



USER MANUAL

EYS SUBMERSIBLE MIXER

DK75
DK11
DK15
DK185

January 2023

Congratulations on your purchase of EYS Submersible Mixer!

We are glad that you chose EYS submersible mixer and are confident that you will be more than satisfied with your purchase.

This manual is intended to provide basic information about the operation of the EYS mixer, and to point out to main areas of consideration while operating and maintaining the machine. Please read this manual carefully before operating the machine and keep it in an easily accessible place for future reference. If any of your questions or concerns are not covered in this manual, please contact the respective dealer who had installed the machine.

If you are not able to reach your dealer and in need of immediate support, then please contact EYS directly at:

 	
EYS Endüstri Makina San. ve Tic. A.Ş.	EYS GmbH
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www.e-y-s.com info@e-y-s.com	www.eyes-gmbh.de info@eyes-gmbh.de
	

Apart from providing technical and operational instructions, this manual also includes certain safety warnings that must be followed by the user. **The safety instructions and warnings listed in this manual are by no means a complete list of all safety concerns associated with operating the machine. Users must apply common sense and abide by the general safety guidelines that govern operating of machinery.**

Contents of this manual refer to the latest product models currently in production at the time of preparation of the document. EYS reserves the right to make changes in the product design at any time.

Carefully following the instructions set forth in this manual are essential for maintaining operator safety as well as the longevity and efficiency of the machinery.

This user manual is an important part of EYS submersible mixer. It is recommended that the suppliers of submersible mixer provide the machine together with this manual to the customer.

Please make sure that the operator in charge of operating and/or maintaining this product has full access to this manual and that he/she has read it entirely prior to running or maintaining the machine. Also please record your product model number and serial number from the machine tag to the following section. These info will be necessary and useful when ordering spare parts in the future.

Congratulations again on your purchase of EYS submersible mixer!

PRODUCT INFO

Product : SUBMERSIBLE MIXER

Model : ☐ DK75 ☐ DK11 ☐ DK15 ☐ DK185

Serial Number : _____

Dealer : _____

Adress : _____

Telephone: _____

Fax : _____

Installation Date: _____

Manufacturer : EYS ENDÜSTRİ MAKİNA SANAYİ VE TİCARET A.Ş.
TEPECİK MAHALLESİ, ŞEHİT PİYADE ER M.ALİ TOSUN BULVARI, NO: 234 / 1
EFELER, AYDIN, TÜRKİYE
TEL: 0 (256) 231 05 98, 231 11 38, 231 05 76, 231 05 77
FAKS: 0 (256) 231 11 01
e-posta: info@e-y-s.com
internet: www.e-y-s.com, www.eyseparator.com

This form confirms that the product installation and start-up has been completed successfully. Basic training has been provided and this manual has been handed over to the responsible personnel below.

Responsible person on behalf of
the dealer/distributor
(date and sign)

Responsible person on behalf of
the customer
(date and sign; please print name)



ATTENTION

Manufacturer's warranty is not valid unless this form is signed and dated upon installation!

INTRODUCTION

Qualified Operators should be properly trained in their assigned area of responsibility, be knowledgeable about general machinery handling precautions and related hazards/risks, capable of foreseeing and preventing potential damages to the machine before they happen, and be able to apply necessary first-aid practices as necessary.

Operational Responsibility

Responsibility of operating the machine in accordance with its intended purposes lies with the customer. The manufacturer is not in anyway responsible for any damages that may be caused by inappropriate handling of the waste streams resulting from the operation of the product. Likewise, the manufacturer can not be held responsible for any damages resulting from the use of un-approved and/or non-original spare parts on the machine.

Second-hand Ownership

In the case of transfer of ownership of the product to a new customer, the original owner is responsible for handing over this user-manual to the new owner. New owner must be informed and trained about the basic operation of the product accordingly.

Operational Liability

The entire liability of operating the product properly lies with the customer. The customer is responsible for making sure that the product is used in accordance with the guidelines set forth in this document, plus other general machinery operating rules that may not be covered here but are expected to be known by any machinery operator. The maximum liability of the manufacturer in any event can not exceed the monetary value of the product itself.

Purpose

EYS Submersible mixers are produced to agitate and homogenise the manure in the raw manure pits. Operations apart from the structure mentioned above considered as inappropriate use. The manufacturer is not responsible for the results occurred of inappropriate use. The damages which will be resulted of the inappropriate use will be the buyer's responsibility. The purpose of the operation of the machine at the same time covers the conformity with the start of the machine, maintenance and service instructions. EYS Submersible Mixers should be used by only staff who are able to cope with the damages which may occur from the machine. The prevention of the accidents and all first aid rules should be analyzed carefully. Any change that will be done on the machine by unauthorized staff will make the manufacturer not to be responsible for the possible damages.

