



MAUSER PE Packaging Portfolio – A perfect fit for great logistics.

Quality, security, innovation and sustainability included!



REDEFINING SUSTAINABILITY



About MAUSER Packaging Solutions

A global leader in packaging solutions and services, MAUSER Packaging Solutions (MPS) supplies metal, plastic, fiber, and hybrid packaging of all sizes to numerous industries worldwide.

True sustainability at scale

Our unparalleled, innovative solutions cover the full packaging life cycle, providing customised, environmentally friendly options that give businesses across the planet a lighter ecological footprint.

Global reach for worldwide impact

Our network of design, manufacturing, reconditioning, and recycling facilities can deliver high-quality solutions virtually anywhere, helping to boost efficiency and achieve true global sustainability at scale.



Quality. Security. Innovation.

MAUSER offers a wide range of plastic drum designs tailored to the needs of a broad range of industries, enabling them to handle sensitive or dangerous goods safely and reliably.

Our Infinity Series drums contain very high percentages of post-consumer resin (PCR) for reuse and recycling throughout their life cycle.

MAUSER is also constantly innovating to maximize each drum's efficiency and sustainability.

MAUSER provides a complete product range for all kinds of customers' industrial packaging needs

MAUSER UN and non-UN drums are:

- ▶ Ideal for filling with liquid or powder/solid goods for the petrochemical, pharmaceutical, agricultural, construction, and food industries.
- ▶ UN-approved for liquids, solids (up to PG I), and dangerous goods.
- ▶ Available in the sizes below with a barrier layer or as conductive (EX) versions.
- ▶ Able to perfectly integrate into filling processes thanks to flexible palletisation.

	EMEA	North America	South America	Asia-Pacific
Tight Head Drum - Large	120-250 l	30-55 gal	100-250 l	220 l
Tight Head Drum - Small	30-60 l	15-20 gal		
Open Head Drum - Large	120-220 l	30-57 gal	100-230 l	220 l
Open Head Drum - Small	20-70 l	15-20 gal	30-100 l	



"Closed loop" recycling in "one hand" – from collection to manufacturing.

Sustainable Solutions

Our sustainability is built on a comprehensive ECO-CYCLE concept that adheres to 5 principles:

- RENEW** Investigate promising future materials.
- REDUCE** Minimise raw material use, energy consumption, and environmental impact.
- RECOLLECT** Operate a global recollection system.
- REUSE** View reconditioned packaging as a high-quality, environmentally low-impact solution.
- RECYCLE** Finish the cycle and give materials new life.

We successfully introduced our Infinity Series drums made of post consumer resin (PCR) many years ago.

MAUSER's unique Infinity Series drums made of PCR

- ▶ Reduce industrial packaging's carbon footprint
- ▶ Can be collected to reduce waste
- ▶ Enable the fully controlled sourcing of recycled material
- ▶ Are UN-certified for dangerous goods and solids up to PG I

We also provide tailor-made solutions for customers.

Our Infinity Series is the most comprehensive portfolio of mono- and multilayer drums available on the market.

Made exclusively of high-quality recycled materials generated in-house, they are fully compliant with DIN ISO 16103-2000.

MONOLAYER		MULTILAYER 2		MULTILAYER 3	
INSIDE	OUTSIDE	INSIDE	OUTSIDE	INSIDE	OUTSIDE
<ul style="list-style-type: none"> ▶ Monolayer drum body made from up to 98% recycled plastics ▶ Most environmentally friendly & sustainable 		<ul style="list-style-type: none"> ▶ 2-layer drum body with only outer layer made of PCR and process regrind ▶ Inner layer in direct contact with filling goods made from virgin material – reduced risk of any potential cross-contamination 		<ul style="list-style-type: none"> ▶ 3-layer drum body with only encapsulated middle layer made of PCR and process regrind ▶ Inner layer in direct contact with filling goods made from virgin material - reduced risk of any potential cross-contamination ▶ Outer layer made from virgin material 	

■ PCR & process regrind ■ virgin



Reconditioning and recycling across the full packaging life cycle reuses precious materials.

Reconditioning

Responsibly extending the life cycle of industrial packaging

As per MAUSER's ECO-CYCLE concept, the Reconditioning business unit collects, reuses, and recycles materials.

