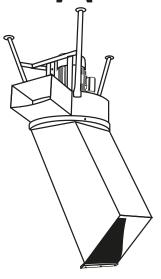
Electric Engine

FEED PREPARATION MACHINES

Grass-Stalk Grinder Machine Wet Grass-Stalk Grinder Machine





Electric Engine

FEED PREPARATION MACHINES

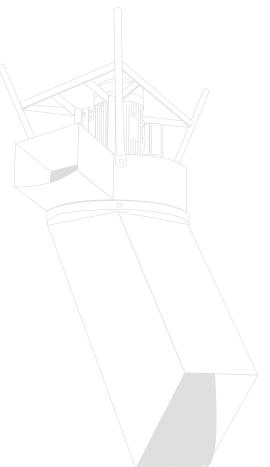
Wet Grass-Stalk Grinder Machine Grass-Stalk Grinder Machine





Read carefully this manual before using!





CONTENT

Our Company strongly recommends to work with experts who has at least electrician's license for laying of electrica installations and performing the indicated controls.



- * READ CAREFULLY USER'S MANUEL BEFOE USING
- * AVOID CONTACT WITH WATER TO ELECTRIC ENGINE!
- * USE THE GROUNDING PLUG!
- * KEEP CHILDREN AND PEOPLE AWAY, WHEN IT IS IN USE

03 | Safety signs & symbols

- 04 Before using (safety instructions)
- 05 Installation & tech. specification of Gras-Stalk Grinder Machine
- 06 Installation & tech. specification of Wet Gras-Stalk Grinder Machine
- 07 Thing to do at the end of the product processing
- 80 Safety Instructions, electric engine
- 11 General operating instructions
- 11 When handling & Transportation

П

- Make sure, is there any damage on product (cable,plug,engine etc.)

- Pay attention movable parts shouldn't be open.

transportation.

- Unplug the plug of your machine during both handling and WHEN HANDLING & TRANSPORTATION



ATTENTION! | Use rubber consist of grease oil during lubrication process.

- a preakdown. - The casting at the low speed overextend the engine and can be cause
- Feed pressing machine should work idle running 1 minute, after put your feed.
 - - electric engine.
 - Never run to your machine at low voltage, please. Otherwise may burn

GENERAL FAULT CONDITIONS

ЕГЕСТВІС МОТОВ, ИОТ UNDER WARRANTY IMPORTANT NOTICE

During the operation, keep away children and people

I NOITNETTA

please contact with us before repairing yourself Unexpected failures; switch off feed pressing machine

CAUTION!

GENERAL OPERATING INSTRUCTIONS

CAUTION!

Unexpected failures; switch off feed pressing machine, please contact with us before repairing yourself.

ATTENTION!

During the operation, keep away children and people

IMPORTANT NOTICE

ELECTRIC MOTOR, NOT UNDER WARRANTY

GENERAL FAULT CONDITIONS _

- Never run to your machine at low voltage, please. Otherwise may burn electric engine.
- Feed pressing machine should work idle running 1 minute, after put your feed.
- The casting at the low speed overextend the engine and can be cause a breakdown.

ATTENTION! Use rubber consist of grease oil during lubrication process.



WHEN HANDLING & TRANSPORTATION

- Unplug the plug of your machine during both handling and
- Pay attention movable parts shouldn't be open.
- Make sure, is there any damage on product (cable,plug,engine etc.)

11

- When handling & Transportation
 - General operating instructions
- Safety Instructions, electric engine 80
- Thing to do at the end of the product processing ۷0
- Installation & tech. specification of Wet Gras-Stalk Grinder Machine 90
 - Installation & tech. specification of Gras-Stalk Grinder Machine 90
 - Before using (safety instructions) **70**
 - 03 Satety signs & symbols

* KEEP CHILDREN AND PEOPLE AWAY, WHEN IT IS IN USE * USE THE GROUNDING PLUG! * AVOID CONTACT WITH WATER TO ELECTRIC ENGINE!

