



turbo[®]
PRECLEANER

2021 PRODUCT CATALOG

Version 7.2.21

Construction • Mining • Logging • Waste Management • Agriculture • Aggregates

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TURBO® POWER RAM™

turbo[®]

PRECLEANER

Over 40 years of American-made, unmatched engine protection.



WHY TURBO[®] PRECLEANERS?

Extends engine air filter life

Unique design prevents micro-abrasives from entering machine's engine.

Original "Top-Down" air flow design

turbo[®] precleaners have aerodynamically designed overlapped vanes that force the incoming air to spin, causing separation of dust and dirt from the air by centrifugal force. The debris then spins down the wall of the main chamber and into the blower chamber, where the high-velocity spinner forces the dirt to the discharge ports at the base of the unit, providing the cleanest possible air to the filter element.

Competitors typically use "REVERSE AXIAL" designs, in which air is drawn in through the base of the unit and must make a "U" turn, adding restriction and reducing the power of the engine. Additional restriction to the engine will cause the need for more frequent engine filter replacements.

Wide CFM range for every machine

turbo[®] precleaners are manufactured in a gamut of sizes and cover an expansive CFM range that suits most machines on the market today.

A full range of sizes offered

Each turbo[®] precleaner is offered in a range of different sizes to fit different engines. [Refer to this online comparison chart](#) for more information.

Self-powered and self-cleaning

You have a job to worry about, you shouldn't need to bother with charging or maintaining parts. turbo[®] precleaners are self-cleaning and never need external power or charging.

Prolongs engine life

turbo[®] precleaners prolong the life of your engines by significantly reducing engine wear. It's the precleaner of choice for equipment operators in the dustiest, dirtiest, harshest environments.

Promotes maximum engine power

turbo[®] precleaners are critical to maintain effective, clean engine breathing for maximum efficiency and power.

Minimizes costly down time

turbo[®] precleaners protect your engine from particulate as small as one micron. Maximum protection means little-to-no down-time.

Easy installation, multiple mounting options

turbo[®] precleaners install or clamp on in mere minutes and require no complicated installation or extensive tools.

Heavy duty, backed by warranty

turbo[®] precleaners are warranted for 2 years and the internal spinner assemblies are warranted for life. It's the precleaner chosen by OEMs and equipment owners and operators worldwide for its efficiency and durability.

Relentlessly tested, made in the U.S.A.

turbo[®] precleaners are made in the United States and tested to industry SAE J726 and ISO 5011 standards.

Learn more at turboprecleaner.com



FIND THE RIGHT TURBO® FOR YOU



In order to accurately determine the proper turbo® to use with any specific make or model of a diesel or gasoline engine, you must first calculate the cubic feet per minute of air (C.F.M.) requirement of that engine. In making this calculation, it is important to note that any change in the R.P.M. (revolutions per minute) or the addition of a turbocharger can alter the C.F.M. rating of the engine.

4-CYCLE ENGINES

$$\text{Air (CFM)} = \frac{\text{RPM} \times \text{CID} \times \text{Volumetric Efficiency}}{3456}$$

DIESEL ENGINES VOLUMETRIC EFFICIENCY

Normally Aspirated = .85

Turbocharged = 1.85

(intercooled/aftercooled)

Learn more at turboprecleaner.com





TURBO® II PRECLEANER

For the toughest environments, day in and day out.

turbo® II performs its job in the toughest environments day in and day out. The unique design is all about preventing micro-abrasive dust from entering the machine's engine creating cleaner air to prolong the engine life. turbo® II is the industry standard precleaner by which all precleaners are judged.

From its durable metal construction to its high efficiency and low restriction across the entire range, turbo® II is chosen worldwide by equipment operators for installation on loaders, graders, crushers, haulers, mixers, and mining machines. Anywhere a high level of protection is needed and where dust is an issue, the turbo® II is a must.



