

# Donaldson® Torit®

## DUST, FUME & MIST Collectors, Filters & Replacement Parts



# THE MARKET LEADER

## FOR LONG-TERM VALUE

For decades, Donaldson® Torit® has offered manufacturers the most advanced and reliable dust collectors and filters available. The pairing of these industry-leading collectors and filters helps increase manufacturing efficiencies and provides a cleaner environment for employees.

When efficiency is maximized and employees are at their peak, so is the manufacturer's productivity—and ultimately, its bottom line. Donaldson Torit products can help safeguard that bottom line with the most innovative collectors and filters, expertly engineered by its unparalleled team of R&D engineers to provide long-term value, rather than short-term savings.

No other dust collection manufacturer can match Donaldson Torit's filtration solutions in delivering clean air.

## CONTINUALLY EVOLVING FILTRATION SOLUTIONS

1900

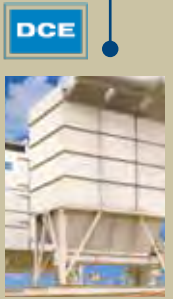
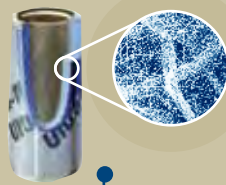
2000

### ACQUISITIONS

**1974:** Donaldson Company, Inc. acquires the **Torit Corporation**, resulting in unparalleled filtration and cartridge expertise.

**1986:** Donaldson Torit expands its product line and expertise to baghouse collectors with the acquisition of **Carter Day**, another dust collection leader.

**1997:** Donaldson Torit's mist collection portfolio is expanded by the acquisition of **Aercology**.



### TECHNOLOGY

**1975:** The **TD cartridge collector** is launched, the first vertical cartridge collector introduced to the dust collection market.

**1981:** Donaldson Torit creates proprietary **Ultra-Web® nanofiber filter media**, increasing filtration efficiency, and filter life while simplifying maintenance.

**1983:** The **Downflo® horizontal cartridge collector** is introduced, offering a higher efficiency and smaller footprint than any collector before it. Also offers up to 25% more airflow than TD.

## ADVANCED TECHNOLOGY

- As the inventor of the cartridge collector, Donaldson Torit has led the way for continuous innovation with award-winning products such as Torit® PowerCore® dust collectors and filter packs.
- Patented and proprietary Ultra-Web® nanofiber filter media – the first of its kind – was developed by Donaldson. On the market for three decades, this media technology increases filtration efficiency and simplifies maintenance.

## RELIABILITY

- The leading worldwide provider of advanced filtration technology for almost 100 years.

## SUPERIOR PERFORMANCE

- Integrated collectors and filter media work together to offer the highest levels of efficiency and maximize productivity.

## CUSTOMER SUPPORT

- Unmatched service and support at all stages—from up-front engineering to knowledgeable field resources to after-sales service.
- Worldwide support to provide customers with advanced solutions and service, no matter the location.

2010

**2000:**  
Donaldson acquires **DCE**, expanding its baghouse portfolio.

**2004:**  
Donaldson Torit offers a full line of replacement filters for competitor brands.

**2008:**  
Donaldson Torit acquires **LMC-West** and further expands its baghouse portfolio.



**2000:**  
**Downflo® Oval 1™** is launched providing up to 25% more airflow than competing collectors and DFT.



**2003:**  
**Dura-Life™ bag filters** are introduced—providing increased efficiency and twice the life over standard polyester bags.



**2005:**  
Donaldson Torit introduces Ready2Ship, a service that ships replacement filters within 24 hours of ordering.



**2006:**  
**Synteq XP™ Media Technology** is introduced, an advanced media with higher efficiency and superior draining function for the collection of aerosolized mist.



**2008:**  
**Torit® PowerCore®** is launched – collectors that are up to 70% smaller and use compact filter packs, resulting in reduced maintenance costs. Over 400 patents to date.

# TORIT® POWERCORE® COLLECTORS

## SMALLER. SMARTER.

Torit PowerCore dust collectors with PowerCore filter packs solve the industry's need for better filtration, reduced operational cost, a smaller footprint and easier maintenance. Smaller, smarter collectors and filter packs add up to significant savings. Less steel and oil are required to manufacture and transport collectors that are 50 - 70 percent smaller than traditional collectors.

Additionally, smaller sized Torit PowerCore collectors can eliminate the need for complicated ductwork or a large, energy-consuming central dust collection system. With greater flexibility, manufacturers can now optimize space on the plant floor while containing costs.

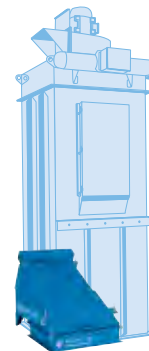


(5,000 cfm collectors)  
Torit PowerCore CPC-12  
vs. Traditional (81) 8-ft.  
Filter Baghouse

UP TO **70%** SMALLER  
THAN TRADITIONAL DUST COLLECTORS



(5,000 cfm collectors)  
Torit PowerCore TG4  
vs. Traditional 8-Cartridge  
Filter Collector



(1,500 cfm collectors)  
Torit PowerCore CPV-3  
vs. Bin Vent with Traditional  
(16) 6-ft. Bags



- **SMALLER**

Torit PowerCore collectors are up to 70% smaller than traditional collectors.