* READ CAREFULLY USER'S MANUEL BEFOE USING.

ATTENTION! i

installations and performing the indicated controls Our Company strongly recommends to work with experts who has at least electrician's license for laying of electric

NARN**I**NG

- The rotor can rotate freely
- All clamping elements and electrical connections are tight,
- Good grounding connections,

- Attachments shall be fitted, properly connected and maintained,
 All protective measures have been taken against touching the moving and tensioned parts,
- If there is a motor brake, it can be installed, connected and maintained properly,
- Attention should be paid to noise and vibration in beds and covers
- If the motor does not turn soft or there are unusual noises, the motor must be deactivated and the cause of the noise should be investigated while the engine is decelerating. If the failure is eliminated, the cause is either electrical or magnetic. Otherwise, the cause of the fault is mechanical.
- If the engine is idle, it can be loaded at rated power. The rotational softness should be monitored and the supply voltage nd the motor operating value must be noted.
- The temperature of the winding, bearings ... must be checked until the thermal stability is reached.
- To stop the engine, switch on the breaker and wait until braking stops, and the heater to prevent water condensation, if present, must be switched on.

The temperature sensors of the thermal protection system must be connected and checked to prevent an unexpected automatic start of the motor, so as not to cause damage or injury while the engine is cooling.

In case of starting + permanent capacitor motors, discharge resistors are connected to the output capacitors, Please contact the manufacturer for capacity and discharge resistance values when capacitors need to be replaced

The above checklist does not cover any possibility. For this reason, the installation and operating engineer, who knows the specific conditions of the plant and the site and the additional instructions related thereto, may take other measures

BEARING FRICTION

... 112/2, the size of the engine, has a lifetime of lubricated, sealed on both sides (ZZ) bearings by the manufacturer. When this type of bearing fails, it must be replaced, although very few possible. Re-lubrication is not possible. The bearing types used and the permissible mechanical forces used in accordance with the engine size are specified in the catalog lists

DIVERSION

The ball bearings must be removed with a puller after slightly warming the inner ring. Never use a hammer. Before installing the bearings, it should be checked that the parts on the shaft are in place. During installation and assembly, great care must be taken and cleaning conditions must be followed. Ball bearings in oil or air should be heated to about 80 degrees Celsius, then slide them onto the shaft. Hard strokes should be avoided as they damage the bearings.

BEARING SEAL

V-ring dust seals and radial shaft seals (oil seals) must be pushed into place with a suitable tool. Gently grease the contact surfaces of both gaskets. Care must be taken to ensure that the V-ring dust seals are correctly positioned in the axial position to prevent damage from excessive friction.

SPARF PARTS

Damaged parts must always be replaced with original spare parts

All spare parts are easily replaceable because they are designed and machined to the precision dimension tolerances. The motor type, serial number, construction format and part number and name must be declared in the order.

10

03



Otherwise the manufacturer company is not responsible from the damaged situations which might be occured by electric malfunction.

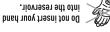
* Use grounded outlet 191100 10 * Use C25 ampere fuse on back





















SAFETY SINGS & SYMBOLS



















* Use C25 ampere fuse on back of outlet

Otherwise the manufacturer company is not responsible from the



03

01

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STAAY 3MAYS

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REAKING SEAL

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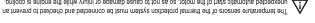
BEARING FRICTION

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In case of starting + permanent capacitor motors, discharge resistors are connected to the output capacitors. unexpected automatic start of the motor, so as not to cause damage or injury while the engine is cooling.



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If there is a motor brake, it can be installed, connected and maintained properly.

- Mitention should be paid to noise and vibration in beds and covers.

- Attachments shall be fitted, properly connected and maintained, - All protective measures have been taken against touching the moving and tensioned parts,

Good grounding connections,

All clamping elements and electrical connections are tight,

I he rotor can rotate freely,

BEFORE USING



Our Company does not accept responsibility in case of defects of the engine, installment and electrical equipments caused of your electrical installation or main power distributor.

