

1. Preamble

These packing regulations shall apply for all suppliers and internal departments of Gustav Magenwirth GmbH & Co. KG – hereinafter referred to as MAGURA – and are designed to guarantee an efficient and problem-free flow of materials from supplier to the place of consumption. Their primary goals are:

- optimum arrangement of containers and packaging
- co-ordinated quantities
- standardised dimensions

2. Types of packaging

The following types of packaging shall be used in the logistic chain from supplier to place of consumption, whereas the packager / sender shall be liable for the quality of the packaging on principle:

- Reusable transport packaging
 - universal mini-load container (KLT-system)
 - part-specific receptacles or inlays
 - wood Euro pallets 1200 x 800 x 150 mm
 - mesh box pallets 1240 x 840 x 970 mm
 - liquid containers
- Disposable transport packaging
 - disposable cardboard boxes

The quality of the cardboard boxes have to adapt to the weight and size of the packaged goods. For overseas deliveries the cardboard boxes should consist of a proven, wet strengthened and corrugated cardboard according to DIN 55468 with a minimum quality class 2.7 – 2.96.
 - disposable pallets

For deliveries by sea you have to use disposable pallets which have to meet the photo hygienic regulations of the IPPC (International Plant Protection Convention).
 - disposable packing material
 - disposable protective packaging
 - disposable liquid containers

MAGURA prefers reusable over disposable transport packaging.

For deliveries by sea you have to use disposable transport packaging according to the guidelines.

3. Packaging requirements

Following requirements shall be met irrespective of which type of packaging is chosen:

- Protection of the parts
The protection for parts with metallic material includes the corrosion protection. Therefore protect goods delivered overseas with VCI packaging (Volatile Corrosion Inhibitor), e. g. VCI-bag, VCI-paper etc.
- Packages must be filled to a maximum level
- Maximum weight of 15 kg per packaging unit (with the exception of mesh box pallets and special packages; here are special arrangements necessary)
- Bulk cargo as well as easily soiled parts and parts soiled with dirt or oil shall be packed in PE bags in advance (suitable for containers 400x300x180 mm). If necessary, smaller units in a consistent package size are also permitted
- Standard dimensions in accordance with Euro standard dimensions
- Stackability
- Structure of packages has to be suitable for handling
- Structure of packages has to be suitable for efficient standard loads
- Goods must be secured for transport
- Transport vehicles must be able to be unloaded with floor conveyors without problems
- Recyclable materials

4. Avoidance of waste recycling of packaging

The waste management objectives of environmental legislation and of MAGURA shall be observed.

- Avoidance of packaging waste:
Any packaging waste shall be limited to the strictly necessary amount.
- Reduction of packaging:
Reusable and disposable transport packaging shall be defined with respect to ecological and economic factors.
- Recycling of packaging:
Reusable and disposable transport packaging must be able to be recycled in an environment-friendly manner.

5. Choice of packing material / means of transport and determination of packaging

Any packaging shall generally be planned in accordance with the provisions under points 2 – 4. In addition, any existing parts-specific indications shall be taken into account with regard to their sensitivity classification.

MAGURA has defined a sensitivity classification MNW 1031 for the delivery (as a download at <http://lieferantenportal.magura.com>).

6. Procedure of packaging planning

a) external:

The supplier / provider is called on to generally submit a packaging proposal together with the offer in accordance with point 5.

After a positive examination the supplier will receive a confirmation of his proposal from central purchasing or a MAGURA production memo. The production memo is a special parts-specific agreement. The agreed type of packaging (according to the supplier's proposal or the MAGURA production memo) shall become integral part of the contract upon order placement.

This procedure shall apply accordingly for any requested changes.

The clearance of a type of packaging shall not release the supplier from his responsibility to deliver defect-free parts.

Should the agreed packaging not be used, MAGURA reserves the right to charge the respective supplier for any handling, disposal and repackaging costs incurred. Any deviation from the agreed packaging without prior consultation shall become part of the supplier performance.

b) internal:

The packaging that is necessary from a processing point of view is determined by the production process department. Any request for changes on the part of users shall be submitted to production process department which shall decide on approval.