- **EASIER**

Clean-side filter pack access and fewer, lighter filter packs mean faster, easier filter changes without tools or filter cages. Also, collectors are shipped with filter packs installed.

- **CLEANER**

PowerCore filter packs with Ultra-Web® technology provide higher efficiency for cleaner air. Plus, replacing PowerCore filter packs is a remarkably quick and clean process.

- **SMARTER**

An optimized airflow management system delivers optimal pulse cleaning while minimizing airflow restriction.

- **COST EFFECTIVE**

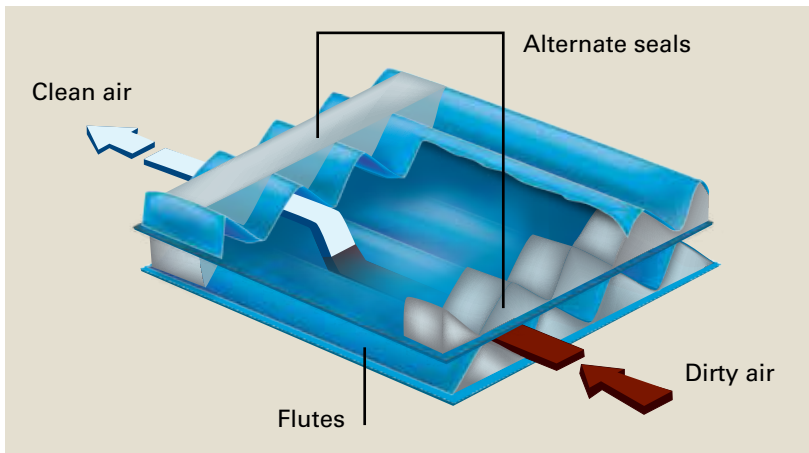
Innovative PowerCore filtration technology means reduced freight and installation costs, fewer filter pack changeouts, lower maintenance costs, and no entry requirements for filter pack changes.



# POWERCORE MEDIA TECHNOLOGY

## LEADING THE WAY WITH POWERCORE

PowerCore media technology is integral to the dramatic downsizing of the Torit PowerCore collector. PowerCore filter packs combine Ultra-Web nanofiber technology with Donaldson's media configuration expertise, creating a new filtration structure unlike anything else in the industrial air filtration market. As a result, a more effective filtration area is packaged into smaller spaces. And just one Torit PowerCore filter pack replaces multiple cartridge or bag-style filters. With more media packed into a smaller space and a simplified airflow path, PowerCore filter packs provide high performance with a low pressure drop.

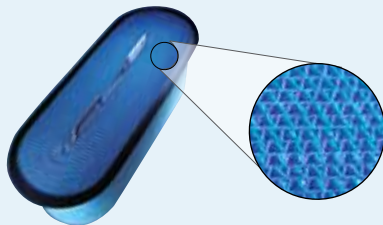


**PowerCore**  
A Donaldson Filtration Technology

Filter media is formed into flutes – these flutes are layered to give a tight, rugged structure to the filter.

Fluted channels are alternately sealed, allowing air to enter through an open flute and forcing it to exit through the media and out an adjacent flute.

## HIGH PERFORMANCE FILTER MEDIA



**ONE**  
CP PowerCore  
filter pack

*replaces up to*



**SIX**  
8-ft. long filter bags

- One Torit PowerCore filter pack replaces multiple cartridge or bag-style filters
- Fast and easy filter pack changes
- Reduced maintenance
- High filtration efficiency for reduced emissions
- Reduced freight & installation costs
- Technology proven in field applications for more than 10 years
- More than 400 patents and patents pending



**ONE**  
TG PowerCore  
filter pack

*replaces up to*



**THREE**  
cartridge filters

# CARTRIDGE COLLECTORS

## THE INVENTOR OF THE CARTRIDGE COLLECTOR

As the inventor of the cartridge collector, Donaldson Torit has led the way with continuous innovation, such as the award-winning Downflo® Oval dust collection technology. No other manufacturer comes close to matching the innovation and breadth of technical expertise that Donaldson Torit incorporates into its cartridge collectors.

Donaldson Torit engineers its cartridge collectors to capture the broad spectrum of dust particles that can inhibit the production environment. From portable to central collectors, to source and ambient collectors, to booth-type collectors and weld benches, Donaldson Torit provides the most complete range of cartridge collectors that cost-effectively enhance productivity and manufacturing efficiency.



