



SPECIAL MACHINES

Automation technology
5-axes milling machine
Chip processing
Chip redistributor
Stacking device
Washing cabin
Water cutting table
Continuous dryer
Sheet storage system
Assembly modules
Unwinding device

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Automation technology / handling / special lifting means

Special lifting means

This special lifting means with automation technology as key aspect loads raw sheets to the machine. That means, the raw sheet is received, conveyed to the folding press and from there, it is completely edged and further transported to the depository.



Areas of application

Our complex handling and automation technology serves the improvement of the rationalisation potentials. For this purpose, we develop and implement customer-specific solutions.



5-axes milling machine PENTAPOD



Areas of application

The 3D milling machine Pentapod enables the precise manufacture of complex and oversized components within a clamping range.

Technical parameters

Rotary table diameter: 1,250 mm
Precision: +/- 0.01 mm
Z-axis: 1,100 mm

Processing dimensions

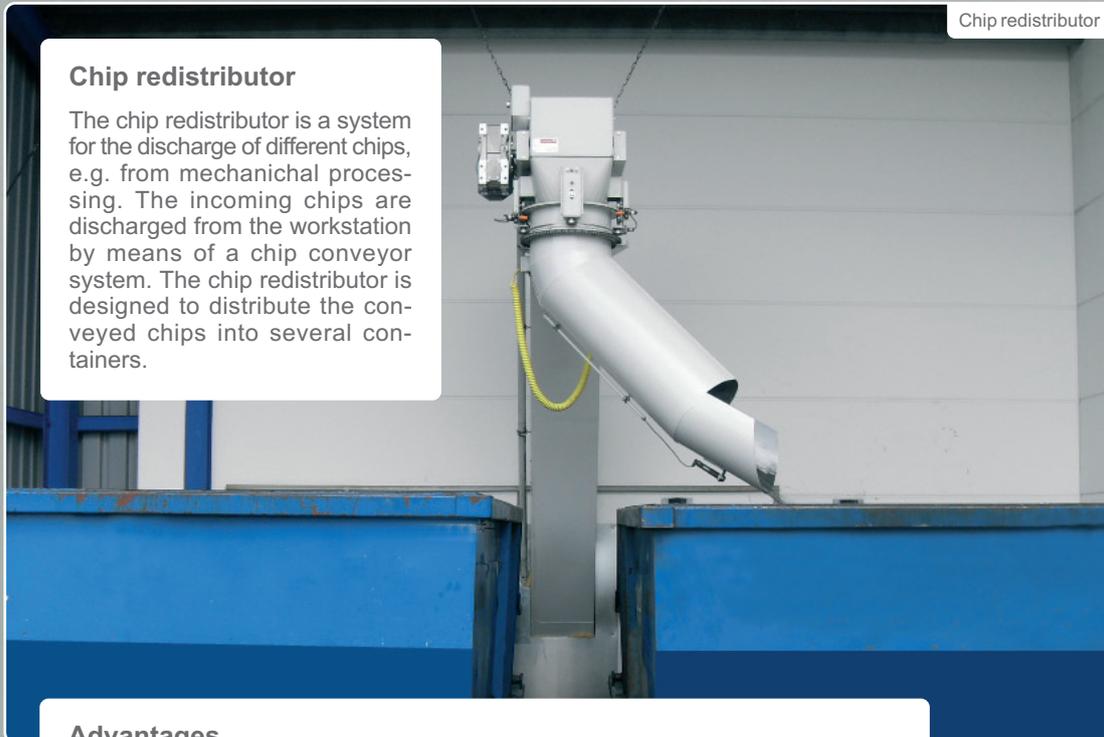
flat: 1,500 x 4,000 x 300 mm
tall: 1,000 x 1,000 x 1000 mm