Our global (standard or customised) collection programmes minimise resource depletion by returning empty containers and drums from your own or your customers' facilities and systematically reusing them.

MAUSER Packaging Return Program

We collect IBCs and plastic packaging from most major manufacturers. Consolidating various types of packaging on a single trailer streamlines the collection process and promotes sustainability.

Collection of Empty Packaging

- ▶ **Global return programme**
A global network makes it simple to return industrial packaging within key industrial regions all over the world.
- ▶ **No manufacturer limitations**
MPSR offers a global return system for industrial packaging from a wide range of manufacturers.
- ▶ **Return a variety of packaging types**
The global return system allows customers to return combinations of various packaging types on a single truck, allowing packaging material collections to be scheduled in the most efficient way possible. **Individual**
- ▶ **Return Systems**
We would be happy to develop a custom return system with you to meet your requirements and needs. We can even provide transportation equipment on-site at your location.
- ▶ **Transparent communication**
Simple return conditions, combined with the option to analyse and evaluate returned quantities at the local, regional, and global levels.



Why choose MPS Reconditioning?

- ▶ Global return and collection program of industrial packaging
- ▶ Customised recollection solutions; fleet management
- ▶ Easy, fast, and safe return and collection program
- ▶ Sustainable transport solutions
- ▶ Modern and transparent grading process
- ▶ Full traceability throughout transport
- ▶ Safe handling of empty packaging
- ▶ Competence in handling dangerous goods



Tight Head Drums

MAUSER L-Ring® PLUS

With this drum, MAUSER set a new industrial standard for the safe transportation of hazardous liquids many years ago. It is now the most widely used plastic drum in the world, produced in over 50 countries.

	EMEA	North America	South America	Asia-Pacific
Tight Head Drum - Large	120-250 l	30-55 gal	100-250 l	220 l
Tight Head Drum - Small	30-60 l	15-20 gal		

The one-piece blow-molded drum, produced to the highest quality standards under uniform conditions on MAUSER machinery, reliably meets the toughest requirements:

Specific advantages

- ▶ Manufactured in multiple colours and locations for long-term security of supply and minimised transport distances
- ▶ Capacity ranges from 120 to 240 l, can be efficiently filled and emptied to < 100 ml
- ▶ ISO-compliant, meeting DIN EN ISO 12709 (120 l, Europe) and DIN EN ISO 20848-2 (220 l, world)
- ▶ Stackable (up to 3 drums)
- ▶ Covers a wide range of UN homologation levels, from fit-for-purpose to high-performance
- ▶ Made from multiple carefully sourced HDPE plastics
- ▶ Available with various PP closure systems compliant with DIN EN ISO 20848-3 (BCS 70 x 6 and BCS 56 x 4 or BCS 56 x 4 and BCS 56 x 4) and LDPE or EPDM gaskets

Characteristic features

Body: Extruded HDPE

Standard colour: Drum: blue (RAL 5010), Closures: white

Options: Multiple PP closure and dispensing systems, vented closures, LDPE or EPDM gaskets, food contact certification

Technical features

	Standard - Fit-for-purpose		Special - High-performance	
Nominal volume (l)	120	220	220	220
Brimful volume (l)*	125	222	222	222
Weight (kg)*	5.5	8.2	8.5	10.5
Diameter (mm)*	493	581	581	581
Height (mm)*	745	935	935	935
Closure (ISO 20848-3:2008)	BCS 70 x 6 / BCS 56 x 4, BCS 56 x 4 / BCS 56 x 4			
Diameter of filling opening (mm)*	58.2 / 52.5, 52.5 / 52.5			
UN homologation (1H1)	Y1.9/200**	Y1.9/200**	X1.2/250***	X1.4/250***

	Conductive	H-Care™
Nominal volume (l)	220	220
Brimful volume (l)*	222	222
Weight (kg)*	8.2	8.5
Diameter (mm)*	581	581
Height (mm)*	935	935
Closure (ISO 20848-3:2008)	BCS 70x6 / BCS 56 x4	
Diameter of filling opening (mm)*	58.2 / 52.5	
UN homologation (1H1)	Y1.9/200**	Y 1.6/150**

*nominal figures, subject to tolerances

**homologation covers all model liquids, test performance subject to variation per model liquid

***homologation covers multiple highly hazardous goods not to be assimilated with model liquids

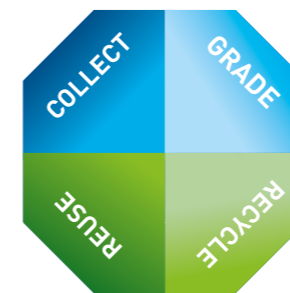


MAUSER L-Ring® PLUS Infinity Series

MAUSER's Infinity Series drums are made of recycled plastic resin from in-house production and certified external suppliers.

