



## **MoldTecs coolant expansion tanks**

### **The modular MCR product range**



# The unique modular MCR product range

## Modular Coolant Reservoir (MCR)

MoldTECs has been developing customised coolant expansion tanks for automotive and industrial OEM applications for more than 20 years. We recommend a customised development for customers with high volumes.

For the first time the new product range combines our longstanding expertise in this segment with the technology of modular product families. This means customers with small to medium volumes can now also benefit from tailor made coolant expansion tanks off the shelf.

Using our experience we have used the 20,000 configuration possibilities offered by the MCR modular product range to generate 24 standard products, which are available on stock.



## Why MCR – The market situation

### Customer requirements: no standardisation

Coolant expansion tanks are usually considered at the end of the engine and engine compartment planning and have to be adapted to meet the available space. At the same time they have to be fine-tuned to the respective application and the respective operating conditions. As a result there are no standardised coolant expansion tanks available on the market. The existing options are:

commission a new tank, look for a suitable alternative or design one yourself. These solutions require a compromise in terms of time, costs and quality. The new MCR product range from MOLDTECS combines the advantages of today's market solutions to eliminate these disadvantages.

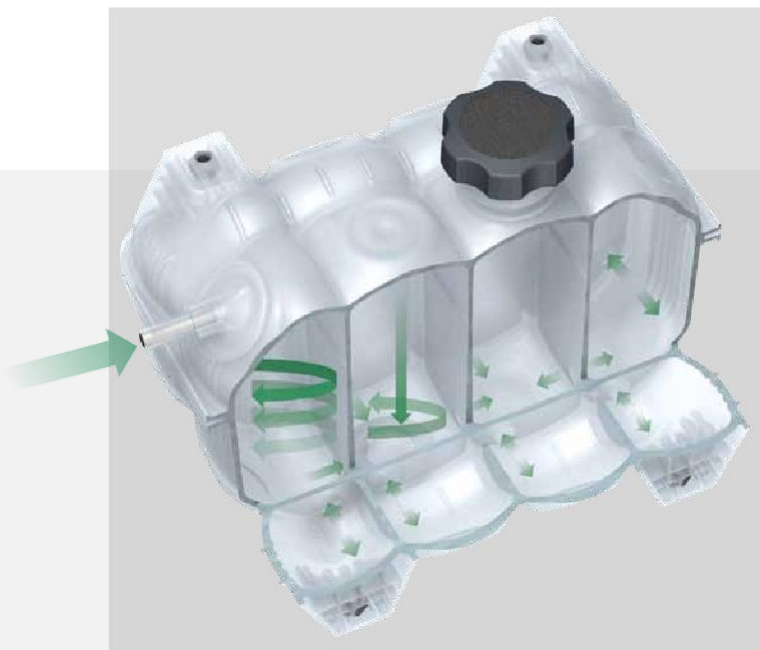
### The advantages of the MCR product range:

- available at short notice (24 standard products on stock)
- no development or tooling costs
- also economic for low volumes
- very good value for money
- excellent flexibility regarding installation space
- easy to fit
- adaptable to special applications
- robust design suitable for heavy duty applications
- proven MOLDTECS quality

## The de-gassing function

### Keeping the air out

The advanced flow configuration of the new MOLDTECS MCR product range avoids the formation of air bubbles in the coolant expansion tank and cooling system. This enables an excellent cooling function which serves to protect the engine.



# MCR – Applications

## Extremely versatile

The MCR product range offers high flexibility with regard to the available installation space and covers a wide range of engine outputs. This makes the MCR product range suitable for almost all machines with combustion engines, e.g. for construction and agricultural machines, stacker trucks, mobile and stationary compressors, etc.



## MCR – Modular system

### 6 tanks sizes from 1.5 to 8 litres

Using a low number of components, the clever modular system is able to generate 6 tank sizes.

The orientation of the tanks enables high installation space flexibility. The tanks can be fitted in a vertical or horizontal position.

