

MAHLE Behr Europe KLT¹ Pool System

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¹ KLT = small load container



1. General processing of MAHLE Behr KLT-Pool System

1.1. Order process

The returnable packaging (RP) in this system may only be used for deliveries from the supplier to MAHLE Behr, from MAHLE Behr to the supplier, and for MAHLE Behr's internal deliveries. This applies to all deliveries to MAHLE Behr Group companies within Europe.

In addition, global and regional logistic guidelines must be considered.

Areas of application:

MAHLE Behr supplies the following European countries delivered duty unpaid and untaxed:

Belgium, Denmark, Germany, France, Italy, Luxembourg, Monaco, Netherlands, Austria, Poland, Romania, Switzerland, Slovenia, Slovakia, Spain, Czech Republic, and Hungary.

Remaining countries of Europe:

In the remaining countries additional freight charges are calculated individually and charged to the buyer. Customs documents for export registration are prepared by MAHLE Behr and attached to the shipment. Resulting payments of duty and taxes including additional expenses will be charged to the consignee.

The supplier orders at MAHLE Behr the RP, required for his demands. The RP may only be used for deliveries to MAHLE Behr subsidiaries. The use for deliveries to other partners or pre-production is expressly prohibited.

MAHLE Behr supplies the RP to the supplier within the defined lead-time after receipt of order by fax or e-mail.

1.2. RP account statement

For all RP a packaging-account must be implemented between supplier and MAHLE Behr. MAHLE Behr forwards its packaging account statement via e-mail monthly to supplier. Supplier must check accounts within permitted time period. In case of claims, supplier must add corresponding paperwork.

Packaging accounts for shared RP are managed by container-eu@mahle.com, only.

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1.3. Physical inventory

Stock taking of all RP must be done minimum once per year. Date of stock taking is defined as 31.12.20xx.

Reports of stock taking must be returned at the defined date the latest.

In case of discrepancies from RP account to physical counting, reported stock will be overtaken into RP account.

Discrepancies that could not be clarified with defined time frame will be charged to supplier with costs for re-sourcing.

If no stock taking report is returned with defined date, RP account will be booked to "0" and booked quantity will be charged to exchange partner with costs for replacement.

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2. RP at MAHLE Behr KLT-Pool System

2.1. Overview 1 RP at MAHLE Behr Pool



Packaging name:							
MU4							
	Packaging number:						
	BT00380						
Color: blue - RAL5005							
amazones i re-							
	Packaging	g details					
	EXTERNAL	INTER	NAL				
Length 600 mm 531 mm							
Width	400 mm	341 r	nm				
Height	Height 330 mm 316 mm						
Weight 3,40 kg							
Superimposed load: 120 kg							
Handlir	ng unit stacking d	etails for empty b	ooxes				
Stack height	Weight	Per layer	Max layers				







2.2. Overview 2 RP at MAHLE Behr Pool



Packaging name:							
MU6L							
Packaging number:							
BT05138							
Colo	r: ESD black Re	sistance: 10^6 ol	nm				
BOODEST PROCESS & G===							
	Packaging		NAL				
Length	EXTERNAL INTERNAL						
Width	Length 400 mm 352 mm Width 300 mm 242 mm						
Height 218 mm 214 mm							
Weight 1,60 kg							
Superimposed load: 120 kg							
Handlir	ng unit stacking d	etails for empty b	ooxes				
Stack height	Weight	Per layer	Max layers				
1257 mm	186,40 kg	8	13				



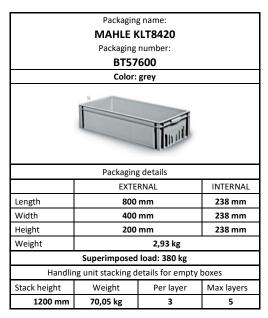
Packaging name	Lid name:					
l v	LID D45					
Packaging numb	Lid number:					
	BT60297					
	•					
	Packaging details		Lid details			
	EXTERNAL	INTERNAL	Liu detalis			
Length	400 mm	400 mm				
Width	Ith 300 mm 260 mm					
Height	Height 213 mm 185 mm					
Weight	1,42	2 kg	0,25 kg			
Superimposed load: 600 kg						
Handlir	ng unit stacking d	etails for empty l	ooxes			
Stack height	Weight	Per layer	Max layers			
1265 mm	92,90 kg	8	5			



2.3. Overview 3 RP at MAHLE Behr Pool

Packaging name	Lid name:				
M	LID D35				
Packaging numb	Lid number:				
	BT60296				
	Packaging details	i	Lid dotails		
	Packaging details	INTERNAL	Lid details		
Length			Lid details		
	EXTERNAL	INTERNAL			
Length	EXTERNAL 300 mm	INTERNAL 243 mm	300 mm		
Length Width	EXTERNAL 300 mm 200 mm	243 mm 162 mm 130 mm	300 mm		
Length Width Height	300 mm 200 mm 147 mm	243 mm 162 mm 130 mm	300 mm 200 mm		
Length Width Height Weight	200 mm 147 mm 0,52	101 INTERNAL 243 mm 162 mm 130 mm 7 kg load: 400 kg	300 mm 200 mm - 0,09 kg		
Length Width Height Weight	EXTERNAL 300 mm 200 mm 147 mm 0,55	101 INTERNAL 243 mm 162 mm 130 mm 7 kg load: 400 kg	300 mm 200 mm - 0,09 kg		