Downdraft Bench	Downflo® WorkStation	Downflo® Oval	Downflo® II	Fume Collectors	
				AT-3000 T-2000™ Weld Bench	Easy-Trunk™ Porta-Trunk™ Extraction Arms
(700 - 3,000 cfm)	(4,500 - 22,000 cfm)	(90 - 102,000 cfm)	(500 - 100,000 cfm)	T-2000 (890 cfm) WB (2,000 - 3,000 cfm)	(750 - 780 cfm)
Self-contained dust collector bench for grinding and finishing operations.	Designed specifically for in-plant areas where dirty and/or noisy operations are out in the open – grinding, sanding, chipping, batch mixing or welding.	DFO is a one-of-a-kind series of cartridge dust collectors with oval-shaped filter technology, proprietary filter media and patented pulse cleaning that provides up to 25% more airflow capacity than same-sized round cartridge collectors.	A leading cartridge technology for over 20 years, DFT delivers powerful performance and cost savings.	T-2000 and AT-3000 ceiling-mount, self-contained source collectors capture fume generated in moderate-to-heavy welding applications. Designed specifically for welding operations, Weld Bench provides high capture velocity that assures fume capture and eliminates the need for extraction arms.	Offering compact, portable filtration of smoke, dust and fumes that result from welding and grinding applications, Easy-Trunk provides built-in manual pulse filter cleaning. Porta-Trunk is a static filter system.

# ULTRA-WEB® MEDIA TECHNOLOGY

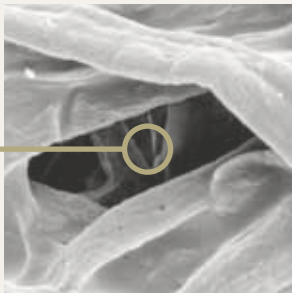
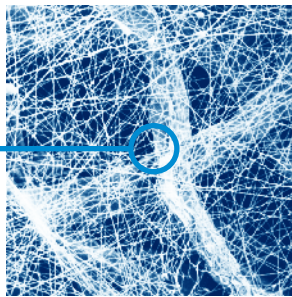
## THE INVENTOR OF ULTRA-WEB

Proven for 30 years, advanced and improved many times over, patented Ultra-Web is the nanofiber media technology that outperforms all others; it delivers longer filter life, cleaner air, and greater savings.

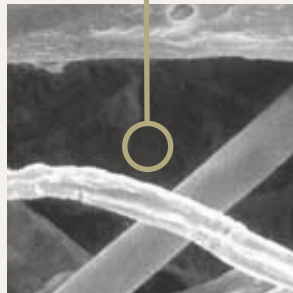
Donaldson Torit offers a complete line of Ultra-Web cartridge filters that last twice as long as or more than commodity cellulose and cellulose/synthetic (80/20) blend medias. The Ultra-Web surface-loading technology is scientifically proven to provide a lower operating pressure drop over a longer period of time, which allows the filter to last longer while requiring less energy.

### ULTRA-WEB OUTPERFORMS ALL OTHERS

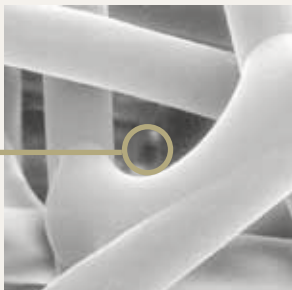
10 Micron  
Particulate  
at 600X



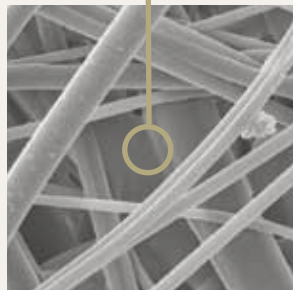
CELLULOSE



CELLULOSE/  
SYNTHETIC



SPUNBOND



MELTBLOWN

1 micron = 1/25,400 of an inch

Ultra-Web nanofiber media is the most optimized and cost-effective choice available for most dust and fume collection applications.

Experience the Ultra-Web advantage:

- Increased surface loading
- Enhanced dust cake release
- Better cleaning efficiency
- Lower cost per cfm
- Available for most brands of dust collectors

**READY  
2SHIP**



**ULTRA-WEB®**  
3 DECADES OF LEADERSHIP &  
OVER 5 MILLION FILTERS SOLD

# BAGHOUSE COLLECTORS

## THE RIGHT BAGHOUSE FOR THE APPLICATION

Donaldson Torit offers a complete line of dependable, rugged baghouse dust collectors ranging from small Cyclones and Unimaster® collectors that handle as low as 120 cfm to large RFs and LPs that handle up to 197,000 cfm. Donaldson Torit also offers unique collectors like the Dalamatic®, which feature envelope-shaped bags for improved pulse cleaning of especially challenging dusts, and **clean side access** to filters to make changeouts easier.

In addition to offering the best baghouses on the market, Donaldson Torit continually develops industry-leading technologies such as Dura-Life™ bag filters that provide longer filter life, increased efficiency, and reduced operating costs.