BEFORE CONNECTING THE MACHINE TO THE POWER.

After making all the controls be sure that the cable on the existing switch output on your machine is securely connected to the main panel by the experts.

Safety Instructions

- For prevent possible electrical fault attend to should be turn off the switch of the machine before start to your machine.
- Check the settings of your machine will be used where electricity compatible with with electric adjustments.
- Check whether it compatible of the main voltage with your machine.
- Make sure, The electrical system all made grounding where to run your machine.
- If you meet negative event, while you are using machine, please stop and unplug.
- For safety, keep off the children around the machine during operation.

Attentions! _

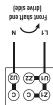
- Place to your machine on the location near a wall outlet.
- Turn off the switch of machine after each use, unplug to the machine
- After come to a dead stop to your machine, clean it regularly after each operating. This is important both hygiene and extend the life of your machine
- Avoid certainly contact with water to the electric engine and electrical components of your machine.
- Never wash your machine, clean with a moist duster.
- Keep your machine in dry and clean place.
- Contact with technical service if failure of your machine.

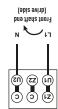
60

- Cooling air flow is not obstructed,
- I Ne direction of rotation is correct,
- Sufficient insulation resistance, Appropriate installation of shaft elements,
- Insulation and operating conditions are consistent with the label information.

 The engine is correctly positioned and aligned
- After installing an engine, the following checks and experiments should be carried out.

Startup





before the motor is connected to the machine. Check the direction of rotation by switching on / off quickly once

connected to the ends of the electronic start relay U1 and U2. In motors with start + permanent capacitor, the motor winding is changed by changing the main winding ends (brown-black)

e cysuded according to the following connection diagram; The direction of rotation of the motors with permanent capacitors All motors are suitable for operation in both rotational directions.

DIRECTION OF ROTALION

installed. Damaged ones must be replaced.

brackets must be properly positioned so that the feed cable does not beend or twist. Unused inlet holes must be typhily closed with plugs. All seals must be checked to ensure that the sealing surfaces are in good condition and are properly plant-specific conditions. The connection of the supply cables must be carried out with special care to ensure continuous and reliable contact. In order to keep the connections permanently tight, motors with permanent capacitors are fittled with and reliable contact. In order to keep the connections may capable of overheat and cause engine maifunctions. All cable safety nuts at the motor ends. Loose connections may capable of overheat and cause engine maifunctions. All cable unar symaka pe cyecked. The cross section of the subbly cable murat be selected seconding to the usled current and caple mark be connected in accordance with the connection disdism. The combilismoe of the network with the label values a start capacitor, permanent capacitor and electronic start relay with ten terminal inputs. Each end connection box has a grounding screw and has a connection diagram under the end of the terminal box cover. The conductors of the supply of the motors with permanent capacitors. In the end connection box of the motors with start + permanent capacitor, there is ponside to teasy connection on both sides. There are six fixed and and bemisnent aspectors in the end connection box

critical resistance value). If the measured insulation resistance is below the minimum value, the engine must not be allowed long-running motor windings can be reduced in a damp and dirty environment. In this case, the minimum insulation resistance at an ambient temperature of 25 degrees Celsius must be greater than the specific critical resistance value of 0.5M amper / kV, (Minimum insulation resistance of motor windings = rated voltage (in kV) x 0.5M amperes with a specific 0.5M amperes with a specific In dry windings such as new, the insulation resistance is well above the limit of 10M amperes. The insulation resistance of

main and auxiliary circuits and especially to the condensation heating circuits.

Immediately after measuring or during measuring, the motor terminats with dangerous voltage must not be bouched.

Also, if the supply cables are connected, make sure that the circuit is clearly cut. This warning applies to both the If an electric motor is switched on for the first time or after a long storage or standstill, the resistance of the windings must be measured first. The measurement is done by applying 500V DC and after should one minute, the last resistor value is read.

