

## Roaster Family ECOTOAST



We offer the first compact soy roaster worldwide - a processor controlled system (PLC) with gentle process of roasting by thorough control and balanced distribution of temperature.

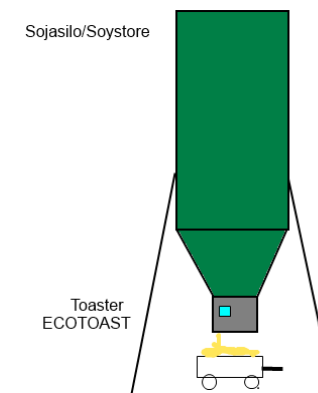
**ECOTOAST** enables you to toast between 500 and 800 tons of soybeans annually. This is an optimal volume for agricultural farms or cooperatives that are in need of a good protein source for animal feed.

**ECOTOAST** gives you the possibility to roast soy on your own farm without having to transport the beans to a big industrial roasting machine.

With **ECOTOAST** you always have fresh protein feed available for your livestock. The system is also suitable for roasting peas, broad beans and grain to produce high-quality feed for your own animals.



**ECOTOAST** installed below silo, combined with oil press



The system is installed directly below the silo (gravity filling). The roasted material can be used as full-fat soybean or can be processed further by an oil-press.



**ECOTOAST** is a compact system measuring only 1 m<sup>3</sup> that fits on a pick-up truck.

A mobile version is possible – a good choice for producers' cooperatives.

**ECOTOAST** is powered by electricity.  
If available, external preheating can be used.



**ECOTOASTER:** self-supporting in toasting soy beans, grain, peas, broad beans, etc.

Datenblatt Toasterfamilie EcoToast	EcoToast 100	EcoToast 200 (preliminary)	EcoToast 400 (preliminary)
Max. Throughput *	100 kg/h	200 kg/h	400 kg/h
Heating Power Max / Operation / Preheat	10,5 / 9 / 4 kW	21 / 18 / 8 kW	21 / - / 16 kW
Heating	Electrical	Electrical	Electrical
Voltage	3-phased 400 V		
Dimensions L x W x H	135 x 111 x 112 cm	135 x 111 x 137 cm	135 x 111 x 262 cm
Weight	220 kg	250 kg	350 kg
Application	Roasting Soybeans or other Seed, Seed-preheating for Oilpress		
Contents	<ul style="list-style-type: none"> <li>- Roaster with electrical Heating</li> </ul>	<ul style="list-style-type: none"> <li>- Roaster with electrical Heating</li> <li>- PLC+Inverter+Control for Material Handling</li> </ul>	<ul style="list-style-type: none"> <li>- Roaster with electrical Heating</li> <li>- PLC+Inverter+Control for Material Handling</li> <li>- Bean-Heat Regeneration</li> </ul>
Extra Equipment	<ul style="list-style-type: none"> <li>- PLC+Inverter+Control for Material Handling</li> <li>- Weighing System</li> <li>- Bean-Heat Regeneration</li> <li>- enhanced PH / PC</li> <li>- Oilpress Control via PLC</li> </ul>	<ul style="list-style-type: none"> <li>- Weighing System</li> <li>- Bean-Heat Regeneration</li> <li>- enhanced PH / PC</li> <li>- Oilpress Control via PLC</li> </ul>	<ul style="list-style-type: none"> <li>- Weighing System</li> <li>- enhanced PH / PC</li> <li>- Oilpress Control via PLCv</li> </ul>

Throughput and energy usage depend on input seed and target Trypsin inhibitor activity. Rough estimate of energy usage for 1.000kg Soybeans <100kWh (less with heat regeneration).

External preheating can be supplied by biogas plants or other facilities.

Very efficient and compact roaster for 300 - 800 t yearly capacity. An ideal solution for farms, cooperatives or integrations focusing on self-supporting with animal feed.



**ECOTOAST** provides high-quality feed for favorable price conditions.

**ECOTOAST** can be operated 24 hours per day without any supervision. The system controls the function automatically and regulates itself. Contains emergency cut-off switch, filling control, can be remote controlled by mobile app.

**Optimal Protein feed supply made easy:**

- Low temperature processing to preserve valuable ingredients of the seed.
- Best protein digestibility, optimized for each species.
- Compact form factor – about 1m<sup>3</sup> machine size for up to 800 t soybeans per year.
- High energy efficiency and low energy cost.
- Additional power savings with bean heat regeneration and enhanced preheating.
- Minimal installation effort.
- Minimal maintenance effort and spare part cost – rotary valve and fan are only moving parts in the system.
- Optimal control comfort with touchscreen PLC.

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