



**turbo**<sup>®</sup>  
PRECLEANER

# 2025 PRODUCT CATALOGUE

Construction industry • Mining • Forestry • Waste management • Agriculture • Materials management

[WWW.KRONE-FILTER.DE](http://WWW.KRONE-FILTER.DE)



Krone Filtertechnik GmbH  
Herbert-Ludwig-Str. 12-14  
28832 Achim, Germany  
Telephone: +49(0)4202.9769-0  
Internet: [www.krone-filter.de](http://www.krone-filter.de)  
Email: [info@krone-filter.de](mailto:info@krone-filter.de)

  
**Krone**  
Filtertechnik



**TURBO® II PRECLEANER**



**TURBO® II BULLNOSE PRECLEANER**



**TURBO® III PRECLEANER**



**TURBO® III FLEX-N-LINE™**



**TURBO® POWER RAM™**



# turbo<sup>®</sup>

PRECLEANER

Over 40 years of unrivalled engine protection from American production.



## WHY TURBO<sup>®</sup> PRECLEANER?

### Extends the service life of the engine air filter

The unique design prevents micro-abrasion from entering the machine's engine.

### Original "top-down" airflow design

turbo<sup>®</sup> precleaners feature aerodynamically shaped, overlapping blades that cause the incoming air to move in a circular motion, separating dust and dirt from the air due to centrifugal forces. The contaminants are then thrown down the wall of the main chamber and into the blower chamber, where the high-speed centrifuge drives the dirt to the outlet openings at the bottom of the device, so that only the cleanest possible air is fed to the filter element.

Competitors typically use "REVERSE AXIS" designs, in which air is drawn in through the bottom of the unit and must make a 180° reversal, resulting in additional losses and reducing motor performance. Additional losses at the motor mean that the motor filter must be replaced more frequently.

### Wide volume flow range (cubic feet per minute) for every machine

turbo<sup>®</sup> precleaners are manufactured in a variety of sizes and cover an extensive volume flow range that is suitable for most machines on the market today.

### A complete range of sizes

Each turbo<sup>®</sup> precleaner is available in different sizes to suit different engines. Further information is available in this online comparison table.

### Self-sufficient and self-cleaning

You have a job to do. You shouldn't have to worry about recharging or maintaining parts. turbo<sup>®</sup> precleaners are self-cleaning and require no external power supply or recharging.

### Extends the service life of the engine

turbo<sup>®</sup> precleaners extend the service life of your engines by significantly reducing engine wear. It is the preferred pre-separator for machine operators in the dustiest, dirtiest and most adverse environments.

### Promotes maximum engine performance

turbo<sup>®</sup> precleaners are essential for ensuring effective, clean engine ventilation for maximum efficiency and the best possible power delivery.

### Reduces costly downtime

turbo<sup>®</sup> precleaners protect your engine from foreign particles down to one micrometre in size. Maximum protection means little to no downtime.

### Easy installation, multiple mounting options

turbo<sup>®</sup> precleaners can be installed or clamped in a matter of minutes and do not require complicated installation or special tools.

### Strong performance, backed by warranty

turbo<sup>®</sup> precleaners come with a 2-year warranty, and the internal centrifugal assemblies are covered by a lifetime warranty. It is the pre-separator of choice for original equipment manufacturers, plant owners and operators worldwide due to its effectiveness and durability.

### Rigorously tested, manufactured in the U.S.

turbo<sup>®</sup> precleaners are manufactured in the United States and tested in accordance with SAE J726 and ISO 5011 industry standards.

# FIND THE RIGHT TURBO® FOR YOU



To accurately determine the appropriate turbo® for a specific make or model of diesel or petrol engine, you must first calculate the volume flow in cubic feet per minute (C.F.M) for that engine. When making this calculation, it is important to note that any change in speed (rpm) (revolutions per minute) or the installation of a turbocharger can change the speed of the engine.

## 4-STROKE ENGINES

$$\text{Volume flow (cubic feet/min)} = \frac{\text{RPM x displacement (in inches, cubic inches)} = \text{Volumetric efficiency}}{3456}$$

## VOLUMETRIC EFFICIENCY OF DIESEL ENGINES

naturally aspirated = 0,85

turbocharged = 1,85

(intercooled/aftercooled)





## TURBO® II PRECLEANER

For the toughest environments, day in, day out.

The turbo® II performs its task under the toughest conditions, day in, day out. Its unique design prevents micro-fine abrasive dust from entering the machine's engine, ensuring cleaner air in the engine and thus a longer engine service life. turbo® II is the industry standard for pre-separators and the benchmark for all other pre-separators.

Due to its robust metal construction, high efficiency and low losses across the entire range, turbo® II is chosen by machine operators worldwide for installation in loaders, graders, crushers, tractors, mixers and mining machinery. Wherever a high level of protection is required and dust is a problem, turbo® II is a must.