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	WARNING	This warning box is used to highlight safety related precautions through the document. Remember that there is risk of personal injury with every “warning” sign topic and it is of utmost importance to understand and follow the contained information.
	CAUTION	Failure to follow instructions can result in damage to a part or the whole of the machine, possibly putting the machine out of commission.
	NOTE	It is especially important to understand and implement the instructions highlighted therein for the successful long-term operation of the machine.
		All control panels must be grounded.
		Freezing hazard.
		Read the instructions.
		Use your personal protective equipment.
		Danger of explosion.
		Before starting the machine, check electric cables against damages.
		Danger of fire.
		Electrical shock or burn hazard.
		Do not use the machine without checking all parts.
		In case of leakage of oil or protective materials, prevent contact with skin.
		Provide sufficient lightning in the area.
		All electrical and safety connections must be done according to local regulations.

1. SAFETY INSTRUCTIONS

1.1. For Correct and Safe Usage

To use EYS ex-proof submersible mixers correct and safe, follow below steps!

1. Never change thermic (TKR-15 relay) settings. Never disable or bypass thermic or phase protection relays.
2. If voltage is different than identification label or the value range in this manual, don't start the engine. Contact EYS.
3. Make sure the control panel is properly ventilated and protected against rain and moisture.
4. Professional electricians should maintain control panels in 6 month periods and malfunctioning and defect parts should be replaced.
5. Never supply power from EYS mixer control panel to external devices or external environments.
6. Send control panel along with machine to manufacturer or supplier, in case needed.
7. In addition to the specific instructions contained in this document, general machinery operating rules and precautions must be followed! 
8. Safety related signs are marked on the product as necessary. These signs and stickers are important for personal safety, so do not remove them!
9. Do not operate the machine before replacing/installing all safety and protection related parts/covers! 
10. Make sure you understand the general functioning principle of the machine before operation!
11. Put on relatively snug operational outfit when operating the machine. Loose outfits and long sleeves can get caught by the moving parts during operation and servicing. 
12. Slurry can emit flammable gases under certain conditions; so avoid smoking or carrying open fire near the machine! 
13. Machine should be installed at a properly ventilated area. Avoid spending long periods of time in poorly ventilated areas around the slurry! 
14. Make sure illumination is enough when using or maintaining the machine.
15. Keep the machine and platform clean to prevent any fire hazard.
16. All electrical work except standard maintenance must be carried out by a professional electrician! 
17. Malfunctioned or defect plug, socket etc. must be replaced by a professional electrician!
18. If there is an application including plug and socket (hoist, modular control panel etc.) never unplug cables. Firstly make sure the machines are not running and main power is off. A damaged electric cable may cause leakage of electricity and cause short circuit. Never cut electric cables (to pass the cable through wall etc.). pull the plug not cable.
19. Extension cables which are connected to main power line or extension cables which will be used for main power line must only be used for a short time! Never should be a long term solution! 
20. If extension cables are to be extended on a road, they must be connected from 5 meters height minimum.
21. When executing any operation on the machine, make sure the main power is off!
22. Before starting the machine always check cables for damages, cuts etc. protect cables from direct sunlight, sharp edges and oil. Replace unusable cables before starting the machine.
23. If there is not enough precautions against moisture and dust in sticky or fire risky area, don't use electrical equipment.

24. Covering electric motors can prevent proper cooling and can cause heat consistence and can cause harm to the equipment, even fire!

**NOTE**

Make sure all the malfunctions are solved when the power is back on.

**NOTE**

Check electric cables regularly. This process must be done after the main power is cut off.

**NOTE**

It's strictly forbidden for unauthorized, untrained people to use, maintain the machine or be around it.

Contact EYS Endüstri Makina Sanayi ve Ticaret A.Ş. or EYS GmbH or your supplier for any mechanical or electrical failure or maintenance.

Control Panel

Electrical values of control panel of EYS submersible mixer are given on machine tag. Electrical values of main power line should be compatible with machine tag.



All control panels must be grounded!