### MCR 15 – MCR 35 product range

Basic component 1



Basic component 2



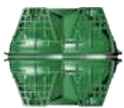











### MCR 36 – MCR 80 product range

Basic component 1



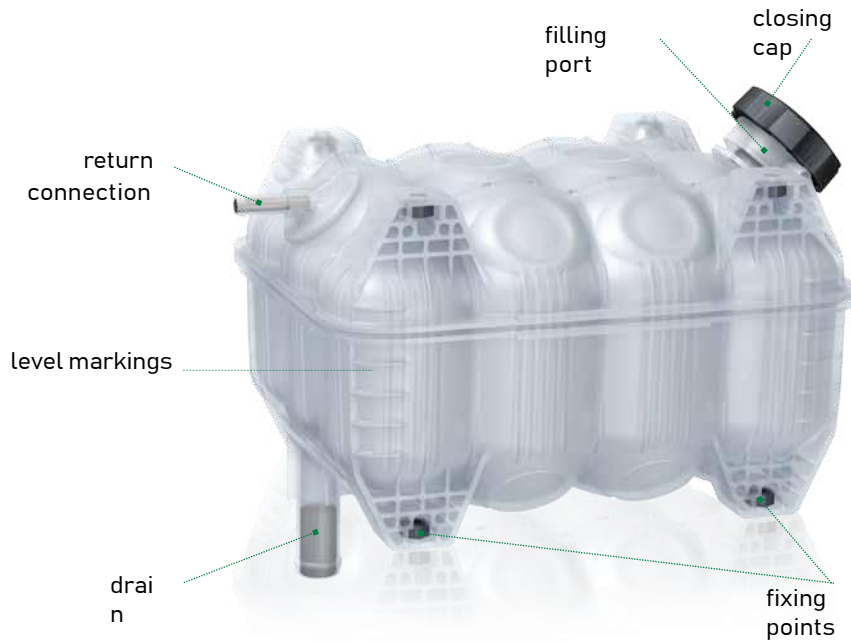
Basic component 2



MCR 15 - MCR 35 product range – volumes: 1.5 to 3.5 litres					
MCR 15 – 1.5 litres		MCR 25 – 2.5 litres		MCR 35 – 3.5 litres	
					
horizontal fitting	vertical fitting	horizontal fitting	vertical fitting	horizontal fitting	vertical fitting
MCR 36 - MCR 80 product range – volumes: 3.6 to 8 litres					
MCR 36 – 3.6 litres		MCR 56 – 5.6 litres		MCR 80 – 8 litres	
					
horizontal fitting	vertical fitting	horizontal fitting	vertical fitting	horizontal fitting	vertical fitting



# MCR – System components



## Option: electronic level sensor

On request the coolant expansion tank can also be equipped with an electronic level sensor.



### Filling port

- integrated overflow
- possibility to attach hose to overflow

### Closing cap

- double ring seal
- vacuum valve
- 1 bar overpressure valve
- cap compensates the expansion volume

### Level markings

- depending on the application and operating conditions, the level markings can be individually defined using MIN and MAX stickers.
- stickers included in scope of delivery
- additional markings on tank for visual inspection of level

### Fixing points

- excellent flexibility and reliable function
- tank can be fitted to flat surfaces in horizontal and vertical position
- up to 4 M8 screws can be used on each tank side
- 8 M8 nuts are supplied

### Drain and return connection

- secure connection between tank and hose
- robust design through integrated metal tubes

## Over 20,000 possibilities – 24 standard products



### 24 standard products

MOLDTECS has 24 standard products available on stock. These versions are based on the most common applications and operating conditions.

### Alternative configurations

The modular product range allows over 20,000 different combination possibilities. Customised variations are available on request. All connections such as filling port, closing cap, drain and return connection can be freely positioned.

# MCR – Complete overview

## MCR 15

10 015 08 S02	10 015 15 S02	10 015 14 S02
10 015 40 S02 *	n/a	n/a



## MCR 25

10 025 00 S02	10 025 02 S02	10 025 01 S02
10 025 06 S02 *	n/a	n/a



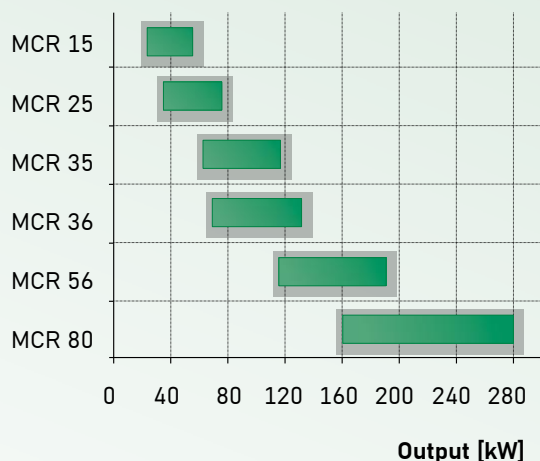
## MCR 35

10 035 00 S02	10 035 12 S02	10 035 11 S02
10 035 30 S02 *	n/a	n/a



## Engine output range

The MCR product range covers engines with outputs up to 280 kW. The required volume of a coolant expansion tank essentially depends on the design of the machine and coolant circuit. MOLDTECS will be happy to advise you on the configuration.