RF and LP Baghouse	Unimaster	Dalamatic Cased – DLMC Insertable – DLMV	IRD Dust Collector	Modular Baghouse
(2,000 - 197,000 cfm)	(120 - 10,000 cfm)	(170 - 85,000 cfm)	(1,350 - 5,000 cfm)	(1,150 - 65,000 cfm)
<p>The award-winning RF and LP are larger baghouses that combine cyclone style pre-separation and baghouse filters in one collector. They also provide non-compressed air cleaning. The RF uses low pressure cleaning while the LP uses reverse air cleaning.</p>	<p>The UMA is a complete unit that is suited for intermittent duty applications where compressed air is not available. This unit uses a superior shaker design to clean the bags for optimized airflow. Everything needed is packaged in one compact unit (including fan and controls).</p>	<p>The Dalamatic line of collectors uses envelope-shaped bags that provide extra snap during pulsing for use in especially challenging dust applications. The DLMC is a stand-alone collector with hopper, while the DLMV comes without hopper for use in bin venting and transfer point applications.</p>	<p>The IRD is an economical, continuous duty collector for wood dust applications. This easy-to-install collector, complete with fan, comes with everything needed to start clearing the air. Just assemble, hook up ductwork and let it go.</p>	<p>Designed for fast, easy installation and simple, reliable dust collection, Modular Baghouses provide high performance filtration in applications with high air volumes and heavy dust loading.</p>



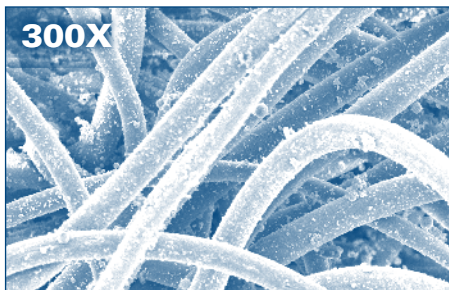
# DURA-LIFE™ FILTER MEDIA TECHNOLOGY

## FOR TWICE THE LIFE

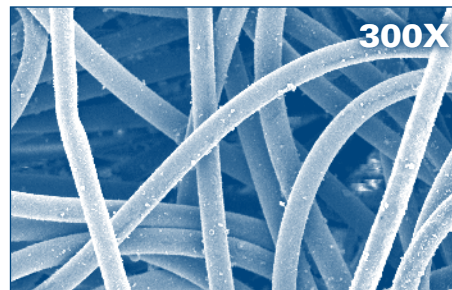
The most significant advancement in baghouse filter technology is the development of Dura-Life filter bags. Bags made from Dura-Life media have increased efficiency, longer life, and lower maintenance costs.

Dura-Life media – compared to standard polyester media – is engineered with a unique hydro-entanglement process that uses water to blend the fibers. This process creates a more uniform material with smaller pores, which results in better surface loading and superior cleaning.

**Needled Polyester Bag  
Clean Air Side**



**Dura-Life Bag  
Clean Air Side**



These photos were taken with a scanning electron microscope of bag media used in a collector that was filtering fly ash. Note the amount of dust that embeds into the needled polyester bag compared to Dura-Life.

## DURA-LIFE BAGS PROVIDE BIG BENEFITS

Dura-Life technology provides superior surface loading and pulse cleaning, resulting in:

- Two to three times longer bag life
- Energy savings due to lower pressure drop
- Reduced replacement bag costs due to fewer bag changeouts
- Reduced maintenance and operating costs due to fewer bag changeouts
- 30% fewer emissions based on EPA tests
- Available for most brands of dust collectors

**DURA-LIFE™**  
Twice The Life Filter Bags



# MIST COLLECTORS

## A COMPREHENSIVE RANGE

High performance mist collection is a must for manufacturers that generate coolant and machining oil mist in their applications. Uncollected mist leaves condensation and residue on floors, machines, walls and ceilings, creating a potentially unsafe and unclean manufacturing environment.

Donaldson Torit provides a comprehensive range of mist collectors, each providing the peace of mind manufacturers need to be productive and efficient.

Rely on Donaldson Torit for the most advanced mist collection technology.



### WSO LONGEST LIFE OPTION

(50 - 60,000 cfm)

WSO mist collector is the only collector that filters three types of mist (water, smoke, oil) in one collector – simply by tailoring the filter. Designed to collect water-soluble coolant, straight oil, and the most challenging – oily smoke – from a variety of machining operations and other industrial processes. The WSO design has several configurations such as machine mountable, stand mount, ducted cellular and central system to meet your plant requirements.

### Modular MediaFilter™

(1,200 - 7,000 cfm)

Modular MediaFilter provides flexible, high performance mist collection for applications such as grinding, wet grinding, wet machining, rubber machining, die casting and soldering. Available in vertical and horizontal models, Modular MediaFilter collectors are expandable to adapt to changing needs such as smoke, dust and fume filtration, saving the cost of a new filtration system.

### Mini-Mist

(300 - 1,200 cfm)

Designed to collect coolant mists from CNC machining, grinding, turning, milling and drilling operations, compact Mini-Mist collectors are effective alone or can be integrated into larger machining operations.