Packaging name	Lid name:					
M	LID D65					
Packaging numb	Lid number:					
	BT62539					
	BT62593 E Color: blue - RAL5005					
	Da alas ais a stataite					
	Packaging details	1	Lid details			
	EXTERNAL	INTERNAL				
Length		1	Lid details			
	EXTERNAL	INTERNAL				
Length	EXTERNAL 600 mm	INTERNAL 544 mm	600 mm			
Length Width	EXTERNAL 600 mm 400 mm 147 mm	544 mm 359 mm	600 mm 400 mm			
Length Width Height	EXTERNAL 600 mm 400 mm 147 mm	1NTERNAL 544 mm 359 mm 130 mm	600 mm 400 mm			
Length Width Height Weight	EXTERNAL 600 mm 400 mm 147 mm 1,8 Superimposed	1NTERNAL 544 mm 359 mm 130 mm	600 mm 400 mm - 0,52 kg			
Length Width Height Weight	EXTERNAL 600 mm 400 mm 147 mm 1,8 Superimposed	100 INTERNAL 544 mm 359 mm 130 mm 2 kg 10ad: 400 kg	600 mm 400 mm - 0,52 kg			



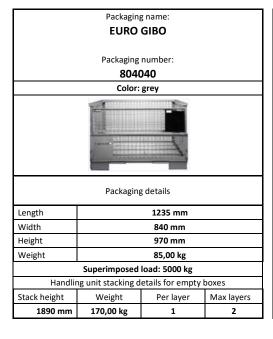




2.4. Overview 4 RP at MAHLE Behr Pool

Packaging name	Lid name:					
IV	LID D41					
Packaging numb	Lid					
rackaging numi	number:					
	BT63447					
	Color: ES	D black				
	Packaging details					
	EXTERNAL INTERNAL					
Length	Length 400 mm 345 mm					
140 111	300 mm	260 mm	300 mm			
Width	300 111111	200 111111	300 111111			
Height	213 mm	185 mm	-			
***************************************		185 mm	- 0,29 kg			
Height	213 mm	185 mm 1 kg	-			
Height Weight	213 mm	185 mm 1 kg load: 400 kg	- 0,29 kg			
Height Weight	213 mm 1,54 Superimposed	185 mm 1 kg load: 400 kg	- 0,29 kg			

Packaging name	Lid name:				
l ∨	LID D61				
Packaging numl	Lid number:				
	BT63450				
	Color: ES	D black			
Packaging details Lid details					
	EXTERNAL	INTERNAL	Liu detalis		
Length	600 mm	544 mm	600 mm		
Width	400 mm	359 mm	400 mm		
Height	Height 213 mm 185 mm				
Weight 2,54 kg					
Superimposed load: 400 kg					
Handli	ng unit stacking c	letails for empty	boxes		
Stack height	Weight	Per layer	Max layers		
1265 mm	91,80 kg	4	5		







3. Implementation of MAHLE Behr Pool System at suppliers

3.1. Step1 - Identification of parts

Based on the packaging specifications of MAHLE Behr, supplier defines the quantity of parts per packaging and adjusts these in consultation with the responsible Logistics team leader (Logistic Datasheet).

3.2. Step2 - Access to the system

Registration with Logistics MAHLE Behr Group: kltpool@mahle.com

Supplier receives additional information and the order form.

Address:

MAHLE Behr GmbH & Co KG KLT-Pool Management / CITE Pragstr. 26 - 46 D-70376 Stuttgart Tel: +49 711 501 10225

Fax: +49 711 501 44 10225 E-mail: <u>kltpool@mahle.com</u>



4. Logistics processing of MAHLE Behr Pool

4.1. Scheduling/delivery of RP

Supplier is responsible for planning and scheduling the demand for RP. Supplier's order is sent by fax or email. Within a maximum of 5 / 7 working days after receipt of the order, delivery will be carried out by MAHLE Behr.

Lead time 5 working days:

Belgium, Denmark, France, Germany, Italy, Luxembourg, Monaco, Netherlands, Austria, Poland, Switzerland, Slovakia, Spain und Czech Republic.

Lead time 7 working days:

Romania, Slovenia, Hungary

Shipments to other European countries will take place after previous coordination.

Shipment of empty RP takes place sorted and with defined package sizes. KLT 3147, 4013, 4213, 6013, 6147 and 8420 are to be stacked with the corresponding lid. Load securing for KLT and lids must be done with lid A1208 and straps.