Specific advantages

- ▶ Environmentally friendly and sustainable
- ▶ Manufactured from 100% high-quality PCR
- ▶ Standard design, same sizes as drums made of virgin HDPE
- ▶ Available as mono- or multilayer (2- or 3-layer)



L-RING® PLUS INFINITY SERIES

- ▶ Manufactured from 100% high-quality PCR
- ▶ Fits limited range of chemicals only – 1.4 g/cm max. and assimilation to "water" only
- ▶ UN-approved for liquids up to Packing Group II



L-RING® PLUS INFINITY SERIES MULTILAYER 2

- ▶ 2-layer drum with inner layer from virgin HDPE – reduced risk of any potential cross-contamination
- ▶ UN-approved for liquids up to Packing Group II



L-RING® PLUS INFINITY SERIES MULTILAYER 3

- ▶ 3-layer drum with inner and outer layer from virgin HDPE layer to lower potential cross-contamination risks
- ▶ UN-approved for liquids up to Packing Group II



SVR Drums

MAUSER's SVR range of high-quality drums for dangerous liquids are available in various colours. A wide range of sealing caps and gasket materials is available. The drums range in size from 20 to 60 l, all featuring volume indicators.

Robust and reusable, these one-piece blow-molded HDPE containers are extremely stable, making them very easy to stack and return for reuse. Their chemical compatibility will depend on the filling goods. Standard drums come with either two top openings (BCS 56x4 or BCS 70x6) or a single, central bung (BCS 56x4) to facilitate automatic washing. Emptying leaves very little residue. The top ring protects the bung or openings and has built-in grips for easy handling.

Specific advantages

- ▶ UN-approved at the highest performance level (X/300)
- ▶ One footprint, three volumes
- ▶ Dimensions compatible with ISO containers

Characteristic features

Body: Extruded HDPE – heavy design for maximum rigidity

Standard color: Translucent (natural)

Options: EPDM or FKM gaskets, prepared for RFID tag and dispensing system integration, degassing closures, fluorination for better solvent and hydrocarbon barrier properties



Technical features

Nominal volume (l)	30	50	60
Brimful volume (l)	34	56	63
Weight (g)	2800*	3600*	3900*
Diameter (mm)	380	380	380
Height (mm)	400	605	665
Closure	BCS 56x4 / BCS 56x4, BCS 70x6 / BCS 70x6**		
Palletising 800x1200 (pcs per layer)	6		
Palletising 1000x1200 (pcs per layer)	8		
Palletising 1140x1140 (pcs per layer)	9		
UN approval	X1.4/300*	X1.4/300*	X1.4/300*

Footnote: Nominal figures, subject to tolerances *applies to standard; may differ with specific versions
** BCS 56x4 as one-time centered bung available on request



Tight Head Drum Specialties

Five models originally designed by MAUSER for the North American market.

L1 TIGHT HEAD CONTAINERS

- ▶ Industry standard in the US
- ▶ Top level of performance and value



SMALL TIGHT HEAD DRUMS

- ▶ Capacity of 15 to 20 gallons
- ▶ Easily stackable
- ▶ ISO-compliant



VANGUARD OPEN-TOP DRUMS

- ▶ Specially developed for the US chemical industry
- ▶ The shape enables them to be handled and transported just like their steel and fiber equivalents



DELCON EC

- ▶ Classic extruded D-ring design for excellent material handling
- ▶ Bottom handle for easy use
- ▶ Flat head ideal for labelling
- ▶ Cap protection for secure shipping



20 AND 30 GALLON NESTABLES

- ▶ Molded-in stacking stops for easy de-nesting
- ▶ Interlocking top and bottom design for excellent stack strength and stability
- ▶ Metal locking band, optimum handling



Open Head Drums

MAUSER O-Top®

Another family of top-quality MAUSER products that are the industry-wide standard. Produced to meet demanding technical requirements, they are the perfect solution for clean, economical handling of any hazardous liquids or solids.

