), replacing them if necessary.

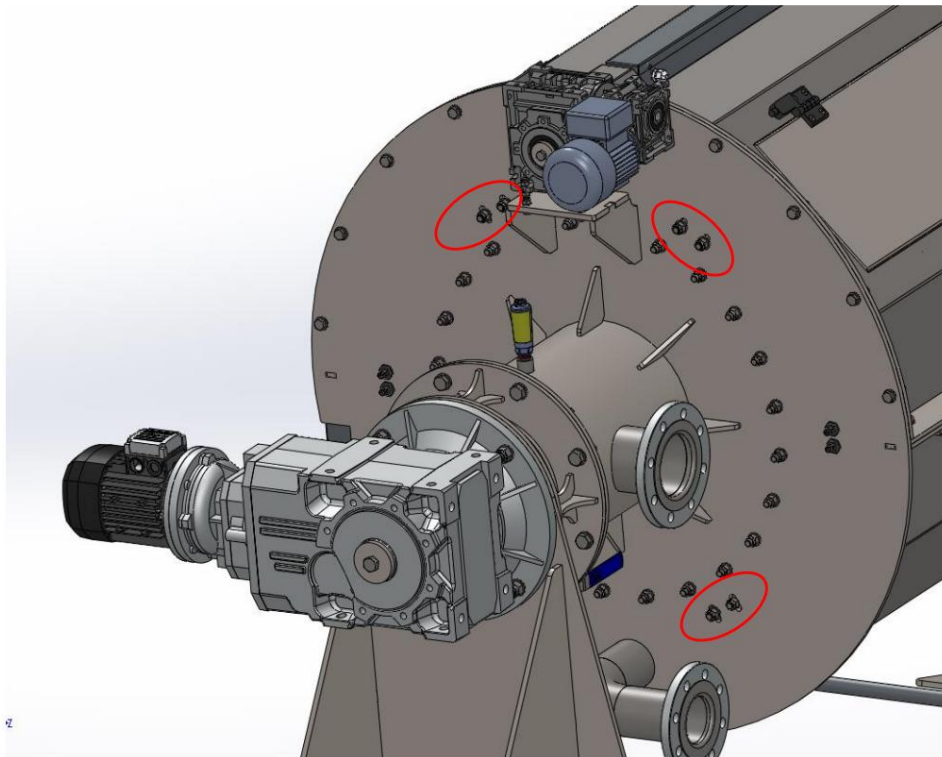
For a comparison between a worn nozzle and a new nozzle, see Figures 7.4 and 7.5.

8.5 WASHING BAR CENTERING ROLLERS

The washing system rotates on 8 plastic rollers, 4 positioned in correspondence with the lower plate and 4 on the upper plate which delimit the tank of the base structure.

The rollers are free to rotate around a pin welded to a base plate, which is able to move away or closer to the center of the drum thanks to slots shaped directly on the end plates. AND

It is possible to move the rollers so that the rotating assembly of the cleaning system rotates correctly. For correct operation, the 4 rollers must touch the metal ring of the rotating unit.



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	Use and maintenance manual Screw dehydrator for sludge	Pg. 29 and 40
		Rev. 2.0 from 05/13/2021

8.6 LIST OF CHECKS / OPERATIONS TO BE CARRIED OUT AND FREQUENCY

CONTROL / OPERATION	FREQUENCY
General cleaning	daily
Cleaning of accumulations in the discharge hopper	daily
Cleaning the drain chamber (base body)	7 gg
Visual check of the integrity of the drum	7 gg
Integrity check of the pneumatic pistons	7 gg
Integrity check of the washing bars	7 gg
Check for clogging of the cleaning nozzles	7 gg
Integrity of electrical components and other mechanical parts	7 gg
Gearboxes and Motor check attached manuals	30 gg

9.0 SCRAPPING

In the event of scrapping or demolition at the end of the machine's life, take care to dismantle it or have it dismantled by third parties and sort the various materials in the appropriate collection centers. Recover the oil from the gearboxes and deliver it to collection centers.

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	Use and maintenance manual Screw dehydrator for sludge	Pg. 30 to 40
		Rev. 2.0 from 05/13/2021

10.0 MACHINE RETURN

If you return the machine, if you have kept the packaging, reinsert it in it, otherwise fix it on a pallet and wrap it with heat-shrink nylon, trying to protect it as best as possible from any impacts resulting from transport.

IN ANY CASE MAKE SURE THAT THE MACHINE HAS NO MATERIAL RESIDUES.

11.0 STORAGE

11.1 STORAGE OF THE MACHINE FOR A LONG PERIOD

Avoid leaving the machine stopped for a long time and protect the product with heat-insulating films.

