

Packaging Manual

Endress+Hauser



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1 Introduction

Endress+Hauser would like to have the articles purchased from you packaged in materials which can be used in the internal production process. Chapter 3 shows a list of containers, load carriers and filling materials released by us.



2 Packaging design

Packaging is subsequently defined for individual material numbers. Normally, we will approach you with a list of packaging instructions consisting of the material number, the container and the quantity per container. You will check the feasibility and provide feedback by return. We will also be pleased to assume your improvement proposals in relation to optimum container filling.



2.1 Procedure

1. Endress+Hauser creates Packing instructions for material delivered by you and determines which containers are to be respectively used, based on the requirements and handling at our production line.
2. After our purchaser has handed the Packing instruction to you, please check the feasibility, the optimum filling quantity of the containers and the protection of the packed articles during transport. Indicate any changes in our list. After you have checked the list with the packaging instructions, please return the same to your contact at the purchasing department of Endress+Hauser.
3. If you have indicated any proposals for change the packing instruction, we will discuss them internally and agree a changeover date for the new packaging arrangement with you. We enter the agreed packaging instructions in our ERP system on the changeover date. You will then receive the agreed packaging information on each purchase order.

2.2 General conditions



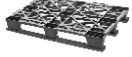
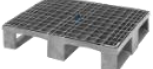
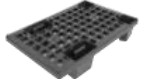
- **Transport protection:**
The parts must be protected against mechanical, chemical and environmental impact. If the goods do not concern bulk material, the parts are to be protected within the package in such a way that they do not damage each other.
- **Bulk material:**
If possible, bulk material is to be packed in manageable quantities in plastic bags. Several plastic bags are packed in a carton of the Endress+Hauser packaging catalogue. The definition of parts as bulk material is agreed with you by us.
- **Permitted weights:**
Pallets: max. 700kg
Half-pallets: max. 488kg
Containers: max. 15kg
- **Permitted pallet height:**
Pallets: 1200mm (incl. pallet)
Half-pallets: 950mm (incl. pallet)
- **Capacity usage:**
The containers are to be filled to capacity to save transport and storage volume.
- **Mixed delivery:**
Mixed delivery in containers is to be avoided on principle. Should this be inevitable, the mixed container must be clearly marked as such.



3 Packaging catalogue

3.1 Load carriers

- Pallets

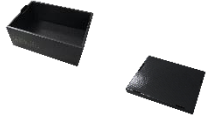

	Explanation	Length mm	wide mm	high mm	image
Euro-pallet	For smooth storage in our automatic high bay warehouse, Endress+Hauser requires euro-pallets according to DIN 13698 which are as good as new.	1200	800	140	
Half-pallet	Half-pallets must correspond to the quality and stability of euro-pallets and have to be as good as new.	800	600	140	
Plastic euro-pallet	In exceptional cases and after release by Endress+Hauser, plastic pallets may be delivered.	1200	800	140	
Plastic half-pallet	In exceptional cases and after release by Endress+Hauser, plastic pallets may be delivered.	600	800	140	
Plastic quarter-pallet	In exceptional cases and after release by Endress+Hauser, plastic pallets may be delivered.	600	400	140	







Please note: skeleton containers are not accepted.





3.2 Containers

- ESD-Cardboard packaging

ESD-packaging	Part number E+H LP	Description	External dimensions (mm)			Internal dimensions (mm)			Quality	Image
			L	B	H	L	B	H		
BC ESD 400 * 300 * 150	71197179	Carton	394	288	143	377	271	139	1,36B	
	71197184	Lid	399	299	42	396	290	40	6,87E	
BB ESD 600 * 400 * 150	71197172	Carton	589	395	143	571	377	139	1,36B	
	71197182	lid	599	399	42	590	396	40	6,87E	

■ Kartonagen

Eurofix non-Returnable package	Part number E+H LP	Part number E+H FL	Part number E+H LA	Description	External Dimentions (mm)			Internal Dimentions (mm)			Quality	Image
					L	B	H	L	B	H		
B2 200*150* 120	71191887	71265101	71388143	Carton	193	139	120	187	133	113	Sonder Qualität B	
	71191886	71265102	7138814	Lid	200	150	64	194	140	60	Sonder Qualität B	
	71202876	71265103	-	Lining	-	-	-	185	130	-	1.10C	
B3 300*200* 120	71000432	71265104	71388152	Carton	289	193	115	276	170	100	2.50BC	
	71000420	71265105	71388154	Lid	300	200	70	290	184	65	1.40B	
	71063099	71265106	-	Longitudinal web	-	-	-	97	254	-	1.30C	
	71063439	71265107	-	Cross-web	-	-	-	97	155	-	1.30C	
	7103526	71265108	-	Lining	-	-	-	271	165	-	1.20C	
B4 400*300* 120	71000433	71265109	71388152	Carton	389	283	115	376	270	100	2.50BC	
	71000430	71265110	71388156	Lid	400	300	70	390	284	65	1.40B	
	71063433	71265116	-	Longitudinal web	-	-	-	97	354	-	1.30C	
	71063435	71265117	-	Cross-web	-	-	-	97	255	-	1.30C	
	71063527	71265114	-	Lining	-	-	-	371	265	-	1.10C	
B5 400*300* 220	71000434	71265115	71388158	Carton	389	283	215	376	270	200	2.50BC	
	71000430	71265110	71388159	Lid	400	300	70	390	284	65	1.40B	
	71063527	71265114	-	Lining	-	-	-	371	265	-	1.10C	

