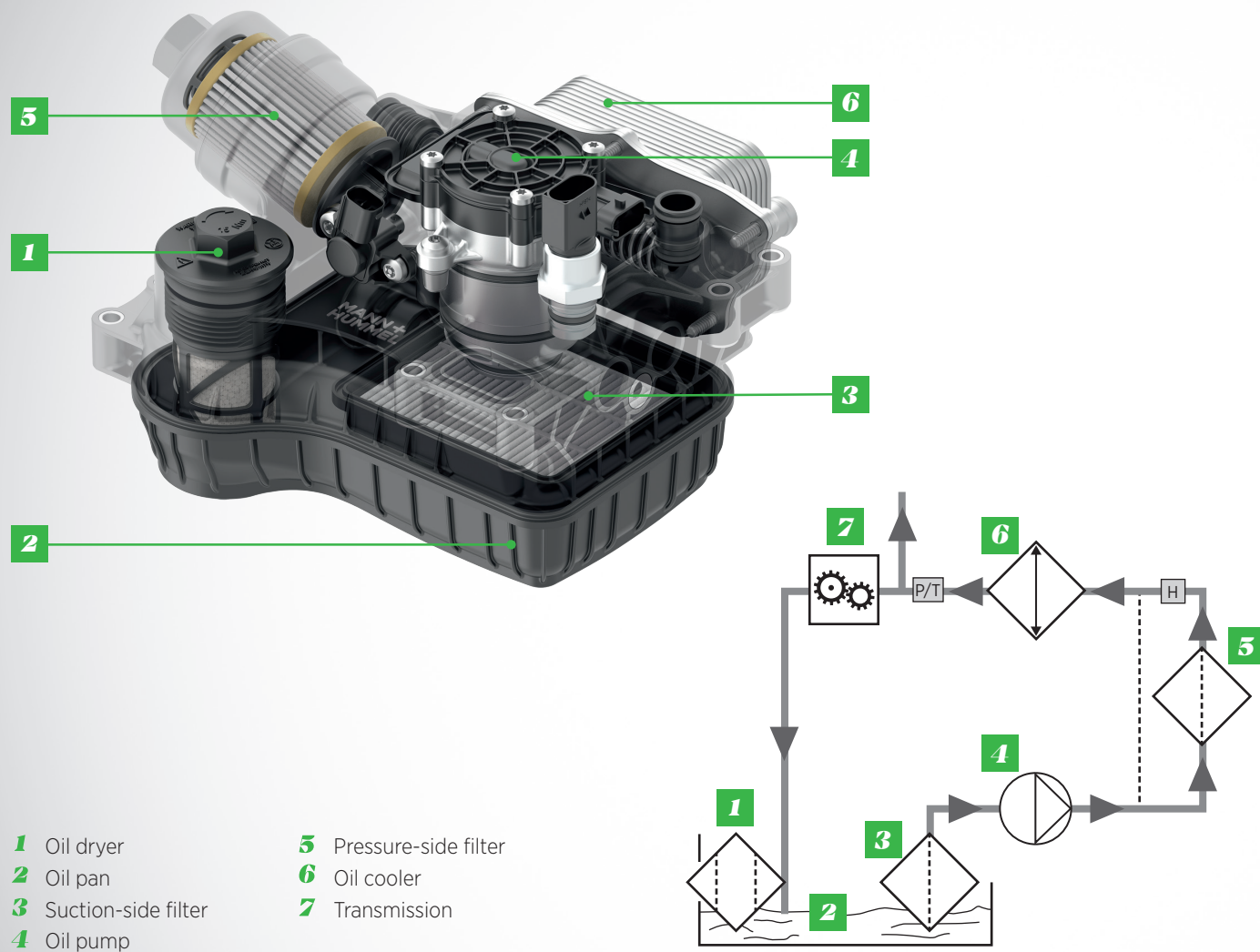


## Oil filtration solutions for transmissions and eAxles

- ✓ Innovative
- ✓ Compact
- ✓ Multifunctional



## Oil filter system for eAxles and hybrid transmissions for best oil cleanliness and optimal oil control



### Long-term experience

MANN+HUMMEL is a technology leader for decades in the field of highly functional integrated oil filter systems for internal combustion engines.

