



> Dynamic Duo: TowerMat and PickMat

TowerMat – the dynamic storage system for storing long goods, sheet metal, boxes, tools, pallets and more.

PickMat – the automatic handling system for loading and unloading laser systems.



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The dynamic storage system: saves space and costs

➤ INTERTEX – the professional for flexible concepts for the storage of almost all types of products. No matter whether it's long goods, sheet metal, tools or pallets – the TowerMats meet many requirements and can be adapted optimally to your storage goods. The TowerMat is the ideal solution when we are talking about space optimization and productive material handling, as well as provision in the warehouse or production. With the least floor space, it utilizes the available height optimally, thereby increasing the storage capacity many times over. We can take specific local requirements into account flexibly and thereby expand the already existing, conventional warehouse without any problems. An increase in efficiency is included – and you can integrate a new, dynamic warehouse effortlessly into your production. Just put us to the test: the single or multi-line TowerMat storage system is quite assuredly the right solution for you.

Long goods

The INTERTEX long goods storage systems are specially adapted to long materials. This makes the storage of goods, such as for example, pipes, steel bars, or all other long goods quite easy. The INTERTEX TowerMat Long Goods Storage can receive materials with a length of up to 10,000 mm and cassette weights of up to 5 t.

Sheet metal

Metal plates can be stored optimally and efficiently in the INTERTEX sheet metal storage systems. The TowerMat sheet storage, available as single-line or multi-line storage system solution, can be equipped with material up to a size of 6,000 x 2,000 mm. The individual cassette weight of the sheet storage system can take up to 8 t payload. Special sizes upon enquiry.

Tools, Pallets, Other

The TowerMat storage lifts can be equipped with almost any material. You can not only store long goods or metal plates and packages but also tools, pallets or lattice boxes efficiently and space saving. Rolls are also not a problem. Optimally adjusted to your requirements and goods, the dynamic storage lifts open up unlimited possibilities. You can store cubic articles with a depth of up to 2,000 mm and a height of up to 1,500 mm.



Capacity: 19 cassettes / L 6,300 mm, D 730 mm, H 120 / 210 / 270 mm
 Payload per cassette: 3,000 kg / Total payload: 57,000 kg
 Machine dimensions: H 5,500 mm, W 7,750 mm, D 2,280 mm



Capacity: 20 cassettes / L 6,300 mm, D 800 mm, H 100 / 150 / 250 mm
 Payload per cassette: 2,000 kg / Total payload: 40,000 kg
 Machine dimensions: H 6,225 mm, W 7,200 mm, D 2,200 mm



Capacity: 20 cassettes / L 6,300 mm, D 830 mm, H 150 mm
 Payload per cassette: 1,500 kg
 Machine dimensions: H 6,150 mm, W 7,800 mm, D 2,500 mm



The TowerMat EE 1.x for smaller and medium-sized storage quantities

- No matter whether small or medium storage quantities: make use of the TowerMat type EE. The long goods version offers you a flexible storage concept and can accommodate cassettes with a size of up to 900 mm x 8,200 mm. With a load up to maximum 3 t per storage space, a maximum machine height of 8 meters and total payload of 70 t, you adapt it quite simply and flexibly to your requirements. The stored goods lie in so-called cassettes, a storage and retrieval unit (SRU) transports these automatically to the operator. The free access at the output locations, combined with the simple design ensure short access times – thus guaranteeing quick material handling during storage and removal. For good measure, there is additional space, because the footprint is smaller, and the hall height is used optimally.

Semi-Automatic Operation

During semi-automatic operation, the machine is secured by the operator. The sequence is released by the touch of a button via the manual control of the machine, and if the button is not pressed, it is interrupted immediately.

Automatic Operation

A personal protection light grid secures the TM-EE during automatic operation. During the operation, the operator has the opportunity to conduct other tasks within the production. For example, an indoor crane can drive up to the machine directly after requesting the cassette.





