

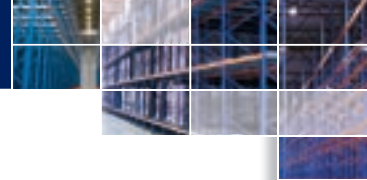
B6. Miniload single-store



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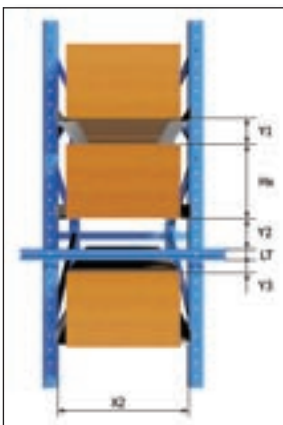
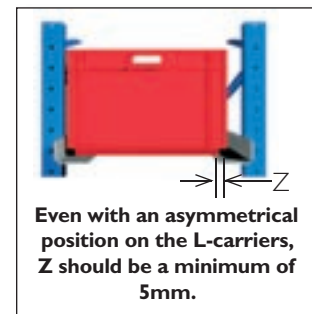
The automated storage and retrieval systems (AS/RS), type Miniload single-store are used for storage of small goods, mostly totes or cartons, with loads varying from 25 to 250 kg/unit.

The goods are handled automatically by unmanned AS/RS-cranes. The cranes, guided at both top and bottom, retrieve the totes from their location and present them at the picking location or deliver them directly onto the picking conveyor.

Stow has built large installations with most system integrators. The system is adaptable to any type of AS/RS- handling device, equipped with telescopic forks, with side grips or with an extracting system.

GOODS

The shape and quality of the plastic bin or carton is very important for a good design of the racking. The width, the depth and the height of the totes determine the dimensions of one level. Different sizes of totes may be combined. The final dimensioning must take into consideration the specific requirements of the AS/RS crane.



SYSTEM CONFIGURATION

The design of the tote, carton or slave tray and the handling device of the AS/RS-crane determine the basic dimensions of the rack location.



The minimum dimensions for Y1, Y2 and Y3 depend on the crane handling device, whether it is equipped with telescopic forks, with side grips or with an extracting system.

The design of the L-carrier depends on the load capacity and eccentricity of the loading.

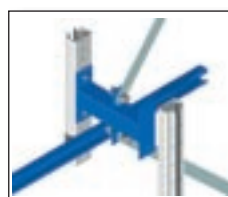
The standard pitch in the height is 12.5 mm.



The run-out design

SUPPLEMENTS

The top guidance is fully supported by the top construction. Bracing in horizontal and vertical planes ensure the required stability and erection tolerances.



Back bracing and plan bracing ensure the required erection tolerances (FEM 9.832).

Other essential components are maintenance platforms, sprinkler supports, safety fences, interlock doors and interfaces with the picking conveyors.