### Centrifugal

(100 - 1,200 cfm)

Centrifugal collectors offer compact, high efficiency and economical mist collection. They can be used to reclaim mist in applications that process petrochemicals or synthetic coolants. They are particularly effective at handling very heavy mist loading concentrations.

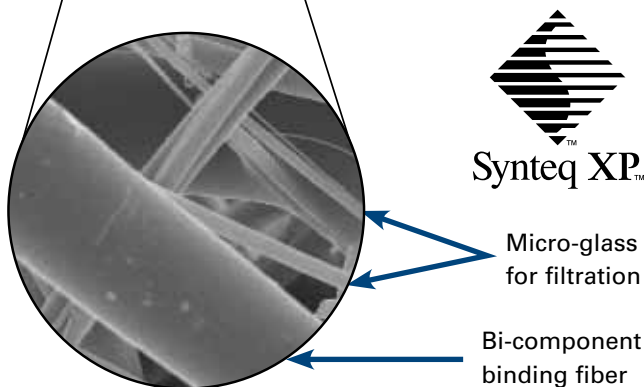
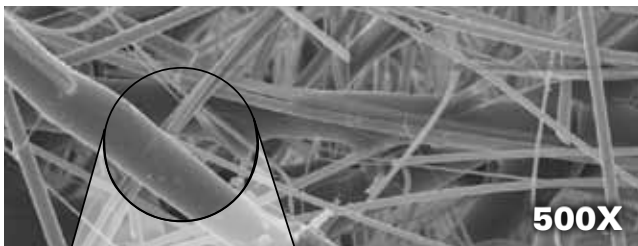
# SYNTEQ XP™ MEDIA TECHNOLOGY

## ADVANCED FILTER MEDIA FOR MIST

Patent-pending Synteq XP is a revolutionary and proprietary media for mist collection that provides higher efficiency, low operating pressure drop, and longer filter life when compared to traditional media.

## SYNTEQ XP MEDIA WITH RESIN-FREE BINDING FIBERS

- Engineered blend of small and large fibers, with proprietary, resin-free bonding system
- Small fibers are scientifically proven to increase efficiency through superior draining
- Large fibers provide structural support and clear drain channels to sustain performance in the most challenging applications
- Proprietary bonding system stabilizes pore structure for optimum performance and longer life
- Available for many brands of mist collectors

