## SAPELEM > COBOTICS > ERGONOMICS > ZE' SOLUTION PALLETIZER

# Installation advice:

The ease of use of your manipulator depends on its good installation.

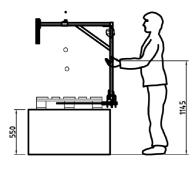
A SAPELEM expert studies the installation in order to guarantee the optimal ergonomics of the workstation.

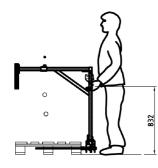
## **Examples of using pallets turnaround:**

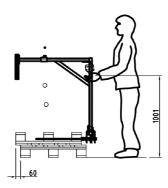
Gripping pallet on conveyor

Releasing pallet on the ground

Releasing turned pallet



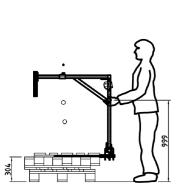


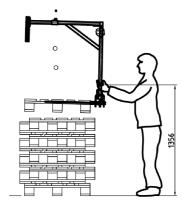


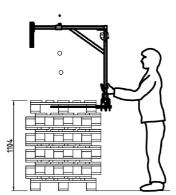
Releasing pallet

Max transfer height

Releasing last pallet









S269 3 M01

SAPELEM is studying and manufacturing other gripping solutions:

- Suction cups
- Clamps
- Magnets







# **TECHNICAL SPECIFICATIONS**

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# ZE' SOLUTION ERGONOMIC MANIPULATOR

#### **Technologies:**

- Aluminium arm with low-inertia double articulation
- Electronic lifting assistance to intuitively lift loads up to 200kg with only 20g effort

# **Advantages:**

- Versatility: handling many products
- Precision: sensitive Zii handle
- · Rapidity: optimal working pace
- Ergonomics: RSI removal
- Intuitiveness: naturally following hand movement without button
- Safety: secured grip-release, alarms, hand detection

### **Customized:**

- Wide work zones: possible to install under rail, framework, or under a supporting structure
- Heavy loads: steel arm enabling the handling of loads up to 300kg
- Services: installation and ergonomics expertise
- Special: manipulator conception and manufacturing for specific applications





SAPELEM has created a wide range of standard manipulators answering the most common applications.

# ZE' SOLUTION PALLETIZER

#### **Function:**

Palletizing or depalletizing pallets

# Advantages:

- Productivity: high handling pace
- Ease: effortless handling, preserves the back
- Versatility: turnaround for "top to tail" storage

#### **Description:**

- Pallets turnaround system in option
- Ergonomic, long and off-centred control handle

## Minimal required configuration:

• ZE'Solution Basic





In line with European Standard EN14238





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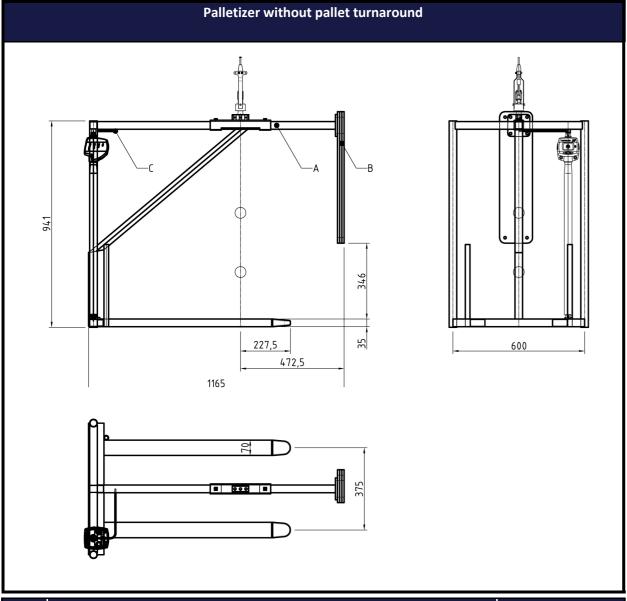
Use:

Palletizing or depalletizing pallets

## Advantages:

Ideal ergonomics: extended and off-centred handle Lightness: high resistance steel

Capacity: handling up to 3 pallets



	WLL	Reference without turnaround	Empty weight
,	40kg	5ZADF08011	68kg

## **Characteristics:**

- Pace: about 20s per pallet (depending on the moving to do)
- Long handle for grip/release on the ground
- Balancing counterweight developed to avoid taking more than 3 pallets at once

Recommended balancer: ELS 130

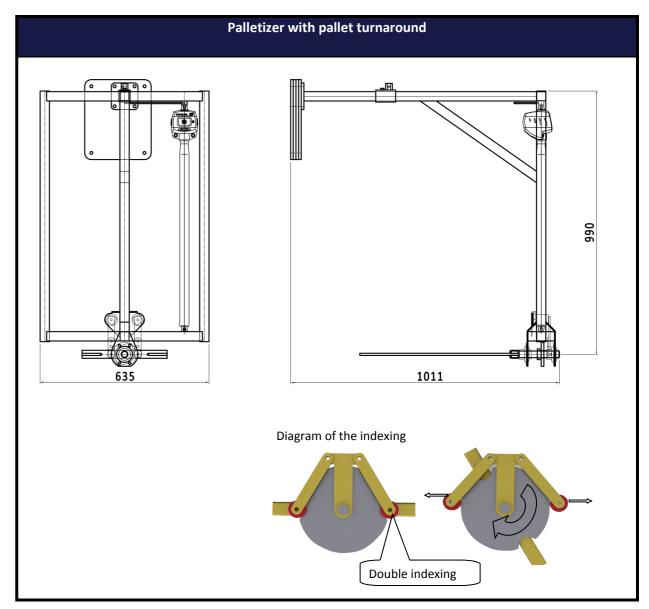
#### Use:

Stocking or unstocking "top to tail" pallets Inspecting and repairing pallets

### **Advantages:**

Effortless manual turnaround of the pallet Ideal ergonomics: extended and off-centred handle Lightness: high resistance steel

Safety: automatic indexing every 180°



WLL	Reference with turnaround	Empty weight
40kg	5ZADR04011	74kg

## **Characteristics:**

- Manual turnaround with automatic indexing
  - ⇒ Free 360° rotation with indexing every 180° by spring connecting rods
  - $\Rightarrow$  Double side forks to take the next pallet without going back
  - ⇒ Long handle for grip/release on the ground
  - ⇒ Pace: about 25s per pallet, including turnaround (depending on moving)
- Option: adjustable forks

Recommended balancer: ELS 130