NSULATION RESISTANCE

is opened. If the engine, transmission clutches v.s. If such elements are to be operated before they are installed on the shaft end. The engine, transmission clutches v.s. If such elements are to be operated be taken to prevent if from being thrown. slements on the shaft end, such as the coupling, pulley or propeller, must be balanced on a flat mandrel before the keyway The motors are dynamically balanced with the half wedge placed at the shaft end. For this reason, the shaft

EQUALIZATION / BALANCING

EQUALIZATION / BALANCING

The motors are dynamically balanced with the half wedge placed at the shaft end. For this reason, the shaft elements on the shaft end, such as the coupling, pulley or propeller, must be balanced on a flat mandrel before the keyway is opened.If the engine, transmission clutches v.s. If such elements are to be operated before they are installed on the shaft end, the key must be secured to the shaft end and the necessary measures should be taken to prevent it from being thrown

INSULATION RESISTANCE

If an electric motor is switched on for the first time or after a long storage or standstill, the resistance of the windings must be measured first. The measurement is done by applying 500V DC and after about one minute, the last resistor value is read. Immediately after measuring or during measuring, the motor terminals with dangerous voltage must not be touched.

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TERMINAL BOX

All terminal junction boxes conform to the degree of protection IP65 and are located on the front upper part of the motor housings for easy connection on both sides. There are six fixed end and permanent capacitors in the end connection box of the motors with permanent capacitors. In the end connection box of the motors with start + permanent capacitor, there is a start capacitor, permanent capacitor and electronic start relay with ten terminal inputs. Each end connection box has a grounding screw and has a connection diagram under the end of the terminal box cover. The conductors of the supply cable must be connected in accordance with the connection diagram. The compliance of the network with the label values must always be checked. The cross section of the supply cable must be selected according to the rated current and plant-specific conditions. The connection of the supply cables must be carried out with special care to ensure continuous and reliable contact. In order to keep the connections permanently tight, motors with permanent capacitors are fitted with safety nuts at the motor ends. Loose connections may capable of overheat and cause engine malfunctions. All cable brackets must be properly positioned so that the feed cable does not bend or twist. Unused inlet holes must be tightly closed with plugs. All seals must be checked to ensure that the seating surfaces are in good condition and are properly installed. Damaged ones must be replaced.

DIRECTION OF ROTATION

All motors are suitable for operation in both rotational directions The direction of rotation of the motors with permanent capacitors is changed according to the following connection diagram

In motors with start + permanent capacitor, the motor winding is changed by changing the main winding ends (brown-black) connected to the ends of the electronic start relay U1 and U2.

Check the direction of rotation by switching on / off guickly once before the motor is connected to the machine

Startup

- After installing an engine, the following checks and experiments should be carried out
- Insulation and operating conditions are consistent with the label information,
 The engine is correctly positioned and aligned
- Appropriate installation of shaft elements,
- Sufficient insulation resistance,
- The direction of rotation is correct.
- Cooling air flow is not obstructed

09



Contact with technical service if failure of your machine.

(21) (C) (C) (U1) (Z2) (U2)

Front shaft end

(drive side)

Z1 © ©

)**=**(Z2) (U2)

Front shaft end

(drive side)

- Keep your machine in dry and clean place.
- Mever wash your machine, clean with a moist duster.

ot your machine.

- Avoid certainly contact with water to the electric engine and electrical components
- I uis is important both hygiene and extend the life of your machine.
- After come to a dead stop to your machine, clean it regularly after each operating.
 - Turn off the switch of machine after each use, unplug to the machine.
 - Place to your machine on the location near a wall outlet.

!snoifnettA (!)

- For safety, keep off the children around the machine during operation.
- It you meet negative event, while you are using machine, please stop and unplug.
- Make sure, The electrical system all made grounding where to run your machine.
 - Check whether it compatible of the main voltage with your machine.

with electric adjustments.