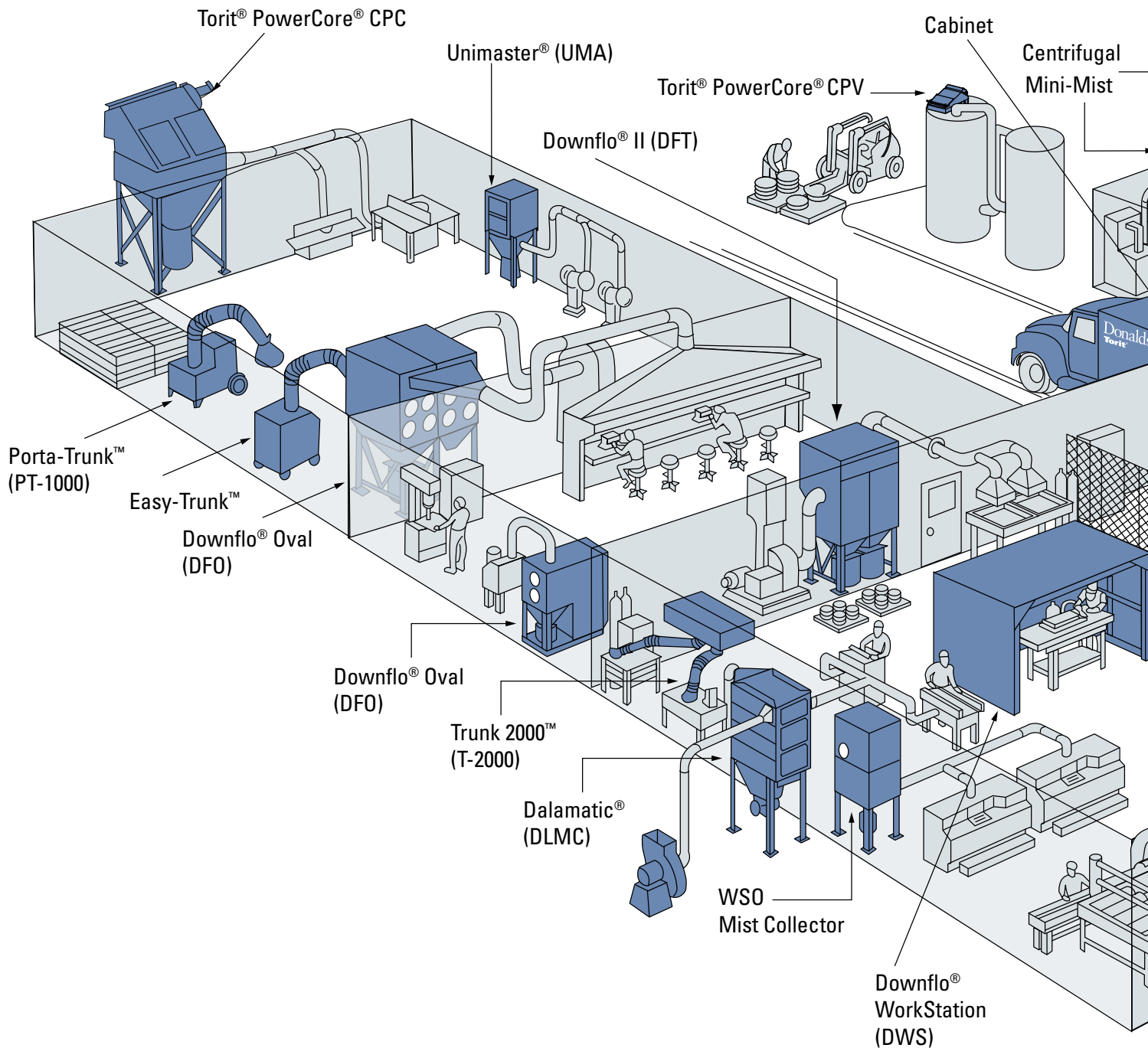


During the media manufacturing process, the surface of the binding fiber is heat fused to make it bond to the surrounding micro-glass – no resin webbing to block pores.