1.2. Possible Miss-Use and Their Probable Outcomes

MISS-USE	PROBABLE OUTCOME
TKR-15 relay in control panel is disabled.	This relay protects ex-proof submersible mixer against overheating and liquid leakage into oil chamber. If relay is disabled, these functions will be disabled as well. Manure leaked into oil can penetrate into stator over time or a dry running submersible mixer could overheat over time.
No grounding of control panel.	If there is a fault current, operator could be exposed to it, when he interferes with control panel.
If machines are installed in places without proper ventilation, smoking in such areas.	When in contact with gas in an environment with insufficient ventilation, danger of explosion or burning occurs.
If machines are installed in places without proper ventilation, using welding machine or grinder in such areas.	Sparks from welding or cutting profiles etc. can cause explosion or ignite with gas in the area.
Main power is not turned off before interfering with main control panel.	Operator has the risk to be exposed to electric current, when he/she interferes with control panel.
Protective equipment (gloves, shoes, glasses etc.) is not worn when interfering with main control panel.	
Connecting external machines to control panel such as welding machine, extension cable, drill etc.	Circuit breaker and other components are selected according to main equipment. Overloading due to external equipment connection can damage components in control panel.
Running submersible mixer, when manure level in tank/pit is less than a meter.	If TKR-15 relay is not disabled, it will protect submersible mixer against overheating. If relay is disabled, submersible mixer will continue working and stator will burn.
Leaving submersible mixer cable unattended and loose in manure instead of fixing it with cable clips.	If cable is not fixed to steel rope of hoist by using cable clips, cable might contact with submersible mixer propeller. In that case, cable can be damaged and cable replacement will be required.
Trying to remove propeller without turning off main power.	If a person presses start button on control panel, operator can be harmed.

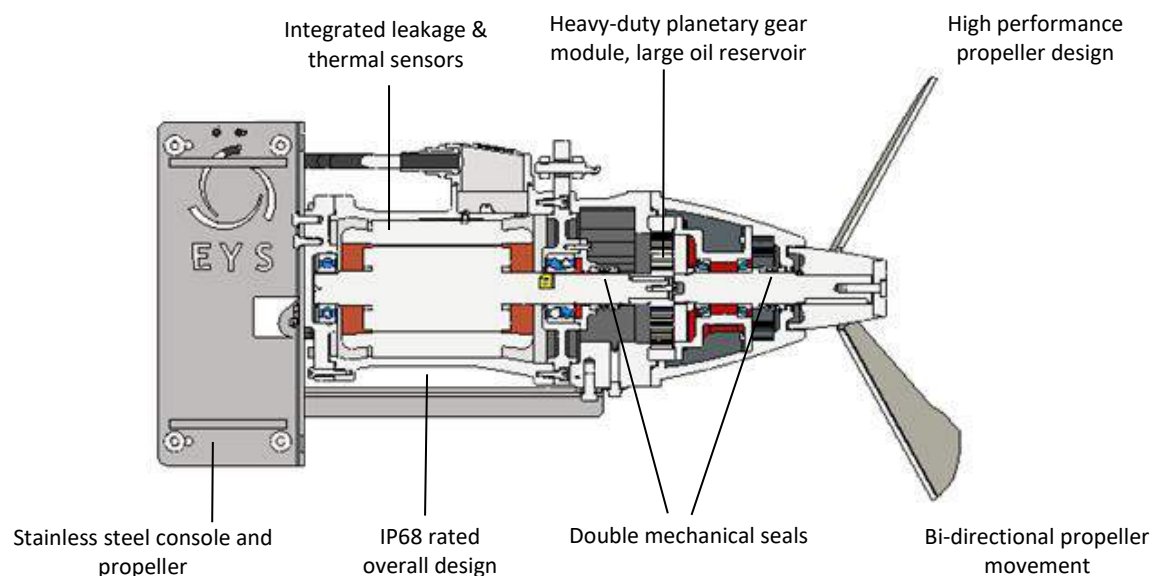
2. GENERAL INSTRUCTION

All EYS machine and equipment are quality controlled at each stage of production process. The submersible mixers are produced to satisfy fully the needs in the manure pits and biogas systems. They are proper to be used in the liquid slurry pits which have high viscosity or high liquidity. Additional advantage of the submersible mixers are the short usage time, ease of use and to be safe with maximum performance.

Submersible mixer is driven by three-phase submersible motor. Before running the mixer, please check conformity with the voltage indicated on the label and the voltage on the facility.

In order to increase the running efficiency and to ease the maintenance, submersible mixer should be used with its own installation platform.

Even the mixer seems to have an easy design, all information in the user manual should be read carefully and should be applied for correct use. Under these circumstances, your machine will serve for long years with the highest efficiency.



3. HANDLING

When handling the mixer with/without package, always make sure the mixer and cable aren't exposed to any damage.

Always check the mixer and accessories before accepting the product against damages etc. any damage which occurred after the customer received the mixer will not be covered by warranty.

