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Handling and/or Packaging / Unpackaging

Industrial Packaging Service for Safe Transportation

To guarantee the protection, integrity, and traceability of equipment, machines, or components during transport, through industrial packaging solutions adapted to their technical characteristics and logistical conditions.

Packaging Includes

- Packaging design from the engineering phase
 - Photographs before closure (optional)
 - Clear labeling of critical points
 - Use of impact / tilt sensors for sensitive shipments
 - Clear unpackaging instructions
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Additional Service

The service may also include unpackaging operations at destination.

Benefits

- Prevent damage during transport
 - Optimize logistics costs
 - Facilitate handling and installation
 - Ensure compliance with international requirements
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Limitations

- Packaging reduces risk but does not eliminate damage caused by improper handling
 - Dependence on third parties (transport companies)
 - External conditions beyond control
 - Requires correct handling at destination
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Scope of Application

- Complete machines
- Modules
- Sensitive components
- Disassembled production lines
- Export equipment (sea, air, or land transport)

Includes

- Packaging at origin
 - Preparation for transport
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Optional

Unpackaging at destination

Service Modalities

- Standard Packaging: basic protection adapted to the equipment
- Reinforced Industrial Packaging: for international transport or long-distance shipments
- Modular Packaging: optimized for rapid installation
- Unpackaging at customer site: verification, opening, inspection, and initial support

Service Content

Pre-analysis

- Dimensions and weight
 - Fragility / criticality
 - Type of transport (truck, ship, airplane)
 - Environmental conditions (humidity, temperature, vibrations)
 - Customer / destination requirements
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Packaging Design

- Material selection:
 1. Wooden crates (ISPM-15)
 2. Technical foams
 3. Protective films
 4. Anti-vibration systems (if applicable)
 - Protective structure
 - Load distribution
 - Modular packaging (if applicable)
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Packaging Execution

- Protection of critical surfaces
- Internal fixing of equipment
- Construction of packaging structures
- Labeling (fragile, orientation, center of gravity)
- Identification and traceability

Associated Documentation

- Packing list
 - Photographic report (before and after packaging)
 - Handling instructions
 - International marking (if applicable)
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Unpackaging (Optional)

- Controlled opening at customer site
 - Visual inspection upon receipt
 - Integrity verification
 - Packaging waste management (optional)
 - Handling (optional)
 - Preparation and positioning for installation (optional)
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Methodology and Actions

- Logistics evaluation
- Type of shipment
- Associated risks
- Solution definition
- Packaging design
- Execution
- Physical packaging
- Documentation
- Monitoring
- Support during transport (if applicable)
- Reception / unpackaging
- Final validation

Deliverables

- Completed packaging
 - Packing list
 - Photographic report
 - Handling instructions
 - Transport documentation (if applicable)
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Roles and Responsibilities

- Technical office: packaging design and procedures
- Packaging/logistics team: execution
- Production: equipment preparation
- Project Manager / Sales: coordination
- Customer: validation of logistics requirements

- ⚠ The customer is responsible for reporting any transport damage
- ⚠ Transport insurance is not included (critical contractual aspect with carrier)