



TASK

Automating the future

TASK DYNAMIC

Task Dynamic, the automation division of Schiavi Machine International, specializes in advanced, tailor-made industrial automation solutions, with particular expertise in sheet metal processing. With decades of experience, we're dedicated to optimizing production processes and maximizing operational efficiency for our clients.

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VISION & MISSION

INNOVATION AND ITALIAN MANUFACTURING EXCELLENCE

For over 60 years, Schiavi Macchine has embodied Italian manufacturing excellence. Every machine is designed and produced in Italy, showcasing the best of "Made in Italy" through ongoing innovation in sheet metal automation solutions.

CUSTOM SOLUTIONS FOR MAXIMUM EFFICIENCY

We provide tailored, advanced machinery that enhances each phase of production. At Schiavi, quality and efficiency are fundamental values, ensuring tangible, guaranteed results.

A FAMILY-RUN COMPANY WITH A VISION

Schiavi Macchine is family-owned, guided by values of respect, responsibility, and dedication. Now managed by the third generation of the Zinetti family, the company continues its legacy of innovation and excellence with every project.

GLOBAL REACH, ITALIAN ROOTS

With over 14,000 machines installed worldwide, Schiavi proudly exports Italian excellence globally. Our mission is to deliver cutting-edge solutions, keeping Italy at the forefront of industrial innovation.

TASK DYNAMIC

KEY CONCEPTS FOR TASK DYNAMIC CUSTOM AUTOMATION

1

EFFICIENCY

Tailored solutions optimize every stage of production, reducing the time and resources required. Systems designed for client-specific needs avoid waste, increase productivity, and improve overall plant efficiency.

2

PRECISION

Customized automation ensures each operation is executed with maximum accuracy, minimizing errors and guaranteeing high-quality output.

3

FLEXIBILITY

Modular and configurable systems provide flexibility to adapt to market changes or production line adjustments, all without disrupting operations.

4

INTEGRATION

Each system integrates seamlessly with existing equipment, optimizing workflow, minimizing downtime, and synchronizing production stages.

5

RELIABILITY

TASK Dynamic builds robust, durable systems that deliver high reliability even in intensive environments, with minimal maintenance downtime.

6

ONGOING SUPPORT

Offering continuous technical support from design through post-sales, TASK Dynamic provides remote monitoring and a responsive customer service team for swift interventions, ensuring peak system performance.

COMPACT SERVER

THE SPACE-SAVING SHEET METAL LOADING/UNLOADING SOLUTION



- QUICK INSTALLATION
- RAPID SETUP
- CONTINUOUS OPERATION
- ACCURACY
- RELIABILITY
- STRENGTH
- LONGEVITY
- SPEED, OPTIMIZED CYCLE
- AUTOMATION, CONTROL
- PRODUCTIVITY, EFFICIENCY

The **COMPACT SERVER** is a space-saving solution for loading/unloading metal sheets. Designed for quick and easy installation, the system is pre-assembled at the factory and is delivered ready to be added to the laser machine to slash start-up time. A ready-to-use machine, perfect for customers looking for immediate efficiency.

FEATURES

- Fast transport and assembly, one truck only.
- User-friendly programming via PLC.
- Thickness monitoring device included (not optional).

COMPACTNESS AND QUICK INSTALLATION

The Compact Server's space-efficient design allows for transport and installation with a single truck. Pre-assembled and tested at the factory, it minimizes on-site installation time for immediate operational efficiency, delivering both space and energy savings to enhance productivity.

AUTOMATIC LOADING AND UNLOADING

The Compact Server is designed for automated loading and unloading, operating continuously with two bays—one for loading blank sheets and one for unloading finished sheets—enabling uninterrupted workflow until sheets are depleted or the unloading bay is full.

PRECISE HANDLING TECHNOLOGY

Equipped with suction cup technology, the system lifts sheets one at a time, using a magnetic and pneumatic separator to prevent double loading. Sheets are smoothly transferred to the laser machine via a comb feeder, and finished sheets are quickly moved to the unloading bay, ensuring precision and efficiency.

DURABLE STRUCTURE

Constructed with an electrically welded steel frame, the Compact Server is robust enough for intensive production environments. Its design integrates seamlessly with the laser machine, securely supporting the loading and unloading pallets.

EFFICIENT ELEVATOR SYSTEM

A precise pallet elevator moves along sturdy guides, ensuring fast and accurate movement between loading and unloading stations, optimizing laser machine cycles for maximum productivity.

ADVANCED CONTROL SYSTEM

Managed by a PLC, all operations are automated to maintain continuous and seamless performance. The suction system is configured for specific sheet sizes and materials, ensuring single-sheet handling and adherence to processing requirements.

FOCUS

The Compact Server combines space and energy savings to provide an innovative solution for automatic sheet handling in 2D laser systems. With fast installation, immediate operational readiness, and advanced control, it is ideal for boosting productivity and minimizing downtime.

COMPACT SERVER

COMPACT TOWER

MODULAR SOLUTION FOR AUTOMATION AND STORAGE



- »»»»»»»» SPACE-SAVING
- »»»»»»»»»» PALLET MANAGEMENT
- »»»»»»»»»»»»»»»» LOADING ACCURACY
- »»»»»»»»»»»»»»»»»»»»»»»»»»»» EFFICIENT UNLOADING
- »»»»»»»»»»»»»»»»»»»»»»»» FLEXIBILITY
- »» CONFIGURABLE
- »» 3-POSITION PALLET CHANGER
- »» MODULAR SOLUTION
- »» ENERGY SAVING

The **COMPACT TOWER** is a modular automation solution for loading, unloading and storing metal sheets. It is configurable, meaning that it can grow with the customer's needs and adapt to a variety of production scenarios.

- MAIN FEATURES:**
- Configurable with drawers at different heights, with or without platform.
 - Non-slip forks to avoid scratching delicate materials.
 - Three-position pallet changing system to optimise the production cycle.

COMPACT LAYOUT
The Compact Tower offers a space-saving design, ideal for production areas where optimizing floor space is essential. Its compact footprint enables efficient material handling without occupying unnecessary space.

ENERGY SAVING
Designed with energy efficiency in mind, the Compact Tower reduces power consumption, contributing to a more sustainable and cost-effective operation.

CONFIGURABLE AND CUSTOMIZABLE
Fully adaptable to production needs, the Compact Tower allows flexible configurations. Adjust the drawers, platform options, and stacking heights to match specific storage and handling requirements.

PROGRAMMABLE WAREHOUSE MANAGEMENT
With programmable warehouse management, operators can set up precise loading and unloading schedules, ensuring streamlined material flow and reduced manual intervention.

RELIABILITY
Designed for intensive use, the Compact Tower is built with high-quality materials to guarantee durability and optimal performance, even under demanding production conditions.

EASY TO PROGRAM AND USE
The Compact Tower's intuitive interface and user-friendly controls make it simple to operate and program, reducing setup times and ensuring efficient day-to-day operations.

FOCUS
The **Compact tower** is a complete, modular solution for businesses looking for advanced and automated metal sheet loading, unloading and storing management. Being able to customise the system to specific requirements, together with advanced handling and control technologies, for safe, accurate and efficient operation, reducing costs and improving productivity.

COMPACT TOWER

MULTI TOWER

INTELLIGENT SHEET
STORAGE SOLUTIONS



- »»»»»» HIGH CAPACITY STORAGE
- »»»»»»»» AUTOMATED RETRIEVAL SYSTEM
- »»»»» MODULAR AND CONFIGURABLE
- »»»»»»»»»»»» FLEXIBLE LAYOUT OPTIONS
- »»»»»»»»» LASER MACHINE INTEGRATION
- »»»»»»»»»»»» AUTONOMOUS OPERATION
- »»»»»»»» EFFICIENT LOADING/UNLOADING
- »»»»» PRECISION HANDLING
- »»»»» CUSTOM STORAGE SOLUTIONS

The **MULTI TOWER** provides a flexible, high-capacity storage solution for automated processing.

Fully customizable, it integrates seamlessly with laser loading/unloading and sorting stations to create autonomous processing cells. Its central automated retrieval system manages drawer movements for efficient loading, unloading, and long-term independent operation.

HIGH STORAGE CAPACITY

The Multi Tower provides extensive storage capabilities, accommodating large volumes of materials, making it ideal for high-demand production environments.

LONG-TERM AUTONOMY

Designed for sustained operations, the Multi Tower can operate independently over extended periods, reducing the need for frequent reloading and supervision.

CUSTOMIZABLE CONFIGURATION

Adaptable to unique facility requirements, the Multi Tower can be configured to match specific layouts and production needs, ensuring seamless integration with existing workflows.

JOB PROGRAMMING & FLEXIBILITY

With advanced job programming options, the Multi Tower offers flexible material handling and scheduling, allowing efficient handling of diverse job types without interruption.

FAST AND SAFE HANDLING

Engineered for speed and safety, the Multi Tower ensures rapid material movement while maintaining strict safety protocols, minimizing risks and maximizing productivity.

RELIABLE CONTROL SENSORS

Equipped with precise control sensors, the Multi Tower guarantees reliable operation, monitoring each step to ensure accurate handling and reduce error risks.

FOCUS

The Task Dynamic warehouse system is a complete, efficient and safe solution for storing and managing metal sheets. Capable of adapting to various production requirements and with a rugged structure, it is an ideal choice for businesses that want to optimise space and improve material flow.

MULTI TOWER

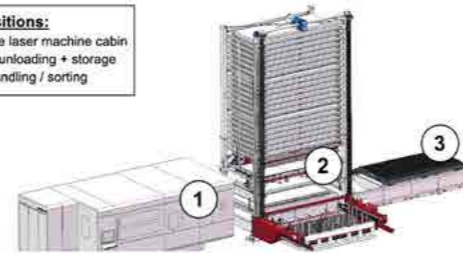
SORTING

LASER AUTOMATION + SORTING MODULE



- »»»»»» INCREASED PRODUCTIVITY
- »»»»»» FLEXIBILITY
- »»»»» REDUCTION OF PRODUCTION COSTS
- »»»»»»»»»»» OPTIMIZATION OF BATCHES
- »»»»» REDUCTION OF RISKS ASSOCIATED WITH
- »»»»» MANUAL HANDLING INJURIES

Pallet positions:
 (1) Inside the laser machine cabin
 (2) Loading/unloading + storage
 (3) Sheet handling / sorting



The Task Division by Schiavi Macchine International offers advanced sorting systems designed to streamline material flow and boost productivity. Our fully automated sorting solutions manage component sorting swiftly and accurately, minimizing errors and ensuring precision throughout the process.