(804562) = (804040) =	16 2	pcs. per stack pcs. per stack
(BT60471) = (BT63447) = (BT59936) = (BT63449) = (BT62593) = (BT57600) =	112 40 40 20 28 15	pcs. (incl. lids D35 - BT60296) pcs. (incl. lids D41 - BT63448) pcs. (incl. lids D45 - BT60297) pcs. (incl. lids D61 - BT63450) pcs. (incl. lids D65 - BT62539) pcs.
(BT00233) =	25	pcs.
(BT05815) = (BT00380) = (BT00013) = (BT03073) = (BT00379) = (BT05138) = (BT06501) =	27 40 52 52 104 104 160	pcs. pcs. pcs. pcs. pcs. pcs. pcs. pcs.
	(804040) = (BT60471) = (BT63447) = (BT59936) = (BT63449) = (BT62593) = (BT57600) = (BT00233) = (BT00233) = (BT00380) = (BT00013) = (BT00013) = (BT00073) = (BT00379) = (BT05138) =	(804040) = 2 (BT60471) = 112 (BT63447) = 40 (BT59936) = 40 (BT63449) = 20 (BT62593) = 28 (BT57600) = 15 (BT00233) = 25 (BT00380) = 40 (BT00013) = 52 (BT00379) = 104 (BT05138) = 104



4.2. Cleanliness

It is to be assumed that containers are circulated throughout the MAHLE Behr Group under industrial conditions. This includes the handling of the containers as well as a minor soiling by process-related activities on the parts which cannot be avoided.

RP shall be provided in usable condition.

RP are inspected and sorted in MAHLE Behr plants with defined quality criteria.

Container in re-usable condition must be sent to MAHLE Behr's Logistic Centers directly.

Containers to be cleaned must be sent to cleaning stations before returning them into KLT-pool loop.

Clean / re-usable RP must be stored dryly (under roof) in any case.

Additional requirements in regards of cleanliness of RP must be defined and ensured separately.

4.3. Labeling (according VDA4902, VDA4994)

For the identification of KLT/MULTIPACK, **only non-self-adhesive** shipping/part identification labels must be used. They must have a grammage of 120g/m² at minimum.

Labels must be put into the provided label holder (KLT). Fixation with adhesive dots is not permitted.

The fixation of the labels at MULTIPACK must be done with max. 2 adhesive dots.

For identification of the handling unit, a master label must be used. The fixation must be done with max. 2 adhesive dots.

These adhesive dots can be purchased directly from the manufacturer at MAHLE Behr conditions.

Following types are available:

Adhesive dot 45 x 19 mm (item number BT56855) Adhesive dot 30 x 30 mm (item number BT56856)

Adhesive dots may also be purchased at other manufacturers. The dots must comply with the specifications of MAHLE Behr adhesive dots.

Specifications and supplier information could be requested at KLT-Pool Management.

No other types of fixation are permitted.



4.3.1. **System_**conform labeling:

 Non-self-adhesive label, put into label holder at KLT and 1 master label at front end fixed with max. 2 adhesive dots of defined types





Non-self-adhesive label, fixed with max. 2 adhesive dots at MULTIPACK and 1
master label at front end fixed with max. 2 adhesive dots of defined types





• Exception MU7 – due to sizes, label must be put on long side



Basically, size of labels (VDA 4902, VDA4994) should be aligned to size of KLT



4.3.2. System non-conform labeling:

- Label on the lid
- Label on the side
- Affixing (self-adhesive) pockets to the container
- Use of any type of tape (also Scotch tape)
- Multiple labels applied by suppliers
- Use of self-adhesive labels
- Labels between the reinforcing ribs
- · Labels on the inside of the container





• To prevent parts from getting mixed up in the production process, only the currently valid shipping/parts identification label must be used on the container.



4.4. Palletizing

According to this standard Euro pallets (1200 x 800 x 144 mm) must be used for shipping of RP. MAHLE Behr part number is 804562.

4.5. Load securing

For the delivery of full KLT/MULTIPACK, only plastic straps are permitted.
 When using handling unit lid A1208, the plastic strap must be routed through the grooves.



• For MULTIPACK, the plastic strap must be routed through the grooves in the lid (not the hinge).





• Exception: for MU7 plastic straps must be routed in the middle row of handling unit in addition.





4.6. Goods receipt inspection process

Inbound deliveries / packaging will be inspected at goods receipt and if non-compliant, a claim will follow. Costs will be charged to the supplier.

Following items will be checked amongst others:

- Cleanliness
- Labeling
- Palletizing
- Load securing

4.7. Area of application for RP

In principle, the RP is suitable for all parts satisfying the dimensional requirements. If using additional inserts, it is also possible to securely pack sensitive parts as well. If filled containers are handled manually, care must be taken to ensure compliance with the ergonomic and legal guidelines.

Exceptions to this rule must be defined!

4.8. Ergonomics

Weight restrictions (payload / superimposed load) must be observed for all RP.

A maximum total weight of 12 KG including packaging must not be exceeded for small boxes employed for shipments to/from MAHLE Behr, in case of manual handling.

Exception: For MU7 – BT06501 a maximum permitted total weight of 8 kg applies.

The stacking height of filled containers per pallet must be agreed with MAHLE Behr.

5. Contact person for logistic/technical standards

The department responsible for the contact/coordinating function relating to logistic and technical contents of this guideline is Corporate Logistics, Transport-/ Container Management

Mr. Jochen Rothfuß, CITE jochen.rothfuss@mahle.com