 NOTE	Rope/chain of hoist which is used to lift the mixer must be checked regularly against damage, wear and foreign materials.
 NOTE	If hoist controller is broken (stuck button, not working etc.), disable power supply. Take necessary precautions to keep controller away from water.
 NOTE	Mounting on mixer is forbidden and dangerous.



In case of frost hazard, store the mixer in a suitable place to prevent freeze.

4. OPERATION PRINCIPLE

Submersible mixers have three-phase submersible motor with the electric connection cable and also oil reservoir, planet shaft and propeller. Submersible mixers come with 7,5, 11, 15 or 18,5 kW stators depending on model. There is a thermistor to determine overheating in the electric motor. This thermistor is connected to the protection relay called “TKR-15” in control panel. There is also a liquid leakage probe connected inside the body of mixer. The probe works inside oil. This probe is also connected to the TKR-15 relay which protects the mixer against liquid leakage and overheating (max. 155°C).

Inside control panel, there is also another relay which protects stator against high current values. In addition to all these protection, there is also FKR relay (phase protection relay) which prevents the damages to mixer and the equipment in control panel that may occur from instability in the phases. The control panel which has all these functions can be supplied as a part of the mixer.

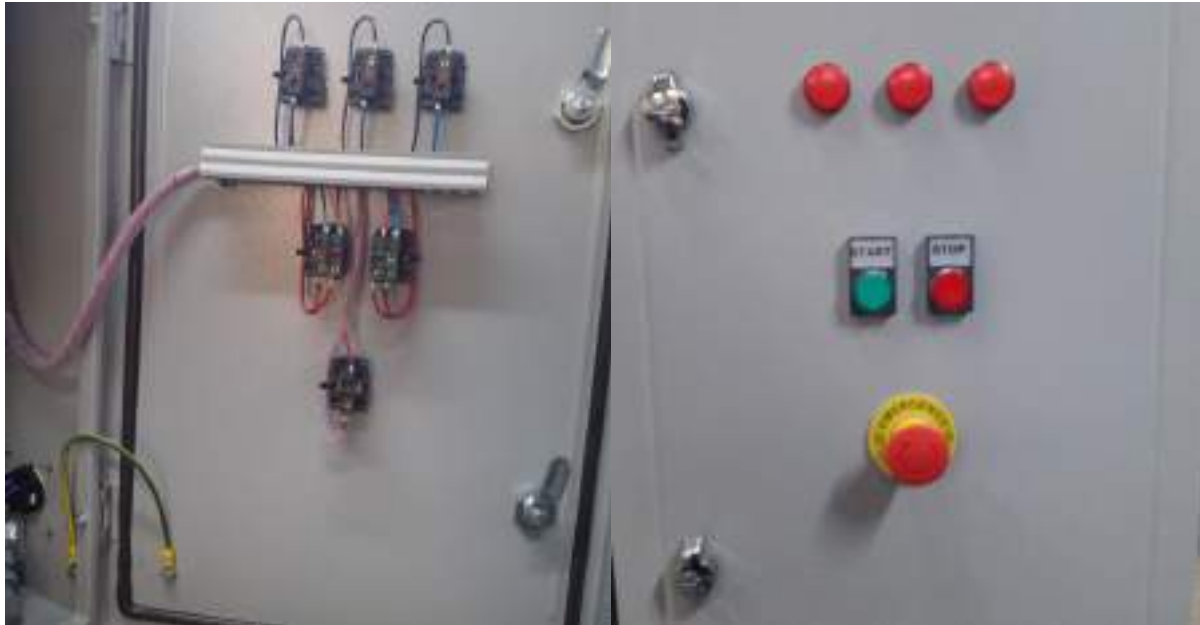
All control panels have a change over switch located on left side of control panel. This switch enables direction of rotation on both directions.

 NOTE	The cable of the motor can only be connected by a professional electrician. All controls should be done according to panel wiring diagram. The wiring diagram should be sent with the machine. The electric control box should be installed on the ground/wall. It is recommended to have a roof on the panel for protection from environmental conditions.
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 WARNING	While connecting the system to the main feeding unit be sure all connections cable are fit into their places and the motor turn correctly.
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Electric control panel includes the following parts below;