Capacity: 67 cassettes / L 6,300 mm, D 830 mm, H 110 / 150 mm
 Payload per cassette: 1,500 kg
 Machine dimensions: H 7,650 mm, W 7,200 mm, D 3,400 mm



Capacity: 38 cassettes / L 6,300 mm, D 830 mm, H 150 / 200 mm
 Payload per cassette: 2,000 kg
 Machine dimensions: H 5,600 mm, W 5,500 mm, D 3,300 mm



Capacity: 32 cassettes / L 6,500 mm, D 800 mm, H 150 / 300 mm
 Payload per cassette: 3,000 kg
 Total payload: 96,000 kg
 Machine dimensions: H 5,400 mm, W 7,460 mm, D 3,330 mm



Capacity: 54 cassettes / L 6,500 mm, D 830 mm, H 185 / 245 mm
 Payload per cassette: 3,000 kg
 Machine dimensions: H 7,940 mm, W 7,400 mm, D 3,400 mm

The TowerMat FE 2.x especially for medium storage quantities

- The TowerMat Storage System Type FE offers major advantages regarding handling and safety in comparison to static shelf systems. Through the fully-automatic sequence, the desired goods come directly to the operator. These are provided ready to hand on a trolley via a longitudinal and/or transverse station for further processing, e.g. at a saw. Thanks to the use of two storage towers and one centrally guided Storage and Retrieval Unit (SRU), the TM-FE 2.x offers the double capacity compared to the TM-EE 1.x, in addition larger heights and higher payloads are possible. With a maximum machine height of 25 m and a payload of 400 t you can adapt it to your requirements. A pit version enables an even further increase of the storage capacity with the same space requirement.



TM-FE 2.2

Roller door

A roller door interconnects separated sectors simply and functionally. Via a lock it enables loading and unloading of machines in the exterior area, which stand inside the hall. Furthermore, the roller doors serve fall protection in the case of a multi-storey system.

Full enclosure

The TM-FE 2.x, equipped with a full enclosure, protects the stored goods against dust or similar impurities.





Capacity: 51 cassettes / L 8,100 mm, D 830 mm, H 255 mm
 Payload per cassette: 1,400 kg
 Machine dimensions: H 5,615 mm, W 9,000 mm, D 8,850 mm



Capacity: 89 cassettes / L 6,300 mm, D 830 mm, H 120 / 150 mm
 Payload per cassette: 1,500 kg
 Machine dimensions: H 5,000 mm, W 7,200 mm, D 9,000 mm

FE x.x takes care of medium to large-sized storage quantities

- When the requirements increase, our FE x.x is exactly the right choice. Expand your capacities from FE 2.x to FE x.x. In this case, several storage and retrieval units allow faster material provision. A pallet loader takes care of transfer from one SRU to another. An expansion from FE 2.x to FE x.x is also possible later.



TM-FE 4.1

Weighing system

If you wish to weigh the material during the storage procedure, you can rely on the weighing system. It makes stock management easy and you retain full control.

Slewing and gantry crane

Make things easier for yourself: Upon requirement, we can plan the inclusion of a slewing or gantry crane to make handling within production easier and to be independent of the interior crane.





Capacity: 356 cassettes / L 6,800 mm, D 832 mm, H 150 / 200 / 250 / 350 mm
 Payload per cassette: 3,000 kg / Total payload: 1,068,000 kg
 Machine dimensions: H 9,140 mm, W 8,900 mm, D 26,000 mm
 Brüttsch & Rügger Metals AG, CH Regensdorf