For periods of inactivity, all parts must be carefully cleaned. Place the equipment on wooden platforms and store it protected from bad weather. Before installing the machine, check the integrity of the electrical system. Fill the gearboxes completely with oil.

NB: If reassembling the machine, top up the oil level in the gearboxes.


12.0 WARRANTY

1. The machines are guaranteed for a period of 24 months from the date of delivery.
2. The warranty covers parts with recognized defects in material, construction or workmanship. It does not cover parts subject to normal wear (e.g. bearings) nor defects resulting from chemical corrosion or galvanic currents, from failure to observe the instructions contained in this manual, from modifications or repairs not expressly authorized.
3. The notification of defects must be made in writing and in no case authorizes the buyer to defer or suspend payments, much less to consider the contract resolvable.
4. The guarantee is recognized exclusively to buyers who have punctually respected the payments due at the time of the notification.
5. The supplier, during the warranty period, undertakes to repair or supply new, at his discretion, free of charge and ex works of origin, in the shortest possible time, those parts which present recognized defects in material, construction or of processing.

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	Use and maintenance manual Screw dehydrator for sludge	Pg. 31 to 40
		Rev. 2.0 from 05/13/2021

6. The machines or parts which, during the warranty period, show operational defects or construction defects, must be inspected by our specialized personnel upon notification in writing or returned carriage paid to the supplier's workshop, which will carry out the repair. or replacement by then returning the repaired or replaced material freight collect. All costs relating to the dismantling of the machines or their parts from the place where they were installed, and their subsequent reassembly, are borne by the buyer. If it is agreed that the repairs under warranty must be carried out on the installation site, the supplier will make the necessary specialized personnel available, with the prior understanding that these services will be charged according to the rates in force at the time of the intervention. In this case, the means necessary for the success of the repair and the necessary help labor must be paid by the buyer and promptly made available to the supplier's staff.
7. OMIT. Srl declines all responsibility for any direct or indirect damage resulting from improper use of the machines or from their failure to use for repairs during the warranty period.
8. For further clarification and warranty documentation, please refer to the purchase contract of the car.

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	Use and maintenance manual Screw dehydrator for sludge	Pg. 32 to 40
		Rev. 2.0 from 05/13/2021

13.0 SPARE PARTS LIST

Part Code	Description	Material	Code Concept	QTA'
04523_B001_0_S-Dey001	Fat Rope	Nylon 101		2
04523_B002_0_S-Dey001	Threaded bar M12 L40	AISI 304		16
04523_B003_0_S-Dey001	Catena 16B-1 AISI 304 L1600	AISI 304		1
04523_B004_0_S-Dey001	Collar spacer	AISI 304		3
04523_B005_0_S-Dey001	AerStop Body Door	NBR		4
04523_B006_0_S-Dey001	AerStop Bonnet Door	NBR		1
04523_B007_0_S-Dey001	Flexible Spray Hose air_hose	Cf		2
04523_B009_0_S-Dey001	air hose	AISI 304		1
04523_B010_0_S-Dey001		AISI 304		1
04523_B011_0_S-Dey001 tube aria		AISI 304		1
04523_B012_0_S-Dey001 PIPE ARIA		AISI 304		1
04523_B013_0_S-Dey001 PIPE ARIA		AISI 304		1
04523_B014_0_S-Dey001 PIPE ARIA		AISI 304		1
04523_B015_0_S-Dey001 PIPE ARIA		AISI 304		1
04523_B016_0_S-Dey001 ARIA TUBE aria tube		AISI 304		1
04523_B017_0_S-Dey001		AISI 304		1
04523_C001_0_S-Dey001	WW FITO D628 L800 Drum Spaz 0.5 WW FITO	AISI 304	C000471	1
04523_C002_0_S-Dey001	D628 L800 Drum Spaz 0.4 WW FITO D628 L800	AISI 304	C000472	1
04523_C003_0_S-Dey001	Drum Spaz 0.15 Spiral with Conical Core Flange for	AISI 304	C000473	1
04523_C004_0_S-Dey001	flange DN100 Free Flange	AISI 304	C000476	1
04523_C005_0_S-Dey001	PN10 DN100 UNI1092-1 ALU Bend	AISI 304	C300091	1
04523_C006_0_S-Dey001	DN80 3" AISI 304	ALL	C300095	1
04523_C007_0_S-Dey001		AISI 304	C300010	1
04523_C008_0_S-Dey001	Flange for DN80 flange	AISI 304	C300090	1
04523_C009_0_S-Dey001	Free Flange PN10 DN80 UNI1092-1 ALU	ALL	C300094	1
04523_C010_0_S-Dey001	1" DN25 AISI 304 FF Ball Valve	AISI 304	C000041	1
04523_C011_0_S-Dey001	Tronch Thread DN20 ¼ Inch	AISI 304	C300002	7
04523_C012_0_S-Dey001	¾p TEE DN20 fitting	AISI 304	C300065	2
04523_C013_0_S-Dey001	Tab 18x11 L80 DIN 6885 Stainless steel	AISI 304	C400197	2
04523_C014_0_S-Dey001	Threaded stub DN25 1" AISI 304	AISI 304	C200001	1
04523_C015_0_S-Dey001	¾" AISI 304 collar	AISI 304	C300082	5
04523_C016_0_S-Dey001	UCF 212 Sprayer	S235	C200223	1
04523_C017_0_S-Dey001	Support 0° Nozzle + 1/2" Collar	AISI 303	C400006	26
04523_C018_0_S-Dey001	Cuscinetto SKF 6002.2RS Inox	AISI 304	C300099	16
04523_C020_0_S-Dey001	cone from DN20 ¾p to DN15 ½p 90°	AISI 304	C300029	2
04523_C021_0_S-Dey001	bend DN20 ¾p Threaded	AISI 304	C300006	2
04523_C022_0_S-Dey001	sleeve 1/2" AISI 304 Gearmotor CMM	AISI 304	C100027	7
04523_C023_0_S-Dey001	040-070 U i=400 56B14 UB1 M1+Motor 0.25 kW	ALL	C000620	1
04523_C024_0_S-Dey001	Seeger Ring for Shaft Ø28 UNI 7435 Key 8x7 L32	AISI 304	C200056	1
04523_C025_0_S-Dey001	DIN 6885 Stainless Steel	AISI 304	C200224	3


