



# PowerPaq™

Series of robotic arms for palletising and depalletising applications



Palletising robot  
Master 500

## Palletising robot

**MASTER 500** palletiser robot with rotating structure at a single column. It is equipped with two linear axes and two circular interpolated axes and the main handling movements are realized by means of asynchronous motors coupled with reducers of the best quality. Thanks to its reduced overall dimensions, this robot allows to work on a single or two lines contemporaneously, with a single or multiple picking head to grant the required output and satisfy several applications. The robot is suitable for palletising products like filled cartons, bags, shrink-packs or others, arriving from an infeed conveyor. By means of the appropriate pick and place equipment, the products are picked from the infeed conveyor and positioned on the pallet, according to the required pallet pattern.



Gripping system for bags.

Very easy to use  
The machine is controlled by an industrial PLC (Programmable Logic Control) which - along with the use of a Touch Screen - provides for a simple on-board user interface, allowing the operator to have a complete control and a very intuitive and easy troubleshooting operations. On request, it is also possible to get the self-programming function. In this case, the operator can realize his own working programmes according to the new demands.

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### Quick product change

The machine is supplied with a universal gripping system and self-centring adjustable sides for product roller conveyor, in order to reduce as much as possible the quick format change.

### Easy maintenance

The maintenance operations do not require specific skilled operator. The machine is equipped with lubrication systems on easily reachable positions.

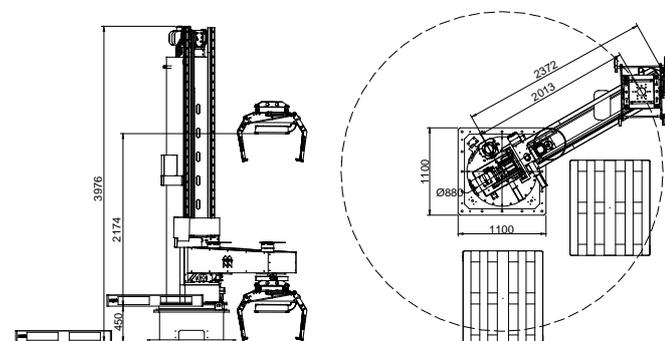
### Wide range of accessories

A wide range of accessories allow the Master 500 to meet with the most required applications of the final user.



High flexibility with the multipurpose pick-up head.

In particular, it is possible to supply it with a picking device for pallet and/or layercard, already installed on the picking head. Depending on the requested output and working type, the machine can be manufactured completely automated.



TMG Impianti reserves the right to carry out modifications to specifications and designs at any time and without notice

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### General technical data

|                             |                        |
|-----------------------------|------------------------|
| Speed:                      | up to 500 cycles/hour* |
| Axis:                       | 4                      |
| Air consumption 6 bar:      | 150 NL/min.            |
| Max. Power:                 | 6,5 kW                 |
| Recom. max. load (product): | up to 50 kg            |

(\*Approximate values depending on working path, type of head and product weight.