MODEL NUMBER	MODEL	INLET SIZE	VOLUME FLOW RANGE	
			Cubic feet/min	m³/min
21-1024000	Model 24	3 inch / 76 mm	100-250	/ 2,8-7,1
21-1024015	Model 24	4 inch / 102 mm	100-250	/ 2,8-7,1
21-1035000	Model 35	4,5 inch / 114 mm	250-350	/ 7,1-9,9
21-1046000	Model 46	4,5 inch / 114 mm	350-700	/ 8,5-19,8
21-1046001	Model 46	5 inch / 127 mm	350-700	/ 8,5-19,8
21-1046002	Model 46	6 inch / 152 mm	350-700	/ 8,5-19,8
21-1046003	Model 46	7 inch / 178 mm	350-700	/ 8,5-19,8
21-1068000	Model 68	5 inch / 127 mm	700-1100	/ 19,8-31,1
21-1068001	Model 68	6 inch / 152 mm	700-1100	/ 19,8-31,1
21-1068002	Model 68	7 inch / 178 mm	700-1100	/ 19,8-31,1
21-1068003	Model 68	8 inch / 203 mm	700-1100	/ 19,8-31,1





## TURBO® II BULLNOSE PRECLEANER

Maximum engine performance for the heaviest machines.

The turbo® II Bullnose performs its task under the toughest conditions, day in and day out. Its unique design prevents micro-fine abrasive dust from entering the machine's engine, ensuring cleaner air in the engine and thus a longer engine life. turbo® II Bullnose is the industry standard for pre-separators and the benchmark for all other pre-separators.

Due to its robust metal construction, high efficiency and low loss across the entire range, turbo® II Bullnose is chosen by machine operators worldwide for installation in loaders, graders, crushers, tractors, mixers and mining machines. Wherever a high level of protection is required and dust is a problem, the turbo® II Bullnose is a must.

MODEL NUMBER	MODEL	INLET SIZE	VOLUME FLOW RANGE	
			Cubic feet/min	m <sup>3</sup> /min
21-1024010	Model 24	3 inch / 76 mm	100-250	/ 2,8-7,1
21-1035020	Model 35	4 inch / 102 mm	250-350	/ 7,1-9,9
21-1046011	Model 46	4,5 inch / 114 mm	350-700	/ 8,5-19,8
21-1046009	Model 46	5 inch / 127 mm	350-700	/ 8,5-19,8
21-1046010	Model 46	6 inch / 152 mm	350-700	/ 8,5-19,8
21-1068015	Model 68	6 inch / 152 mm	700-1100	/ 19,8-31,1
21-1068016	Model 68	7 inch / 178 mm	700-1100	/ 19,8-31,1
21-1068017	Model 68	8 inch / 203 mm	700-1100	/ 19,8-31,1





## TURBO® III PRECLEANER

Lightweight yet highly resilient for demanding environments.

Our latest generation pre-separator, the turbo® III, offers the same excellent protection against harmful micro-abrasion as the turbo® II.

Made from high-strength glass fibre reinforced polymer, the turbo® III pre-separator offers the same high efficiency with low loss as the turbo® II, but is lighter and easier to install. It is the pre-separator of choice for original equipment manufacturers, plant owners and operators worldwide due to its effectiveness and durability.



MODEL NUMBER	MODEL	INLET SIZE	VOLUME FLOW RANGE	
			Cubic feet/min	m <sup>3</sup> /min
21-1320000	Model 15	2 inch / 51 mm	15-85	/ 5,6-14,2
21-1320001	Model 15 BULLNOSE	2 inch / 51 mm	15-85	/ 5,6-14,2
21-1330000	Model 50	3 inch / 76 mm	50-250	/ 1,4-7,1
21-1330001	Model 50	4 inch / 102 mm	50-250	/ 1,4-7,1
21-1345000	Model 200	4,5 inch / 114 mm	200-500	/ 5,6-14,2
21-1350000	Model 200	5 inch / 127 mm	200-500	/ 5,6-14,2
21-1450000	Model 390	5 inch / 127 mm	300-700	/ 8,5-19,8
21-1460000	Model 390	6 inch / 152 mm	300-700	/ 8,5-19,8
21-1470000	Model 390	7 inch / 178 mm	300-700	/ 8,5-19,8
21-1360000	Model 500	6 inch / 152 mm	500-1100	/ 14,2-31,1
21-1370000	Model 500	7 inch / 178 mm	500-1100	/ 14,2-31,1
21-1380000	Model 500	8 inch / 203 mm	500-1100	/ 14,2-31,1





## TURBO® III FLEX-N-LINE™

For optimum engine performance under the bonnet.

