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How to choose the most efficient equipment for your production facility

The choice of the most efficient equipment for your production facility is based on three parameters: safety, ergonomics and productivity. A suitable tool not only reduces handling time, but also improves operator comfort and seamlessly integrates with the work environment.

Customised design: what you need to know

Each production facility has specific requirements and the tailor-made approach ensures the equipment is perfectly suited to its production process. Customised design allows the equipment to be adapted to structural constraints, the types of items to be handled and the operating characteristics of personnel.

To start effective design, it is useful to provide some key information:

- Type and dimensions of the items (material, capacity, diameter, height)
- Average number of items handled every day
- Height and direction of tipping
- Type of receiving container
- Work environment (standard, food, chemical, etc.)
- Need for special automation (electrical translation, remote controls, etc.)

Electric or pneumatic lifting

When you need to lift objects over one metre, handle loads of over 150 kg or handle more than ten units per day, it is essential to use trucks equipped with at least electric or pneumatic lifting.
In these cases, manual handling would not only be inefficient but also hazardous for the operator. Field experience confirms that the ideal choice is to opt for fully electric models, i.e., also equipped with automated translation.

Pick-up points and tipping

To identify the most suitable tilter, the following must be defined:

- **Pick-up point**: from pallet or the ground. The pick-up point indicates the position where the object is picked up: directly from the floor, or from a pallet.
- **Emptying/placement height**: checks the height of the target containers. This data is used to establish the height to which the item must be lifted to be emptied into the destination container, or placed in its working position, avoiding impacts or incorrect pouring.
- **Type of rotation**: frontal or lateral. The direction in which the object is rotated affects the choice of the type of tilting head and the ergonomics of the entire process.

These data are used to correctly size the forklift's width, length, lifting height and foot height, ensuring adaptability to routes and workstations.

Materials according to work environment

The work environment may require specific materials. The choice of material affects initial costs, but avoids extraordinary maintenance and downtime.

Questionnaire

Type of load to be handled

DRUMS

Type: ☐ Metal ☐ Plastic ☐ Cardboard

Total opening: Yes No

Weight (kg): _____

Diameter (mm): _____

Height (mm): _____

Nature of content: _____

REELS

Type: ☐ Metal ☐ Film ☐ Paper

Other: _____

Weight (kg): _____

Diameter (mm): _____

Height (mm): _____

Nature of content: _____

CRATES/SUNDRY OBJECTS

Type: ☐ Metal ☐ Plastic ☐ Cardboard ☐ Wood

Other: _____

Weight (kg): _____

Length (mm): _____

Width (mm): _____

Height (mm): _____

Nature of content: _____

Type of handling

Action: ☐ Lift ☐ Move ☐ Turn ☐ Empty ☐ Mix

Position of the material to be moved: ☐ On the ground ☐ On pallet ☐ Other: _____

Size of the pallet and number of drums/reels on it: _____

Minimum and maximum gripping height (mm): _____

Minimum and maximum lifting height (mm): _____

Number of daily movements: _____

Type of equipment: ☐ Freestanding truck ☐ For forklift truck ☐ For hoist

Freestanding truck: ☐ Manual ☐ With pneumatic lifting ☐ With electric lifting ☐ Fully electric

Equipment to be attached to the forklift truck: ☐ forkliftable ☐ Fork plate ☐ Manual ☐ Hydraulic

Hoist equipment: ☐ Manual ☐ Automatic

Construction material: ☐ Painted steel ☐ AISI 304L stainless steel

Work environment

Door height (mm): _____ Door width (mm) _____

Ceiling height (mm): _____ Passages under the machine (mm): _____

Lane width (mm): _____ Type of flooring: _____

ATEX zone: ☐ None ☐ 2GD (Zone 1/21) ☐ 3GD (Zone 2/22)

As far as possible, photos of the work environment are required, showing the position of the load to be handled and where it is to be placed/emptied.

Notes

Drawing

Company data

Company: _____ Telephone No: _____
Contact: _____ Mobile No: _____
City: _____ Postal Code: _____
Mail: _____ Country: _____

Please send the completed questionnaire to: **commerciale@veabitalia.com**

With these data, our technical department will be able to develop a customised solution that ensures safety, ergonomics and efficiency, seamlessly integrated into your operating environment.