

Installation manual for Rotag 2500/4500

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Important information for Rotag 2500/4500



It is important that this installation manual is read and carefully followed prior to installation and commissioning as well as in all following work with Rotag 2500/4500.

- Installing personnel and any persons working on or with Rotag 2500/4500 have to be adequately capable of performing the required work.
- Unauthorized personnel must not come in contact with Rotag 2500/4500.
- Rotag 2500/4500 has to be placed in a lockable room.
- All personnel in contact with Rotag 2500/4500 have to be instructed in the dangers regarding rotating augers and agitator wings. These dangers must be pointed out to the personnel.
- Rotag 2500/4500 is constructed to transport wood pellets, woodchips and grain and must only be used to transport these fuels.
- All work with electricity on Rotag 2500/4500 has to be performed by an authorized electrician.
- Equipotential bonding has to be performed according to national rules and legislation.
- The electric supply has to be cut off and protected from reclosing during installation, maintenance and other work on the Rotag 2500/4500.
- This installation manual has to be accessible and placed near the Rotag 2500/4500.

EC-conformity declaration



EC DECLARATION OF CONFORMITY

The undersigned, representing the following manufacturer

Twinheat A/S
Nørrevangen 7, DK-9631 Gedsted

herewith declares that the product

TWINHEAT Type Rotag 2500
TWINHEAT Type Rotag 4500

is in conformity with the provisions of the following EC directive(s)

Reference no.	Title
2006/42/EC	Machinery Safety Directive
2006/95/EC	Low Voltage Directive
2004/108/EC	Electromagnetic Compatibility Directive

References of standards and/or technical specifications applied for this declaration of conformity, or parts thereof :

No.	Issue	Title	Parts
60204-1	3.	Safety of machinery – Electrical equipment of machines - Part 1 – General requirements	Part 1
12100	2.	Safety of machinery - General principles for design	Part 2
14121-2	1.	Safety of machinery – Risk assessment Part 2	

- other standards and/or technical specifications :

No.	Issue	Title	Parts
BR10	24-08-2011	Bygningsreglementet – Installationer – BR10	Part 8

Gedsted 21-08-2012


CEO. Søren Vasegaard

Installing the Rotag 2500 and Rotag 4500



1. The location of Rotag 2500/4500 depends on various factors. **Regardless to where the Rotag 2500/4500 is located, it is essential that the center line of the Rotag outlet matches the center line of the stoker inlet on the stoker part.**



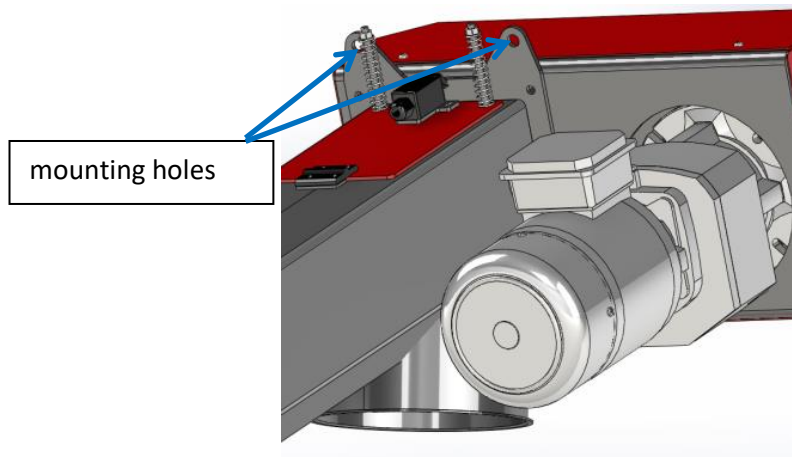
2. Unpack the pallet. The stoker part and the stirrer part are placed appropriately and carefully on a suitable foundation. Be careful not to damage the equipment.
3. Please note that Rotag 2500 has to be installed on a horizontal solid surface with an optimal angle of 23 ° and that the final location of Rotag 2500 is determined by the position of the stoker and/or determined by the position of the stirrer.
4. Please note that Rotag 4500 has to be installed on a horizontal solid surface with an optimal angle of 13.5 ° and that the final location of Rotag 4500 is determined by the position of the stoker and/or determined by the position of the stirrer.