- Check the settings of your machine will be used where electricity compatible with
 - the machine before start to your machine.
 - For prevent possible electrical fault attend to should be turn off the switch of

Satety Instructions

connected to the main panel by the experts. the existing switch output on your machine is securely After making all the controls be sure that the cable on BEFORE CONNECTING THE MACHINE TO THE POWER.

main power distributor.

equipments caused of your electrical installation or defects of the engine, installment and electrical Our Company does not accept responsibility in case of



220 V - ELEKTRIC ENGINE

GENERAL INFORMATION

This operation and maintenance instruction covers Cage Single Phase Asynchronous Motors for general use in the low-voltage fully enclosed industry, manufactured in accordance with the recommendations of the "IEC". They are generally designed for continuous air (S1) type cooling air temperatures in the range of -30 - / + 40 and heights not exceeding 1000m

When using electric motors in industrial applications, there is a danger of touching the tensioned sections and When using electric motors in industrial applications, unless a variety in Journal of the Industrial applications, unless its a variety in Journal of the Industrial and operation, assembling must only be carried out and checked by qualified and authorized personel. If a motor is used in a non-industrial area, additional protective measures must be taken.

"Low voltage motors, according to Machine Instruction 89/392 / EEC are described as parts mounted on the machine Our engines comply with this directive, provided they are installed in accordance with our operating and maintenance instructions. In addition, it is ensured that the final product conforms to this directive prior to operating. (EN 60204-1)

TRANSPORT

TRANSPURI
When moving a motor assembly together with the retaining plate, the lifting eyes of the fastening plate must be used

STORAGE

If the engines are going to be stored for a long time, they should be stored in a drought, vibration-free, clean and well ventilated place. Rotate the shaft of the motor at least once every two weeks. The insulation resistances should be measured before operating and if necessary, the windings should be dried.

VENTILATION AND COOLING

The motors are cooled from the outer surface with a propeller, regardless of the direction of rotation. The passage of the cooling air through the engine must not be obstructed in any way. The engine's hot exhaust air must not be retracted for cooling. Vertical installed motors which has the air inlet above must be protected by a special cover and prevent water and foreign bodies from entering the engine. Air vents of the propeller housing cover must be cleaned regularly when necessary Motors operating in an open environment must be protected against extreme harsh climatic conditions and / or direct sunlight by taking special precautions.

PLACEMENT AND OPERATION

PLACEMENT AND OPERATION

The mains voltage supply circuit must be disconnected before starting work on an engine. The connections of the motors must be made according to the diagram in the terminal box. In single-phase motors with permanent capacitors, the start due to the capacitors used is limited to 3 start per minute. In addition, single phase motors should not be operated in unloaded situation for long periods of time since higher losses occur in unloaded operation compared to full load operation.

SETUP

The motors must be installed in a flat and vibration-free environment. All motor feet must be fitted with full surfaces

ALIGNMENT

When the motors are connected directly to the machine, they must always be precisely aligned. Misalignment can cause bearing distortion, vibration, or even shaft breakage. Once the machines have reached the thermal stability, it is recommended to check the alignment again.

TRANSMISSION COUPLINGS AND PULLEYS

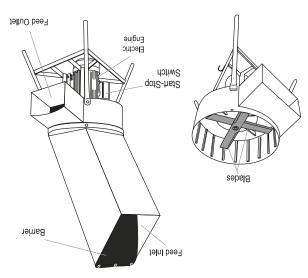
If the clutches and pulleys used apply radial or axial shaft loads during operation, the catalog values of the permitted mechanical forces must not be exceeded. Only flexible couplings must be used, since non-stretching couplings require a special bearing design.

The transmission elements must only be installed and removed using suitable tools. If a belt drive is used, the motor must be fixed to the motor guide rails to correctly adjust the belt tension. The shafts are parallel, the pulleys are aligned and the belt should be swinging to the bottom side. Excessive tension of the belt can damage the shaft and bearings. Please refer to the catalog for the selection of belt pulleys.