4.1. The Symbols of Used Materials in Control Panel

QA	: Cam switch (1-0-2)
Q1	: Thermal magnetic motor circuit breaker
F1	: Fuse for control phase
F2	: Fuse for socket
F3	: Fuse for DC power supply (For the panels which use 24V DC control phase)
K1	: Contactor
K2	: Contactor for delta (Δ) connection
K3	: Contactor for star (Y) connection
U1	: Socket
U2	: Phase protection relay
U3	: EYS-TKR15 relay for over-heating and liquid leakage
U4	: Timer relay to start star-delta connection
B1	: Start button with green lighted up during running
B2	: Stop button with red lighted up during fail
A01	: Emergency stop button
H1	: Indicator lamp for R phase
H2	: Indicator lamp for S phase
H3	: Indicator lamp for T phase
G1	: DC power supply (for the panels which have 24V DC control phase)

4.2. Components Used in Control Panel and Their Use

1. Cam Switch: Using for switching the direction of mixing rotation.
2. Thermal magnetic motor circuit breaker: Protects motor from excessive current and short circuit stations.
3. Fuses: Protects against possible accident and fault on circuits units by ignoring overcurrent
4. Contactors: Electromagnetic switches that let us control circuits by closing normally open contacts or opening normally closed contacts when the coil is energized. Contactors are chosen according to the motor power values.
5. Phase control relay: Prevents 3 phase motor from damages of staying 2 phase. It provides protection by stopping motor when phase instability is occurred. It controls phase connections.

If red light is turned on, it means phase connection is wrong and there is no way to run the agitator. When the light is green, means phase connections are correct.

6. TKR-15: EYS Endüstri production relay protects the agitator from any negative situation when detection of overheat or liquid leakage occur.
7. Time relay: Lets us arrange time to passing from star to delta running to avoid overcurrent at the beginning of motor run
8. Start-Stop button: The lighted buttons are used for run and stop the motor. Start buttons lights up green during running. Stop button lights up red on fault situation. (According to customer request, we use water gauge to control automatically agitator running. That prevents the agitator to work without liquid. By that way, ON/OFF posioned conrol switch is used.)
9. Emergency button: To disable the energy in case of emergency.
10. Indicator lamps: Show us working situation of R-S-T phases. The lamb does not work whose phase has trouble such as breaking off or overcurrent.
11. DC power supply: Provides us 24V DC to use as control phase.

The special underwater cable comes from agitator to panel: The thickness has chosen by motor power and cable length. The cable pass from waterproof bush and connctets wires to electrical terminal(to the electrical terminal, opposite of U-V-W and Z-X-Y cables).

 NOTE	Measure your mains voltage. The measured value can tolerated between -%10 and +%6 rate for each phase.
 WARNING	Fuses do not protect you! Fuses protects circuit elements in case of exceeding the current that written on them. Thus, be carefull against to electrcital shock!
 NOTE	Make sure the electrical cable doesn't contact mixer propeller. When the working distance of mixer is adjusted, always check the tension of cable before starting the machine.

5. MONTAGE PRELIMINARY

Installation of EYS ex-proof submersible mixer must be carried out by a professional team with technical knowledge. Do not try to lift the mixer by holding electrical cables.

EYS mixer must be unpacked in the installation area and should be checked if there are any damages occured during transportation. If there aren't any damages, the installation should start. If you encounter any damages contact the manufacturer and if it's not safe to run the machine, don't assemble the machine before repair.

If there are any damages with mixer or it's platform, do not install the equipment. Contact your supplier or the manufacturer.

If mixer installation ground isn't flat, do not install the mixer and prepare the ground for installation.

Check electric cables for scratches and damages. If there are any damages, contact EYS.

Protect cable ends from direct water and moisture.

Make sure the control panel is installed properly and the main power is connected.

Compare the voltage and current values of mixer identification label with main power line values. If there are any differences don't start the machine until you reach the correct values.

Check identification label values.

Control Panel Assembly

Control panel must be installed in an area which won't be affected by weather conditions.

Mixer electric cable must be protected from mechanical impacts.
Control panel connections must be completed based on wiring diagram.

6. RUNNING OF THE MACHINE

- Check if the voltage on the main feeding line is in conformity with voltage on the machine label.
- Check main power line voltage. Nominal deflection of measured value in all three phases must be between -%10 and +%6 tolerances. If the values are out of these values, don't start the machine.
- The turning way should be vice versa of the clockwise when the agitator seen from the propeller.
- If the propeller turning way is vice versa, adjust the turning way by changing the motor phases.
- Do not run the machine on the top surface of the manure(on the air) in the pit.
- Motor connections should be done by a professional electrician and the limit values on the motor protection should be changed according to the motor values.
- Be sure there is oil in the reservoir. If not add oil. The type fo the oil is indicated on the technical table.