The turbo® III Flex-N-line™ is powered by the same smooth and effective centrifuge as our turbo III. The Flex-N-Line™ offers designers and installers the advantage of using a rotating pre-separator that is capable of working effectively under the bonnet.

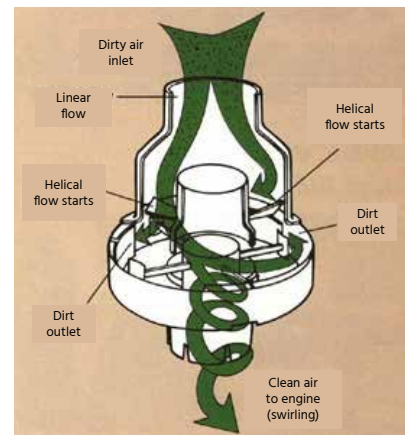
Due to its low losses and high efficiency across a wide range of applications, the Flex-N-Line™ is a good choice for off-road vehicles such as cranes, telescopic handlers, skid steer loaders and other machines where space is limited due to their design.

### The patented turbo® design

The turbo® III Flex-N-Line™ is made of 33% glass fibre reinforced polymer (nylon 6) and can be installed in series with the engine.

The turbo® III Flex-N-Line™ pre-separator utilises the existing air intake under the bonnet, increasing performance and improving engine and fuel efficiency. No openings in the bonnet, no restricted visibility.

The only in-line pre-separator on the market.



MODEL NUMBER	MODEL	INLET SIZE	VOLUME FLOW RANGE Cubic feet/min
21-1330002	Model 50	3 inch / 76 mm	75-225
21-1345002	Model 200	4,5 inch / 114 mm	200-475







## TURBO® POWER RAM™

The leading engine pre-cleaner with controlled air flow.

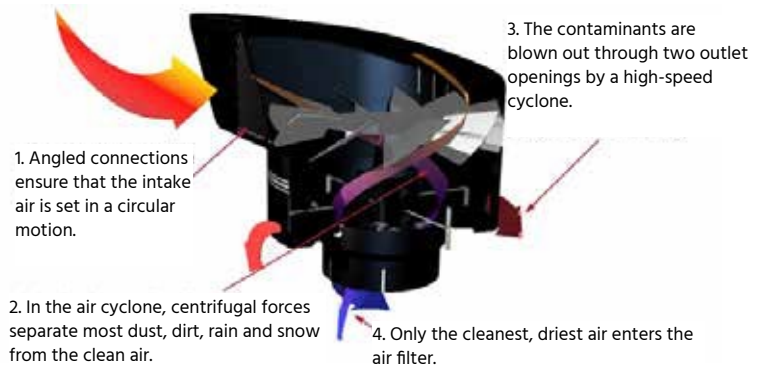
A durable, heavy-duty pre-separator for a wide range of applications where guided airflow is required. The Power Ram™ pre-separator covers the widest flow rate range with excellent efficiency and low losses. Used in a variety of construction, mining and road vehicle machinery, this pre-separator utilises the RAM effect to achieve a high pre-separation efficiency, extending the life of your main air filter and saving you money and downtime.

Some applications require Y-pipes for parallel-mounted Power Rams.



### The Power Ram™ airflow design

The Power Ram pre-separator is made of durable, high-strength, powder-coated metal.



MODEL NUMBER	MODEL	INLET SIZE	VOLUME FLOW RANGE	
			Cubic feet/min	m <sup>3</sup> /min
21-1080002	PowerRam	6 inch / 152 mm	500-1500	14,2-42,5
21-1080003	PowerRam	7 inch / 178 mm	500-1500	14,2-42,5
21-1080004	PowerRam	8 inch / 203 mm	500-1500	14,2-42,5





# turbo® PRECLEANER

## American-built, American-tested.

The turbo® Precleaner is the original, patented pre-separator that has been relied upon for over 40 years to protect the engines of heavy machinery and preserve the value of their owners' investments. turbo® Precleaners have set the standard in industries around the world, including construction, mining, forestry, waste management, agriculture and materials handling – in short, anywhere dust and debris can cause problems for engines.

### THE TURBO® PRECLEANER IS MANUFACTURED BY MARADYNE CORPORATION.

The turbo® precleaner is manufactured by Maradyne Corporation, which is part of the Dreison International family of companies. Maradyne is an ISO-certified company based in Cleveland, Ohio, that manufactures and distributes a wide range of industrial and commercial products for the original equipment and aftermarket.



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Krone Filtertechnik GmbH  
Herbert-Ludwig-Str. 12-14  
28832 Achim, Germany  
Telephone: +49(0)4202.9769-0  
Internet: [www.krone-filter.de](http://www.krone-filter.de)  
Email: [info@krone-filter.de](mailto:info@krone-filter.de)

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Filtertechnik