08

90

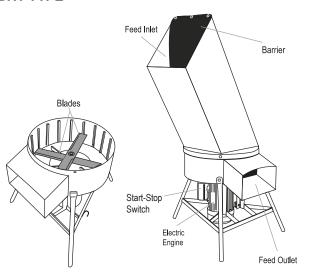
Dimensions (General)	ma 08f x 08 x 28
Dimensions (Down Part)	mp 80 x 08 x 09
(heq qU) snoisnemiQ	55 x 40 x 108 cm
tdgieW	75 Kg
JuO baa I P eed Out	mm 042 x 231
Feed Container Dimension	mm 042 x 332
Voltage / Frequency	ZH 09~09 / Λ 0ZZ
рәәdS	mg1 008S
Engine Power	4 Hp / 3 kw



DRY TYPE

GRASS-STALK GRINDER MACHINE

DRY TYPE



Engine Power	4 Hp / 3 kw
Speed	2800 rpm
Voltage / Frequency	220 V / 50~60 Hz
Feed Container Dimension	365 x 340 mm
Dimension Of Feed Out	165 x 340 mm
Weight	75 Kg
Dimensions (Up Part)	55 x 40 x 108 cm
Dimensions (Down Part)	90 x 80 x 68 cm
Dimensions (General)	93 x 90 x 160 cm

05

80

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VENTILATION AND COOLING

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TRANSPORT

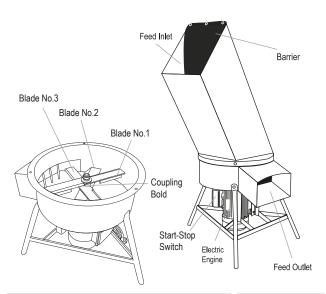
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 C12 rotating shafts. In order to prevent accidents and damage, the planning of transport, installation and operation, assembling must only be carried and otherwald you qualified and sulhorized personel. If a motor is used in a non-industrial season bling must only be carried and otherwald as the season of the seaso When using electric motors in industrial applications, there is a danger of touching the tensioned sections and

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GENERAL INFORMATION

WET GRASS-STALK GRINDER MACHINE



Engine Power
Speed
Voltage / Frequency
Feed Container Dimension
Dimension Of Feed Out
Weight
Dimensions (Up Part)
Dimensions (Down Part)
Dimensions (General)

4 Hp / 3 kw 2800 rpm 220 V / 50~60 Hz 365 x 340 mm 165 x 340 mm 75 Kg 55 x 40 x 108 cm 90 x 80 x 68 cm 93 x 90 x 160 cm

06

L0

Make sure isn't connected your machine before performing periodic maintenance of your machine



Turn off absolutely switch off your machine after operation ending and during cleaning.

T | I NOITNETTA

After ending crushing operation stop your machine and unplug the connection plug.

CAUTION! Don't open to chamber cover before overrun your machine.

Corn etc..

- Open the slowly chamber cover reclaim to the processing Grain Barley, Vetch,

THINGS TO DO CROP PROCESSING & ENDING

- Open the slowly chamber cover reclaim to the processing Grain Barley, Vetch, Corn etc..

CAUTION!

Don't open to chamber cover before overrun your machine.

After ending crushing operation stop your machine and unplug the connection plug.

ATTENTION!

Turn off absolutely switch off your machine after operation ending and during cleaning.



Make sure isn't connected your machine before performing periodic maintenance of your machine.

07

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mo 0ðf x 09 x 29	Dimensions (General)
mɔ 80 x 08 x 09	(the T mwod) anoisne mid
55 x 40 x 108 cm	(he9 qU) znoiznemiQ
75 Kg	tdgiəW
mm 042 x 231	tuO baa I ho noiznamid
mm 042 x 332	Feed Container Dimension
ZH 09~09 / Λ 0ZZ	Voltage / Frequency
mg1 008S	рәәdg
4 Hp / 3 kw	Engine Power

