



Maximum performance in grinding oil filtration

PRECISION ASSURED:

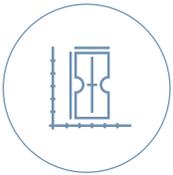
Our ultra-fine filter system solution for

Grinding oil optimizes

your tool production at the highest level

MANTA: Precise solutions for clean grinding oil

Fine particles and contaminants in your grinding oil can cause significant problems including:



Reduced precision: The presence of fine particles can affect the precision of your machining processes and lead to inaccuracies in the final product.



Shortened tool life: Fine particles and impurities in the abrasive oil accelerate the wear of tools, resulting in a shortened service life. This not only increases operating costs, but also requires more frequent tool changes, which affects productivity and can lead to additional downtime.



Surface quality issues: Unwanted particles can affect the surface quality of your products, resulting in an inferior appearance and possible quality issues.

In today's demanding manufacturing environment, the quality of your products is critical. Our MANTA ultra-fine filter systems are designed to clean your grinding oil at a microscopic level to maximize the performance and life of your precision tools.



- Equipped with two machine supply pumps as standard
- Filtration performance of 1-2 μm
- Constant oil temperature control at a preset level



Our MANTA F120 system uses the most modern technologies to clean your grinding oil and optimize your grinding processes. By removing particles down to one micrometer and maintaining a constant temperature, we contribute to an optimal grinding process.

F120

Our system not only excels with its unrivaled quality, but also with its unbeatable cost-effectiveness. Using state-of-the-art technology, it ensures ultra-fine filtration down to one micrometer, optimizes precision and tool performance, extends the service life of machines and tools and ensures outstanding surface quality.

Choose our system to achieve the highest standards in grinding oil filtration while operating efficiently.

| SMALL SIZE |

F-40 F-80 F-120



Precision, longevity and efficiency:

Our filter system optimizes machining processes, extends machine life, ensures surface quality and increases overall efficiency. The highest quality standards guarantee reliable manufacturing processes.



Fine filter system F120 filter bag version

- Filter performance: 120 liters per minute
Minimum oil content: 600 liters reference value, the pipes and the distance/s must also be taken into account
Filtration level: 1-2 μm
Filter elements: 62 pieces
Filter Performance: Filters and cleans the oil from metal and grinding wheel abrasion
- Compressed air requirement: More than 6 bar compressed air, flow rate more than 20CFM
Power requirements: 50Hz, 380V, 8-10kW
Dimensions: 1600x1100x1400
· 1 filter bag included
· 2 machine supply pumps included
- Cooling system:** max. temperature deviation of the coolant $\pm 0.5^\circ$
Dimensions: 600x690x1340, 7kW, 155 kg



Filterbag

Fx240

**For higher demands – the powerful MANTA Fx240 fine filter system.
Maximum efficiency, outstanding filtration performance and robustness
for unsurpassed cooling and filtration of your grinding oil.**

The MANTA Fx240 ultra-fine filter system sets new standards in grinding oil cleaning. With a precise filtration accuracy of 1-2 μm , it not only provides efficient particle removal but also ensures constant temperature control for optimal grinding conditions. The double machine supply pump guarantees reliable performance, even in demanding production environments.

With MANTA Fx240 you not only maximize the life of your tools by preventing premature wear, but also improve the surface quality of your products. By minimizing contamination, this system not only increases the efficiency of your grinding processes, but also ensures first-class quality in your production. Choose MANTA Fx240 for unmatched precision and reliability in grinding oil filtration.



| BIG SIZE |

FX-240 - FX-1200



Cooler

Fine filter system FX240 with sedimentator

Filter performance: 240 liters per minute
Minimum oil content: 1000 liters reference value, the pipes and the distance(s) must also be taken into account
Filtration level: 1-2 μm
Filter elements: 124 pieces
Cooling: 12 kW
Filter Performance: Filters and cleans the oil from metal and grinding wheel abrasion
Compressed air requirement: 6 bar compressed air
Power requirements: 50Hz, 380V, 8-10kW
Dimensions: 2000x1798x1605
· 2 machine supply pumps included
· 1 sedimentator included
A barrel for storage is recommended.
Ejection of the filter material with a residual moisture of 5-10%

Cooling system: max. temperature deviation of the coolant $\pm 0.5^\circ$
Dimensions: 700x750x1361, 12kW, 207 kg



Sedimentator

Details

Our filter systems are characterized by precision, longevity and efficiency. They optimize machining processes and meet the highest quality standards to ensure reliable production.

| COMPLEX
SYSTEM |



MANTA Fx240 – your solution for challenging production environments.