Chip processing plant



Chip redistributor / stacking device

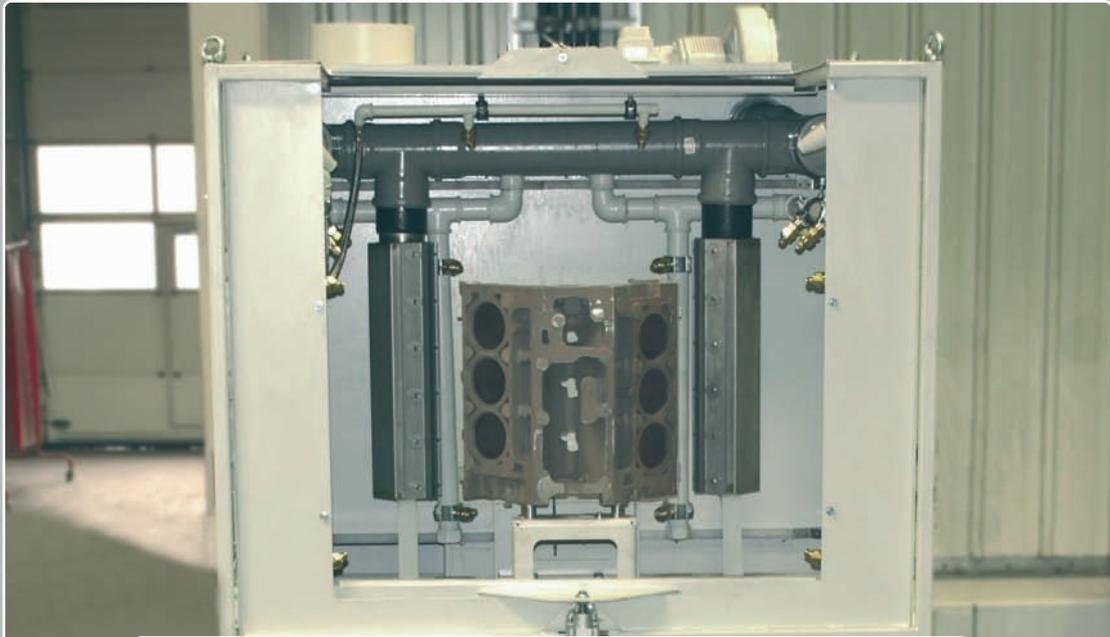


Advantages

- environmentally friendly separation of the chip waste
- container replacement without idle times
- fast and environmentally friendly disposal of the chip waste at the workstation

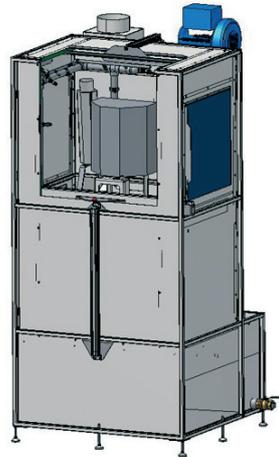
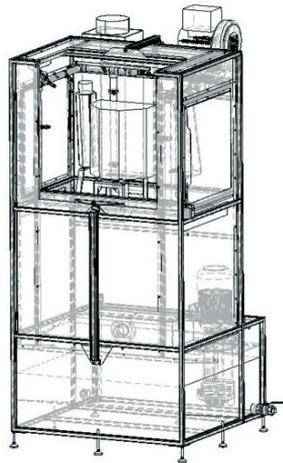


Washing cabin



Areas of application

The washing cabin can be a part of a plant for the mechanical workpiece processing. It is used for the cleaning of processing residues on workpieces after the turning, milling or grinding process. The cleaning is effected by rinsing the work piece and then, a subsequent drying is executed by means of high air flow.

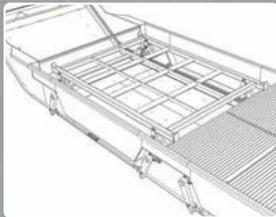
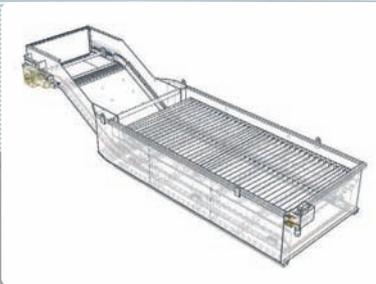


Water cutting table



Areas of application

The water cutting table is used in to water jet, plasma and flame cutting systems. It is especially suitable for metal-processing, as well as for non-metallic cutting processes, such as sawing plants for stone, wood or glass.