## MCR 36

10 036 00 S02	10 036 02 S02	10 036 03 S02	10 036 04 S02	10 036 05 S02
10 036 27 S02 *	10 036 24 S02 *	10 036 29 S02 *	n/a	n/a



## MCR 56

10 056 00 S02	10 056 01 S02	10 056 02 S02	10 056 03 S02	10 056 04 S02
10 056 09 S02 *	10 056 10 S02 *	10 056 12 S02 *	n/a	n/a

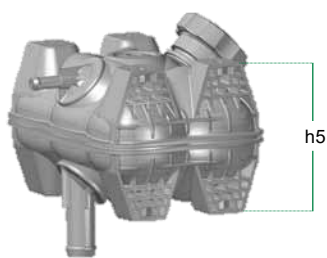


## MCR 80

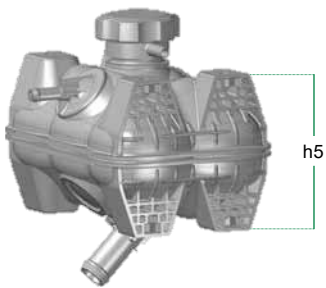
10 080 00 S02	10 080 02 S02	10 080 03 S02	10 080 04 S02	10 080 05 S02
10 080 30 S02 *	10 080 31 S02 *	10 080 33 S02 *	n/a	n/a



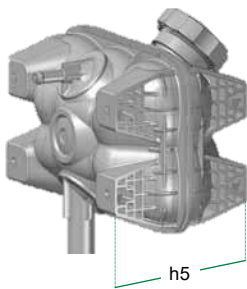
# MCR 15



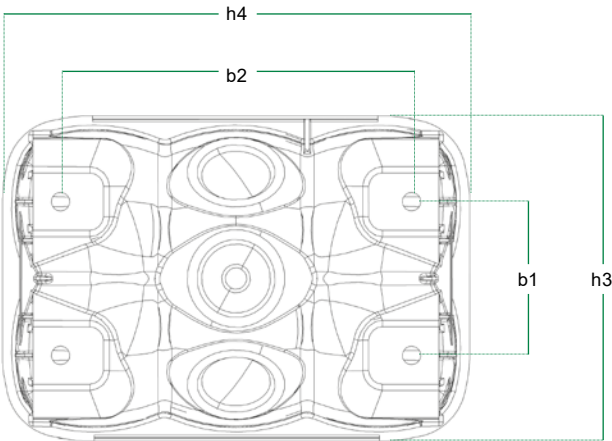
10 015 08 S02



10 015 15 S02



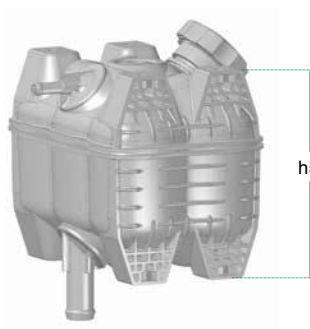
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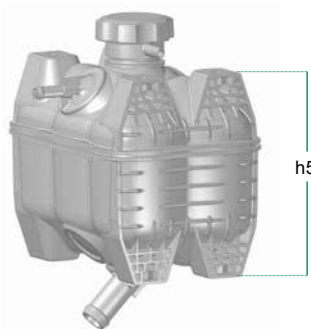
## MCR 15

Order number	Orientation	Volume	b1 (mm)	b2 (mm)	h3 (mm)	h4 (mm)	h5 (mm)	Weight
10 015 08 S02	horizontal	1.5 l	70	160	150	215	115	0.7 kg
10 015 15 S02	horizontal		70	160	150	215	115	
10 015 14 S02	vertical		70	160	150	215	115	