Specific advantages

- ▶ Blow-molded from multiple carefully sourced HDPE plastics for maximum reliability
- ▶ Uniform manufacture on MAUSER machinery in multiple locations to maximise security of supply and minimise transport distances
- ▶ Efficient design, with separate lid and powerful closure for easy filling, sealing, opening, and emptying
- ▶ Highly stable even when stacked, easy to clean, and available with fixed or removable handles
- ▶ DIN EN ISO 20848-1 compliant, some models also food-safe
- ▶ Covers a wide range of UN homologation levels, from fit-for-purpose to high-performance
- ▶ Made only from dedicated and carefully selected HDPE materials

Characteristic features

Body: Extruded HDPE

Standard color: Drum: blue (RAL 5010), Closures: white

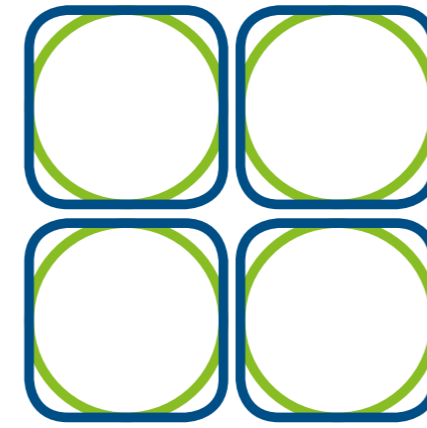
Closure systems: Injection-molded MPS covers made from stress-/crack-resistant HDPE, gaskets made from PU foam or EPDM sponge rubber, zinc-coated clamping ring

Options: Various colours and bung closures available, venting, LDPE liners

Technical features

	Standard – Fit-for-purpose			
Nominal volume (l)*	60	120	150	220
Brimful volume (l)*	65	130	160	225
Body weight (kg)*	2.0	4.0	4.7	7.0
Diameter (mm)*	400	496	504	585
Height (mm)***	616/625	790/800	955/965	975/983
Closure	S320	S400	S400	S480
UN homologation (1H2)***	X74/S	X161/S	Y215/S	X287/S

	Special – High-performance				
Nominal volume (l)*	30	60	120	150	220
Brimful volume (l)*	33	65	130	160	225
Body weight (kg)*	1.3	2.5	4.5	5.2	7.5
Diameter (mm)*	313	400	496	504	585
Height (mm)***	512/522	616/625	790/800	955/965	975/983
Closure	S280	S320	S400	S400	S480
UN homologation (1H2)***	X61/S	X88/S	X225/S	X278/S	X318/S



Squared and slim MAUSER O-Top®

One advantage of plastic drums or barrels is their availability in different shapes (e.g. square and rectangular) and sizes, which can boost pallet efficiency and help to lower transport costs.

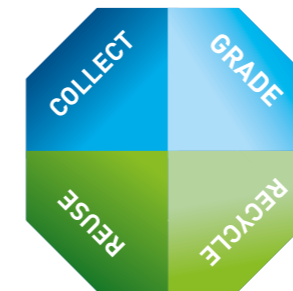


O-Top® Infinity Series

MAUSER's Infinity Series plastic drums, UN-approved for solids up to Packing Group 1, are made from 100% recycled PCR from in-house production and certified external suppliers, making them environmentally friendly and sustainable. They are available in the same sizes as drums made of virgin HDPE.

Specific advantages

- ▶ Environmentally friendly and sustainable
- ▶ Manufactured from 100% high-quality PCR
- ▶ Standard design, same sizes as drums made of virgin HDPE
- ▶ Available as mono- or multilayer (2- or 3-layer)



O-TOP® INFINITY SERIES

- ▶ Manufactured from 100% high-quality PCR
- ▶ Fits limited range of chemicals only - 1.4 g/cm max. and assimilation to "water" only
- ▶ UN-approved for liquids up to Packaging Group II



O-TOP® INFINITY SERIES MULTILAYER 2

- ▶ 2-layer drum with inner layer made from virgin HDPE-reduced risk of any potential cross-contamination
- ▶ UN-approved for liquids up to Packaging Group II



O-TOP® INFINITY SERIES MULTILAYER 3

- ▶ 3-layer drum with inner and outer layer made from virgin HDPE layer to lower potential cross-contamination risks
- ▶ UN-approved for liquids up to Packaging Group II





Jerrycans & Fassetts

MAUSER understands your need for durable, impact-resistant packaging that can deliver valuable liquids safely to end users. Our customisable packaging solutions help companies around the world keep their people safe, their products flowing and their brand front and centre.