7. Use and handling of reusable transport packaging

The procedure described below shall apply both for MAGURA LTB standard containers and for any other KLT loading equipment and special containers.

MAGURA shall decide on the use of standard containers in consultation with the supplier.

All reusable containers are only intended for the transport of parts between the supplier and MAGURA. They may not be used for other purposes such as

- temporary warehousing of semi-manufactured goods
- warehousing at the supplier's beyond the current delivery schedule
- delivery to subcontractors

7.1 Designations

LT 1 = LTB 4120	without cover LTB-D43
LT 2 = LTB 4120	with cover LTB-D43
LT 3 = LTB 4220	without cover LTB-D43
LT 4 = LTB 4220	with cover LTB-D43

7.2 MAGURA standard containers



Designation:	Container LTB 4120
Tare:	0.985 kg
Exterior Dimensions:	400x300x120 mm (LxWxH)



Designation:	Container LTB 4220
Tare:	1.320 kg
Exterior Dimensions:	400x300x220 mm (LxWxH)



Designation:	Cover LTB-D43
Tare:	0.340 kg
Exterior Dimensions:	400x300x17 mm (LxWxH)

7.3 Weight

The maximum weight of a container shall be **15 kg**.

7.4 Cleanliness

Any easily soiled parts and parts soiled with dirt or oil shall be packed in PE bags in advance.

7.5 Choice of container

Containers have to be full. Should an LTB 4220 container have reached its maximum weight and still be 1/3 empty, then the smaller LTB 4120 container shall be used.

7.6 Optimising the container filling level

The supplier shall always deliver containers that are filled to the maximum. The supplier shall make proposals to optimise the filling level, which shall be coordinated in cooperation with MAGURA (see point 6).

7.7 Labelling

Every container shall be labelled with a tag (part number, description, number of items).

7.8 How and where to attach tags

The tag shall be attached to the front of the container by sliding it into the designated tag holder.

The main tag for the load unit as well as address labels may be attached with adhesive dots that are easily removable and leave no residue.

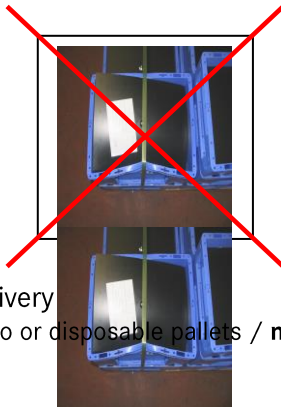
The containers may not be affixed with completely self-adhesive labels.

MAGURA will charge the supplier for the removal of self-adhesive labels.

7.9 Transport packaging



Goods on Euro or disposable pallets must have a pallet lid for transport. If necessary, empty containers shall be used to compensate for any unevenness. The goods shall be secured for transport by means of plastic strapping or shrink wrap.



Individual containers or packages shall be closed off by means of plastic strapping while taking care not to deform or damage the containers.

The supplier shall be charged for the costs of any permanently deformed, and therefore damaged, containers.

7.10 Delivery

Euro or disposable pallets / **maximum height 1050 mm**

8. Inventory and account management

A loading equipment account is established and maintained for each supplier delivering goods to MAGURA in reusable containers. Exempted from this are DB (Deutsche Bahn) Euro pallets and Euro mesh box pallets that are exchanged with the carrier.

Upon delivery of the goods, MAGURA must be able to see at a glance which reusable transport packaging the shipment comprises (delivery note / waybill). This is the only way to ensure proper account management and therefore ensure that your loading equipment account is credited.

9. Management of empties

Taking into account a delivery time of 5 working days, the supplier shall be obligated to requisition the necessary reusable transport packaging in writing from

Gustav Magenwirth GmbH & Co. KG
Plant Hengen - department incoming goods

Phone 07125/153-154 Fax 07125/153-283
Email: logistik.service@magura.de

10. Exemptions

Should specific packaging requirements deviate from these packing regulations, this shall be coordinated with MAGURA accordingly.

Any deviations from these binding packing regulations shall require special approval in writing.