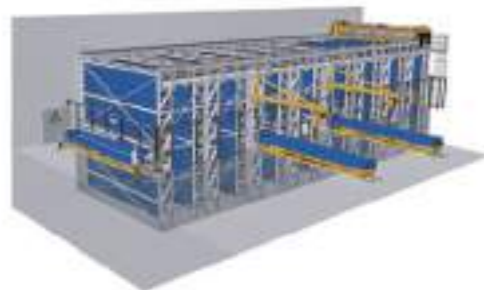


Capacity: 145 cassettes / (250 rolls) / L 3,600 mm,
 D 1,220 mm, H 300 / 600 / 800 / 1.200 mm
 Payload per cassettes: up to 5,300 kg
 Machine dimensions: H 14,000 mm, W 5,400 mm, D 30,000 mm



The TowerMat UE x.x takes care of large storage quantities

- Through its modular design, the override storage system type UE allows a later adjustment in the depth of the system, if capacity adjustments are necessary. With this system a traversing unit "perches" on the towers and the storage and retrieval unit (SRU) dives from above between the storage towers and transports the selected cassette to the SRU, which then again moves above the towers to the output stations.



TM-UE 16.3

Remain flexible.

Great, when one is prepared for everything. The flexible carrier set design allows reception of cylinders and rollers with perfectly defined receivers.





Capacity: 61 cassettes / L 3,500 mm, D 800 mm, H 240 / 480 / 640 mm
 Payload per cassette: up to 5,000 kg
 Machine dimensions: H 20,500 mm, W 4,500 mm, D 3,400 mm



Capacity: 26 cassettes / L 6,000 mm, D 520 mm, H 420 mm
 Payload per cassette: up to 4,000 kg
 Machine dimensions: H 9,160 mm, W 7,000 mm, D 2,100 mm



Capacity: 24 cassettes / L 6,300 mm, D 830 mm, H 500 / 830 mm
 Payload per cassette: up to 2,000 kg
 Machine dimensions: H 12,700 mm, W 7,260 mm, D 3,330 mm



Capacity: 28 cassettes / L 6,000 mm, D 1,300 mm, H 505 / 750 mm
 Payload per cassette: up to 2,000 kg
 Machine dimensions: H 10,500 mm, W 6,950 mm, D 6,360 mm

Capacity: 31 cassettes / L 4,500 mm, D 1,300 mm, H 570 / 970 / 1,170 mm
 Payload per cassette: up to 5,000 kg
 Machine dimensions: H 19,000 mm, W 6,600 mm, D 7,500 mm

True multi-talent TowerMat: it also stores tools and pallets

- The TowerMat storage lifts pitch in everywhere. It is just as possible to store tools, pallets or lattice boxes as it is to stow long goods or metal plates efficiently and space saving. You want to store rollers? Not a problem. The dynamic storage lifts are very adaptable, corresponding to your requirements and goods. There's only one thing which must be observed: all cubic articles fit as long as they have a depth of up to 2,000 mm and a height of up to 1,500 mm.

Forklift processing

Practical: through the integrated lifting-lowering station, the storage goods are deposited in an elevated position. Later they are lowered automatically into the cassette.

Combined loading

Twice as good: Long goods and pallets / lattice boxes can all be stored in the same system.





Capacity: 13 pallets / L 3,100 mm, D 1,540 mm, H 135 mm
 Payload per pallet: 3,000 kg / Total payload: 39,000 kg
 Machine dimensions: H 4,440 mm, W 4,571 mm, D 3,710 mm



Capacity: 12 pallets / L 3,100 mm, D 1,500 mm, H 90 mm
 Payload per pallet: 3,000 kg / Total payload: 36,000 kg
 Machine dimensions: H 3,600 mm, W 4,250 mm, D 3,550 mm



Capacity: 102 pallets / L 4,100 mm, D 2,100 mm, H 50 / 130 mm
 Payload per pallet: up to 1,500 kg
 Machine dimensions: H 10,050 mm, W 5,245 mm, D 7,450 mm



Capacity: 56 pallets / L 2,600 mm, D 1,400 mm, H 120 / 180 mm
 Payload per pallet: up to 2,500 kg
 Machine dimensions: H 9,850 mm, W 4,570 mm, D 5,970 mm