MODEL NUMBER	MODEL	INLET SIZE	AIRFLOW RANGE		PRICING
			CFM	M3/Min	
21-1024000	Model 24	3" / 76mm	100-250	2.8-7.1	Please call for the most current pricing on our turbo® II product line.
21-1024015	Model 24	4" / 102mm	100-250	2.8-7.1	
21-1035000	Model 35	4.5" / 114mm	250-350	7.1-9.9	
21-1046000	Model 46	4.5" / 114mm	350-700	8.5-19.8	
21-1046001	Model 46	5" / 127mm	350-700	8.5-19.8	
21-1046002	Model 46	6" / 152mm	350-700	8.5-19.8	
21-1046003	Model 46	7" / 178mm	350-700	8.5-19.8	
21-1068000	Model 68	5" / 127mm	700-1100	19.8-31.1	
21-1068001	Model 68	6" / 152mm	700-1100	19.8-31.1	
21-1068002	Model 68	7" / 178mm	700-1100	19.8-31.1	
21-1068003	Model 68	8" / 203mm	700-1100	19.8-31.1	

MORE RESOURCES:

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TURBO® II BULLNOSE PRECLEANER

Maximum engine performance for the heaviest machinery.

turbo® II Bullnose performs its job in the toughest environments day in and day out. The unique design is all about preventing micro-abrasive dust from entering the machine's engine creating cleaner air to prolong the engine life. turbo® II Bullnose is the industry standard precleaner by which all precleaners are judged.

From its durable metal construction to its high efficiency and low restriction across the entire range, turbo® II Bullnose is chosen worldwide by equipment operators for installation on loaders, graders, crushers, haulers, mixers, and mining machines. Anywhere a high level of protection is needed and where dust is an issue, the turbo® II Bullnose is a must.

MODEL NUMBER	MODEL	INLET SIZE	AIRFLOW RANGE CFM M3/Min	PRICING
21-1024010	Model 24	3" / 76mm	100-250 / 2.8-7.1	
21-1035020	Model 35	4" / 102mm	250-350 / 7.1-9.9	
21-1046011	Model 46	4.5" / 114mm	350-700 / 8.5-19.8	Please call for the most current pricing on our turbo® II product line.
21-1046009	Model 46	5" / 127mm	350-700 / 8.5-19.8	
21-1046010	Model 46	6" / 152mm	350-700 / 8.5-19.8	
21-1068015	Model 68	6" / 152mm	700-1100 / 19.8-31.1	
21-1068016	Model 68	7" / 178mm	700-1100 / 19.8-31.1	
21-1068017	Model 68	8" / 203mm	700-1100 / 19.8-31.1	

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TURBO® II MAX

For the toughest environments in the harshest weather.

The turbo® II MAX doesn't just perform in the harshest environments— it was built for them. Leveraging our trademark “Top-Down” air flow design found in our turbo® II line, the turbo® II MAX is larger and features a hexagonal screen that offers 2 TIMES the debris blocking surface area when compared to the turbo® II. And the turbo® II MAX shines in the worst of the elements— it features an extended, rugged steel “cap” over top of the unit, adding unbeatable protection from heavy rain and snow.

Keep dirt, debris, dust, and water out of your engine. turbo® II MAX is designed for graders, mixers, loaders, haulers, crushers, mining machines, and more.

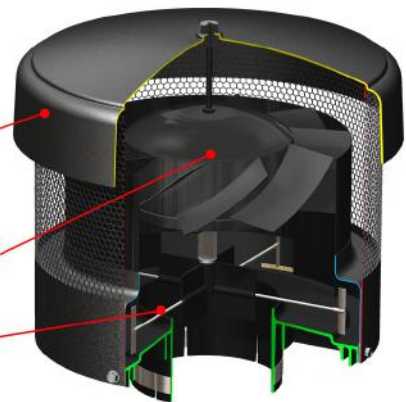
“Top-Down” design, 2X efficiency

The turbo® II MAX leverages our trademark “top down” air flow design, drawing dirty air through the protective screen at the top of the unit and ejecting it out of the bottom, but with a new, larger, hexagonal-patterned screen, you get TWO TIMES the debris-blocking surface area.