 WARNING	Submersible mixer must operate fully submerged. Don't try to dry run the machine. Otherwise the vernish layer on the motor will become thinner overtime due to overheating and it will harm the motor.
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 NOTE	Never disable liquid discharge relay and electrode.
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 WARNING	When the mixer is running, never try to clean foreign materials in the manure pit such as rope, sack, garbage etc.
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7. MAINTENANCE

The winch rope is made of Ø8mm stainless steel. Check this rope every 6 months and change if necessary. Greasing the rope will increase the usage time. Each 6 months grease the rope with spray in order to protect the rope from corrosive effects. Clean the materials on the propeller like rope, wire, fabric...etc. These materials may cause vibrations on the machine and harm the pole connections and motor. Before running the machine do all controls by taking these warnings into consideration!

 WARNING	Before holding, carrying, maintenance and/or cleaning of the machine close the electrical control panel from main feeding line.
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 WARNING	Before intervening to any turning part close the electrical control panel from main feeding line.
--	---

 WARNING	Before running the machine, block the pole turning roll. While running be sure these block will not come out.
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 WARNING	In order not to harm the motor and seals the machine should certainly be under the level of the liquid, this the only way of cooling. Do not run the machine above the liquid in the pit.
 WARNING	Close the electricity connection of the machine from the panel when the machine will be taken on the air.
 WARNING	Do not use the electricity cable in order to hold the machine.
 WARNING	Check motor protection relay each month. See if the connections are loose. If there are any loose connections, reconnect immediately. Otherwise when there is a fault and motor protection relay didn't complete it's purpose, the responsibility will belong to the user!
 WARNING	Check mixer base fixing screws and holes against wear every 6 months.

MAINTENANCE PERIOD	NO	CONTROL/MAINTENANCE CRITERIAS
Once a month	1	Lubricate the parts of hoist except motor with oil against corrosion.
Once in 6 months	2	Check transmission oil and refill if necessary. (%100 synthetic ISO VG 320) Don't add to the current oil. Replace the oil completely. Check section 18 for oil amounts.
	3	Check corrosion and wear on base parts. Replace damaged or deformed parts.
Once a year	4	Check propeller for wear and damages. If there are visual damages or wear, replace the propeller.
	5	Check mechanical seals. If there are scratches or wear, replace immediately. Visually check elastomer on mechanical seal for scratch or holes. If there are any, replace immediately.

8 LONG TERM STORAGE

If the mixer won't be used for a long period of time, clean the machine against corrosion. If the mixer is covered with too much dried manure while running, the cooling can be insufficient. Lubricate all necessary parts.

9 CLEANING

If the agitator will not be used for a long time, in order to protect from corrosion, clean the body with water. The pieces of the manure which will dry on the machine will prevent the machine to cool itself.

10 CABLE CONTROL

Check the electricity cable every 6 months. Change the cable if there is any harm on. The technical specifications of the cable can be seen on the table.

11 CONTROL OF THE POLE

Check the corrossions on the pole every 6 months. Change the parts when necessary. Check the steel rope and clips on the electricity cable and change when necessary.

12 TROUBLESHOOTING

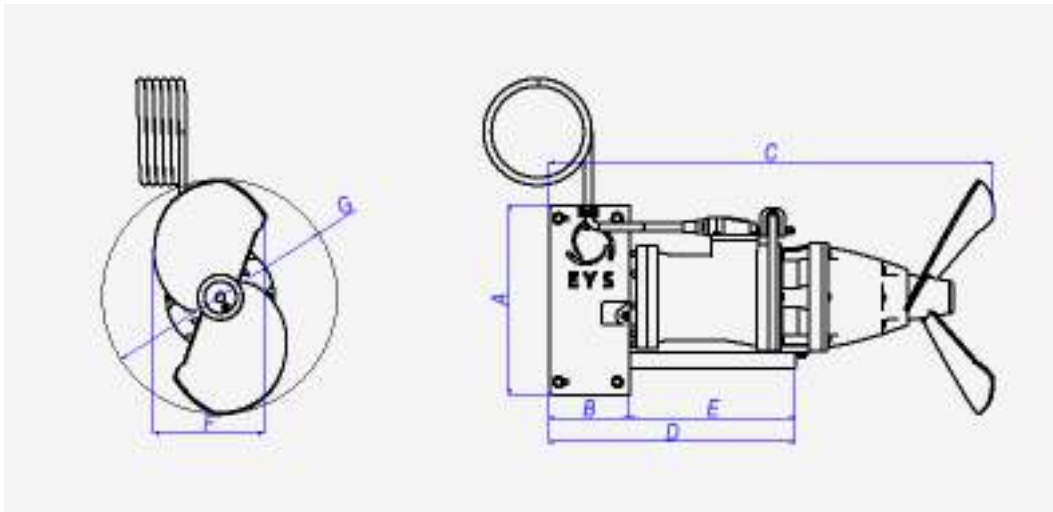
Problem	Reason	Solution
Mixer is running but the capacity is very low.	Propeller is turning to the contrary way.	Change the phase cables with a professional electrician.
	Materials are stuck on propeller	Cut the power, lift the machine and clean the propeller.
	The propeller is worn or damaged.	Replace the propeller
Mixer is not running	There is no power or no voltage in the control panel.	Check the motor protection and system voltage. Contact EYS.
	Breakage/Detachment on the motor cable.	Check if there is fault on the other connections. Contact a professional electrician. Contact to EYS for spare cable.
	Propeller jammed	Confirm if the propeller is clean and rotatable. Clean the propeller and chekc the blockage on the gears. Contact to EYS.
	Motor isn't running	Mechanical seal might be broken. Disassemble the mixer and check mechanical seal. See if there is a liquid leakage inside agitator body.
	If electric cable doesn't have tension, it might have contacted with propeller and might be damaged.	Lift agitator and check electrical cable. If there is a damage, replace the cable and then tension it.
	Liquid leakage relay error	Never disconnect liquid leakage cable which is connected between mixer body and control panel. If there is a leakage in transmission oil, disassemble the machine and clean all parts. If there is no leakage check the motor body.