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	Use and maintenance manual Screw dehydrator for sludge	Pg. 33 and 40
		Rev. 2.0 from 05/13/2021

Part Code	Description	Material	Code Concept	QTA'
04523_C027_0_S-Dey001	manual Y-shaped plastic filter 3/4p disc ring nut Threaded		C300219	1
04523_C028_0_S-Dey001	socket DN15 1/2" AISI 304 solenoid	AISI 304	C100004	20
04523_C029_0_S-Dey001	valve 3 4p FF 24V AC NC 3-piece joint FF 1/2"		C001125	1
04523_C030_0_S-Dey001	AISI 316 Tee 1/2" AISI 304 welded Elbow	AISI 316	C400135	8
04523_C031_0_S-Dey001	DN15 1/2" AISI 304 Motor Electric	AISI 304	C300064	2
04523_C032_0_S-Dey001	0.55 kW 6 Poles 80B5 F2C Flange	AISI 304	C100006	6
04523_C036_0_S-Dey001	for Bonfiglioli Reducer Bonfiglioli Reducer A 55 4	ALL	C000621	1
04523_C037_0_S-Dey001	UH60 714.7 P80 B8 LO BXN	ALL	C000622	1
04523_C038_0_S-Dey001		ALL	C000084	1
04523_C039_0_S-Dey001	BCS Capacitive Level Sensor S44KK02-GPCFNG-EP02		C300216	1
04523_C040_0_S-Dey001	Pressure Transducer Without Display (VEGA)	AISI 304	C001062	1
04523_C041_0_S-Dey001	Bridge handle M.443_140-6-N-CH threaded	POM	C100011	5
04523_C042_0_S-Dey001	sleeve 1/4p pressure gauge	AISI 304	C200016	3
04523_C043_0_S-Dey001	connection 1/4" case Ø60 glycerine BALLUFF BESM18MI2-		C200015	1
04523_C045_0_S-Dey001	PSC80B-S04G manual shut-off valve MD1-V01		C0011214	4
04523_C046_0_S-Dey001			C300223	1
04523_C047_0_S-Dey001	filter MD1-FR0000-1/4p camozzi fork regulator G-80-100		C300224	1
04523_C048_0_S-Dey001			C300221	2
04523_C049_0_S-Dey001	Cylinder anchoring plate DE-41-80		C300222	2
04523_C051_0_S-Dey001	MD1-C junction bushing kit		C300226	1
04523_C052_0_S-Dey001	Threaded bushing kit MD1-A-1/4"		C300227	2
04523_C053_0_S-Dey001	Pressure gauge M043-P10		C300228	1
04523_C054_0_S-Dey001	spool valve + lever 358-900 brass bulkhead		C300229	1
04523_C055_0_S-Dey001	fitting 6590-8 M16-1 rapid Camozzi		C300230	2
04523_C056_0_S-Dey001	straight male S-quick fitting S6510 8-1/8" swivel male elbow		C300231	3
04523_C057_0_S-Dey001	fitting 7522 8-1/4" Camozzi		C300232	2
04523_C058_0_S-Dey001	swivel male elbow fitting 7522 8-3/8" Camozzi		C300233	4
04523_C059_0_S-Dey001	S-quick T fitting 7540 tube 8 Camozzi threaded cap DN8		C300234	2
04523_C060_0_S-Dey001	1/4p stainless steel 316		C000197	1
04523_C061_0_S-Dey001	Pressacavo PG9	Rigid PVC		5
04523_C062_0_S-Dey001	Scatola Deriv Allum 217x253x93	ALL	C300097	1
04523_C063_0_S-Dey001	Scatola Deriv All 140x115x61	ALL	C200132	1
04523_C064_0_S-Dey001	Pressacavo PG21	PVC rigid		1
04523_C065_0_S-Dey001	1p hose clamp pressure switch	AISI 304	C000108	4
04523_C066_0_S-Dey001	range 0.01-0.1 1/2" hose holder	AISI 304	C300235	1
04523_C067_0_S-Dey001	diameter 20 AISI 316 Centering shoe Plex cone plate		C400121	4
04523_N001_0_S-Dey001		Polizene		2
04523_N002_0_S-Dey001		PMMA		1