This know-how is transferred to new applications such as eAxles and hybrid transmissions.

Function integration enables compact design with means of simulation, pressure-loss optimization and plastic processing. Furthermore, an acoustically optimized design and additional function integration such as defoaming and oil drying is possible.

### Concept advantages

#### Oil supply management

Oil supply for transmission, e-motor and / or battery cooling.

#### Oil lifetime

Modular system of perfectly matching suction- and pressure-side filter.

#### Conductivity

Oil drying by reduction of water in oil.

#### Service

Easy and clean change of oil dryer and pressure-side filter element.

#### Thermal management

Control of oil flow through cooler and bypass of cooler depending on oil temperature.

## MULTIGRADE filter media for innovative drivetrains

### MULTIGRADE eM-CO

#### System reliability

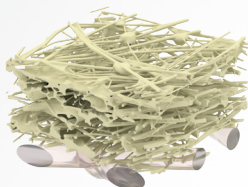
Synthetic filter media with high chemical resistance.

#### System security

No bypass in filter media for best particle separation starting from the first second.

#### Energy efficiency

Ideal spacing of the pleats by drainage grid provides low differential pressure under all conditions.



### MULTIGRADE O-G

#### Filtration efficiency

Glass fiber filter media with highest filtration efficiencies for best oil cleanliness.

#### Installation space

Perfectly matching multilayer set-up for high dust holding capacity.

#### Media stability

Grid support offers highest pleat stability on the pressure-side.



## Suction- and pressure-side filters for efficient system protection

### Suction-side transmission oil filter

An installation space of only 20 millimeters is enough to enable the use of proven pleating technology. The pleated filter with MULTIGRADE eM-CO multiplies the freedom of design for the customer:

#### Smaller installation space

with the same filter area or,

#### Maximum service life

by larger filter area in the same installation space or,

#### Lower differential pressure

for reduction of pump drive power in the same installation space.



### Pressure-side transmission oil filter

#### Filtration efficiency

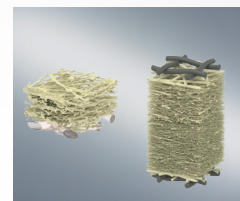
MULTIGRADE O-G to protect complex and sensitive transmission systems.

#### Flexible design

Standalone solutions or matching combination with suction-side filter.

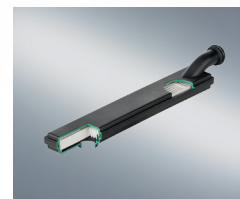


Decades of mass production experience with transmission oil filters and plastic oil filter systems.



### MULTIGRADE filter media

Synthetic or glass fiber filter media for optimum protection of transmissions and eAxles



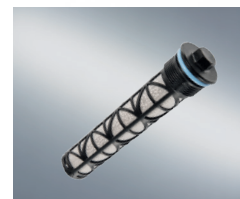
### Suction-side transmission oil filter

Pleated filter media for efficient filtration and system protection



### Pressure-side transmission oil filter

Highest oil cleanliness for complex and sensitive systems



### Coolant dryer cartridge

Protection against water and ice in direct-cooled systems

### Oil filter system for eAxles and hybrid transmissions

High level of functional integration for compact packaging, best oil cleanliness and optimal oil control



## MANN+HUMMEL Contact

### **Sales**

Julian Eisele

Global Brand Manager E-Mobility / New Products

[julian.eisele@mann-hummel.com](mailto:julian.eisele@mann-hummel.com)

Phone: +49 7141 98-3628

### **Engineering**

Claudia Wagner

Senior Expert Transmission and Hydraulic Filters

[claudia.wagner@mann-hummel.com](mailto:claudia.wagner@mann-hummel.com)

Phone: +49 7141 98-3596



**Open the website for more information about transmission oil filters.**



**Watch the video of the transmission oil filter.**