800-365-1331



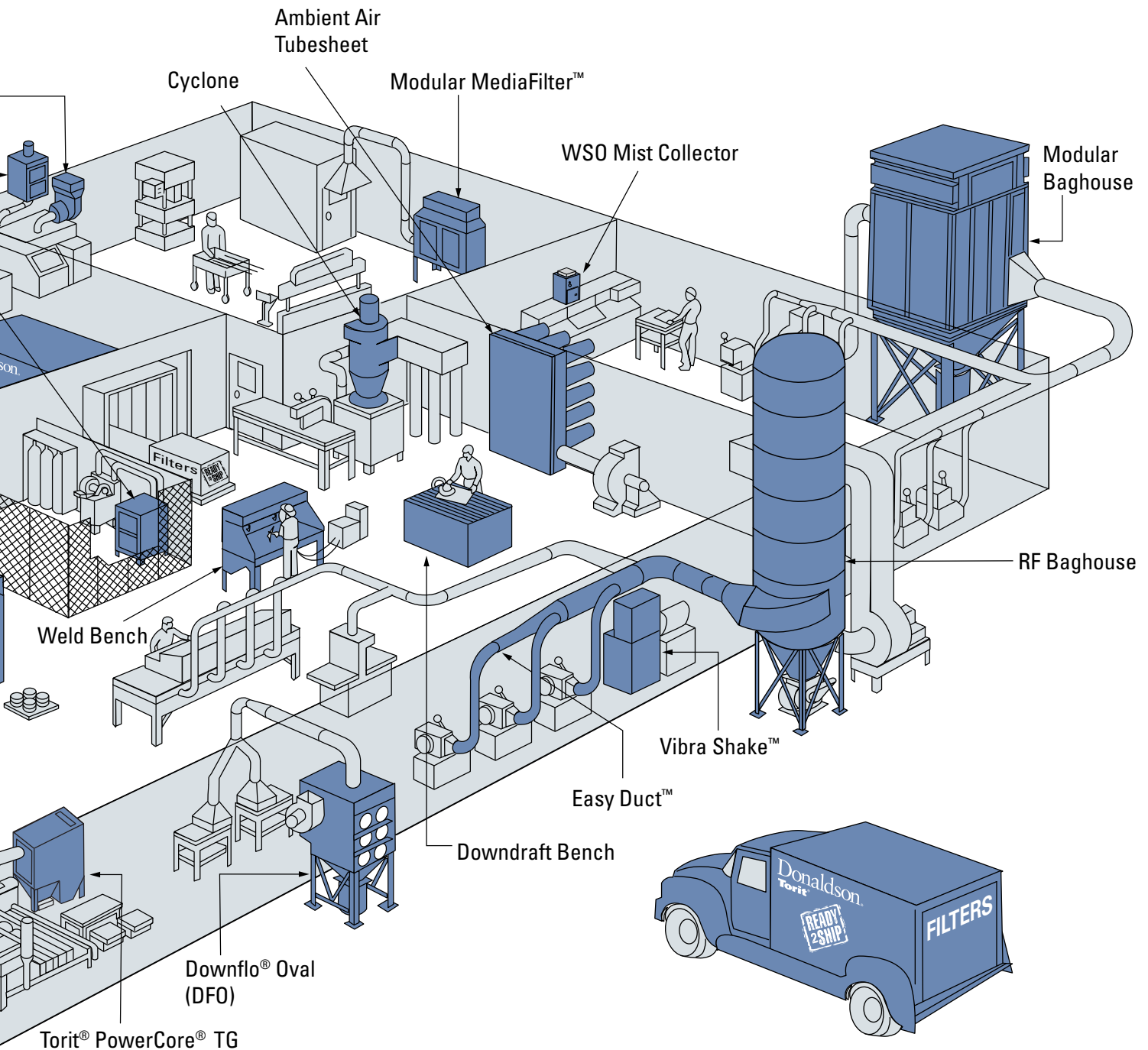
## A RANGE OF COLLECTORS



## OSHA & NFPA REQUIREMENTS

Donaldson Torit offers a variety of dust collectors, options, and accessories to help manufacturers comply with the collector sections of NFPA/OSHA standards on combustible dust. Contact a local Donaldson Representative, or call 800-365-1331, to schedule an on-site review of your filtration needs, and to determine what filtration equipment will support your course of action for NFPA/OSHA compliance on combustible dust.

# HELP PROTECT YOUR BOTTOM LINE



When employees are at their peak, so is productivity—and ultimately, a manufacturer's bottom line. Collectors and filters, expertly engineered by Donaldson Torit's unparalleled team of R&D engineers, provide long-term value rather than short-term savings.



# METALWORKING APPLICATIONS

**DFO**  
Grinding  
74,000 cfm



**DFO**  
Plasma cutting  
5,000 cfm



**TG**  
Plasma cutting  
2,300 cfm

**DWS**  
Custom hand grinding  
38,500 cfm



**DFO**  
Welding fumes  
53,000 cfm  
Left: outside  
Right: inside





**DFO**  
Thermal spray  
4,800 cfm



**DFO**  
Laser cutting  
3,100 cfm



**DFO**  
Plasma cutting  
2,000 cfm



**TG**  
Plasma cutting  
3,400 cfm



**DFO**  
Metal grinding  
31,000 cfm



**DFO**  
Metallizing powder flame  
20,500 cfm

**DFO**  
Thermal spray  
8,500 cfm





# MIST APPLICATIONS



**DMC**  
Wet machining  
390 cfm



**DMC**  
Machining  
800 cfm



**WSO**  
Oil mist  
20,000 cfm



**WSO**  
Horizontal grinder  
850 cfm



**WSO**  
Machining center  
1,200 cfm



**WSO**  
Cold forming  
1,200 cfm



**MODULAR MEDIA**  
Grinding  
2,000 cfm





# PROCESSING/POWDER & BULK APPLICATIONS

**DLMC**  
Rock crushing  
41,000 cfm



**DFO**  
Paint & pigment  
1,200 cfm



**DFT**  
Paper processing  
5,300 cfm



**CPC**  
Milk powder  
1,200 cfm



**DFO**  
Rubber  
grinding  
2,500 cfm



**DWS**  
Granite finishing  
22,000 cfm



**DLMC**  
Paper dust  
27,000 cfm



**MB**  
Glass processing  
25,000 cfm



# GRAIN & NUT APPLICATIONS



**LP**  
Almond dust  
300,000 cfm



**LP**  
Nut dust  
280,000 cfm



**DFO**  
Corn husking and sorting  
28,500 cfm



**CPV**  
Direct bin venting  
distributor head  
2,400 cfm



**RF**  
Grain terminal  
61,000 cfm



**RF**  
Grain terminal  
34,000 cfm



**CPC**  
Grain tripper conveyor  
18,700 cfm



# CEMENT APPLICATIONS



**CPV**  
Weigh belt feeder  
800 cfm



**CPV**  
Pneumatically  
filled storage bin  
1,200 cfm



**CPV**  
Bucket  
elevator  
1,200 cfm



**CPV**  
Feed hopper  
350 cfm



**CPV**  
Multiple  
cement silos  
4,800 cfm



**DFO**  
Concrete roof manufacturer  
3,000 cfm



**CPV**  
Multiple  
cement silos  
4,800 cfm

# WOODWORKING APPLICATIONS



**UMA**  
School wood shop  
2,000 cfm



**DFO**  
Sawdust  
57,500 cfm



**LP**  
Wood dust  
160,000 cfm



**RF**  
Wood furniture facility  
403,000 cfm



**CPC**  
Furniture manufacturing  
5,400 cfm



**FS**  
Woodworking  
20,000 cfm



**RF**  
Cabinet shop  
48,500 cfm



**IRD**  
Wood shop  
5,000 cfm



# ORIGINAL EQUIPMENT MANUFACTURERS

## CUSTOM SOLUTIONS FOR OEMS

OEMs have come to rely on Donaldson Torit to solve their filtration issues. Donaldson Torit offers flexible solutions customized to OEMs across a wide range of industries.

Donaldson Torit’s reputation has been built on its problem solving, quality solutions, and commitment to customers’ satisfaction even after the sale. And Donaldson Torit’s worldwide network allows it to provide local support that’s responsive and comprehensive – no matter where it’s needed.

A dedicated team of OEM account managers and engineers stands ready to solve even the most complex filtration issue.