With the laser extension option on the pallet changer, the sorting cell can be installed above the pallet change area in position 3. This setup allows sorting to function in "hidden time," leaving position 2 available for uninterrupted loading and unloading of the laser machine. Sorting occurs in the final phase, where processed parts are separated and sorted via pick-

and-place and palletizing functions. Each cut piece is carefully placed onto pallets or containers based on the client's specifications. Scrap material is returned to position 2 and unloaded into the waste drawer, which, once full, is transferred to the I/O station for manual emptying, ensuring smooth disposal.

Our sorting systems are designed for compact, space-optimized integration into existing production lines, providing flexibility and customization to suit different industries. Equipped with real-time control technology, these solutions maintain a high level of safety and efficiency, ideal for handling complex sorting tasks in demanding production environment

FULLY AUTOMATIC PROCESS

The Sorting system is fully automated, handling every step from sorting to placement, freeing up valuable labor resources and ensuring a consistent, error-free process.

FLEXIBILITY

Designed for adaptability, the Sorting system accommodates various product types and batch sizes, offering unmatched flexibility to meet changing production needs.

REDUCED PRODUCTION COSTS

By automating sorting and handling, the Sorting system significantly cuts production costs, minimizing waste and maximizing operational efficiency.

INCREASED PRODUCTIVITY

With high-speed automation, the Sorting system boosts productivity, enabling faster cycle times and higher throughput to meet demanding schedules with ease.

BATCH OPTIMIZATION

The Sorting system optimizes batch management, ensuring precise handling and organization, which improves production flow and reduces time spent on manual adjustments.

REDUCED RISKS IN MANUAL HANDLING

By minimizing manual interaction, the Sorting system lowers risks associated with repetitive or heavy manual handling, creating a safer work environment for operators.

FOCUS

The Task Dynamic warehouse system is a complete, efficient and safe solution for storing and managing metal sheets. Capable of adapting to various production requirements and with a rugged structure, it is an ideal choice for businesses that want to optimise space and improve material flow.

SORTING

THREE-POSITION PALLET CHANGER

The three-position pallet changer minimises downtime and optimises productivity by performing sheet loading/unloading operations in the background.

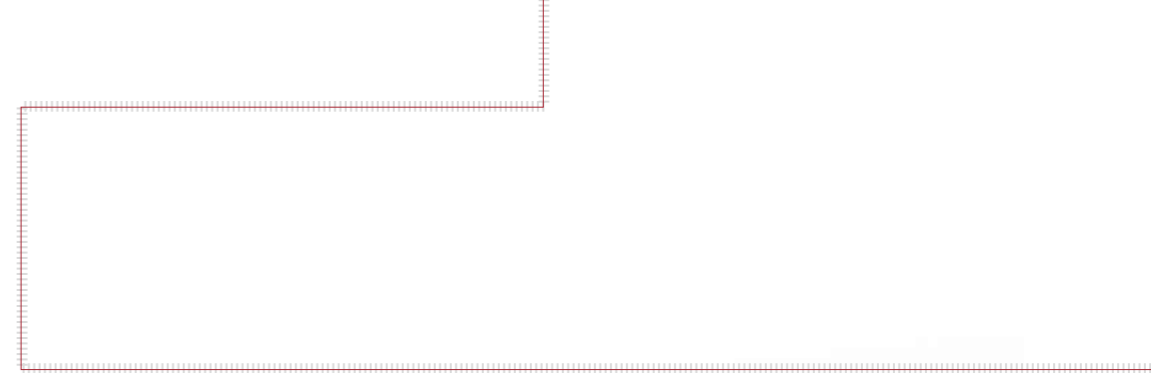
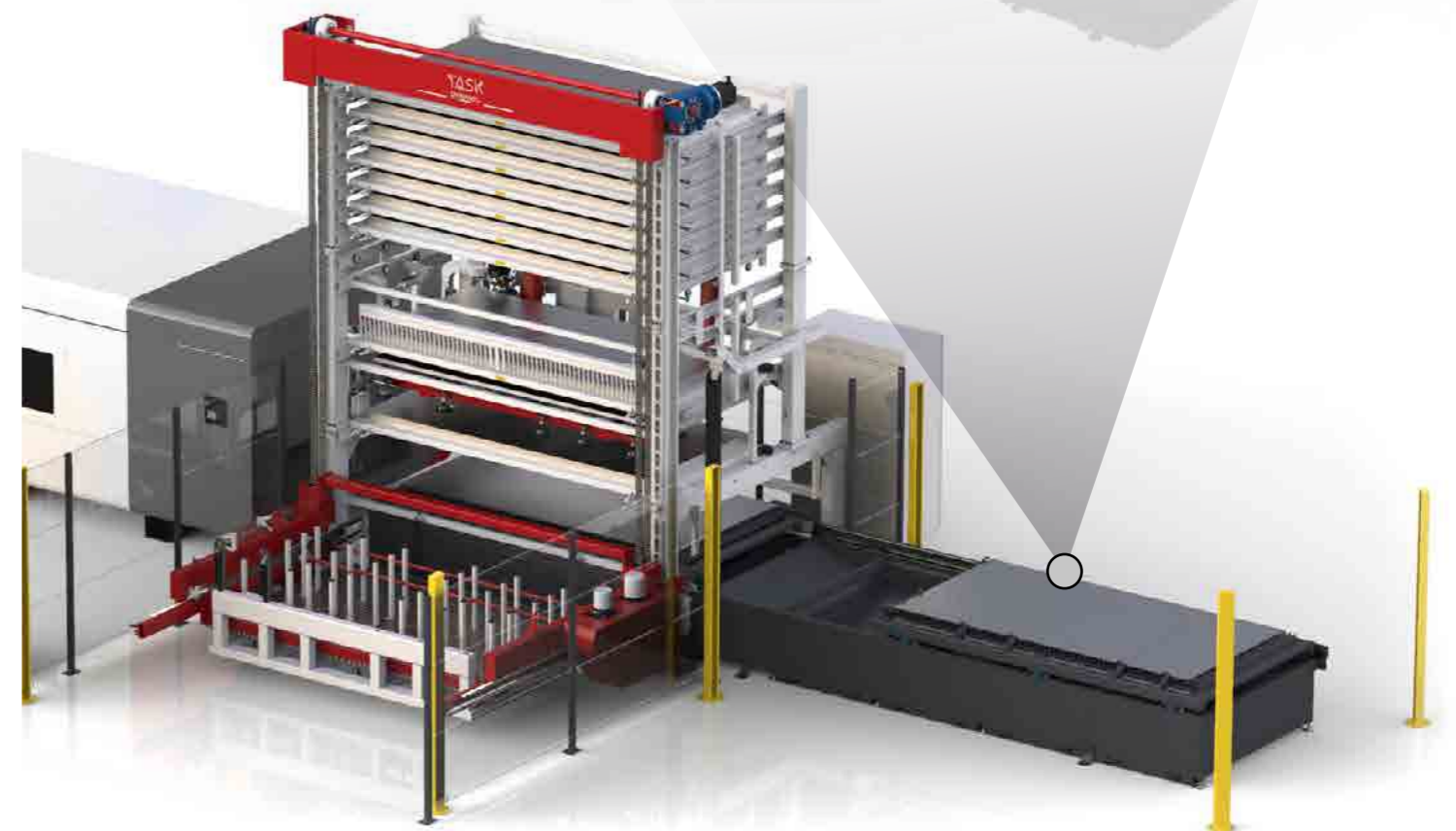
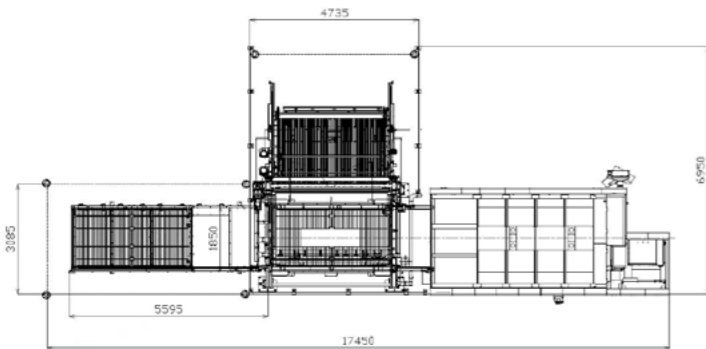
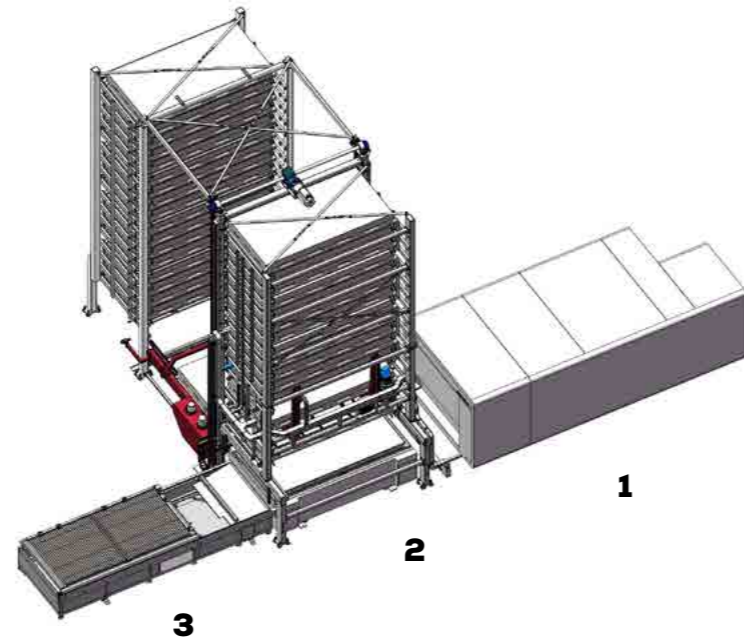
The system allows the sheet with the cut parts to be moved to a third station, where a single sheet can be unloaded, or where a sorting operation can take place, freeing the other loading steps of the laser.

