



Cereal storage bins made by NEUERO for indoor and outdoor use



- ◆ with statics
- ◆ galvanised
- ◆ solid construction
- ◆ high production quality
- ◆ flat profiling of the silo plates gives stability and is better suited for cultivation products, e.g. seeds
- ◆ customized aeration systems and aeration fans
- ◆ control of the stored product using NEUERO temperature measurement equipment
- ◆ cereal storage silos ob hopper construction in segment construction
- ◆ and many other advantages are provided by NEUERO farm technology

NEUERO provides you with everything for cereals:
storage ◆ cleaning ◆ drying
cooling ◆ ventilation
◆ milling



NEUERO Farm- und Fördertechnik GmbH
Alter Handelsweg 11 · 49328 Melle
Tel. +49 5427 9270-0 · Fax +49 5427 9270-140
info@neuro-farm.de · www.neuro-farm.de

Der Getreide-Füller

Your NEUERO dealer:



Der Getreide-Fülliner

NEUERO continuous-flow dryer

Proven technology, creative solutions, flexible production



NEUERO
FARM- UND FÖRDERTÉCHNIK

NEUERO continuous-flow dryer **NDT**



NEUERO continuous-flow dryers of NDT type operate on the basis of state-of-the-art drying processes and incorporate the latest technologies. Thanks to our experience in all of the technological aspects of grain transport and storage, our drying systems are designed for perfect installation within your overall project concept.

NEUERO drying plant is suitable for drying all pourable agricultural products e.g.

- Wheat
- Barley
- Brewing barley
- Rape
- Maize
- Peas
- Sunflowers
- Rice
- Beans
- Granulate

The technical parameters of the NEUERO dryers are customised to your special requirements. The table below forms the basis for each planning measure.

NEUERO drying system Capacities in kg/h :

Type	Elements	Maize 35- 15% kg/h	Wheat 19- 15% kg/h	Rape 13- 9% kg/h	Capacity in t ⁽¹⁾ at 750 kg/m ³	Height ⁽¹⁾ in m	basic measurements B (m) x L (m) ⁽²⁾
NDT 3-1	3	2,050	8,400	6,600	17	8.1	3 x 3.5
NDT 4-1	4	2,730	11,200	8,800	21	9.4	3 x 3.5
NDT 5-1	5	3,420	14,000	11,000	25	11.1	3 x 5
NDT 6-1	6	4,100	16,800	13,200	29	12.4	3 x 5
NDT 7-1	7	4,790	19,600	15,400	32	13.6	3 x 5
NDT 8-1	8	5,470	22,400	17,600	36	15.1	3 x 5
NDT 9-1	9	6,160	25,200	19,800	40	16.5	3 x 5
NDT 10-1	10	6,840	28,000	22,000	43	17.8	3 x 6
NDT 11-1	11	7,520	30,800	24,200	47	19.2	3 x 6
NDT 12-1	12	8,200	33,600	26,400	51	20.5	3 x 6
NDT 13-1	13	8,890	36,400	28,600	54	21.9	3 x 6
NDT 8-2	16	10,940	44,800	35,200	72	15.1	6 x 5
NDT 9-2	18	12,310	50,400	39,600	79	16.5	6 x 5
NDT 10-2	20	13,680	56,000	44,000	86	17.8	6 x 6
NDT 11-2	22	15,050	61,600	48,400	94	19.2	6 x 6
NDT 12-2	24	16,410	67,200	52,800	101	20.5	6 x 6
NDT 13-2	26	17,780	72,800	57,200	108	21.9	6 x 6

Notice, ⁽¹⁾ with two pre-bins, without railings

Notice, ⁽²⁾ without heating and air technology

The dryer capacities are valid for the following conditions:

The product biological matured and cleaned.

All specified capacities are related to wet matured.

Outside air temperature for grain and rape 15°C and 75 % relative humidity.

Outside air temperature for maize 5°C and 75 % relative humidity.

