



E C O P L U S X F

MAXIMUM MODULARITY
RIGHT FROM THE START



ECO PLUS XF – THE TOWER STORAGE SYSTEM IN MODULAR FORM

Flexible, fast and geared to growth.

Getting started in automated storage has now been made even easier with an exciting variant. That's because the new STOPA TOWER ECO Plus allows customers to benefit from high flexibility too: they have the option of expanding it using modules at any time to keep pace with growing needs for storage capacity. To do so, the components for expansion are versatile and intelligently designed, in both hardware and software. For example, a second storage tower, an additional chain conveyor that's simply bolted on, or a transport cart can be installed step by step.

The STOPA TOWER ECO Plus is designed to meet the needs of companies of any size.

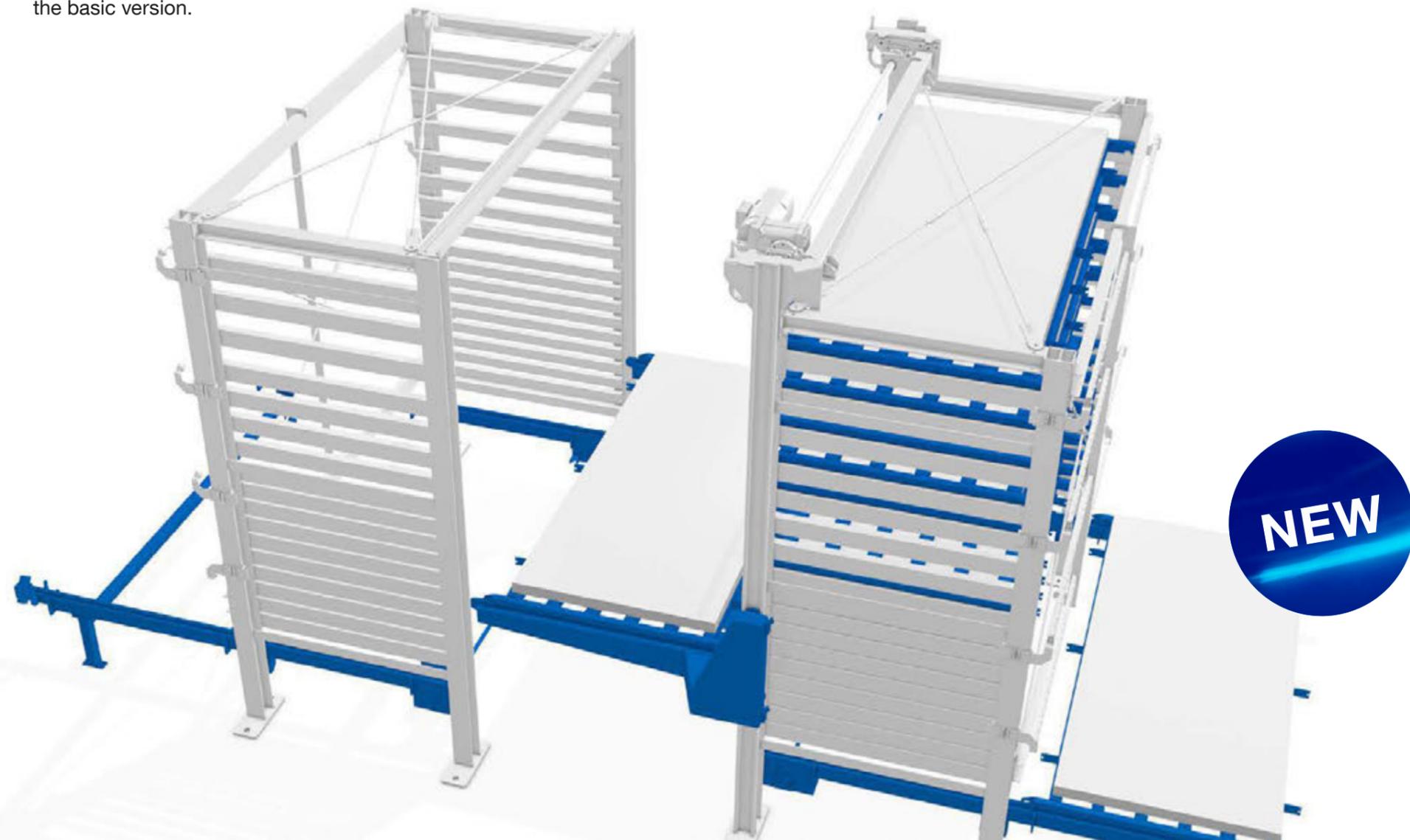
Even the basic version, made up of a storage tower and a lifting beam, is already geared to the future and prepared for the addition of prefabricated mechanical components, for example with holes. Additional sensors can be fastened to the beam using these holes. The sensors check the storage process in the second tower.

The STOPA TOWER ECO Plus scores points with a capacity designed for fast turn-over rates, in other words for growth. It almost matches the capacities of large-scale storage systems.