THREE POSITIONS:

Laser (1)

Loading/unloading + warehouse (2)

Sheet handling/sorting (3)



SOFTWARE

ORIONIX

THE COMPLETE SOLUTION FOR LASER MANAGEMENT, AUTOMATION AND SORTING

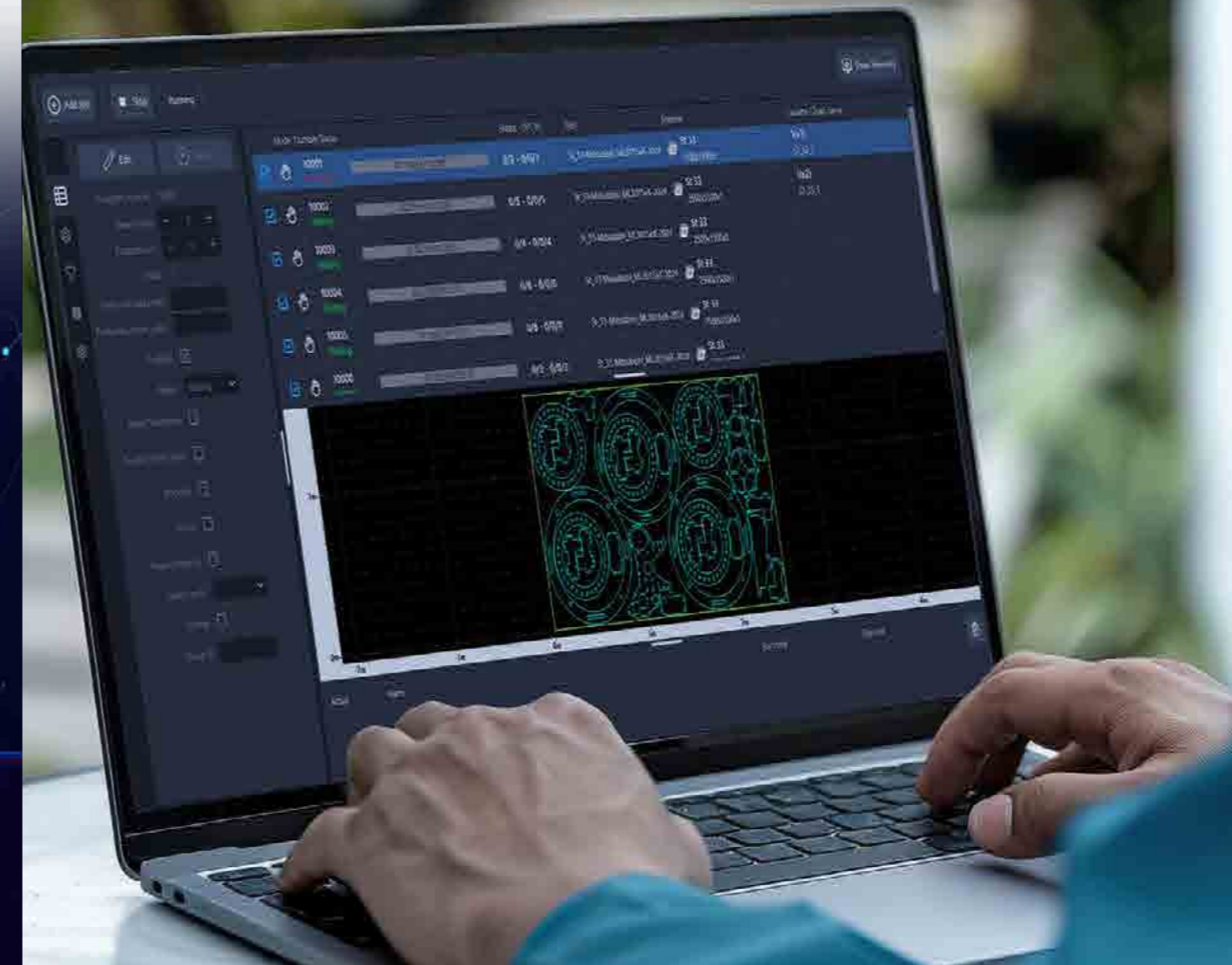
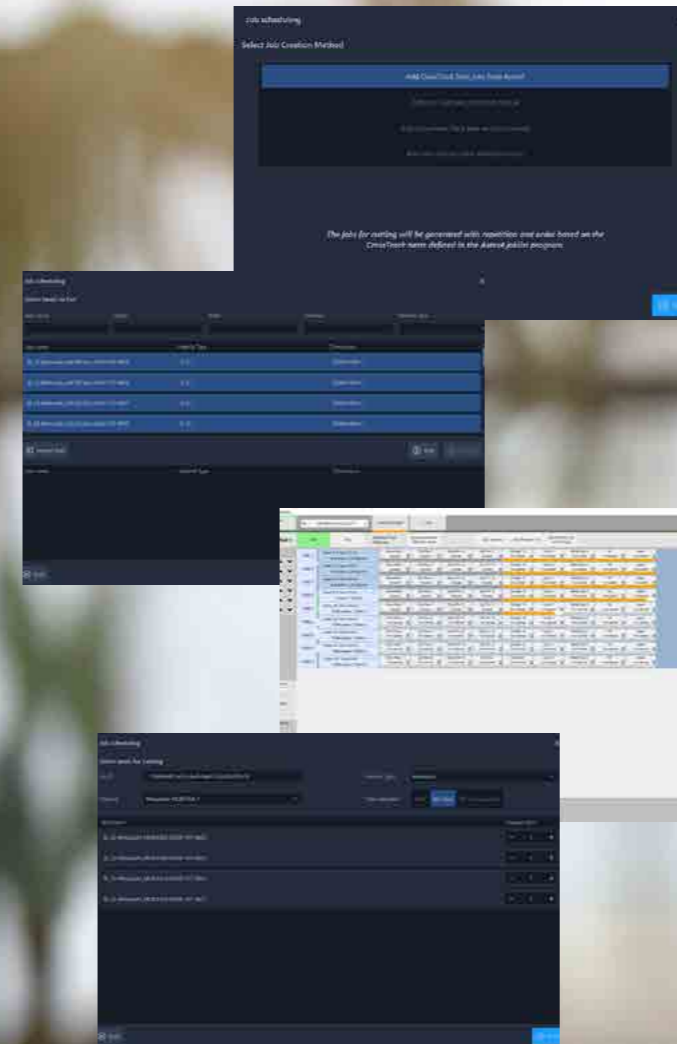
The **Orionix Module** is the heart of the **CrossTrack Suite**, an innovative platform designed to manage and optimise the complete production process from the single sheet to the finished – and cut – part. This software offers seamless integration between laser, automation and sorting systems for a streamline, coordinated workflow.

With **CLAM** (CrossTrack Laser Automation Module), the work cells are controlled efficiently and smoothly with smart management of connections:

- Connections between laser machines for automated operation with the sorting system and automatic warehouse;
- Direct connections between the laser machines and the automatic warehouse.

Orionix ensures full traceability of each operation by storing all the information on stored sheets and cut parts in a database. The software can also exchange data with ERP systems and other corporate software systems via WebServices for full integration within the company's digital infrastructure.

Choosing **Orionix** means achieving centralised and automated control of all production steps, improving operational efficiency and reducing error margins, with complete and constant traceability between raw material and finished products.



OPTIONS

SHEET LOADING

WITH SELECTABLE SUCTION CUPS

This option improves operational flexibility, allowing sheets of different sizes to be handled on the same pallet and loaded sequentially according to the schedule. The automatic activation of the appropriate suction cups for each size makes the process precise and efficient.

Each suction cup, equipped with a pneumatic cylinder, can be selected or excluded according to the required configuration. The entire process is optimised by activating only the suction cups required for the current size. This function is available on request so that the system to be adapted to specific production requirements.

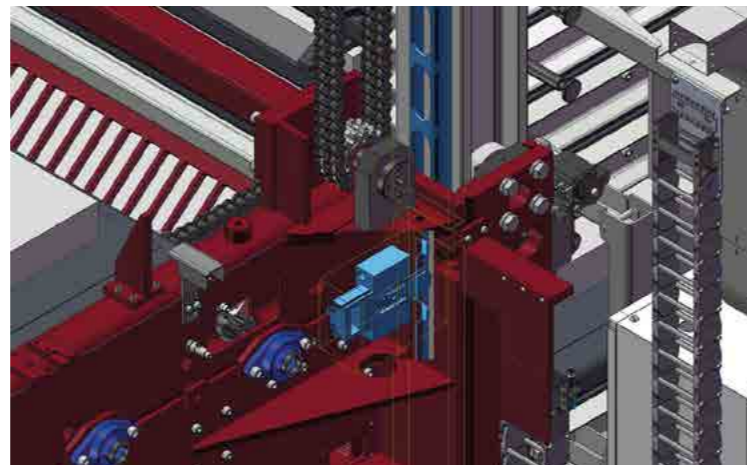


FALL ARRESTER DEVICE

This ensures that the elevator is immobilised in case of accidental failure of the lifting system (chains, shafts, gearbox).

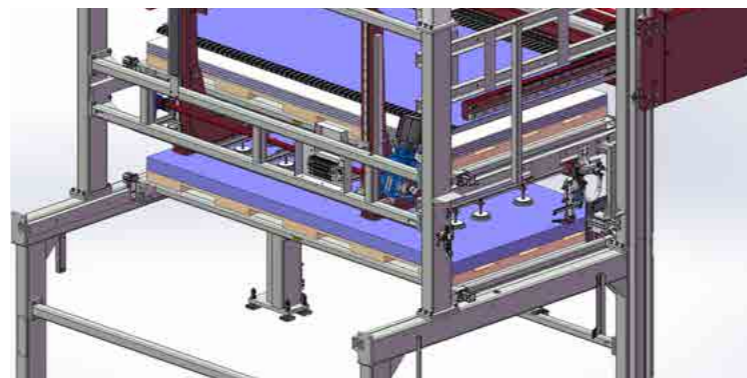
It consists of a piston that snaps into slots in the structure whenever the system switches into emergency mode. The device is present on both arms of the elevator.