The TowerMat EE 1.x for smaller and medium-sized storage quantities

- The single line sheet storage type EE can store metal sheets in the large format of 3,000 x 1,500 mm and a weight of 3 t per pallet. With a total payload of up to 70 t and a machine height of 8 meters, it adjusts flexibly to the storage heights. The stored goods lie on carrier pallets in the storage tower and are brought to the operator automatically by the storage and retrieval unit. Loading and unloading of the TowerMat is carried out with a forklift truck; the depalletization of the sheet metal packets is also provided by means of the lifting-lowering station.



TM-FE 2.3

The TowerMat FE 2.x especially for medium-sized storage quantities

- If you wish to deal with Maxi formats of 6,000 x 2,000 mm and cassette weights of up to 8 t, you're right on target with the TowerMat FE 2.x. Equipped with two storage towers and a centrally guided storage and retrieval unit (SRU), it offers output locations longitudinally and transversely below each storage tower. Of course, there are special dimensions available upon request.



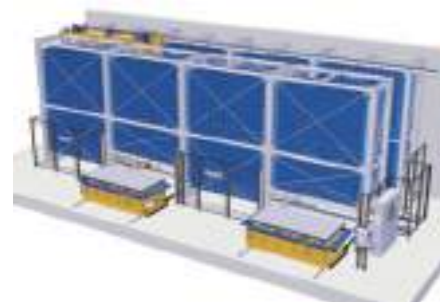
Capacity: 84 pallets / L 3,100 mm, D 1,540 mm, H 90 mm
 Payload per pallet: up to 3,000 kg
 Machine dimensions: H 5,515 mm, W 18,900 mm, D 6,200 mm



Capacity: 91 cassettes / L 3,100 mm, D 1,600 mm, H 90 mm
 Payload per cassette: 3,000 kg / Total payload: 273,000 kg
 Machine dimensions: H 6,150 mm, W 9,870 mm, D 6,130 mm

The TowerMat RE x.x for the large storage quantities

- If you are planning major undertakings, the TowerMat RE x.x is first choice for you. Fitted with a mobile storage and retrieval unit, the TowerMat RE x.x consists of several storage towers arranged in a row with an SRU, which also runs along the storage towers laterally and positions itself. The metal plates can be output at each selected storage tower.



TM-RE 8.2

Depalletization

The metal packet is lifted up by means of an integrated lifting-lowering station when storing, allowing easy removal of the wooden pallet.

Centring device

The centring device makes it possible to align the metal plates during the storage procedure, to be able to feed them to the laser with positional accuracy.

Lifting device

After providing the material at the removal opening, a manual or automated removal of the materials can be conducted by means of the handling system PickMat, a magnet, resp. vacuum lifter.





Storage type: TM-FE 2.3 / Storage capacity: 62 pallets
Outputs: 1x trolley with lifting and lowering station and 1x double material trolley
PickMat-3015 / CO2 Laser system



Storage type: TM-RE 4.2 / Storage capacity: 84 pallets
Output: 2 x fixed table, 1x with depalletizing station / Vacuum lifter / Laser system

Automated laser processing

- Runs almost automatically: Raw material from the tower is provided automatically. The re-storage of cut metal plates into the tower works just as simply and automatically. Of course, one goes easy on resources: the re-use of residual metal plates is possible. Reduction of the loading and unloading time of the laser leads to an increase in productivity. It is easy on the material and this is moved safely.



TM-EE1.2/PickMat-3015

INTERTEX-Software INT-WM

- Just leave it to us: the Intertex-Software INT-WM can take over the function of the Line Controller. It then controls the complete process and coordinates the interaction of warehouse, PickMat and laser. By the way, lasers from the most popular manufacturers can be integrated.