In the middle of the general difficulties in production, this ultra-fine filter system sets new standards.

1-2 μm

Their precise filtration (1-2 μm) and double machine supply pump make them a reliable answer to the demands of difficult production conditions.

**Rely on MANTA Fx240
for precision and performance
in every respect.**



MANTA Fx240: First-class solution for demanding production environments.

With precise filtration (1-2 μm) and double machine supply pump, it successfully overcomes the challenges. Invest in MANTA Fx240 for precision and performance in grinding oil filtration.

Inside

HSS Filter

| MODERN
LOOK |



MANTA ultra-fine filter system HSS filter

Welcome to the compact HSS filter - the optimal solution for powerful filtration without compromise. This cost-effective product impresses with its effectiveness in cleaning the finest HSS particles. Learn how this innovative filter technology combines top performance and compactness to meet your demands for efficiency and cost-effectiveness.

MANTA

microfilter



Precision, longevity and efficiency are the cornerstones of our filter system. This approach also continues with the HSS filter, which precisely filters the finest particles. Rely on the fact that with our HSS filter you can optimize your manufacturing processes with peak performance.

Compact, effective, innovative. The compact HSS filter cleverly masters the challenges of fine, clumping HSS particles. It saves space and is cost-efficient. Reliable filtration without compromises.





Here you can find all our models:

Description	F-40	F-80	F-120	FX-240	FX-360
Filter performance	40 L/m	80 L/m	120 L/m	240 L/m	360 L/m
Filter bag	Including 1 filter bag	Including 1 filter bag	Including 1 filter bag	Including sedimentator	Including sedimentator
Size	1000*750*1450 mm	1350*750*1353 mm	1600*1100*1400	2000x1798x1605 mm	2300*1700*1800 mm
Filter candles	16	37	62	124	186
Amount of oil required	200L	400L	600L	1000L	1600L
Cooling	4 kW	7 kW	7 kW	12 kW	12 kW
Size	400*420*900 mm	600*690*1390 mm	600*690*1390 mm	700*750*1361 mm	700*750*1361 mm
Tolerance	± 0.5°	± 0.5°	± 0.5°	± 0.5°	± 0.5°
Machine pump data	30L min 6bar	60L min 6bar	80L min 6bar	80-100L min 6bar	80-100L min 6bar

Description	FX-480	FX-720	FX-960	FX-1080	FX-1200
Filter performance	480 L/m	720 L/m	960 L/m	1080 L/m	1200 L/m
Filter bag	Including sedimentator				
Size	2594x1804x1947 mm	3500*1850*1800 mm	4000*2350*1800 mm	4200*2350*1800 mm	4500*2350*1800 mm
Filter candles	248	372	496	558	620
Amount of oil required	2000L	2800L	3600L	4000L	4400L
Cooling	20,1 kW	20,1 kW	30,3 kW	30,3 kW	40,2 kW
Size	1470*710*1600 mm	1470*710*1600 mm	1850*910*1700 mm	1850*910*1700 mm	1470*710*1600 mm 2PCE
Tolerance	± 0.5°	± 0.5°	± 0.5°	± 0.5°	± 0.5°
Machine pump data	80-100L min 6bar				

Contact us now to find out more about MANTA and our ultra-fine filter systems. We look forward to your inquiry and are ready to give you the best advice.

NOX Machines + Services

Inhaber Josef Greff

Wilhelmstrasse 115

72461 Albstadt

Germany

Tel: +49 7432 90 713 12

Fax: +49 7432 90 713 25

Email: info@nox-ms.de