Advantages

- the crimped mesh below the cutting support prevents small flame-cut parts in the container
- reduction of the exhaustion and therefore, lower power requirements
- no dust load
- no manual cleaning of the water tank required
- longer durability of the cutting support

Functional principle

The cutting table is designed as a substructure and sheet support for cutting portals. If required, its water level can be regulated in a fully automatic way by means of interior air tanks. An integrated scraper discharge hauls cut parts and abrasives via an ascending part during the cutting process. Deposits at the bottom of the trough are prevented by this self-cleaning system. Optionally, a mechanical lifting device offers the possibility of lifting

and lowering two cutting supports individually and automatically. While the cutting process is taking place at one of the two supports, the material unloading and loading can be effected at the other support. Such logistics of the cutting process reduce the pre- and post-processing times. Moreover, an extension can be effected by means of an interval function and a night service mode in order to automatize the conveying process.

Continuous dryer



Areas of application

The continuous dryer is a modular drying system with x-levels and two lifting stations, each at the beginning and at the end of the system, in order to convey the good to be dried into the next level. Any material can be dried in this system.



Advantages

- significant space savings
- no need of additional storage space
- easy loading



Sheet storage system

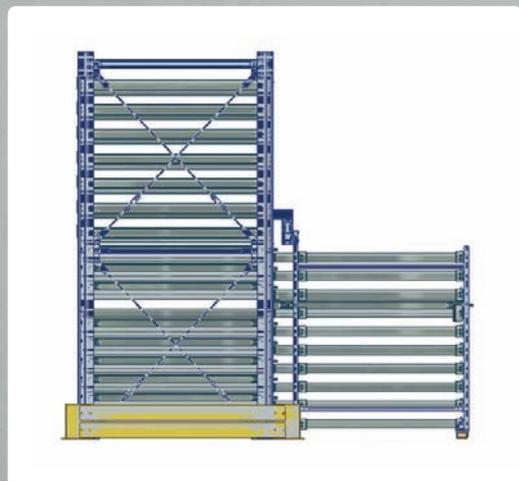


Areas of application

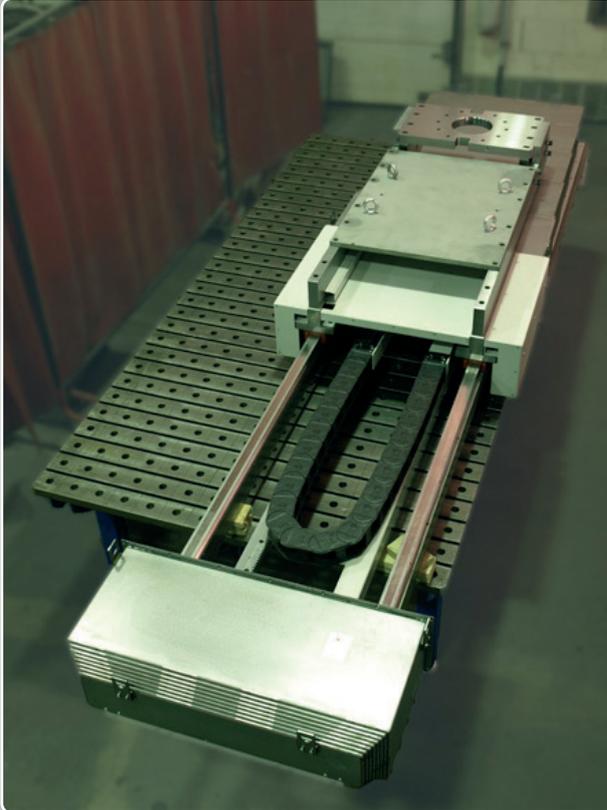
The sheet storage system enables the storage of sheets and other objects without wooden pallets. The individual sheets or the complete packages can be removed easily at any time.

Advantages

- modular design
- highly flexible, efficient and space-saving
- can be expanded in size and function
- flexible distance between sheet cassettes