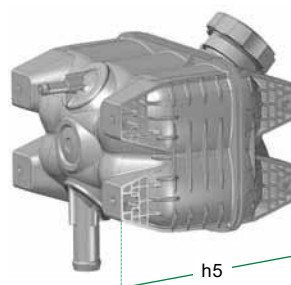
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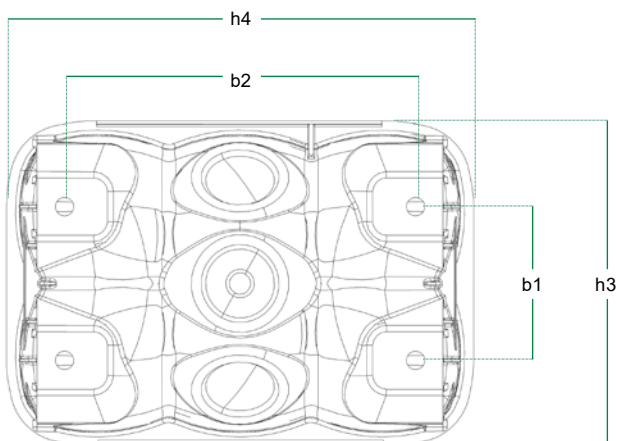
10 025 00 S02



10 025 02 S02



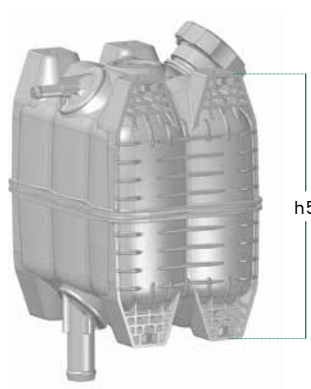
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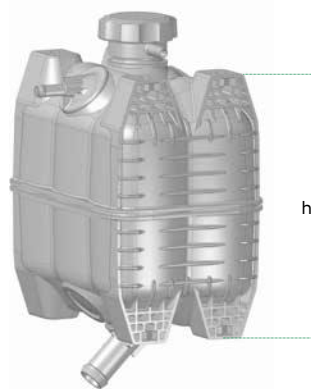
## MCR 25

Order number	Orientation	Volume	b1 (mm)	b2 (mm)	h3 (mm)	h4 (mm)	h5 (mm)	Weight
10 025 00 S02	horizontal	2.5 l	70	160	150	215	171	0.9 kg
10 025 02 S02	horizontal		70	160	150	215	171	
10 025 01 S02	vertical		70	160	150	215	171	

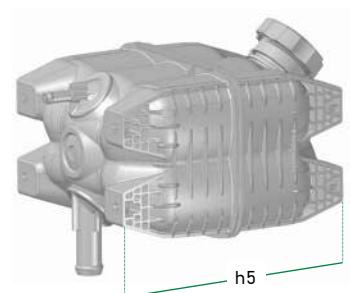
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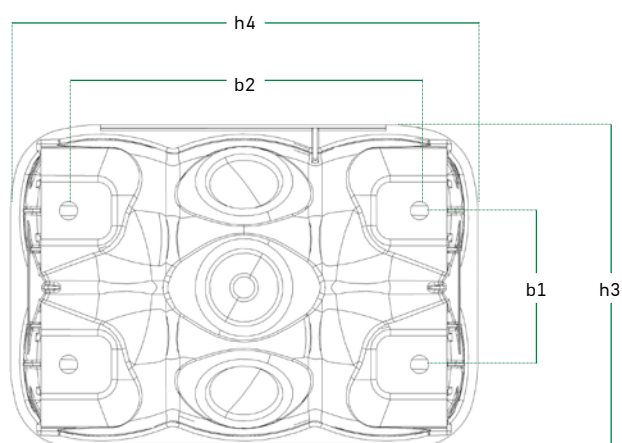
10 035 00 S02



10 035 12 S02



10 035 11 S02



## MCR 35

Order number	Orientation	Volume	b1 (mm)	b2 (mm)	h3 (mm)	h4 (mm)	h5 (mm)	Weight
10 035 00 S02	horizontal	3.5 l	70	160	150	215	220	1.1 kg
10 035 12 S02	horizontal		70	160	150	215	220	
10 035 11 S02	vertical		70	160	150	215	220	