The system is normally spring-loaded so it is active even in the absence of voltage.



INTERLEAF

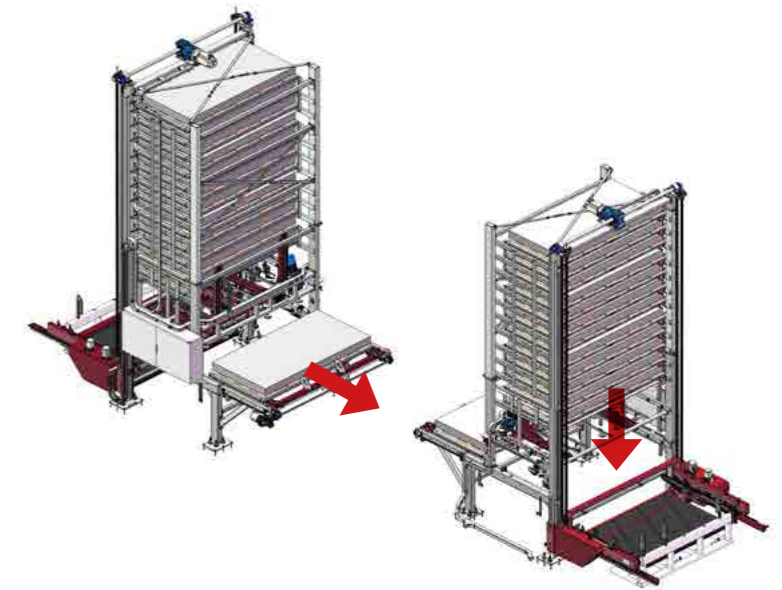
For placing protective plastic or paper sheets between the processed sheets.



FAST OPTION

The configuration (supplied as an option) allows blanks to be loaded onto the pallet changer in a shorter cycle. The blank pallet can move out of the way after the sheet has been picked so the suction cups can descend directly onto the laser table.

The option consists of an additional structure at the back of the warehouse onto which the unfinished sheet loading pallet is taken. This system allows a significant reduction in cycle times for blank/processed sheet changeovers.



NON-SLIP FORK GRIPPER

The comb gripper for unloading machined sheets consists of a series of galvanised steel teeth on which the sheet is slid during unloading into the bay.

A special unloading fork with chains can be provided for situations in which non-slip unloading is needed to avoid creep marks (for instance, on stainless steel or aluminium). This particular type of comb fork has tines provided with a non-slip system consisting of a chain belt on each tine for accompanying the sheet as it is released.



EXTRASIZE MANAGEMENT

Extrasize management (standard)

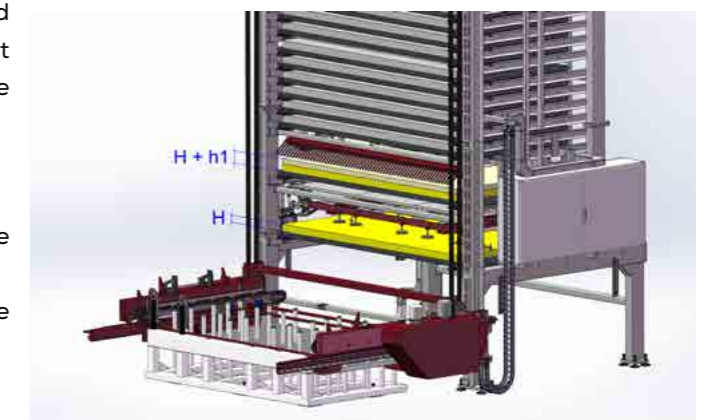
As a standard feature, the automation features include the possibility of stacking sheets in the unloading bay with a height greater than that allowed in the locations. In this case, the workpieces are unloaded onto the bay pallet, which can continue even if the stacking height is exceeded (e.g. due to slightly deformed sheets or scraps between the sheets). Once all the sheets in the unfinished material bay have been processed, the processed sheet pallet with the extrasize pack will then be delivered to the operator's bench station for manual unloading.

Extrasize management with increased location. (optional)

Optionally, pallets with extrasize packs can also be handled in the warehouse. In this case, the pallet can return to the last upper storage

location, which is designed for extra height. This means that the work cycle is not interrupted even once all the sheets in the loading bay have been processed because the extrasize pallet can be delivered to the tower and the drawer picking can continue.

The system allows the handling of a single pallet in extrasize conditions.



SERVICE

SERVICE: FAST AND EFFECTIVE INTERVENTIONS

In the industrial automation world, Task Dynamic is known for its rapid and effective technical service. We know how important it is for our customers to minimise downtime and this is why we offer a speedy service.

PRE-SALES AND AFTER-SALES TECHNICAL ASSISTANCE

We offer a comprehensive service that goes beyond plant installation. Our support starts already in the pre-sales phase, with expert advice to define the best solutions, and continues after installation with constant maintenance and targeted interventions to make sure that systems are always working to their full capacity.

REMOTE MONITORING AND DIAGNOSTICS

We use the latest remote monitoring and diagnostics technologies to monitor plant operation in real time. In this way, we can identify potential critical issues before they become problems and intervene even faster. In many cases, we can solve matters without even needing an on-site visit.

FOCUS

With Task Dynamic, the advantages of having a reliable partner go beyond the supply of state-of-the-art machinery. We are always at our customers' side, ready to intervene with quick and effective solutions that minimise downtime and maximise productivity.

PROMPT INTERVENTIONS

Guaranteeing rapid interventions is one of our main strengths. With a dedicated technical team, we can respond promptly to our customers' requests, providing immediate assistance and minimising downtime. For scheduled maintenance or emergencies alike, our team is always ready to react in record time.

SPECIALISED, TRAINED TECHNICIANS

Our team of highly qualified technicians are trained in the latest technologies. They can intervene quickly, as well as very accurately and effectively, solving problems at the root and preventing future issues. Their experience and expertise mean that definite solutions will be found for the problem during the intervention.

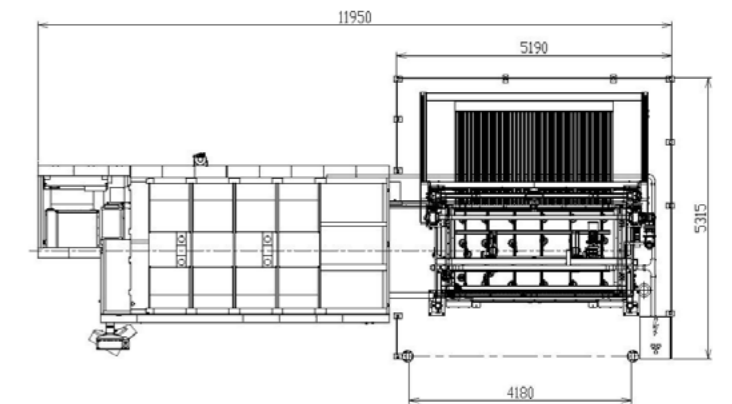
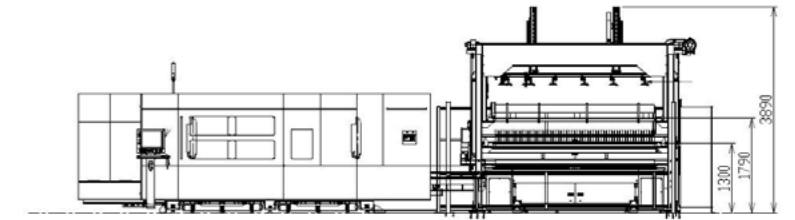
READILY AVAILABLE SPARE PARTS WAREHOUSE

We have an extensive, always well-stocked spare parts warehouse to keep downtime to a minimum. This allows us to ship the necessary components immediately and to carry out repairs with maximum speed. We combine rapid intervention and immediately available spare parts to make sure that we keep our customers' production cycle running.

COMPACT SERVER 3015

LASER AUTOMATION | 2D LASER LOADING/UNLOADING

The Compact server is a system for loading and unloading metal sheets, of up to 3x1.5 metres in size, from the pallet changer tables of 2D laser machines. It is a simple, compact, space-saving system that can be installed quickly.

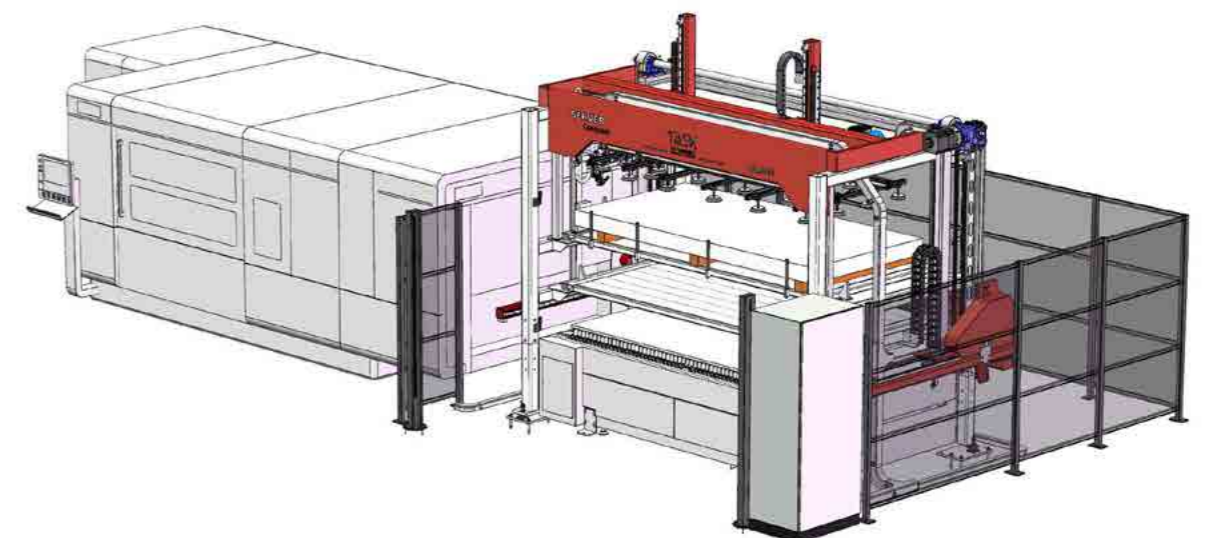


FUNCTIONS TABLE

| | | |
|------------------------------|------------|--------|
| Blanks level | h = 150 mm | 3 tons |
| Processed sheets level | h = 200 mm | 3 tons |
| Loading/unloading cycle time | 130 s | |