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	Use and maintenance manual Screw dehydrator for sludge	Pg. 34 and 40
		Rev. 2.0 from 05/13/2021

Part Code	Description	Material	Code Concept	QTA'
04523_N003_0_S-Dey001	Police spiral	Polizene		1
04523_S001_0_S-Dey001	AISI 304 plate metal	AISI 304	S0019	1
04523_T001_0_S-Dey001	Polizene Bushing Cone	Polizene		1
04523_T002_0_S-Dey001	Lower Polyzene Bushing	Polizene		1
04523_T003_0_S-Dey001	Striping Wheel Sprayers	Polizene		8
04523_T004_0_S-Dey001	Crazy Tree	AISI 304		1
04523_T005_0_S-Dey001	Crankshaft	AISI 304		1
04523_T006_0_S-Dey001	Sprayer Wheel Axle	AISI 304		8
04523_T007_0_S-Dey001	Washing Crankshaft	AISI 304		1
04523_T008_0_S-Dey001	Pinion Z10 ISO 606 16B-1 L35 D55 d28 fe	S235	C200225	1
04523_V001_0_S-Dey001	Washer M8 A2 DIN 433	304 AISI 304 VT020005		36
04523_V002_0_S-Dey001	Self-locking nut M8 A2 DIN 982	304 AISI 304 VT010006		27
04523_V003_0_S-Dey001	stainless steel threaded pin PFH M6x30		VT050052	2
04523_V004_0_S-Dey001	Hexagonal Head Screw M8x50 A2 DIN 933 hexagonal	AISI 304 VT000094		8
04523_V005_0_S-Dey001	nut M8 A2 hexagonal threaded		VT010046	3
04523_V006_0_S-Dey001	insert M5 stainless steel	AISI 304 VT030015		18
04523_V007_0_S-Dey001	Hex Head Screw M16x70 A2 DIN 933	304 VT000174		8
04523_V008_0_S-Dey001	Flat Washer M12 A2 DIN 125A	304 VT020003		288
04523_V009_0_S-Dey001	Self-locking nut M12 A2 DIN 982	304 AISI 304 VT010005		180
04523_V010_0_S-Dey001	Hex Head Screw M24x70 A2 DIN 933	304 VT000380		2
04523_V011_0_S-Dey001	Washer M16 A2 DIN 125	304 AISI 304 VT020001		32
04523_V012_0_S-Dey001	Hex Head Screw M16x50 A2 DIN 933	AISI 304 VT000032		9
04523_V013_0_S-Dey001	Self-locking nut M16 A2 DIN 982	304 AISI 304 VT010001		16

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	Use and maintenance manual Screw dehydrator for sludge	Pg. 35 to 40
		Rev. 2.0 from 05/13/2021


ANNEX A

CE DECLARATION OF CONFORMITY

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	Use and maintenance manual Screw dehydrator for sludge	Pg. 36 to 40
		Rev. 2.0 from 05/13/2021

ANNEX B

TEST REPORT

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	Use and maintenance manual Screw dehydrator for sludge	Pg. 37 a 40
		Rev. 2.0 from 05/13/2021


ANNEX C

TECHNICAL DRAWINGS

O.M.IT. s.r.l.

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	Use and maintenance manual Screw dehydrator for sludge	Pg. 38 to 40
		Rev. 2.0 from 05/13/2021


ANNEX D

GEAR MOTOR DOCUMENTATION(S).

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	Use and maintenance manual Screw dehydrator for sludge	Pg. 39 and 40
		Rev. 2.0 from 05/13/2021

ANNEX E

ELECTRICAL PANEL MANUAL

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	Use and maintenance manual Screw dehydrator for sludge	Pg. 40 a 40
		Rev. 2.0 from 05/13/2021

ANNEX F

WEINTEK OPERATOR PANEL MANUAL

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