# MCR 36



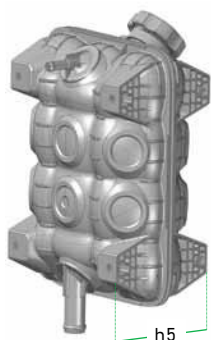
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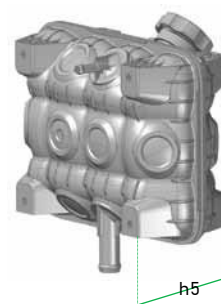
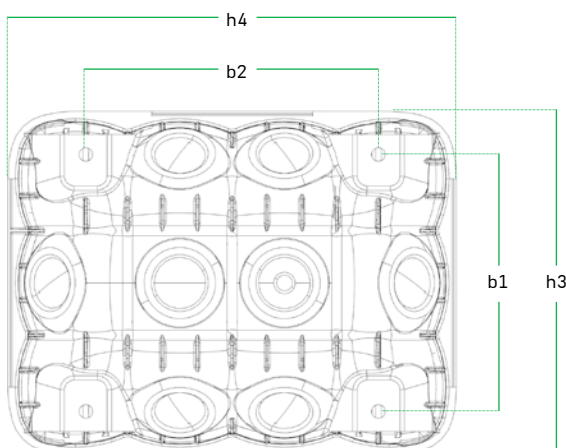
10 036 02 S02



10 036 03 S02



10 036 04 S02



10 036 05 S02

## MCR 36

Order number	Orientation	Volume	b1 (mm)	b2 (mm)	h3 (mm)	h4 (mm)	h5 (mm)	Weight
10 036 00 S02	horizontal	3.6 l	160	182	215	280	122	1 kg
10 036 02 S02	horizontal		160	182	215	280	122	
10 036 03 S02	horizontal		160	182	215	280	122	
10 036 04 S02	vertical		160	182	215	280	122	
10 036 05 S02	vertical		160	182	215	280	122	

# MCR 56



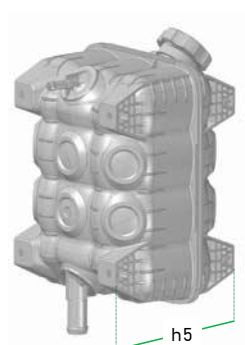
10 056 00 S02



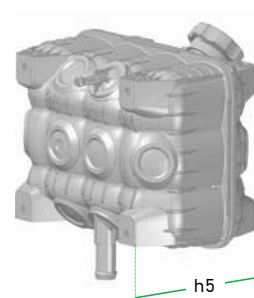
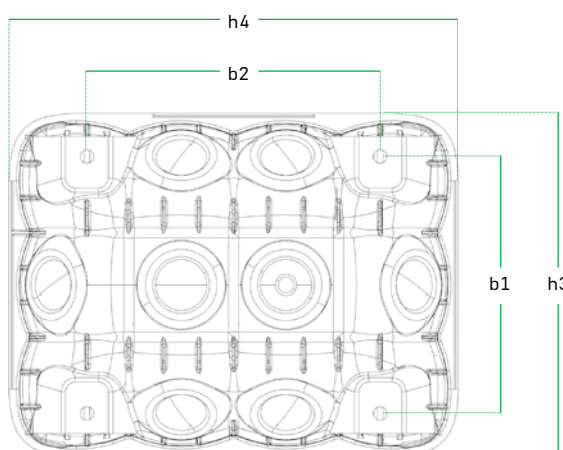
10 056 01 S02



10 056 02 S02



10 056 03 S02

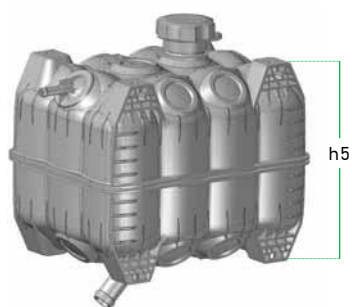


10 056 04 S02

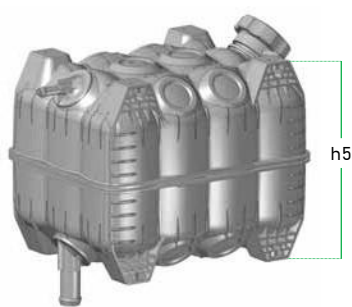
## MCR 56

Order number	Orientation	Volume	b1 (mm)	b2 (mm)	h3 (mm)	h4 (mm)	h5 (mm)	Weight
10 056 00 S02	horizontal	5.6 l	160	182	215	280	171	1.3 kg
10 056 01 S02	horizontal		160	182	215	280	171	
10 056 02 S02	horizontal		160	182	215	280	171	
10 056 03 S02	vertical		160	182	215	280	171	
10 056 04 S02	vertical		160	182	215	280	171	

