

BLOCK STACKING



FOCUS

In applications where the customer has a low level of load rotation and needs space optimisation, block stacking is the answer. Block stacking does not require any storage equipment, instead loaded pallets are placed directly on the floor and built up to a maximum stable height. Although it can optimize warehouse space up to 90%, this type of storage is only applicable for loads with low handling frequency and/or a uniform load type. Lack of infrastructure also means that pallets need to be placed precisely on top of each other for safety. This makes the manual operations tedious and time consuming.

BALYO robots are able to execute precise and critical block stacking operations with the help of its safety first technology. A camera sensor placed below the forks (and an optional one on the load backrest), first scans and monitors the free space before placing the load.

SOLUTION

3D Camera : For example, an assigned robot equipped with a 3D camera, picking in the mass storage area, will raise its forks just above the drop off height indicated by WMS, and if clear, proceeds to place the load carefully, thus providing secure and fast operations.

Additionally, robots can also distinguish between pallets and transportation goods, control its forks to store and retrieve loads with high precision.

BLOCK STACKING SPECIFICS

90%

Warehouse Optimization

HIGH

Density

HIGH

Homogeneity of Load

LOW

Handling Rotation



WHY BALYO ?

LOCAL AND GLOBAL SUPPORT

BALYO has partnered with different OEMs to produce a world class product. Any truck with Driven by BALYO technology is a fully integrated product in full partnership with the OEM. There are no aftermarket adaptations. What does this mean ? Any robots purchased are fully supported by the OEM dealership network with local tech support and local spare parts

NO INFRASTRUCTURE

Driven by BALYO robots require no additional infrastructure. This means no reflectors, no magnets or wires in the ground. BALYO technology allows the robots to navigate and drive within an existing facility without any other considerations outside of safety.

DUAL MODE

The BALYO robotic solution is a standard truck that has been built to be autonomous. This means that it can be used in manual mode as well as autonomous mode. Any operator (if the client allows for it) can take control of the robotic lift truck for any purpose.

OTHER VERTICAL APPLICATION BOOKLET AVAILABLE



Standard Racking