	Phase connections are not correct. Thus the red led on phase protection relay is on.	A Professional electrician should fix phase connections. Then the green led on phase protection relay will be on.
	Motor protection relay has tripped.	Check motor protection relay. If it's not working replace immediately. <u>Never start the agitator when motor protection relay (MKS) is broken.</u> If motor protection relay is ok, but motor is still not working, do not run the machine. Take it out of manure pit and remove propeller. Run agitator in idle and measure current. If current is above limits, contact EYS immediately.
Mixer is running but motor protections shut downs the machine.	Voltage fault	Check the voltage
	Mechanical fault	Check the direction of rotation of propeller
	Motor fault	Contact to EYS.
Mixer isn't running in automatic mode.	Zelio might be broken	A Professional electrician must check Zelio. Contact EYS
When lifting or lowering the Mixer, it isn't moving stable.	Check castermid rollers on agitator base. There might be wear or damage on them.	Visually check castermid rollers. If there are any wear or damage, replace immediately.

13 TECHNICAL TABLE

	DK75		DK11		DK15		DK185	
Power [kW]	7,5		11		15		18,5	
Weight [kg]	210		215		438		440	
Motor Speed [RPM]	1500	1800	1500	1800	1500	1800	1500	1800
Voltage [V]	380/660	230/460	380/660	230/460	380/660	230/460	380/660	230/460
	200/346	200/346	200/346	200/346	200/346	200/346	200/346	200/346
Frequency [Hz]	50	60	50	60	50	60	50	60
Max. T°C	0 - 40							
Oil	ISO VG 320 SYNTHETIC OIL (KLUBERSYNTH GH 6-320)							
Propeller Speed [RPM]	325	390	325	390	325	390	325	390
Propeller Ø [mm]	570		610		640		685	
Max Current [A]	15,6	25,6/12,8	22,7	39/19,5	30,4	46/23	37,6	60,8/30,4

13.1 Technical Dimensions



	A	B	C	D	E	F	G
DK 75	500	215	1150	650	435	284	580
DK 11	500	215	1150	650	435	284	610
DK 15	660	225	1450	925	700	-	720
DK 18	660	226	1450	926	-	-	750

13.2 Multi-functional pits



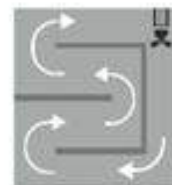
Circular Pit



Rectangle Pit

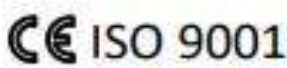


Zigzag Pit



14 MACHINE LABEL

When contacting your supplier or the manufacturer for any purpose, please provide serial number of your machine. If you are contacting for your control panel, also provide serial number of control panel. A sample image of machine tag is shown below.