Assembly modules

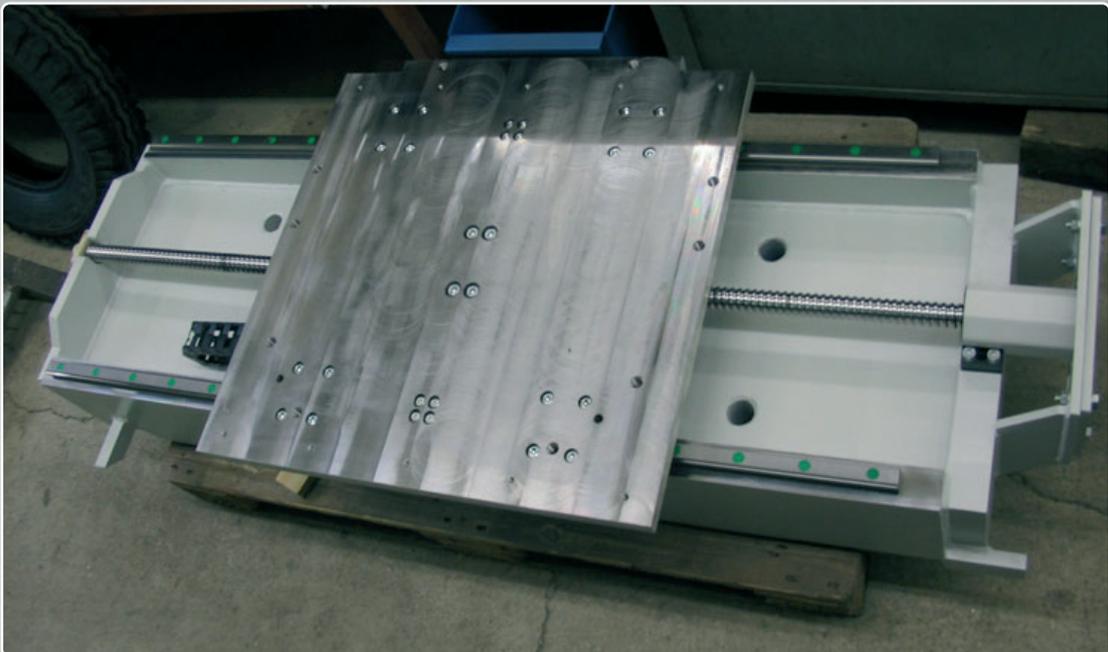
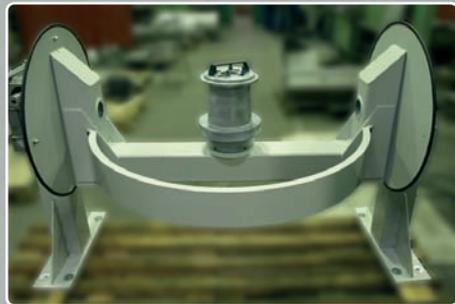


Assembly modules

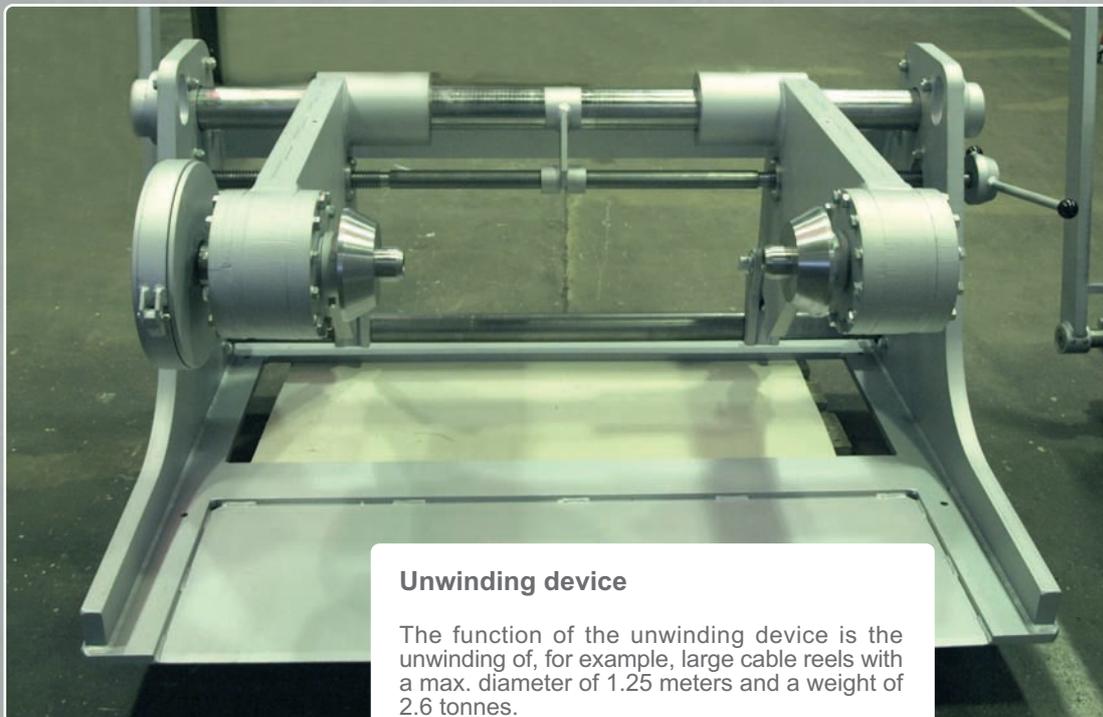
We manufacture individual assembly modules according to customer request or drawings.