PickMat-3015 with screening system, vacuum unit and for large-size metal plates up to 900 kg

Can do a lot: the PickMat-3015



➤ Where do we start? With the vacuum unit to receive the raw material? Or with the screening system with whose help the raw material is placed on the shuttle table of the laser and picked up again with the cut plates to then be placed on the Double-Material Trolley (D-MTT)? That a material thickness of up to 25 mm is possible? It is convincing that an interaction by the warehouse is not absolutely necessary with the Double-Material Trolley. Use the PickMat-3015 as stand-alone solution or otherwise with link to the warehouse. In this case you can link several laser systems or D-MTTs. You can process metal plate formats of 3 x 1,5 m, 2,5 x 1,25 m and 2 x 1 m. Residual material storage and provision is a major subject for us.

Screening system

The support bars or the optional belt system take care of a low-scratch handling which is gentle on the material.

D-MTT

With two trolleys: the upper is for cut metal plate. The lower for raw material. This means that a fast change can be guaranteed. An interaction with the warehouse is therefore not absolutely necessary.

Vacuum unit

Consists of 20 suction plates and six independent pneumatic circuits. In the case of non-occupancy, it switches off automatically. Including double plate control. The wave function allows a process-reliable separation for thin metal sheets.





Combination: 2 x 2,5t
Paper roll diameter: 1,550 mm
Paper roll width: 2,250 mm



Combination: 2 x 2,5 t
Internal transport of sheet metal stack



A shuttle for your high rack

- Off we go: a storage and retrieval unit (SRU) drives into the position of the desired high-rack. The shuttle detaches itself from the SRU to drive into the storage channel. The warehouse goods or the storage unit can be lifted and lowered independently with the integrated lifting unit. This way, several products can be stored one after another – that is into the depth –. This is best suited for varietal purity storage, as the first loading unit per channel (LIFO) is accessed first. Of course, the system also offers an automatic relocation (in the case of varietal impurity storage). Loading and unloading is always carried out from one side. The shuttle receives energy either from a trailing cable or through a battery, resp. power caps.

Shuttle with high load capacity

- Benefit from a possible payload of more than 1,2 t for Euro pallets. For larger dimensions, up to 2,5 t are possible and in a combination of two up to max. 2 x 2,5 t.





The cassettes are transferred out onto a delivery table with a chain conveyor via a loading cart with chain conveyor.

Special solutions – always tailored to your needs

- The delivery stations convince through free access, easy removal with a forklift and an open top design. They allow chain conveyors, have stationary, longitudinal, transverse and elevated output stations with integrated lifting and lowering stations and of course, transverse and longitudinal combinations are possible simultaneously.

Lifting / Lowering Station

It is possible to integrate a lifting and lowering station into the mobile cart or the stationary output station. This lifts the storage goods during the loading and unloading process above the cassette edge, which makes loading with the forklift possible.

Stationary output station

An external loading table enables loading and unloading via an indoor crane.

Loading cart

Here, the properties of the stationary output station are supplemented by a flexible extension distance. Several stopping positions can be implemented. A re-introduction of the cassette is of course possible with this cart.





Capacity: 61 cassettes / L 3,500 mm, T 800 mm, H 240 / 480 / 640 mm
 Payload per cassette: up to 5,000 kg
 Machine dimensions: H 20,500 mm, W 4,500 mm, D 3,400 mm



Capacity: 152 cassettes / L 6,300 mm, D 830 mm, H 200-900 mm
 Payload per cassette: 3,000 kg
 Machine dimensions: H 15,000 mm, W 8,000 mm, D 12,000 mm



Capacity: 120 pallets / L 3,100 mm, D 1,500 mm, H 90/200 mm
 Payload per pallet: 3,000 kg
 Machine dimensions: H 15,200 mm, W 4,000 mm, D 5,200 mm

Outdoor installation / Roof penetration

- When the order situation is good, the prospects positive, you can easily hit your capacity limits. Perhaps a roof opening in the hall would be the right solution for you then? Or is an extension another option? Enclosures are also possible. Why don't you just contact us and talk to us personally – we can find the best solution together.