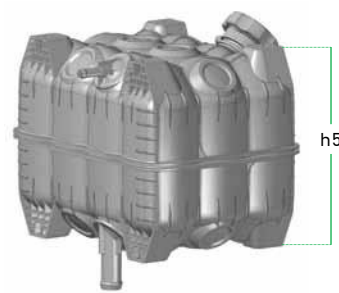
# MCR 80



10 080 00 S02



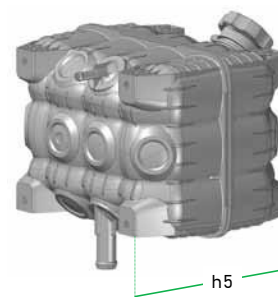
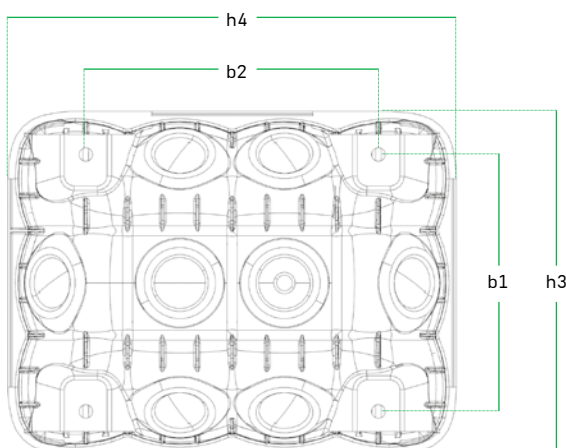
10 080 02 S02



10 080 03 S02



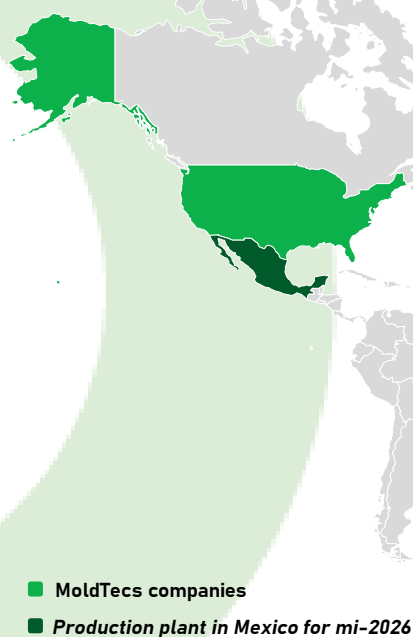
10 080 04 S02



10 080 05 S02

## MCR 80

Order number	Orientation	Volume	b1 (mm)	b2 (mm)	h3 (mm)	h4 (mm)	h5 (mm)	Weight
10 080 00 S02	horizontal	8 l	160	182	215	280	220	1.6 kg
10 080 02 S02	horizontal		160	182	215	280	220	
10 080 03 S02	horizontal		160	182	215	280	220	
10 080 04 S02	vertical		160	182	215	280	220	
10 080 05 S02	vertical		160	182	215	280	220	



■ MoldTecs companies

■ Production plant in Mexico for mi-2026

## MOLDTECS Group

The MOLDTECS Group is an international company and employs 1500 people at 10 locations worldwide.

The group develops, produces and distributes innovative technical components and systems for the automotive industry and many other industrial fields.

The group's head office is located in Laval and includes two other German production sites in Bad Harzburg and Sonneberg. MOLDTECS is an international group but is developing globally with the creation of sites in China, Mexico, Japan, USA, Brazil, South Korea and India.

We are an international automotive supplier with a global footprint, supplying high-performance plastic parts to OEMs across the world. Our vision is to enable with our products and innovations the mobility. MoldTecs is a French group that was created on October 1, 2022

following the acquisition of the non-filtration part of MANN+HUMMEL by the Mutares group.

### High-performance plastic part

It's a company specialized in the manufacture of high performance parts for the automotive industry.



**MOLDTECS** · Manufactured of high performance plastic parts  
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