Rugged steel construction of extended “cap” for protection from heavy rain and snow

Our signature “top-down” airflow design offers the highest efficiency air cleaning

High velocity spinner ejects debris and is protected by our lifetime warranty



MODEL NUMBER	MODEL	INLET SIZE	AIRFLOW RANGE		PRICING
			CFM	M3/Min	
21-1068026	Model 68	6" / 152mm	700-1100	/ 19.8-31.1	Please call for the most current pricing on our turbo® II product line.
21-1068027	Model 68	7" / 178mm	700-1100	/ 19.8-31.1	
21-1068028	Model 68	8" / 203mm	700-1100	/ 19.8-31.1	

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TURBO® II HD PRECLEANER

Catches THREE TIMES the amount of debris and dust.

Tough made tougher. The NEW turbo® II HD packs the same great features as the turbo® II with an added layer of protection— ideal for the most extremely dirty and dusty work environments, like agricultural fields and landfills.

The turbo® HD additional prescreen adds more than three times the debris-catching surface area. turbo® HD prescreens are available on the turbo® II Model 46 and Model 68.

Featuring the turbo® “Top-Down” design

The turbo® II HD features our “top-down” air flow design, drawing in and forcing incoming air to spin downward, creating a highly effective separation of debris and particles from the air via centrifugal force. The result of the turbo II HD is the cleanest possible air flowing into your engine. The high-powered spinner in the base of the turbo® II HD also includes a lifetime warranty.



MODEL NUMBER	MODEL	INLET SIZE	AIRFLOW RANGE		PRICING
			CFM	M3/Min	
21-1046006	Model 46	4.5" / 114mm	350-700	8.5-19.8	Please call for the most current pricing on our turbo® II product line.
21-1046005	Model 46	5" / 127mm	350-700	8.5-19.8	
21-1046004	Model 46	6" / 152mm	350-700	8.5-19.8	
21-1046007	Model 46	7" / 178mm	350-700	8.5-19.8	
21-1068005	Model 68	6" / 152mm	700-1100	19.8-31.1	
21-1068006	Model 68	7" / 178mm	700-1100	19.8-31.1	
21-1068007	Model 68	8" / 203mm	700-1100	19.8-31.1	

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TURBO® III PRECLEANER

Light yet high strength for demanding environments.

Offering the same superior protection against damaging micro abrasive dust as the turbo II is our latest generation precleaner, the turbo® III.

Made up of high strength glass-reinforced polymer, the turbo® III precleaner carries the same high efficiency, low restriction reputation of the turbo® II, but is lighter and easier to install. It's the precleaner chosen by OEMs and equipment owners and operators worldwide for it's efficiency and durability.



MODEL NUMBER	MODEL	INLET SIZE	AIRFLOW RANGE		PRICING
			CFM	M3/Min	
21-1320000	Model 15	2" / 51mm	15-85	5.6-14.2	Please call for the most current pricing on our turbo® III product line.
21-1320001	Model 15 BULLNOSE	2" / 51mm	15-85	5.6-14.2	
21-1330000	Model 50	3" / 76mm	50-250	1.4-7.1	
21-1330001	Model 50	4" / 102mm	50-250	1.4-7.1	
21-1345000	Model 200	4.5" / 114mm	200-500	5.6-14.2	
21-1350000	Model 200	5" / 127mm	200-500	5.6-14.2	
21-1450000	Model 390	5" / 127mm	300-700	8.5-19.8	
21-1460000	Model 390	6" / 152mm	300-700	8.5-19.8	
21-1470000	Model 390	7" / 178mm	300-700	8.5-19.8	
21-1360000	Model 500	6" / 152mm	500-1100	14.2-31.1	
21-1370000	Model 500	7" / 178mm	500-1100	14.2-31.1	
21-1380000	Model 500	8" / 203mm	500-1100	14.2-31.1	

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TURBO® III FLEX N LINE™

For optimum under-the-hood engine performance.