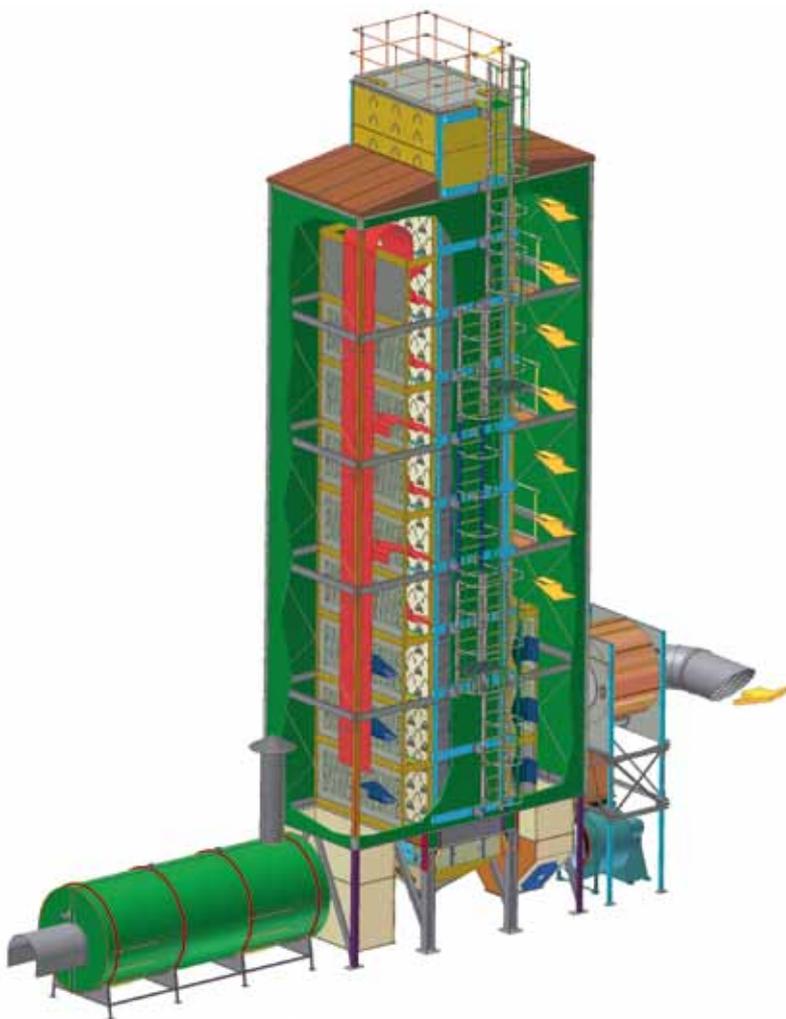
NEUERO continuous-flow dryer **NDT**

Energy efficiency

NEUERO drying systems feature very low energy losses. Our indirect air heaters have an efficiency of > 90 % despite their small size!

Optional heat exchangers are able to partially or completely substitute for some of the energy otherwise generated using fossil fuels. These heat exchangers can therefore save you some of the drying costs.

Our systems feature specially-built thermal insulation in the warm air cap and drying column consisting of high quality sandwich elements. These minimise thermal losses and prevent blockage of the drying column by condensation. NEUERO drying systems generally have equipment for heat recycling during the drying process. These mix in unsaturated air from the pre-cooling cycle of the drying product into the warm air. Combined with "intelligent" burner control, these reduce energy costs and therefore protect the environment.



Thermal recycling diagram

Hot air generation

The hot air in the drying plant is generally produced using a direct or an indirect method.

Direct methods

1. Direct hot air generation using a fan burner

The combustion gases of a gas or oil burner are mixed in to the process air stream in a mixing pipe. This achieves high drying temperatures and efficiencies of 100 %.

2. Gas surface burner

A large burning rod in the air intake shaft generates the heat required for the drying process. The main advantage is the uniform heat distribution and the excellent control. Gas surface burners are available with or without combustion fans.

Indirect methods

1. Indirect hot air generator with fan burner

NEUERO WE indirect hot air generators have been tried and tested for many years. They feature high levels of efficiency and a compact size. They completely fulfil the requirements for indirect grain drying.

2. Heat exchanger for hot water or steam

Demands are increasing for the use of waste heat from fuel-burning plants to be used for drying agricultural products. We have the experience to elaborate a solution for every application, incorporating secondary energy sources in an efficient way.



Indirect hot air generation with an oil burner

NEUERO continuous-flow dryer **NDT**

Electrical control

The electrical controls are in a central switch cabinet. The modern SPC system guarantees simple operation, automatic processes and reliable operation. The controls are operated via a touch panel which displays all of the values and operating elements. An automatic regulator which can identify critical operating conditions early on and send an alarm signal, can do some of the work of the operator in the same way as a temperature monitoring system. Integration into the whole silo or production system is possible via the standardised interfaces.



Touch panel in a NEUERO switching cabinet

Aeration technology

Modern axial and radial fans are used to pump the air through the dryer. They feature very low noise emissions and high levels of efficiency. Modern dust separator systems as well as any extra noise suppression systems required can be installed in the air ducts leaving the fans. The exhaust air generally leaves via the top of the dryer.

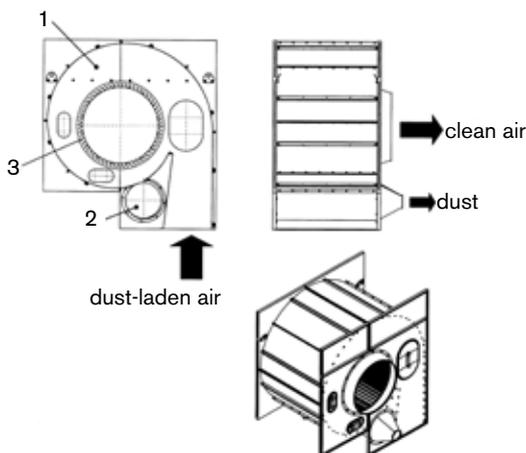


Diagram of a centrifugal dust separator

NEUERO drying systems feature very short assembly times. Because of their modular construction and the high level of standardisation, it is possible to deliver and commission the customised systems with a very short lead time. Minor costs only are required for the installation equipment.

Production

NEUERO drying systems are manufactured on modern semi-automatic and fully automatic CNC machine tools. This guarantees the highest levels of quality and attractive prices. Any further developments in drying technology can be quickly put into practice to help you stay at the cutting edge of technology.

Every part of the drying columns is manufactured in Germany.



NEUERO continuous-flow dryer NDT