SPECIFICATIONS

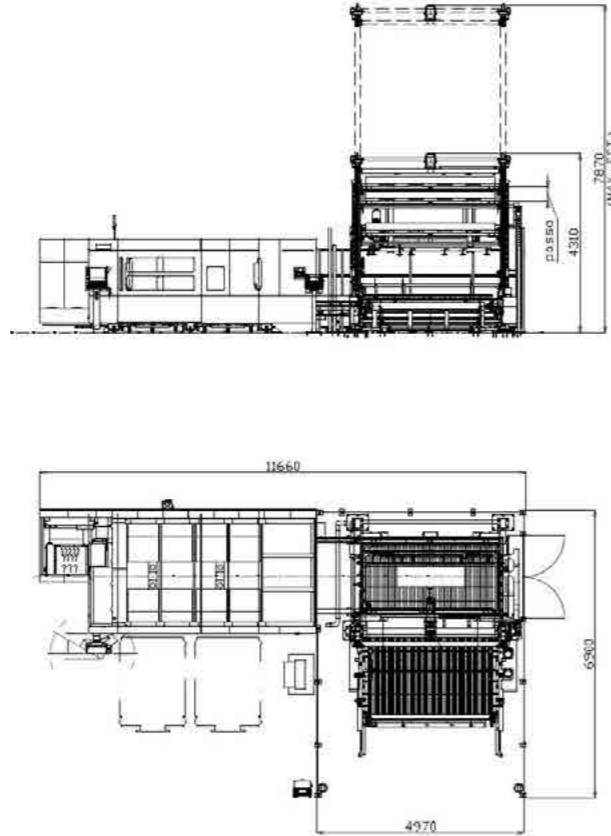
| | |
|--------------------------------|--|
| Sheet sizes | Max. 1524x3048 - Min. 1000x2000 |
| Sheet metal thickness | Min. 0.5 mm - Max. 20 mm |
| Z-axis stroke | 1200 mm |
| Double sheet loading check | Magnetic leafing system + suction cup, thickness gauge |
| Number of loading suction cups | 20 - Ø150mm |



COMPACT TOWER 3015 - BASIC

LASER AUTOMATION | LOADING-UNLOADING + WAREHOUSE

Space-saving loading/unloading automation for 2D laser cutting machine, with sheet warehouse. The storage tower is arranged over the laser machine pallet changer for a smaller footprint.

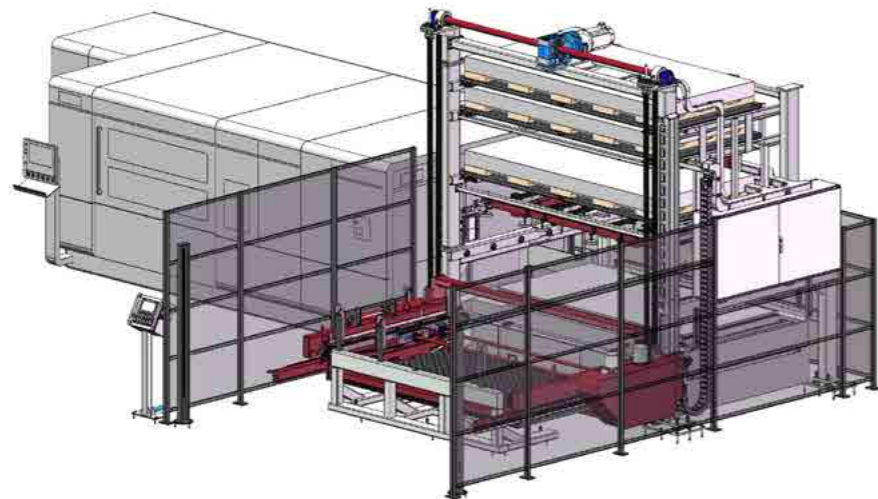


HEIGHT TABLE

| | | |
|---------------------------|-----------|-------------|
| Pitch 175 - pack h 85 mm | 3 pallets | h = 3610 mm |
| Pitch 280 - pack h 180 mm | 3 pallets | h = 4030 mm |
| Pitch 350 - pack h 250 mm | 3 pallets | h = 4310 mm |

SPECIFICATIONS

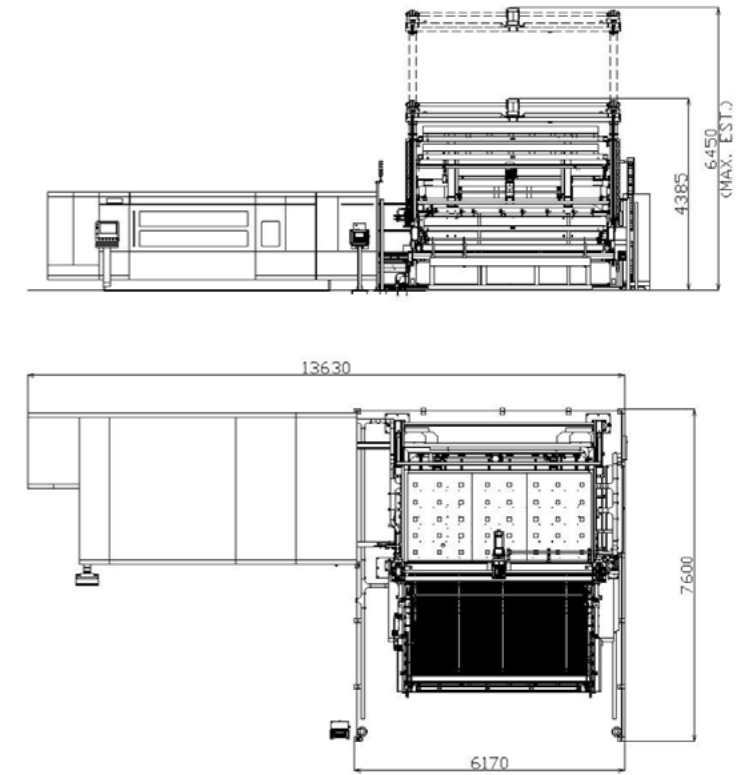
| | |
|--------------------------------|---|
| Sheet sizes | Max. 1524x3048 - Min. 1000x2000 |
| Sheet metal thickness | Min. 0.5 mm - Max. 25 mm |
| Max. pack weight | 3 tons |
| Loading/unloading cycle time | 75s (fast option) - 140s (thickness >10mm) - 180s |
| Number of loading suction cups | 20 - Ø150mm |



COMPACT TOWER 4020 - BASIC

LASER AUTOMATION | LOADING-UNLOADING + WAREHOUSE

Space-saving loading/unloading automation for 2D laser cutting machine, with sheet warehouse. The storage tower is arranged over the laser machine pallet changer for a smaller footprint.

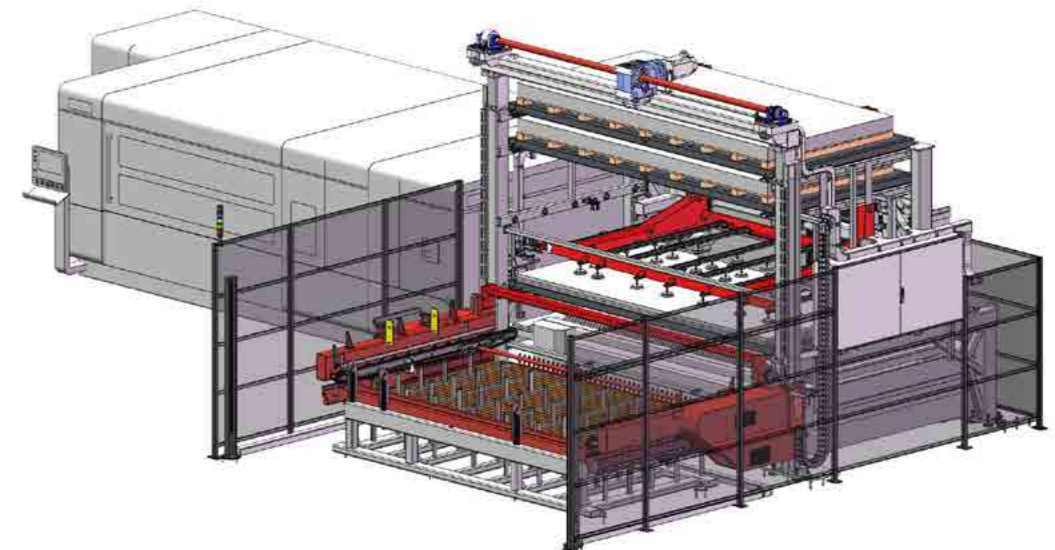


HEIGHT TABLE

| | | |
|---------------------------|-----------|-------------|
| Pitch 205 - pack h 65 mm | 3 pallets | h = 3940 mm |
| Pitch 340 - pack h 180 mm | 3 pallets | h = 4355 mm |
| Pitch 410 - pack h 250 mm | 3 pallets | h = 4595 mm |