5. The Rotag 2500/4500 should be mounted in the 2 mounting holes at overside of auger part and be supported by the support leg.

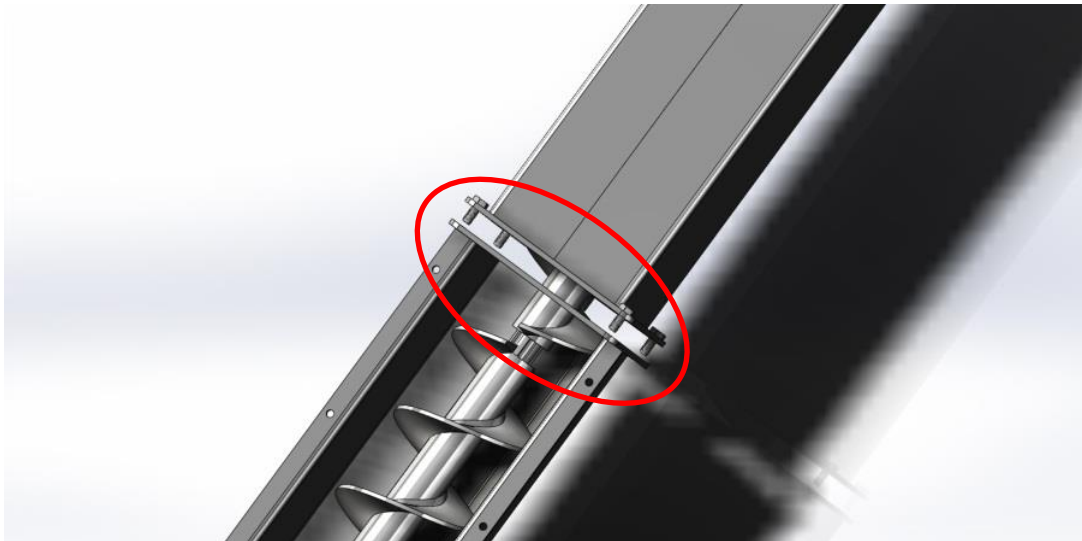


6. The stoker part has to be properly attached to the ceiling by two angled irons



Assembling the stoker part and the stirrer part

1. The stoker part is placed opposite the stirrer part, so the 5 bolts and bolt holes matches.



2. Note that the conveyor windings must be perfectly matched.



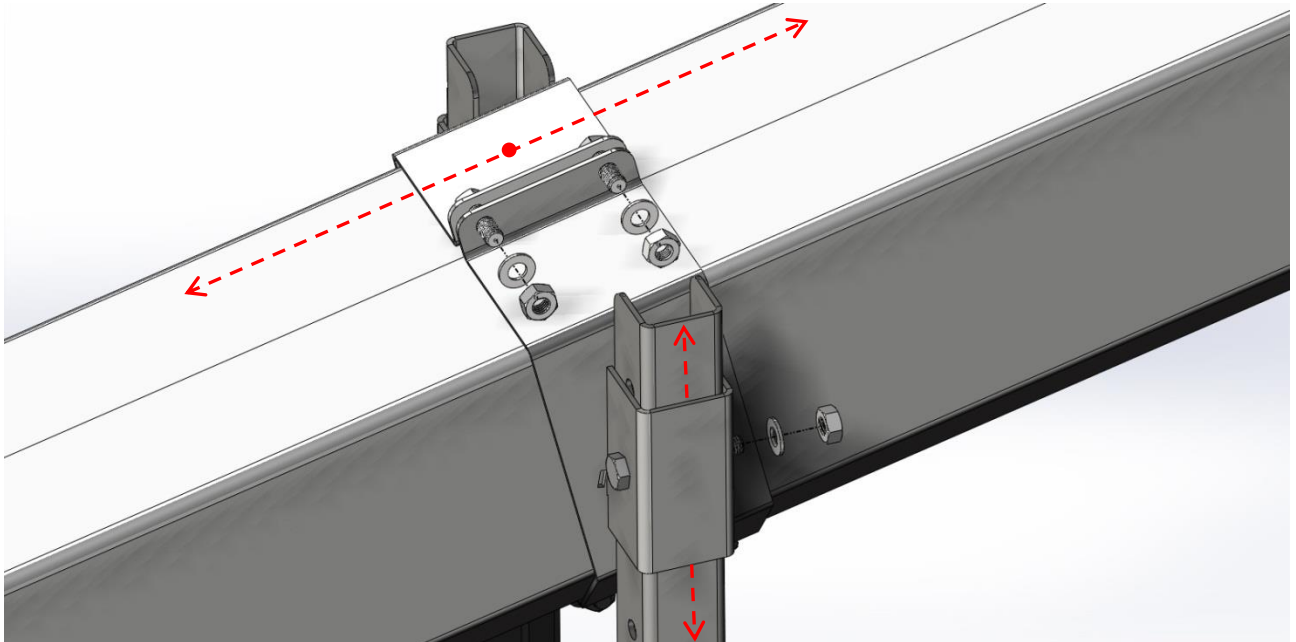
3. The parts must be assembled as indicated.

