

CUTTING
WELDING

SINCE 1898



ZINSER Environmental Technology

Cutting tables, dust extraction, filtration units from your cutting expert



**Made in
Germany**
Since 1898

Oscillating conveyor table ZINTRAC

Highest level of productivity and automation - robust, clean and low-maintenance



Highly efficient solution for your production

ZINSER's oscillating conveyor tables ZINTRAC offer an intelligent transportation solution for all kinds of thermal cutting processes in combination with a highly efficient exhaust system. The long-lasting ZINTRAC-system continuously transports the slag and scrap produced during the cutting process out of the cutting table and conveys them into provided collection containers.

The operating principle of the ZINTRAC oscillating conveyor table is as simple as it is effective: The slag and small parts produced during the cutting process fall onto

vibration chutes at the bottom of the table and are transported out of the table by means of constant vibrations. A major advantage of this process: small parts are almost free of slag as they continuously move into the direction of conveyance after falling onto the vibration chutes. Furthermore, production downtimes for the time-consuming cleaning of the slag container, inevitable when using standard cutting tables, become redundant. Thus the automated cutting process becomes even more efficient. The number of vibration chutes is always tailored to the respective table width.



In the past: manual cleaning of a conventional cutting table



Today: ZINTRAC with automated slag disposal

Highly effective dust exhaustion

In order to guarantee the same environmentally sound exhaustion as with standard cutting tables, ZINTRAC oscillating conveyor tables have transversely arranged air distributors to guarantee an even pressure distribution. The air exhaustion chambers with their flow-optimized, reflection free design are arranged in sections of 520 mm intervals. Thereby the ZINTRAC oscillating conveyor table guarantees an excellent air extraction performance thanks

to the homogenous distribution of the suction volume. Depending on table width and requirements, either one or two exterior extraction ducts are used. The ZINTRAC oscillating conveyor table has a one-sided or for wider tables two-sided, laterally integrated fold channel without pneumatic or mechanic elements on the inside which could interfere with the air flow.

Automatic scrap disposal



At the end of the oscillating conveyor table, the floor should have a pit for collection containers for the slag and small parts. The containers can be lifted by cranes or forklifts. If the production process requires an even higher level of automation, a conveyor system can be installed at the end of the cutting table's vibration chutes to transport the scrap and parts to a central scrap container.

The oscillation technology:

- Longitudinal vibration chutes with drives at the back or the front of the table, each with 2.2 kW, for transporting scrap and small parts
- Drop-off end of the vibration chutes extends 500 mm over the end of the table
- The oscillation channels drop the conveyed material either onto the hall floor or slightly above floor level into scrap containers (the slag containers have to be provided by the customer)
- Control cabinet with time-relay or manual control of the vibration
- Exchangeable tables

Your advantages with the ZINTRAC oscillating conveyor table:

- Scrap-free small parts
- No production downtimes for time-consuming cleaning of conventional cutting tables
- Sophisticated and proven technology
- Highly efficient air extraction technology
- Individual table sizes
- High level of automation
- Low risk of injuries
- Ergonomic working position