If more work turns up, you simply go underground

- Space is precious. A good alternative for an outdoor installation is the pit solution. With our pit solution you can expand your storage capacity considerably.



TM-FE 2.2



The wide range for all systems

> No matter which requirements and needs you have: with these equipment options you are always ideally equipped. In a personal discussion we are sure to find the right solution for you.



Automatic operation



Fixed table



Factory cart



Depalletization of the sheet metal



Pit solution



Semi-Automatic



Slewing crane



Gantry crane



Cart outdoor area



Chain link fence



Roller door



Lifting-Lowering long goods



Full enclosure



Battery operated cart



Outdoor installation



Bridge



The INTERTEX Controls and Software Solutions

- The perfect controls for your warehousing. Advanced microprocessors in our INT-TC7.1 and INT-EC1 controls, as well as our technically mature warehouse software INTERTEX-Warehouse Management, together with the INTERTEX Warehousing Systems look after even greater speed and better safety.

Controls

The storage machines, together with our two controls INT-TC7.1 and INT-EC1 can meet any requirements. No matter whether one control point or eight – with the modern machine controls from INTERTEX you are always very well served. With the graphics capable displays, control of the machine turns into child's play; large icons and hotkeys simplify operation tremendously. The control of the machines has a very simple design: the carrier set selection is conducted via a numeric keyboard or individual articles via the integrated article management through touch operation of the INT-TC7.1. A smooth telephone support and quick error diagnostics on site is possible thanks to comprehensive monitor functions. The read-out of possible error messages with plain text is available in both controls. You can protect your control points with passwords. The choice of various languages is also possible. We optionally equip the machines with a carrier set width and depth display, the integration of weighing equipment is not a problem – according to your wishes and needs.

PC Software

An independent article management system or a connection to an ERP system – INTERTEX offers you seamless and perfect software solutions for this. In combination with the INT-EC1 and INT-TC7.1 machine controls, you can use the "INTERTEX - Warehouse Management" PC software as comfortable and operator-friendly stand-alone article management. A serial connection between the control and the PC allows smooth communication between machine and the employed PC software INT-WM. The INT-TC7.1 offers, in addition to a serial transmission, a TCP-based connection. If an ERP system with integrated warehouse management is already in use, we will implement a connection of the warehouse system to the higher-level host system through our "INTERTEX Query Serve". Just challenge us – with special solutions or special adaptations – we leave nothing more to be desired.

The INTERTEX Service

- > You have no time to lose. That's why INTERTEX offers reliable support, should something not run the way it should. We can be contacted quickly, respond quick as lightning and will support you with competent, well-trained staff. Should our telephone support not be able to help you, specialists will be on site quickly, to get everything running again.

No ifs, no buts

Our specialists in the Service Centre provide fast, professional and unbureaucratic help.

You can therefore rely on an efficient, as well as technically and organisationally high-quality service support throughout the full "lifetime" of a machine, resp. a system. Ask us about a service package which fits your requirements perfectly.





Just leave it to us.

- > All-rounder? An assertion which needs to be upheld first. At our locations in Eislingen and Heiningen we have a vertical integration of almost 98%. A small insight into our machine park: there is a punch-nipple machine, laser system, as well as various bending machines up to 6,000 mm available for sheet metal forming. Chip machining is carried out with a lathe (incl. counter spindle, milling capability and power tools) and a 5-axis milling machine with a 1,200 mm rotary table. Above and beyond this, you can rely on fully-automatic sawing and an automatic carrier processing up to a length of 15,000 mm. Last but not least, even carrier units up to a length of 10,000 mm are transferred through our powder-coating facility. Both the machine construction (with FEM) and the electrical design with control cabinet construction and own software development are carried out in-house. All this guarantees a consistent INTERTEX quality from A to Z.





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