STOPA has integrated the system control panel compactly into the switch cabinet, meaning that the user doesn't require any additional hardware. Moreover, STOPA has prepared as a standard feature the integration of warehouse management software that communicates with the user's ERP system. Customers who only require a simple stock management system will find it in the basic version.

“The new ECO Plus was a very exciting project right from the start. While using a tried and tested storage principle, we added onto it a completely new technology for this product group. The biggest challenge here was to ensure its modularity without any loss of function in any expansion stage.”

HEIKO EISENMANN, mechanical designer – Innovation



TECHNICAL DETAILS

Format size and perm. load

GF: 3048x1524 mm (10x5') > 1.5t and 3t
 XF: 4064x2032 mm (160x80") > 3t

Loading heights (standard)

50, 60, 90, 130 & 200 mm
 (max. 3 different loading heights)

Shelf divisions

XF = 125 mm + loading height
 GF = 90 mm + loading height

Max. total height

7950 mm (GF & XF)

Standard speeds

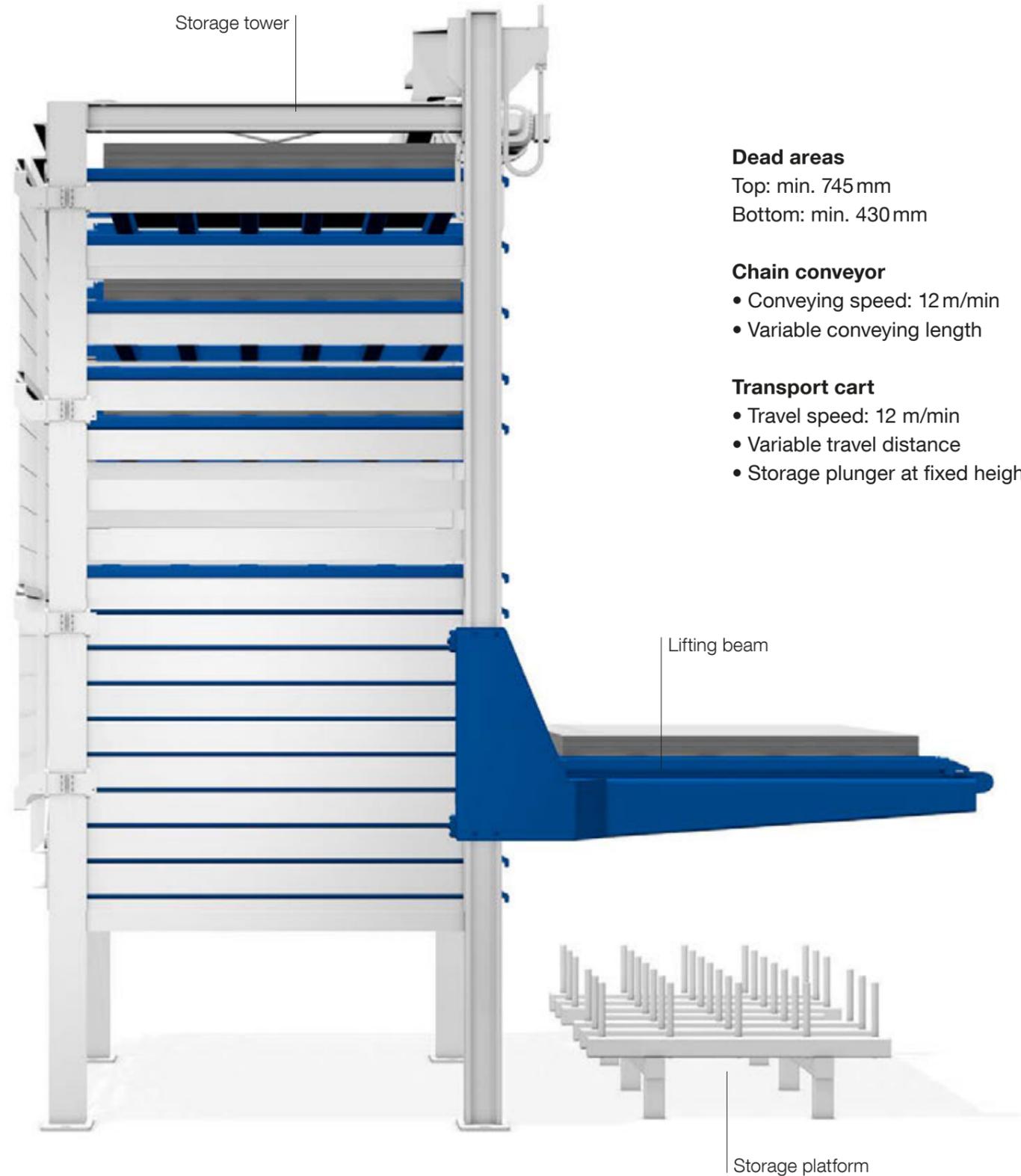
Lifting speed: 16 m/min
 Pulling speed: 12 m/min

Max. number of pallets in single-sided version

XF: max. 39 (with loading height 50 mm)
 GF: max. 49 (with loading height 50 mm)

GF (large format) = 3048x1524 mm

XF (maxi format) = 4064x2032 mm



Dead areas

Top: min. 745 mm
 Bottom: min. 430 mm

Chain conveyor

- Conveying speed: 12 m/min
- Variable conveying length

Transport cart

- Travel speed: 12 m/min
- Variable travel distance
- Storage plunger at fixed height

Fixed storage location

Each pallet has a permanently assigned storage location.