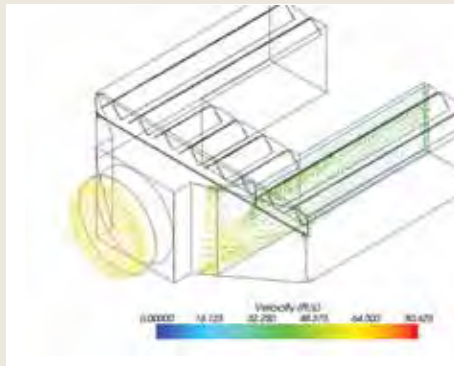
### MOBILE MINING APPLICATION

Donaldson Torit can design solutions to accommodate customer space constraints and integrate additional filtration technologies tailored to customer needs.



### PLASMA CUTTING

Donaldson Torit engineers can provide a unique, integral pre-separator for spark reduction in laser and plasma cutting.



### AIRFLOW MODELING ABRASION MODELING STRUCTURAL ANALYSIS

Only Donaldson Torit provides sophisticated engineering analysis tools to ensure proper airflow management, extended filter life, and reduced maintenance costs.



### RAIL GRINDING

Custom designs that accommodate unique customer space constraints are available.

# ANCILLARY PRODUCTS & REPLACEMENT PARTS

## COMPLETING THE FILTRATION SYSTEM

Donaldson Torit understands that high performance dust, fume and mist collectors are just the first step in keeping plants cleaner and more productive. Donaldson Torit's high performance ancillary products quickly and cost-effectively complete the system, whether a manufacturer is installing a new filtration system or expanding an existing filtration line.



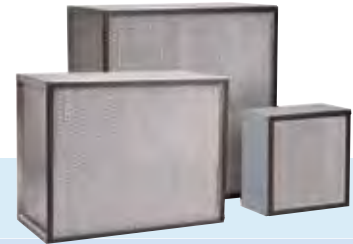
### EASY DUCT™

Easy Duct ductwork eliminates time-consuming operations like riveting, cutting, brazing, and welding for standard length piping. Easy Duct can be assembled and taken apart with no special tools, saving ducting each time a floor plan changes.



### DELTA P AND DELTA P PLUS CONTROLS

Delta P or Delta P Plus Controls are a key element of dust collector maintenance, measuring pressure drop across the filters to determine when servicing is needed. Recommended for all continuous-duty dust collection systems, Delta P monitors pressure drop so that filters are cleaned only when necessary, reducing compressed air usage and prolonging filter life.



### HEPA & 95% DOP FILTERS

Providing a high filtration efficiency of 99.97% at 0.3 microns, HEPA filters can be used as afterfilters for dust, fume and mist collection. Also available are panel filters with 95% DOP media or 95% ASHRAE media.



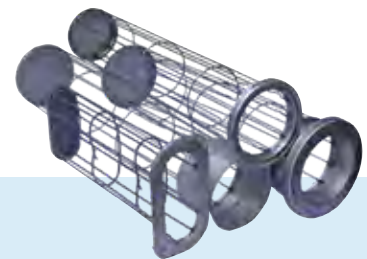
### ROTARY VALVES

Rotary Valves offer an economical solution for automated handling of most discharge dust. Available in three models: high pressure, low pressure, and sweeper valves. Rotary valves provide continuous dust disposal that keeps hoppers and collectors operating at peak performance, thereby reducing dust collector maintenance time and cost.



### FANS

**Torit Backward Inclined (TBI)** direct drive fans are available in sizes ranging from 3 hp to 30 hp. The TBI fan mounts directly to the clean-air plenum of the dust collector, eliminating costly transition ducting. **Torit Radial Blade (TRB)** fans are an economical, dependable radial fan with a direct-drive design to eliminate maintenance on fan bearings and belts. The TRB is available in sizes from 1 hp to 10 hp.



### CAGES

Replacement cages are available for Donaldson Torit baghouse collectors as well as many other popular makes and models. Cages are available in galvanized or stainless steel for ambient, high temperature, or highly corrosive environments.

## REPLACEMENT FILTERS

### COMPREHENSIVE OFFERING FOR A VARIETY OF EQUIPMENT BRANDS



Using Donaldson Torit cartridge, bag, and panel filters can significantly improve the performance of dust, fume and mist collectors. Uniquely engineered for longer filter life and higher filtration efficiency, Donaldson Torit cartridge and bag filters are the most cost-effective choice for any collector and any application.

Rely on Donaldson Torit for the most comprehensive selection of filters, for all popular brands of collectors. With hundreds of varieties to choose from and all in-stock orders shipped within 24 hours, Donaldson Torit is the best, most reliable source for high performance cartridge and bag filters.

No other filter manufacturer can match Donaldson Torit's technical expertise and commitment. For knowledgeable support and to determine the right filters for a specific application, call Donaldson Torit's customer service representatives at 800-365-1331 or visit [www.donaldsontorit.com](http://www.donaldsontorit.com) and click on "Search our Catalog."



### **DURA-LIFE™** for baghouse collectors

- AZO®
- Buhler
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