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**Reliable high performance filter system since 1992**  
EXPO2000 project • environmental awards • patented product  
Safe lubrication and lower friction • save oil, fuel and money!  
3 years warranty • 10 years product liability • take part – get it!

## Technical data Trabold Filter Systems

USE/Typ	Filter grade 10	Filter grade 20	Filter grade 30
<b>Internal combustion engines</b>	up to 16 l (4 gls) oil volume	16-40 l (4 -11 gls) oil volume	above 30 l (8 gls) oil volume
<b>Hydraulics systems</b>	up to 120 l (31.7 gls)	120-500 l (31-130 gls), above this range types 20 connected parallelly	
<b>Oil heaters</b>	up to 4 l (1gl)/min	up to 6 l (1.5 gl)/min	up to 8 l (2 gls)/min
<b>Measures</b>			
<b>Sizes of the filter case (without junction)</b>	130 mm length/about 120 mm Ø	230 mm length/about 120 mm Ø	330 mm length/about 120 mm Ø
<b>Sizes of the filter cartridge</b>	100 mm length/about 80 mm Ø	200 mm length/about 80 mm Ø	300 mm length/about 80 mm Ø
<b>Weight</b>	1600 g	2500 g	3450 g
<b>Filter throughput</b>	1 - 5 l/min, depending on the oil viscosity	2 - 6 l/min, depending on the oil viscosity	2 - 6 l/min, depending on the oil viscosity
<b>Oil consumption</b>	about 0.4 l (0.1gl)	about 0.8 l (0.2gl)	about 1.2 l (0.3gl)
<b>Price (net)</b>			
<b>Filter</b>	€ 309,25	€ 468,91	€ 569,75
<b>Cartridge</b>	€ 10,84	€ 17,56	€ 24,28

<b>Technical Details</b>	
<b>Material of the case</b>	Continuously extruded casting; excellent quality oxidized aluminum, Viton sealing
<b>Material/design of filter cartridge</b>	Helically wound filter paper (cellulose) around central sleeve
<b>Mounting</b>	Engine: shunt circuit Hydraulics: shunt or main circuit Oil heater: main circuit
<b>Filter functions</b>	Physical cleaning of the oil and its simultaneous cooling through the case cooler fins
<b>Filtering performance ISO qualification, according to the WEARCHECK GmbH, Brannenburg, 28 September 1993, laboratory report No 1101/13535/36</b>	Water absorption, high filtering power of solid particles down to 0.1 µm; medium range: 1 µm. TRABOLD filter corresponds to the prescriptions of the ISO/DIS 4406 NORM 11/8. standard. Achieving this qualification, the filter can operate at a cleaner output of the average commercial quality. The water take-up capacity of the grade10 filter cartridge under operational conditions is 60 - 100 g. The water absorption of larger filters varies in proportion with the volume
<b>Mode of filtering</b>	High-power filtering with radial and axial mode; both flow directions combined; using the whole filter cartridge, the filter volume is minimized.
<b>Inlet pressure</b>	Minimum pressure = 0.5 bar, maximum pressure - filter cartridge is compressed only slightly even at 400 bar. Filter case can be loaded steadily up to 20 bar, and max. 30 bar pressure peaks are allowed.
<b>Pressure reduction in engine</b>	According to tests, the pressure in the engine does not decrease because the oil pump has adequate reserve capacity.
<b>Changing the filter cartridge</b>	In engines: every 10,000 - 30,000 miles, or equivalent operation time; in hydraulic or oil-heater systems: with a frequency depending on the equipment and contamination.
<b>Time of filter cartridge change</b>	5 - 10 minutes.