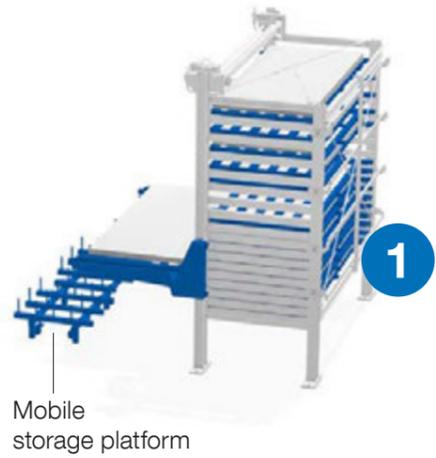
Load-independent height measurement of the lifting beam

In a double-sided storage system, each side has a separate height sensor.

Storage platform

- Fixed or mobile
- Designed for sheet metal formats to min. KF (small)

OVERVIEW: ALL MODULES



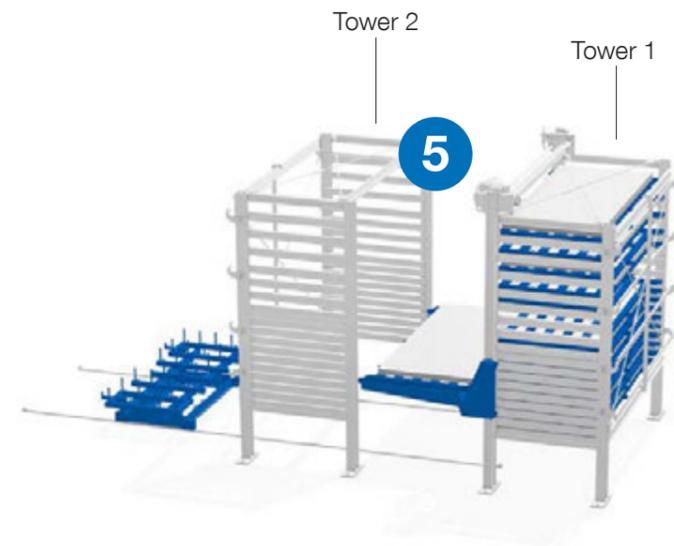
Storage tower, lifting beam and mobile storage platform: To permit access to the lower storage locations too, the mobile storage platform can be moved.

Mobile storage platform



The material is put into storage using a **fixed storage platform** underneath the lifting beam.

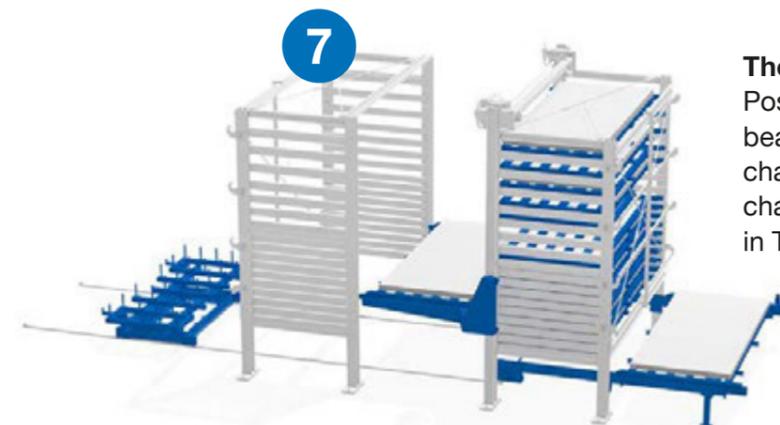
Fixed storage platform



Transport cart in Tower 2. Lifting beam in Tower 1. The rail-bound **transport cart is recommended for incoming goods.**



The inexpensive alternative to a transport cart is the chain conveyor, which achieves a **conveying speed of twelve metres a minute.**



The maximum expansion stage: Possible components: Lifting beam; Storage Towers 1 and 2; chain conveyor in Tower 1; chain conveyor/transport cart in Tower 2.



The **chain conveyor** can be used for loading a machine and at the same time for storage and removal with the lifting beam. In this variant, it is always the fixed storage platform that is used.

Chain conveyor



Expansion with a second storage tower **doubles the storage capacity.**



STOPA – PREMIUM AUTOMATED SHEET METAL STORAGE SYSTEMS

STOPA is a leading manufacturer of automated parking systems and storage systems for sheet material and long-span goods in Europe. The product line ranges from stand-alone applications to integrated automated modules. With 50 years of practical experience, including the installation of complex plants, and more than 2,000 systems installed worldwide, this independent company possesses unique know-how with regard to product quality, process security, process automation, and software development.

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