Stack It Better with Jerrycans and Fassetts

While all MAUSER jerrycans offer ideal features for liquids, our Fasset is purpose-built for high filling weights and high stacking requirements. It's dimensions fit Euro pallets and other standard pallets, and both models are UN-approved for a variety of liquid products.

A More Sustainable Solution

To help customers reduce their environmental impacts and get more life out of their packaging, MAUSER tight head containers, jerrycans and Fassetts can all be reconditioned and recycled.

Application	Volume in litres
Industrial jerrycan	6, 10, 20, 22, 25, 30, 60
Lube oil jerrycan	20
Agrochemical jerrycan	3, 5, 10, 20

Optionally UN-approved, design and colour can be tailored to meet specific requirements.

The wide range of available closures includes:

- ▶ DIN and venting caps
- ▶ Tamper-evident caps
- ▶ Special closures with spouts
- ▶ K50 screw caps for induction-sealed bottles

The designs of cans and bottles can include numerous special features such as:

- ▶ A level indicators and scales
- ▶ Embossing
- ▶ Silk screen printing, to accommodate in- or offline labelling or shrink- and stretch-sleeving



Specific advantages

- ▶ Blow-moulded with high-density polyethylene
- ▶ Mostly UN/DOT-approved for Y and Z regulations
- ▶ Fluorination is available
- ▶ Colours: White and natural, custom colours available
- ▶ Recyclable
- ▶ D-handles and integrated handles are offered

Hobbocks & Pails

High-performance hobbocks & pails

MAUSER pails and hobbocks are made from an innovative polymer blend to resist stress cracks and withstand very low temperatures.

They are durable, portable, and safe, and they guarantee optimal performance for a wide range of highly demanding filling goods in the automotive, consumer, construction, chemical, lubricant and fuel, painting and coating, food and beverage, pharmaceutical, and cosmetics industries.

Hobbocks and pails are available in different types and volumes. There are standard non-UN and UN-approved models, optionally with liners available. The IP18 will be also available in a PCR-Version.

-  **SILICONES**
-  **GREASES**
-  **ADHESIVES**
-  **PAINTS**
-  **SEALING COMPOUNDS**



Industrial Pails and Hobbocks for Highly Demanding Filling Goods

Deep Temperatures

For global logistics at low temperatures



Stress Cracking Resistance

Due to unique high-end polymer blend

Cleanliness

Optionally with liners

Dangerous Goods

UN approvals optional for hobbocks and pails



Product range Hobbocks (IH) and Pails (IP)

	IP 5	IP 15	IP 18	IH 21.5	IH 30
Size	5 kg	15 kg	18 kg	21.5 l	30 l
Filling volume	5 l	15 l	20 l	21.5 l	30 l
Inner diameter	19.5 mm	273.5 mm	289 mm	282 mm	330.5 mm
Inner diameter (bottom)			266 mm		314 mm
Outer diameter	200 mm	284 mm	312 mm	305 mm	350.5 mm
Outside height	255 mm	359 mm	375 mm	364 mm	404 mm
Optionally licensed for			UN 1H2/Z24/S	UN 1 H2/Y30/S	UN 1H2/Z42/S

Specific advantages

- ▶ Suitable for a wide range of filling goods, including types of grease, silicone, paint, sealant, and adhesive (manual or automated filling)
- ▶ No risk of contamination, metal abrasion, corrosion, or stress cracks
- ▶ Easy filling, closure, handling, and dosage
- ▶ Safe closure through clamping ring
- ▶ Stable stacking
- ▶ Smooth inner walls enable complete emptying
- ▶ Ready to integrate into the existing supply chain

Characteristic features

- ▶ Optimal chemical resistance and high physical stability
- ▶ Outstanding temperature impact strength
- ▶ Resistant to deformation and stress cracks
- ▶ Maximum cleanliness (models with disposable inliner and IP18)
- ▶ UN-approved models available
- ▶ Design optimised for storage, industrial use, and safe transportation of dangerous goods



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