Assembling the support leg

The assembly consists of 2 clamps and 1 support base with 2 legs.



After final adjustments are made the parts are assembled as indicated. Be careful not to damage the surface of Rotag 2500/4500.



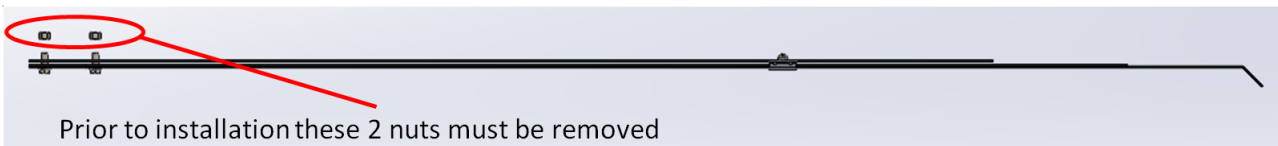
Assembling the stirrer wings

The Rotag 2500 stirrer wing consists of 7 spring blades. They are delivered assembled from the factory.



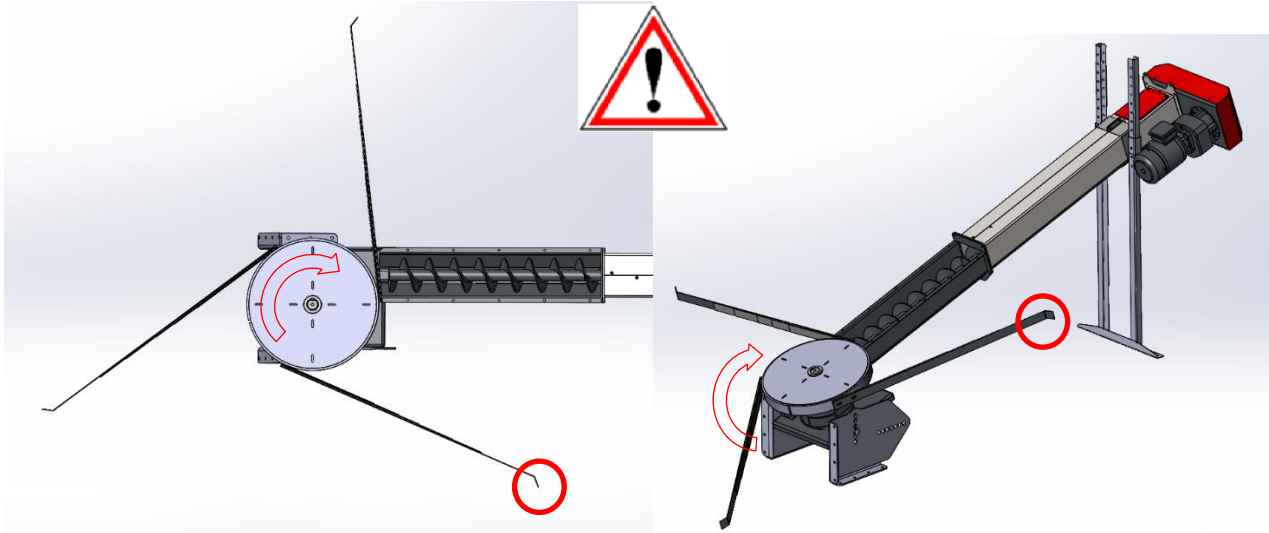
Prior to installation the 2 nuts delivered from the factory must be removed.