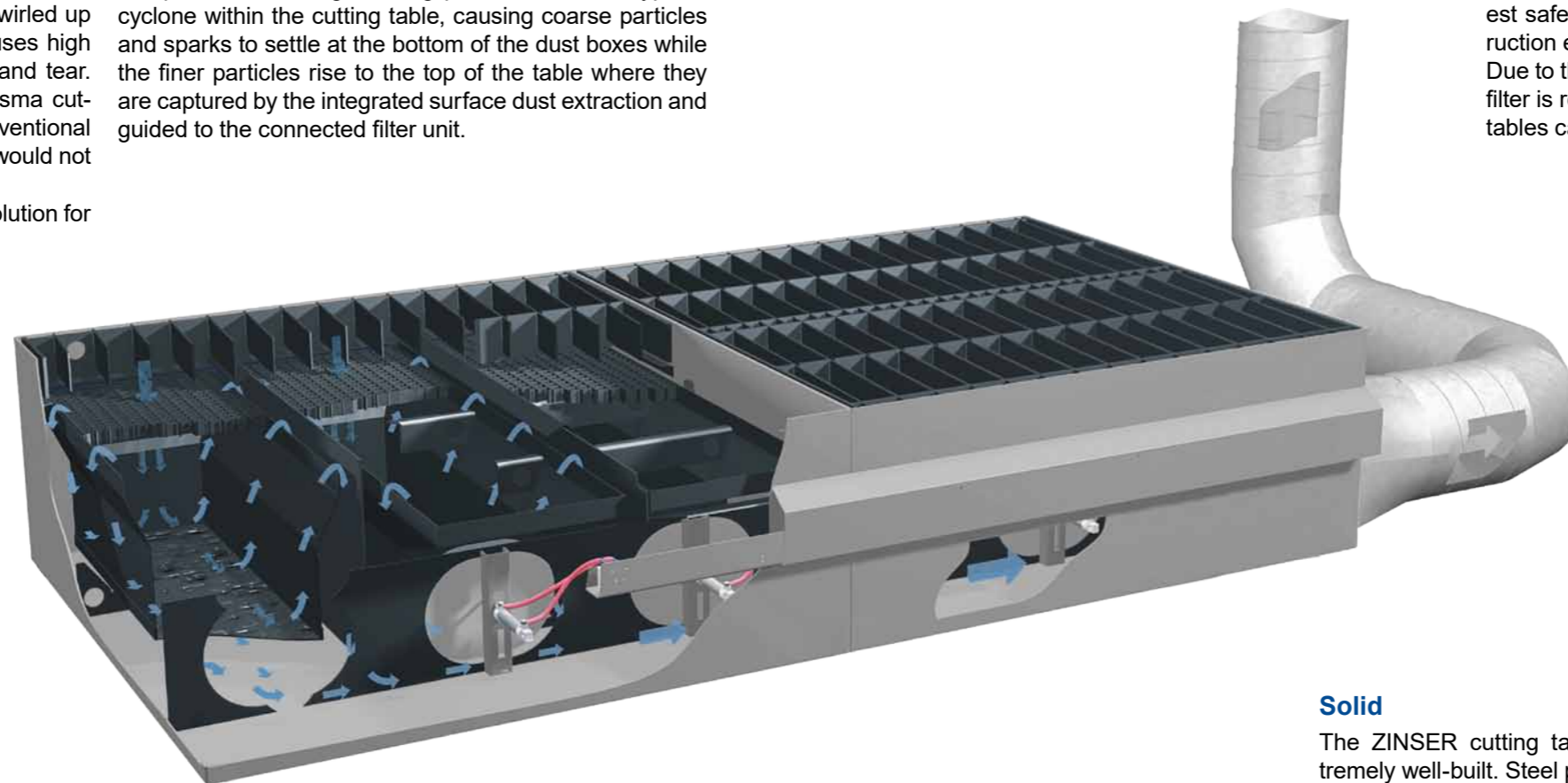
Systematic air purification

Ideal dust flow

The high cutting pressures during plasma and oxy-fuel cutting often cause dust, sparks and fumes to be swirled up and rise again. The resulting contamination causes high maintenance costs and leads to a faster wear and tear. Furthermore, especially the emissions from plasma cutting are very harmful to health. Therefore a conventional dust extraction from the bottom or from the side would not be sufficient.

The ZINSER cutting tables provide the perfect solution for

this problem. The high cutting pressures form a type of cyclone within the cutting table, causing coarse particles and sparks to settle at the bottom of the dust boxes while the finer particles rise to the top of the table where they are captured by the integrated surface dust extraction and guided to the connected filter unit.



The modular design

By using standardized modules, every desired cutting table size can be provided.

Systematic air extraction

The ZINSER cutting tables offer an ideal dust extraction, highest safety and a big cleaning comfort. The innovative construction enables a constant and efficient surface extraction. Due to the design of the tables the risk of sparks reaching the filter is reduced. Due to the modular design nearly all sizes of tables can be realized.

Closed system

The ZINSER cutting tables have a closed bottom plate. Thus no external air can intrude the system and interfere with the ideal air flow.



Solid

The ZINSER cutting tables are extremely well-built. Steel plates up to a thickness of 200 mm are no problem for the table. (Surface load up to 1600 kg/m²). Stronger tables upon request.

The dust and slag boxes

Due to the large dust and slag boxes of the cutting tables, the maintenance/cleaning intervals are less frequent.



Material support

By using inclined, thin flat steel bars the cut quality on the underside of the material is enhanced. The bars can be exchanged easily and therefore facilitate the cleaning of the table.



Surface extraction

Due to the unique design of the cutting table, the fumes and gases are evenly extracted from the surface of the table. Therefore efficient and safe extraction is provided without sparks reaching the filter unit.



Reliable

All parts and components meet ZINSER's high quality standards. A reliable function of the table even in case of permanent use is therefore guaranteed.



Cleaning

Eyelets on all components of the cutting table and the design of the slag boxes enable a very easy emptying and cleaning.



Sectional extraction

The individual modules of the system are divided into sections. Due to the sections a local extraction of the fumes and gases can be achieved and at the same time the needed extraction power is reduced to lower the costs.



Control

The sectionalized extraction is controlled contact-free, electronically via the ZINSER-CNC-controller.

Dust exhaustion and filtration units

First-class systems from your cutting expert

ZINSER offers professional dust filtration units that have been specifically engineered for applications like plasma, oxy-fuel and laser cutting. The extraction systems and filters from ZINSER offer the highest standard in performance, efficiency and productivity and set new benchmarks regarding filtration performance. The filtration units are available in different sizes.

Unique cartridge filters

The filtration units use unique oval-shaped cartridge filters making dust and fume filtration more efficient, compact and cost-effective. Oval-shaped filters can handle more airflow than traditional circular-shaped filters without increasing velocities to ensure an efficient dust control. This results in a lower potential for media abrasion and increases the filter life.

In addition, the innovative nanofiber filter media allow for a more efficient filtration than filters with standard types of filter media such as depth-loading cellulose, polyester or cellulose/polyester blend because they can trap more dust on their surface.

Intelligent control

The filtration units are controlled comfortably and automatically via your CNC machine control. The filtration unit is only active when it is needed. This results in substantial energy savings and prevents an unnecessary extraction of cooled or heated air from your production facilities.

Your advantages

- “Plug and Go” unit
- Closed housing (complete system)
- Quiet operation
- High-performance, oval-shaped cartridge filters
- Efficient filter media
- Increased cleaning efficiency
- Fast and easy installation
- Easy maintenance with quick-access filters
- Energy cost saving due to low energy requirements
- Tailored to your requirements



Options

ZINSER’s filtration units can be individually tailored to your requirements. You can choose dust bins in different sizes. Of course the filtration units are also available in explosion-proof versions.

100 l dust bin, explosion-proof

Filtration unit with 100 l bin, explosion-proof version as needed e.g. when cutting aluminum.



200 l dust bin

Filtration unit with 200 l bin.



Filtration unit with big bags



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