Advantages

- complete project management from a single source
- procurement / in-house manufacture of all individual components
- functional tests
- inspections



Unwinding device

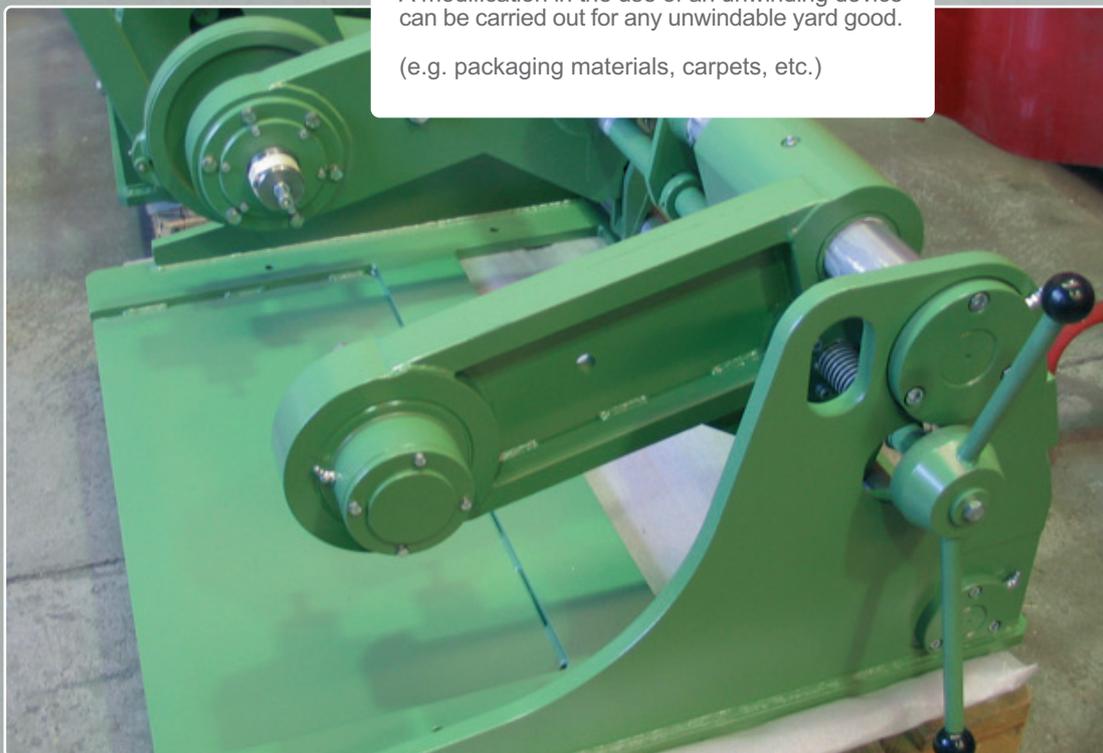


Unwinding device

The function of the unwinding device is the unwinding of, for example, large cable reels with a max. diameter of 1.25 meters and a weight of 2.6 tonnes.

A modification in the use of an unwinding device can be carried out for any unwindable yard good.

(e.g. packaging materials, carpets, etc.)



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Lehmann-UMT is a leading manufacturer of complete plants and components of individual conveyor and filter technology. A quick response to the market development, committed and competent employees and the loyal support of the investors are a reliable foundation for permanent success.

Integral elements of our company profile are engineering, 3D construction, conveyor technology, sheet processing and special machine construction. The main business of Lehmann-UMT GmbH is the production and distribution of individual conveyor and filter plants.

In the area of special machine construction, we contribute to the development of rationalisation potentials with complex handling and automation technology. Our powerful production machines, such as 3D laser, plasma and flame cutting systems, as well as modern CNC machining centres, are the basis for an efficient contract and module manufacture.

We manufacture according to our customer's wishes, from standard plants to individual complete solutions - everything from a single source.

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