BA 600 * 400 * 120	71064021	71265118	71388161	Carton	584	382	114	578	366	110	1.20B	
	71000431	71265119	71388168	Lid	600	400	70	590	384	65	1.40B	
	71063436	71265120	-	Longitudinal web	-	-	-	97	552	-	1.30C	
	71063438	71265121	-	Cross-web	-	-	-	97	354	-	1.30C	
BB 600 * 400 * 160	71002594	71265122	71388162	Carton	589	383	155	576	370	150	2.50BC	
	71000431	71265119	71388168	Lid	600	400	70	590	384	65	1.40B	
	71063436	71265120	-	Longitudinal web	-	-	-	97	552	-	1.30C	
	71063438	71265121	-	Cross-web	-	-	-	97	354	-	1.30C	
B6 600 * 400 * 220	71000435	71265123	71388163	Carton	589	383	215	576	370	200	2.50BC	
	71000431	71265119	71388168	Lid	600	400	70	590	384	65	1.40B	
	71063436	71265120	-	Longitudinal web	-	-	-	97	552	-	1.30C	
	71063438	71265121	-	Cross-web	-	-	-	97	354	-	1.30C	
	71087207	71265125	-	Lining BC	-	-	-	365	565	-	2.50BC	
	71063528	71265126	-	Lining C	-	-	-	365	571	-	1.30C	
B7 600 * 400 * 320	71000436	71265124	71388167	Carton	589	383	315	576	370	300	2.50BC	
	71000431	71265119	71388168	Lid	600	400	70	590	384	65	1.40B	
	71063436	71265120	-	Longitudinal web	-	-	-	97	552	-	1.30C	
	71063438	71265121	-	Cross-web	-	-	-	97	354	-	1.30C	
	71087207	71265125	-	Lining BC	-	-	-	365	565	-	2.50BC	
	71063528	71265126	-	Lining C	-	-	-	365	571	-	1.30C	

3.3 Packaging aids

- Permitted and unpermitted packing aids

	Desired	Undesired
Container	Nonreturnable cartons corresponding to EuroFix dimensions. Possibly returnable containers (as agreed with Endress+Hauser)	Containers protruding beyond the load carrier. Containers not corresponding to the EuroFix standard.
Pallets	Euro exchange pallets, half-pallets (corresponding to euro-pallet quality)	One-way pallets
Foils/bags	PE foils, PET	
Straps	PP, PET	PVC, steel straps, polyamide traps, polyester straps
Filling material	Cardboard, paper, PE air cushioning	Wood shavings, glass wool, packaging chips, styrofoam

Note: Should you have any trouble procuring the desired packaging materials, please get in touch with your contact at our purchasing department.



4 Labeling

4.1 Package marking

Every packing unit must be marked at least as follows:

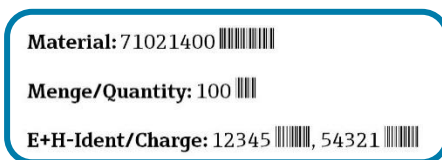
Material: (E+H article number)

Quantity: (actual quantity)

Additionally, in case of goods requiring a certificate:

E+H charge: (5 digit E+H identification number(s)/ charge number(s))

Example:



On containers, the marking must be shown on the front side. It is important, that the marking is printed in German and English, since the goods are also used in our foreign operations. If possible, all data should also be printed as a barcode (Code 39 or 128).

4.2 Kanban cards

Kanban cards must be attached on the outside of packages and readily readable. It must be possible to scan kanbans delivered on pallets without any repacking.

4.3 Delivery notes

To facilitate the receipt of shipments, the E+H order number is to be printed in plain text and as a barcode on every delivery note.

5 Rules

The subsequently described rules concerning the firmly defined packaging instructions are to be observed without fail:

- **Short/over delivery tolerance**
A short/over delivery tolerance is not granted in kanban and contract parts, since the supplier is supposed to produce on stock in its own store and thus does not have to deliver the exactly produced quantity. At the end of the contract term, a one-time shipment of a residual quantity may be effected. Any packaging unit not completely filled at that time, must be clearly marked as such! In case of individual orders, the quantities ordered by Endress+Hauser are to be observed. According to legal provisions, a short/over delivery tolerance of 10% is granted depending on the production process.
- **Change of charge**
If the residual quantity of the previous charge does not result in a complete packaging unit, the package is to be completed with the new charge. Different charges must be stated, including quantity and E+H charge number, on the delivery note and in the marking of the package.
- **Partial deliveries**
Partial quantities must be delivered in full packaging units. The delivery of partial quantities has to be agreed with the operative purchaser of Endress+Hauser.

Example:

Purchase order: 500 pieces in container B5 à 100 pieces

Partial production: 283 pieces

Partial delivery: 200 pieces in 2 containers à 100 pieces.

6 Procurement of packaging materials

You are free to procure the agreed packaging materials wherever you wish to do so. You may contact our supplier of packaging materials, Prodinger OHG in Germany or Prodinger Verpackung AG in Switzerland and obtain the standard packaging materials at Endress+Hauser terms.

As a supplier, you are responsible that the required packaging materials are available on time. If goods are delivered in other than the agreed packaging materials, Endress+Hauser reserves the right of charging additional costs incurred for repacking to the supplier. In addition, non-compliance with the agreed packaging instructions will have a negative effect on the supplier assessment.

Contact person:

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