SPECIFICATIONS

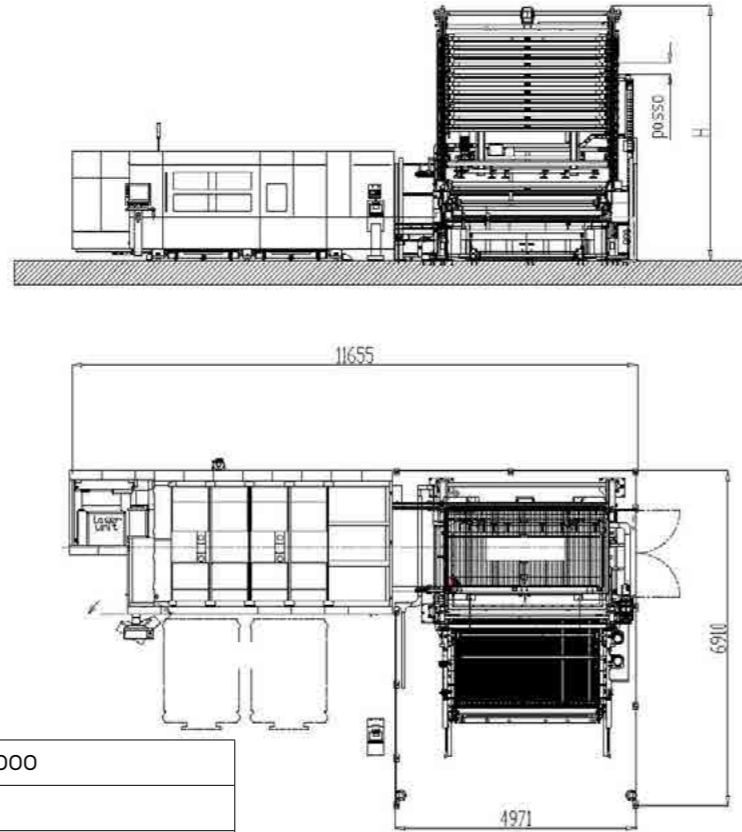
| | |
|--------------------------------|---|
| Sheet sizes | Max. 2000x4000 - Min. 1000x2000 |
| Sheet metal thickness | Min. 0.5 mm - Max. 25 mm |
| Max. pack weight | 4 tons |
| Loading/unloading cycle time | 75s (fast option) - 140s (thickness >10mm) - 180s |
| Number of loading suction cups | 40 - Ø150mm |



COMPACT TOWER 3015

LASER AUTOMATION | LOADING-UNLOADING + WAREHOUSE

Space-saving loading/unloading automation for 2D laser cutting machine, with sheet warehouse. The storage tower is arranged over the laser machine pallet changer for a smaller footprint.

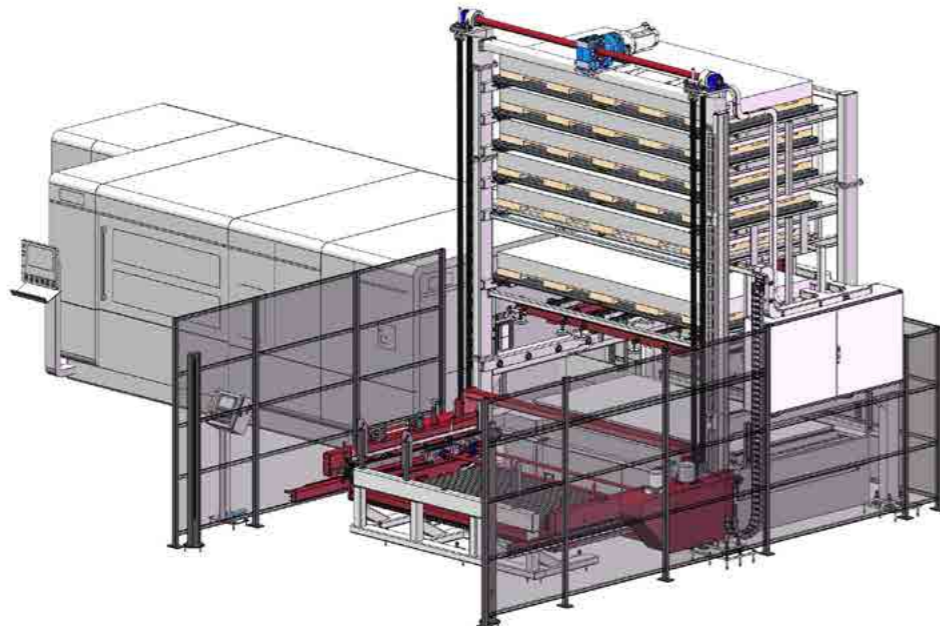


SPECIFICATIONS

| | |
|--------------------------------|--|
| Sheet sizes | Max. 1524x3048 - Min. 1000x2000 |
| Sheet metal thickness | Min. 0.5 mm - Max. 25 mm |
| Max. pack weight | 3 tons |
| Loading/unloading cycle time | 180s - 140s (fast cycle thickness <10mm) - 75s (fast option) |
| Number of loading suction cups | 20 - Ø150mm |

HEIGHT TABLE

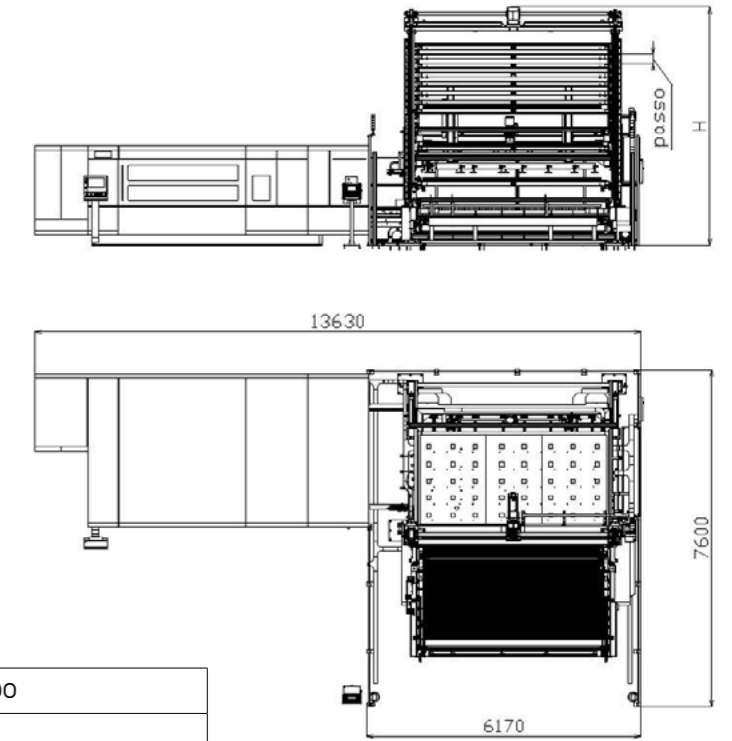
| | | |
|---------------------------|----------------------------------|---|
| Pitch 175 - pack h 85 mm | pallets without wooden platforms | h min= 3610 (3 pt) - h max=7560 (25 pt) |
| Pitch 280 - pack h 180 mm | pallets with wooden platforms | h min= 4030 (3 pt) - h max=7770 (16 pt) |
| Pitch 350 - pack h 250 mm | pallets with wooden platforms | h min= 4310 (3 pt) - h max=7810 (13 pt) |



COMPACT TOWER 4020

LASER AUTOMATION | LOADING-UNLOADING + WAREHOUSE

Space-saving loading/unloading automation for 2D laser cutting machine, with sheet warehouse. The storage tower is arranged over the laser machine pallet changer for a smaller footprint.

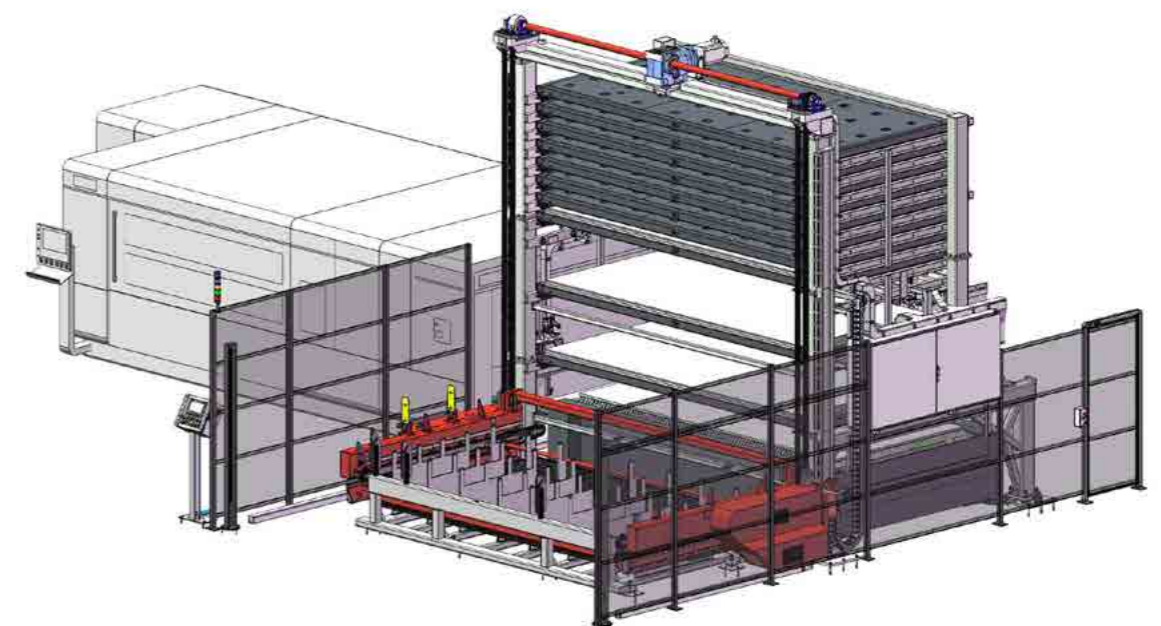


SPECIFICATIONS

| | |
|--------------------------------|---|
| Sheet sizes | Max. 2000x4000 - Min. 1000x2000 |
| Sheet metal thickness | Min. 0.5 mm - Max. 25 mm |
| Max. pack weight | 4 tons |
| Loading/unloading cycle time | 75s (fast option) - 140s (thickness >10mm) - 180s |
| Number of loading suction cups | 40 - Ø150mm |