Powered by same smooth and efficient rotor as our turbo III is the turbo® III Flex-N-line™. The Flex-N-Line™ offers designers and installers the advantage to install a rotary ejective pre-cleaner that has the performance to operate efficiently under the hood.

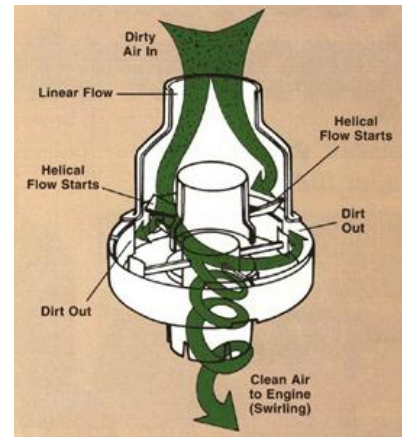
Low in restriction and efficient across a wide operating range, Flex-N-line is a good option for off-highway machines like cranes, tele handlers, skid steers and other machines where space is limited.

Featuring the turbo® patented design

turbo® III Flex-N-Line™ is made out of 33% glass-reinforced polymer (nylon 6), and is designed to be installed in line with the engine.

turbo® III Flex-N-Line™ pre-cleaner utilizes existing, under-hood air intake, which promotes power and improved engine and fuel efficiency. No holes in the hood, no impaired vision.

The only inline pre-cleaner on the market.



MODEL NUMBER	MODEL	INLET SIZE	CFM RANGE	PRICING
21-1330002	Model 50	3" / 76mm	75-225	Please call for the most current pricing on our turbo® III product line.
21-1345002	Model 200	4.5" / 114mm	200-475	

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TURBO® POWER RAM™

The premier directional flow engine precleaner.

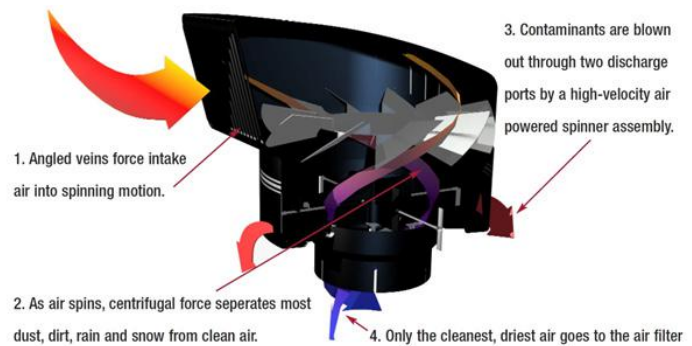
A rugged, heavy duty precleaner for a wide variety of applications where directional flow is desired. The Power Ram™ pre-cleaner covers the broadest flow range with excellent efficiency and low restriction. It's on a variety of machines including construction, mining and on-road applications, this pre cleaner utilizes RAM effect to achieve high pre-separation efficiency, extending the life of your primary air filter and saving you money and limiting down time.

Some applications require Y-Pipe for Power Rams mounted side-by-side.



The Power Ram™ air flow design

The Power Ram precleaner is composed of durable, high-strength metal that is finished with a powder-coated housing.



MODEL NUMBER	MODEL	INLET SIZE	AIRFLOW RANGE		PRICING
			CFM	M3/Min	
21-1080002	PowerRam	6" / 152mm	500-1500	14.2-42.5	Please call for the most current pricing on turbo® Power Ram™.
21-1080003	PowerRam	7" / 178mm	500-1500	14.2-42.5	
21-1080004	PowerRam	8" / 203mm	500-1500	14.2-42.5	

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turbo[®]

PRECLEANER[®]



TURBO[®] PRECLEANER IS MANUFACTURED BY MARADYNE CORPORATION

turbo[®] precleaner is manufactured by Maradyne Corporation, part of the Dreison International family of companies. Maradyne is an ISO-Certified company based in Cleveland, Ohio that manufactures and markets a wide variety of industrial and commercial products for original equipment and aftermarket applications.

