Press Release No. 03/25

New NESTRO® filters for 10,000 – 30,000 m³/h at LIGNA 2025

This year, NESTRO® Lufttechnik GmbH will present itself prominently at the entrance to Hall 15 with a two-storey exhibition booth on a floor area of 145 m² (stand no. G05). The company is demonstrating its shredding, filtering and briquetting technology exclusively in live operation and is pleased about the renewed order to extract dust and chips from all processing machines in the “HOMAG City” on the booth opposite. In the area of dust and chip extraction for the woodworking and the wood industry, NESTRO® sees itself as a leader in consulting and offers closed system solutions. The affiliated companies JPA Pöllhuber Fördertechnik GmbH, AT, and NETECS Sp. z o.o., PL, will be presenting themselves as co-exhibitors for the first time at the NESTRO® booth.

At LIGNA, visitors can experience all NESTRO® applications live in operation and get their own idea of the performance and quality. The new NE 380 J deduster and the NKJ 2000 compact JET filter will be shown for the first time in Hanover.

4 elements intermediate filter NSJ 9/5-38 LIVE-OPERATION

Also set up on the NESTRO® exhibition booth is a 9/5 JET intermediate cleangas filter with a construction height of almost 9 m. The filter system extracts dust and chips of most of the processing machines in the "HOMAG-City". The modular design of four filter elements is clearly visible. In practice, the suction capacity can be individually configured for the customer from 4,000 to 150,000 m³/h. This 9/5-38 design has a filter area of 256.8 m² because one of the elements is used as a blower chamber. Two high-efficiency IE3 cleangas fans, each equipped with a motor of 22 kW, are located on the top of the filter and produce a volume flow of up to 40,000 m³/h. The outstanding visual quality of the filter with its smooth surface is created by the NESTRO® typical continuous steel sheet bending to the inside. The return air is led back into the exhibition hall, thus relieving the load on the air conditioning system and sustainably improving the air quality (residual dust content < 0.1 mg/m³). The filter is equipped with a spark detection and extinguishing system from partner company t&b electronic, Alfeld. The filter bags are cleaned with the JET compressed air pulse method. Dust and chips are discharged via a screw and a rotary valve into a deduster that is connected via a transport duct.

Shredder NSL 60 **LIVE-OPERATION**

Single-shaft shredders of the NSL series from NESTRO® are characterized by extremely robust technology. Single-shaft technology has established itself on the market for wood waste in joineries and in the wood-processing industry. The cutting rotor with its rotatable and replaceable cutters delivers high chipping performance combined with energy efficiency. Our shredders make this possible with a load-dependent pusher control. Via a large mirror, visitors can observe the shredding of the material (hardwood, softwood and chipboard) between the rotating knives on the rotor shaft and a fixed bed knife in the machine bed. Dust and chips are sucked into the deduster via the extraction channel and transport duct.

NEW: Deduster NE 380 J w/ briquetting press NBP **LIVE-OPERATION**

The NE J range of dedusters for indoor installation is the first in the world to feature IE5 drive packages consisting of a synchronous reluctance motor and a frequency converter from ABB. The frequency converter ensures that the motor runs at the optimum operating point at all times and in any constellation. With these state-of-the-art devices, users can save up to 22 % in energy costs compared to dust collectors with IE3 motors commonly available on the market. For the first time the NE 380 J performance class with an operating volume flow of 10,000 m^3/h will be presented at LIGNA. Using an integrated NBP 60 briquetting press, wood briquettes are produced at fixed time intervals at the end of processing. As with all NESTRO® dedusters, the residual dust content of the return air released into the exhibition hall is below 0.1 mg/m^3.

NEW: Compact JET filter NKJ 2000 **LIVE-OPERATION**

With the new NKJ filter series, NESTRO® offers compact devices for outdoor installation in four performance classes for operating volume flows from 12,000 to 30,000 m^3/h. They are equipped as standard with IE5 drive packages consisting of synchronous reluctance motor(s) and frequency converter(s) from ABB. At the HOMAG booth, NESTRO® will use the NKJ 2000, the second largest device in the series, to extract dust and scraps from typical edge banding machines for the woodworking. The new filter consists of just two pre-assembled elements that are simply placed on top of each other and screwed together on site. In the suction section, the air flow is calmed using a pre-separation chamber and coarse material is separated from fine dust at an early stage using gravity. The dust settles on the filter bags, which are cleaned at regular intervals using JET compressed air pulses. The so-called filter cake is blasted off and falls into the bins. The device works as a cleangas filter; the two fans, 18.5 kW each, are located in a sound-proof chamber

behind the filter material. The NKJ is equipped with a spark detection and extinguishing system from t&b electronic, too. The residual dust content of the return air released into the exhibition hall again is below 0.1 mg/m².

Founded in 1977, NESTRO® Lufttechnik GmbH is currently one of the large established manufacturers of products and systems for extraction and filter technology and for their downstream heating technology, for surface engineering and for sorting and disposal technology. About 260 employees develop and produce the equipment according to individual customer specifications at the three production sites in Germany, Poland and Hungary.

Holdback period 31.03.2025

5.828 characters, 951 words

Images:	PM 03-25 01	NESTRO® NKJ 2000 with bins
	PM 03-25 02	NESTRO® deduster NE 380 J

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