 	
Description :	Serial No :
Model :	Year :
Power : kW	Propeller : mm
Voltage : V	Prop. Type : Blades
Frequency : Hz	Amp : A
Cos ϕ :	Weight : kg
EYS Endüstri Makina Sanayi ve Ticaret A.Ş.	
www.e-y-s.com / info@e-y-s.com Made in Turkey	



DECLARATION OF CONFORMITY WITH THE PROVISIONS OF THE EC DIRECTIVES 98/37/EC

KONFORMITÄTSEKRLÄRUNG GEMÄß DEN VORSCHRIFTEN DER EG RICHTLINIEN 88/378/EWG

DECLARATION DE CONFORMITE AVEC LES DISPOSITIONS DES DIRECTIVES 88/378/CE

DICHIARAZIONE DI CONFORMITA' ALLE NORME DELLE DIRETTIVE CE88/378

DECLARACION DE CONFORMIDAD CON DISPOSICION A LAS DIRECTIVES DE LA CE 88/378/EEC

I declare on behalf of the manufacturer that the goods listed below comply with the essential health and safety requirements applicable on it.

Ich erkläre anstelle des Herstellers daß die unten beschriebene Ware den für sie zutreffende Gesundheits- und Sicherheitsvorschriften entspricht.

Le certifie au nom du fabricant que les marchandises énumérées ci-dessous sont conforme avec les dispositions essentielles de santé et de sécurité qui s'appliquent à elles.

Dichiaro Per conto del produttore che la merce qui sotto elencata è conforme ai requisiti essenziali di igiene e sicurezza ad essa applicabili.

Declaro on nombre del fabricante que las mercancías aquí abajo listadas complacen con los requerimientos especiales de sanidad y seguridad que e ellas se aplican.

Brand : EYS

Marke, Marque, Marca, Marca

Type : SUBMERSABLE MIXER
(7,5-11-15-18,5 KW)

Typ, Type, Tipo, Tipo

Serial Number :

Serien nummer, Numéro de sérié, Matricola, Numero de serie

Manufacturer : EYS ENDÜSTRİ MAKİNA SANAYİ VE TİCARET A.Ş.

Hersteller

Fabricant

Produttore

Fabricante

Main safety and other components supplied with goods :

Mitgelieferte hauptsicherheits- und weitere komponenten

Principaux composants de sécurité et autres fournis avec les biens

Principali componenti di sicurezza ed altri forniti con la merce

Componentes principales suministrados con las mercancías

Specified directives and (draft) standarts applied : EN ISO 12100:2011, Directive: 2006/42/EC;
EN ISO 13857: 2019, EN 60204-1: 2018, Directive: 2014/35/EU

Entsprechende richtlinie und (entwurf) normen

Directives et normes (projets) spécifiques d'application

Direttive specifiche e norme (bozze) applicate

Directivas específicas y normas aplicadas

Direttive specifiche e norme (bozze) applicate

Directivas específicas y normas aplicadas

EYS Endüstri

Sanayi ve Ticaret Ltd.Şti.

Tepecik Mah. Ş.P.Er Mehmet Ali Tosun

Blv.

No:234/1

09100-Efeler / Aydın

Türkiye

Tel: +90 (256) 231 11 38

http://www.e-y-s.com

E-mail: info@e-y-s.com

All documents referred to in aforementioned documents

Alle vorschriften auf die in die oben angegebene dokumente verwiesen wird

Tous les documents mentionnés dans les documents ci-dessus

Tutti i documenti a cui si fa riferimento nei documenti sopramenzionati

Todos los documentos a los que se refiere en los anteriormente mencionados

EYS
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Tepecik Mah.-871 Sk. No:234/1 Efeler / AYDIN
Tel: +90 256 231 11 38 / Faks: +90 256 231 11 01
Güzelhisar Y.D. 0850 702 32 / Tic. Sic. No. 9223
Mersis No: 0383 0920 2320 0001

Firm : EYS Endüstri

Sanayi ve Ticaret Ltd.Şti.

Name : Mustafa Orhun ÇETİN

20/21

Position : Technical Manager

Date : 08.01.2021

16 ADDING OIL TO THE MIXER

OIL TYPE	ISO Viscosity Class	Klubersynth GH 6-320 Synthetic Oil			
		DK75	DK11	DK15	DK18.5
Synthetic Oil	ISO VG 320	6 lt	6 lt	8 lt	8 lt

Before adding oil to the mixer, rotate the it 90° and put it on the ground. Make sure the oil plug stays on top when you position the agitator on the ground. Add oil based on the chart above.

Note: Check lubricant table for equivalents.



WARNING

If parts of EYS submersible mixer is deassembled for maintenance, make sure all parts are assembled before adding new oil. If new oil is added before montage is completed, oil might leak. That will cause submersible mixer to run with insufficient oil. In that case sensor might not be able to detect manure leakage in oil chamber. Any possible damage due to this case, will not be covered by warranty!