





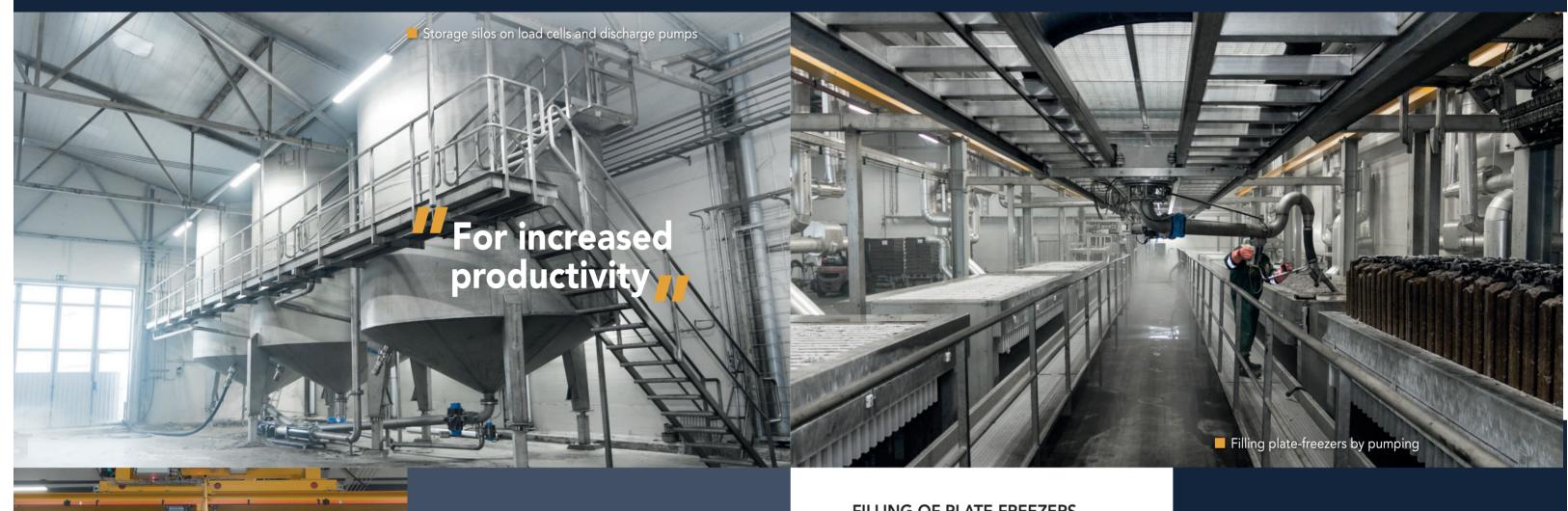
The completed pallets are fed out of the stacking unit when they are ready. Mesmec provides equipment for wrapping, weighing of the ready pallet and printing pallet data labels. The whole process can be automated so that the operator just has to pick up the blocks from the freezer and the crane automatically drives to the stacking table for unloading and then to the next plate freezer. It is also possible to implement communication to the refrigeration control unit for automatic unloading of the next completed plate freezer.

A MANIPULATOR OR A ROBOT CAN BE USED FOR THE STACKING PROCESS SOLUTIONS FOR HANDLING RAW MATERIALS

MESMEC

Oy Mesmec Ab Mottisenkatu 3 67700 KOKKOLA FINLAND Tel. +358 (0)20 7280 680 Fax. +358 (0)6 8326 811 info@mesmec.fi www.mesmec.fi Your local dealer





"The system is built

with as few moving parts as possible."



■ Inhouse 3D layouts

BENEFITS

The requirements for increased productivity and a reduction in the manual handling of frozen blocks have increasing in the modern food industry. Providing an ergonomic and safe working environment is a high priority today. Focus is paid on eliminating heavy work and the risks of work-related accidents involved when unloading and loading vertical plate freezers.

MANAGING PLATE

FREEZING SYSTEMS

The equipment is user-friendly and can be used by just one person. The system is built with as few moving parts as possible to make it a service-friendly system. By stacking the blocks in a crisscross layout, a more stable pallet can be achieved, which is safer to store in freezing rooms and safer to transport. When choosing the fully automatic system or the semi-automatic system, they are supplied with all the necessary equipment for several years of service. The line can also be equipped with optional features, such as metal detection, an X-ray system, full pallet wrapping, weighing, labelling etc.

FILLING OF PLATE-FREEZERS

When filling a plate freezer, it is often important that the raw material is treated safely and gently. Mesmec can offer two systems for filling the plate freezers; a tipping bin or a pumping system. By tipping, a bin is supplied that runs on rails and enables to gently tip the materials in to the plate freezer, without the risk of crushing them. Tipping is suitable, when there are many different raw materials that cannot be mixed or when there are materials that have to be frozen without crushing. The tipping bin is easy to clean and disinfect in order to avoid cross contamination between raw materials. The plate freezers can also be filled by pumping. This technology is recommended to be used when freezing grinded material or small fish. The pump filling syst em runs on rails above the freezers and features a swivel arm that is moved to fill the freezer.

STACKING SYSTEM

Mesmec offers two different types of unloading devices. One with hydraulic compression of the blocks and with paddles in between each block, and the other model has pneumatic compression at the sides of the blocks. All blocks are lifted from the plate freezer at the same time. The unloading devices are mounted on an overhead crane that moves the blocks to the palletising table. The crane can be controlled manually, by radio control or automatically. The palletising unit picks the blocks up from the table one by one and automatically stacks them on a pallet. The blocks can be wrapped individually or a plastic film can be placed between each layer. The unit can also be equipped with a block breaking unit. A pallet dispenser is also available, which feeds the palletising unit with a new pallet in order to achieve continuous production.

TAILOR-MADE SOLUTIONS ARE AVAILABLE UPON REQUEST