The Rotag 4500 stirrer wing consists of 3 spring blades. The 3 stirrer wings are delivered correctly assembled from the factory.

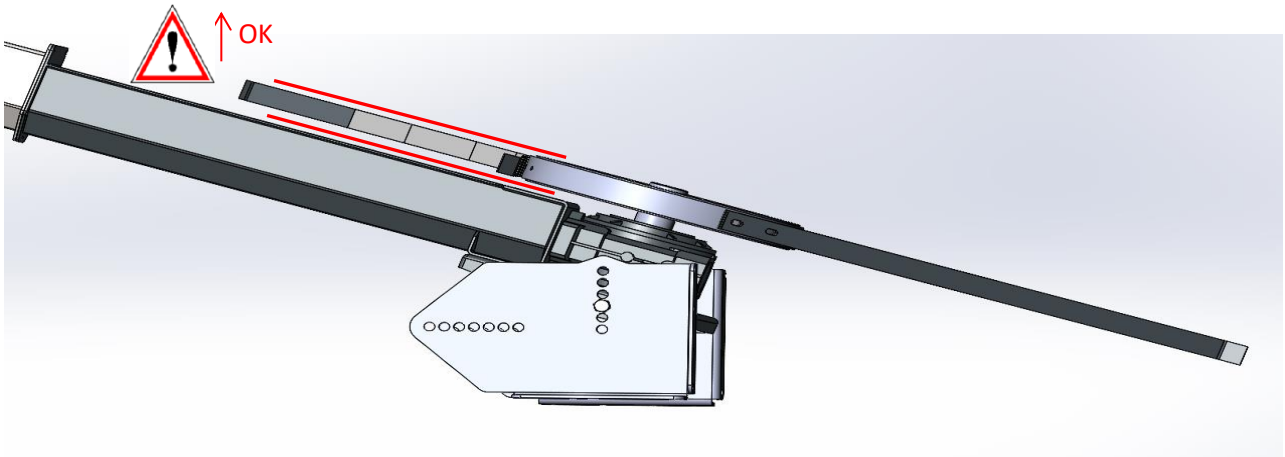


Prior to installation these 2 nuts must be removed

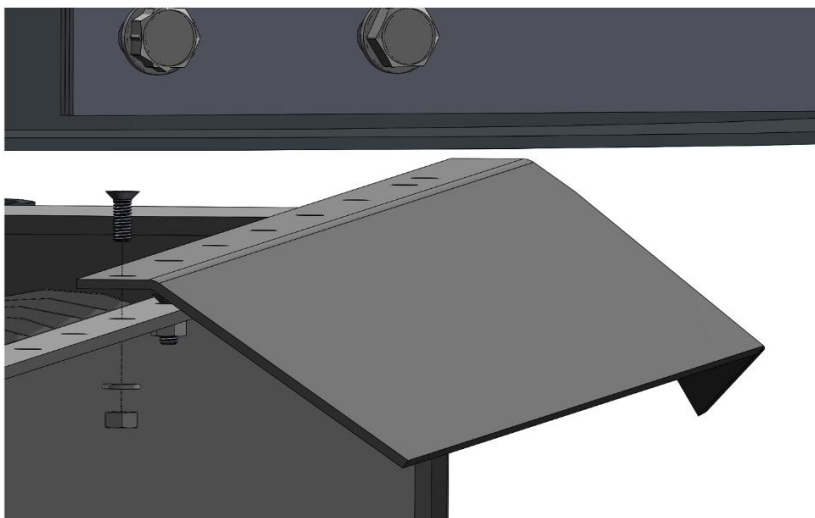
The stirrer wings **must be correctly assembled** and **correctly attached** to the stirrer according to the rotate direction on the stirrer.