HEIGHT TABLE

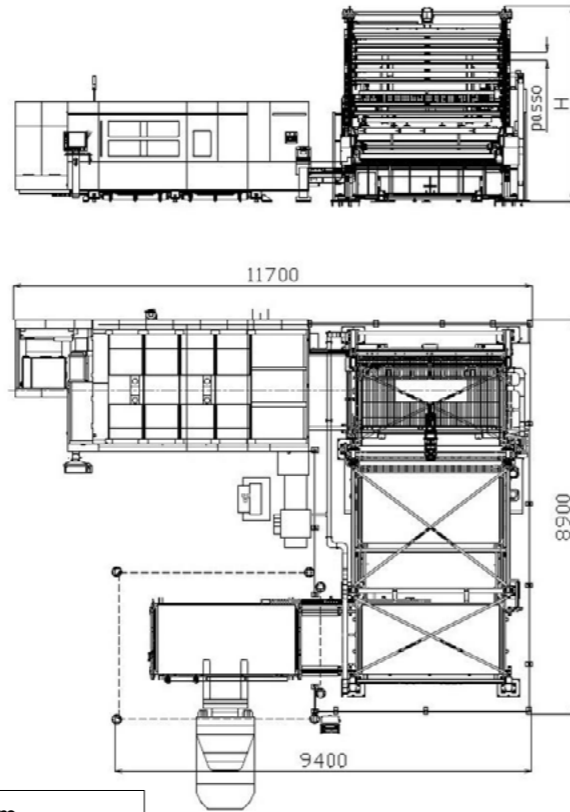
| | | |
|---------------------------|----------------------------------|---|
| Pitch 175 - pack h 85 mm | pallets without wooden platforms | h min= 3940 (3 pt) - h max=6450 (15 pt) |
| Pitch 280 - pack h 180 mm | pallets with wooden platforms | h min= 4355 (3 pt) - h max=7715 (13 pt) |
| Pitch 350 - pack h 250 mm | pallets with wooden platforms | h min= 4595 (3 pt) - h max=7525 (10 pt) |



COMPACT TOWER 3015 DOUBLE TOWER SIDE

LASER AUTOMATION | LOADING-UNLOADING + WAREHOUSE

Space-saving loading/unloading automation for 2D laser cutting machine, with sheet warehouse. The first storage tower is arranged over the laser machine pallet changer for a smaller footprint.

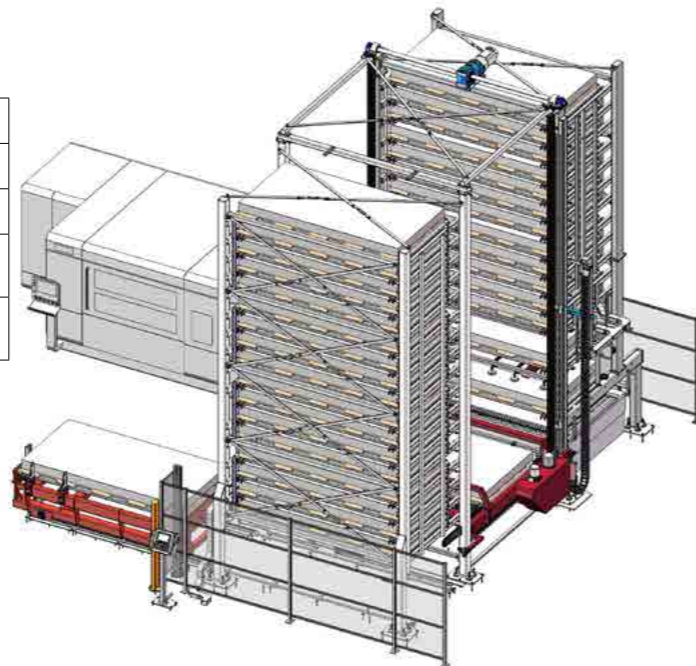


HEIGHT TABLE

| | | |
|---|-------------------|-------------------------|
| Pitch 190 - pack h 85 mm | 5 +10 pallets | h = 4030 mm |
| Pitch 190 - pack h 85 mm - height calculation | n1 + n2 pallets * | h = 4030 + (N x 190) ** |
| Pitch 280 - pack h 180 mm | 5 +10 pallets | h = 4530 mm |
| Pitch 280 - pack h 180 mm - height calculation | n1 + n2 pallets * | h = 4530 + (N x 280) ** |
| Pitch 350 - pack h 250 mm | 5 +10 pallets | h = 4950 mm |
| Pitch 350 - pack h 250 mm - height calculation | n1 + n2 pallets * | h = 4950 + (N x 350) ** |
| * n1 = main pallet tower number n2 = secondary pallet tower number (= n1+5) N = number of pallets over 5 (main tower) ** max. h = 7870 mm - every 5 pallets add 50 mm per additional brace | | |

SPECIFICATIONS

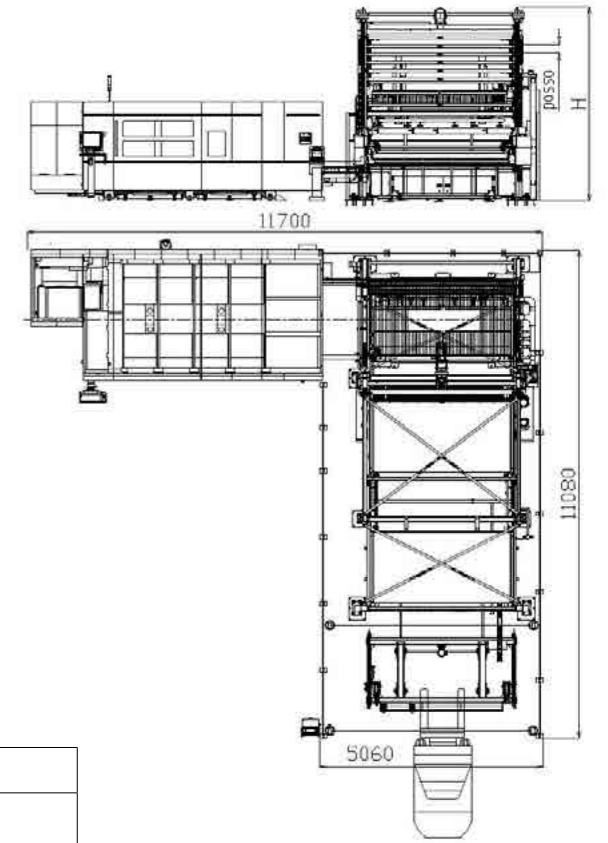
| | |
|--------------------------------|---|
| Sheet sizes | Max. 1524x3048 - Min. 1000x2000 |
| Sheet metal thickness | Min. 0.5 mm - Max. 25 mm |
| Max. pack weight | 3 tons |
| Loading/unloading cycle time | 75s (fast option) - 140s (thickness >10mm) - 180s |
| Number of loading suction cups | 20 - Ø150mm |



COMPACT TOWER 3015 DOUBLE TOWER FRONT

LASER AUTOMATION | LOADING-UNLOADING + WAREHOUSE

Space-saving loading/unloading automation for 2D laser cutting machine, with sheet warehouse. The first storage tower is arranged over the laser machine pallet changer for a smaller footprint.

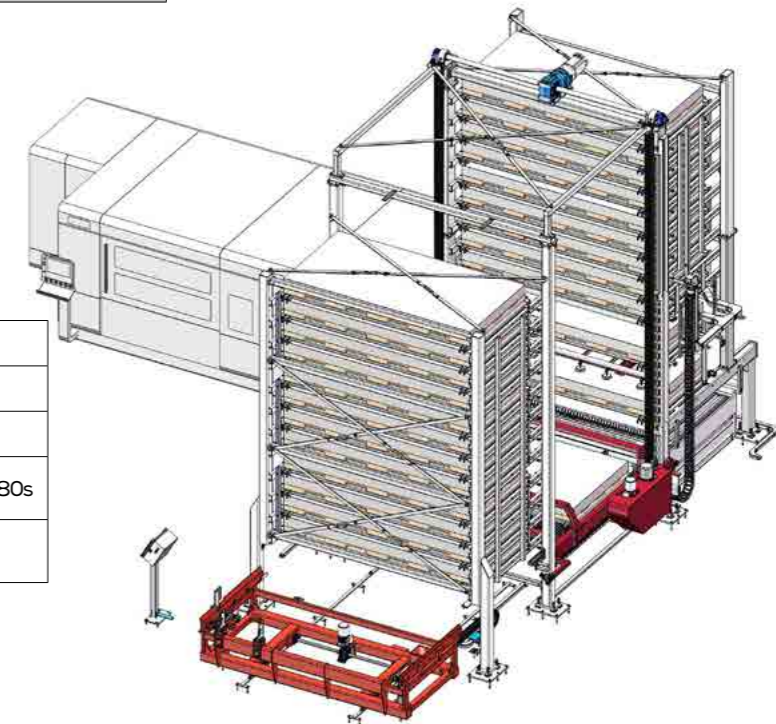


HEIGHT TABLE

| | | |
|--|-------------------|-------------------------|
| Pitch 190 - pack h 85 mm | 5 +10 pallets | h = 4030 mm |
| Pitch 190 - pack h 85 mm - height calculation | n1 + n2 pallets * | h = 4030 + (N x 190) ** |
| Pitch 280 - pack h 180 mm | 5 +10 pallets | h = 4530 mm |
| Pitch 280 - pack h 180 mm - height calculation | n1 + n2 pallets * | h = 4530 + (N x 280) ** |
| Pitch 350 - pack h 250 mm | 5 +10 pallets | h = 4950 mm |
| Pitch 350 - pack h 250 mm - height calculation | n1 + n2 pallets * | h = 4950 + (N x 350) ** |
| * n1 = main pallet tower number n2 = secondary pallet tower number (= n1+5) N = number of pallets over 5 (main tower) ** max. h = 7870 mm - every 5 pallets add 50 mm per additional brace | | |

SPECIFICATIONS

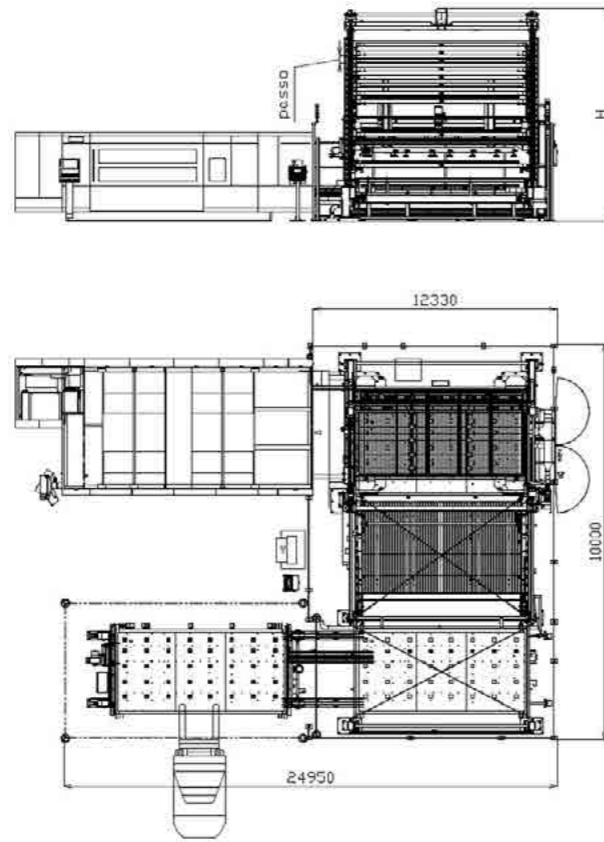
| | |
|--------------------------------|---|
| Sheet sizes | Max. 1524x3048 - Min. 1000x2000 |
| Sheet metal thickness | Min. 0.5 mm - Max. 25 mm |
| Max. pack weight | 3 tons |
| Loading/unloading cycle time | 75s (fast option) - 140s (thickness >10mm) - 180s |
| Number of loading suction cups | 20 - Ø150mm |



COMPACT TOWER 4020 DOUBLE TOWER

LASER AUTOMATION | LOADING-UNLOADING + WAREHOUSE

The first storage tower is arranged over the laser machine pallet changer for a smaller footprint.

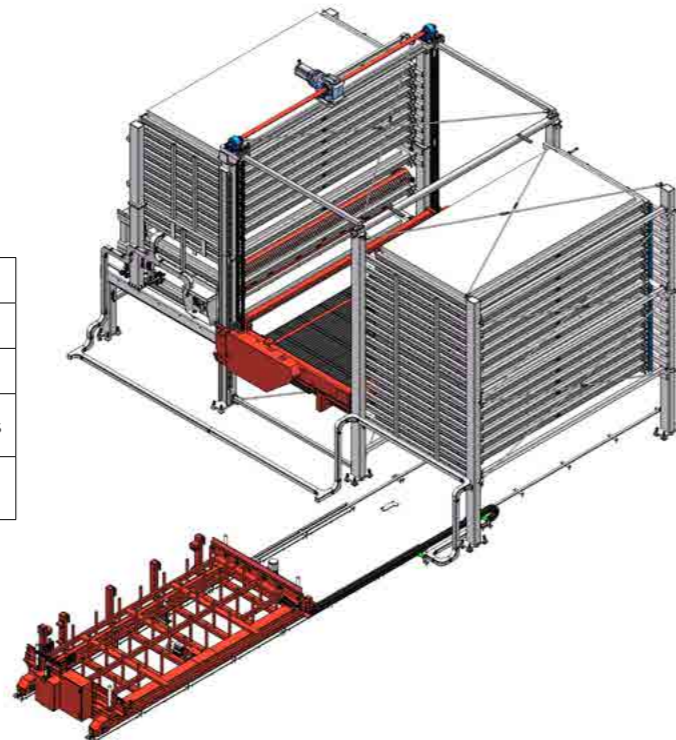


HEIGHT TABLE

| | | |
|---------------------------|----------------------------------|---|
| Pitch 175 - pack h 85 mm | pallets without wooden platforms | h min= 4030 (5+10 pt) - h max=7930 (25+30 pt) |
| Pitch 280 - pack h 180 mm | pallets with wooden platforms | h min= 4530 (5+10 pt) - h max=7990 (17+21 pt) |
| Pitch 350 - pack h 250 mm | pallets with wooden platforms | h min= 4950 (5+10 pt) - h max=7850 (13+17 pt) |

SPECIFICATIONS

| | |
|--------------------------------|---|
| Sheet sizes | Max. 2000x4000 - Min. 1000x2000 |
| Sheet metal thickness | Min. 0.5 mm - Max. 25 mm |
| Max. pack weight | 4 tons |
| Loading/unloading cycle time | 75s (fast option) - 140s (thickness >10mm) - 180s |
| Number of loading suction cups | 40 - Ø150mm |



MULTI TOWER

LASER AUTOMATION | LOADING-UNLOADING + WAREHOUSE

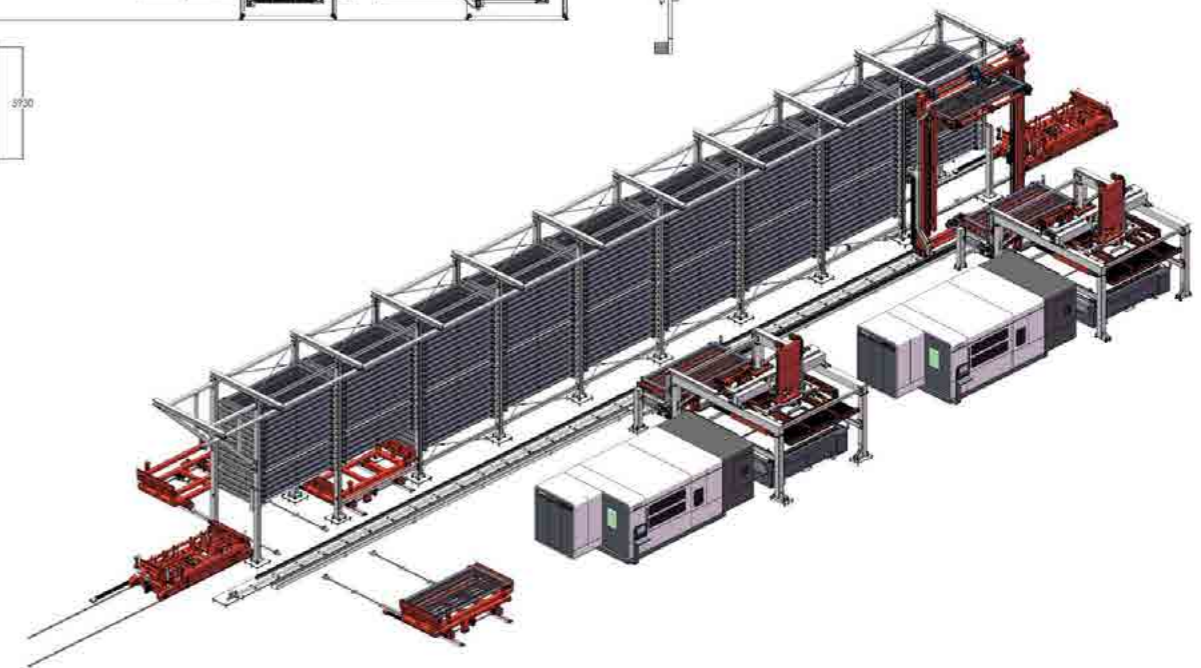
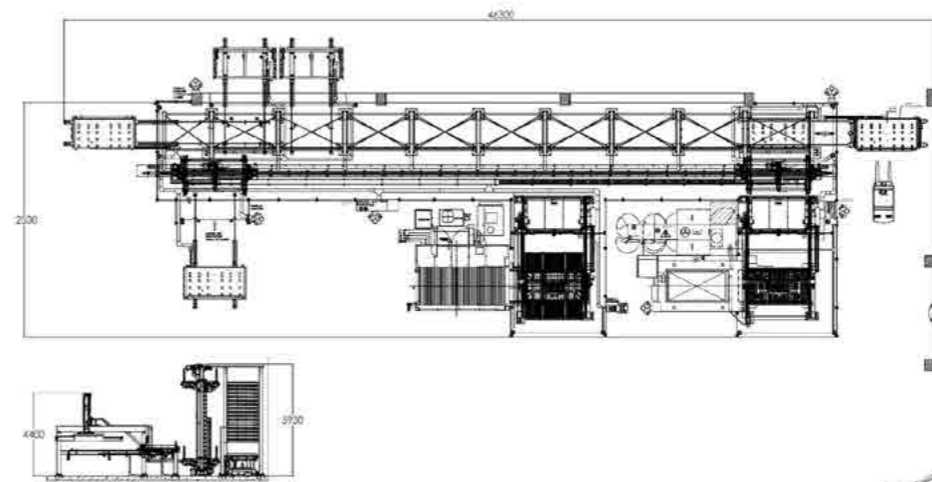
Automation plant with automated multi-tower warehouse and a front automated storage and retrieval system serving two laser machines, dedicated loading/unloading + input/output shuttles.

COMPOSITION

- 2 laser loaders - Cartesian robot with comb gripper + loading shuttle with suction cups
- 9 warehouse towers (total of 170 locations) - automated storage and retrieval system with weighing system
- 5 material input/output shuttles
- 1 control unit with 4 operator panels (HMI)

SPECIFICATIONS

| | |
|--|-----------------------------------|
| Sheet sizes | Max. 1524x3048 - Min. 1000x2000 |
| Sheet metal thickness | Min. 0.5 mm - Max. 25 mm |
| Max. pack weight | 3 tons |
| Automated storage and retrieval system speed | X-axis 36 m/min - Y-axis 12 m/min |
| Loader speed | X-axis 20 m/min |
| Number of loading suction cups | 20 - Ø150mm |
| Unloader speed | Z-axis 10 m/min |



TASK

SCHIAVI MACCHINE INTERNATIONAL SRL

Via San Pietro, 16 | 24050 Ghisalba (BG) | ITALY

email: info@taskdynamic.com
ph: +39 035 4242446

www.schiavimacchine.it