The stirrer wings must be attached on a level or above level with the stirrer wheel. It must **never** be below the stirrer wheel level



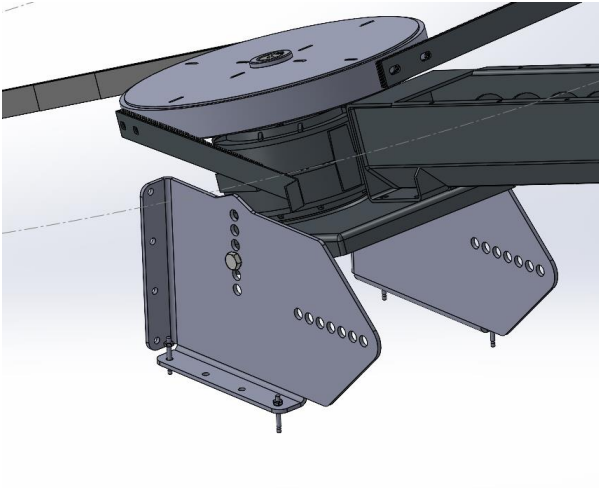
The fuel guide plate is only used on Rotag 4500 and is assembled as indicated below the stirrer wheel, using counter sunk screws from upper side.



Securing the Rotag 2500/4500

When final installation of Rotag 2500/4500 is correctly completed, the stirrer part and the stoker part are safely and securely attached to the base/foundation and the ceiling.

The picture below illustrates the use of anchoring bolts.

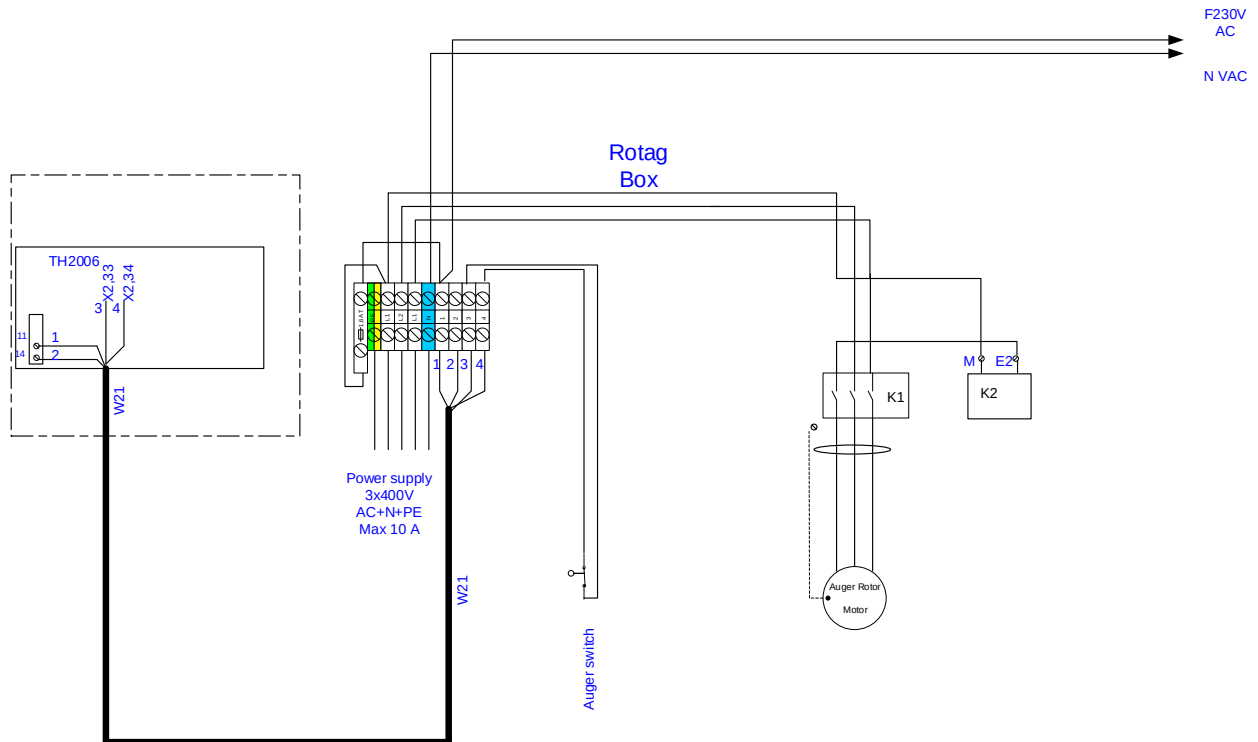


Note that the support leg must be anchored vertically.

Connecting the power grid 400V (Installed in combination with a MCS20i-80i boiler)



All electric work on Rotag 2500/4500 must be performed by a qualified electrician.



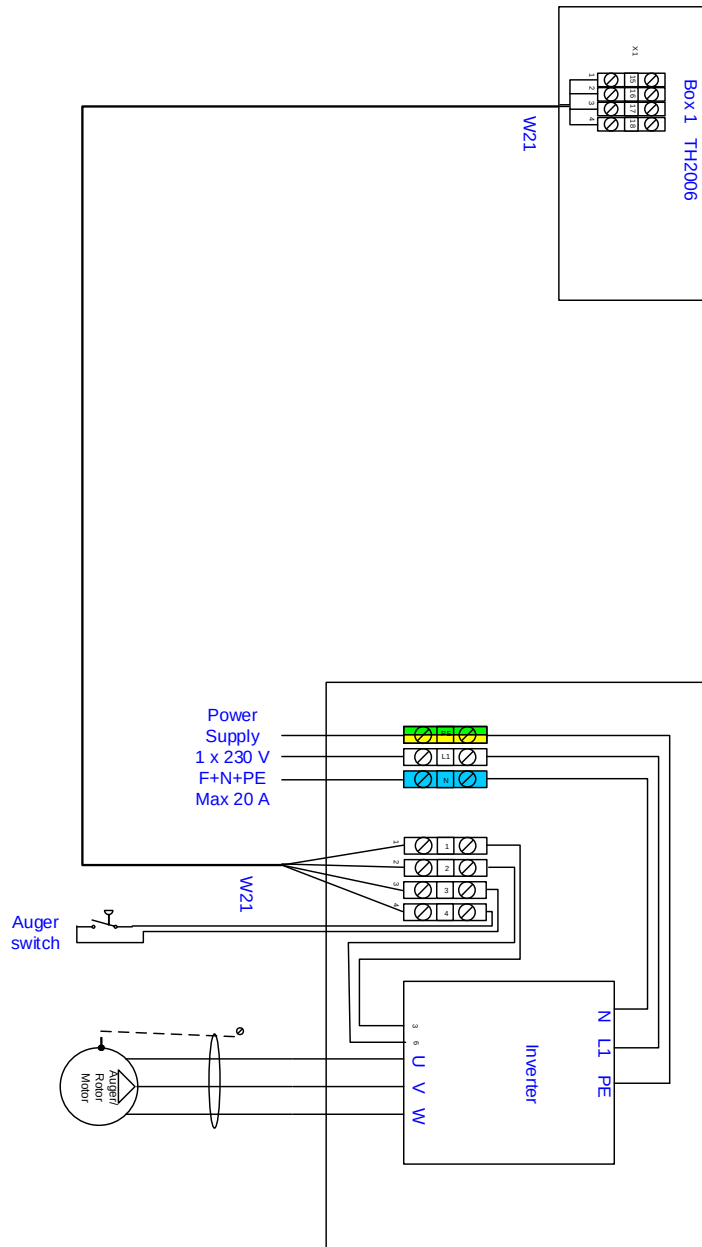
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Connecting the power grid 230V (Installed in combination with a CS120i-250i boiler)



All electric work on Rotag 2500/4500 must be performed by a qualified electrician.



TWIN HEAT	Rotag Inverter 120-250	1 x 230V
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