Donaldson. Torit

DUST, FUME & MIST

Collectors, Filters & Replacement Parts











THE MARKET LEADER

FOR LONG-TERM VALUE

For decades, Donaldson® Torit® has offered manufacturers advanced and reliable dust, fume and mist collectors and filters engineered to provide outstanding filtration efficiency and energy savings. The pairing of these industry-leading collectors and filters helps increase manufacturing efficiencies and cleaner environments for employees.

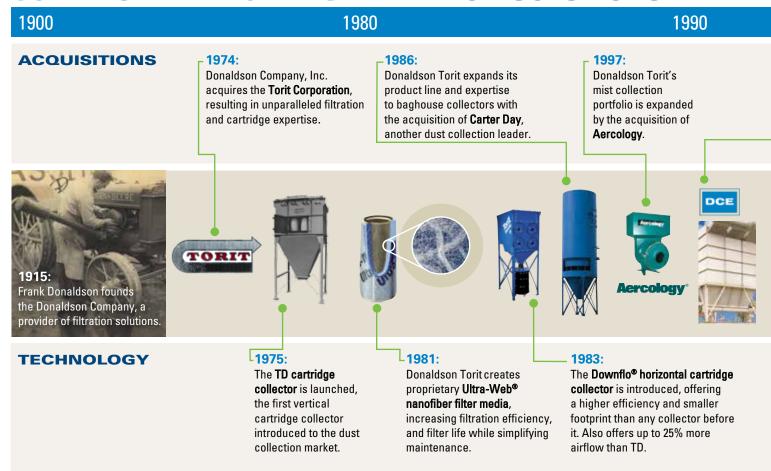
When efficiency is maximized and employees are at their peak, so is the manufacturer's productivity—and ultimately, its bottom line. Donaldson Torit products can help safeguard that bottom line with innovative collectors and filters, expertly engineered by its unparalleled team of R&D engineers to provide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

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

SUPERIOR PERFORMANCE

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

CONTINUALLY EVOLVING FILTRATION SOLUTIONS



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.

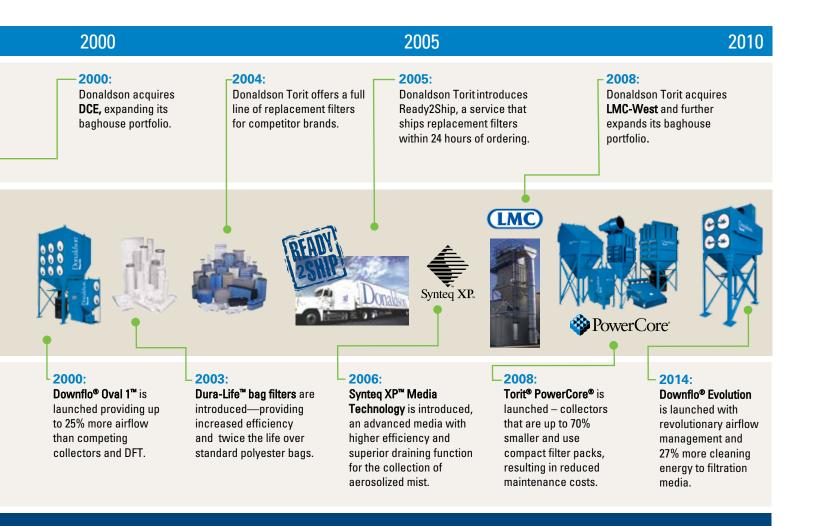
Proprietary Ultra-Web® nanofiber filter media - the first of its kind - was developed by Donaldson. On the market for three decades, this media technology increases filtration efficiency and simplifies maintenance.

RELIABILITY

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

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.



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. Less steel and oil are required to manufacture and transport collectors that are 50 - 70 percent smaller than traditional collectors. Clean-side filter pack access and fewer, lighter filter packs mean faster, easier filter changes without tools or filter cages. An optimized airflow management system delivers optimal pulse cleaning while minimizing airflow restriction. Also, collectors are shipped with filter packs installed.

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. 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.



(13.600 cfm collectors) Torit PowerCore VH 2-8 (8 filter packs) vs. Traditional Baghouse (162 filters)



(11,200 cfm collectors) Torit PowerCore VL 2-8 (8 filter packs) vs. Traditional Baghouse (144 filters)



(5.000 cfm collectors) Torit PowerCore CPC-12 (12 filter packs) vs. Traditional Baghouse (81 filters)



(1.500 cfm collectors) Torit PowerCore CPV-3 (3 filter packs) vs. Traditional Bin Vent (16 filters)



(5.500 cfm collectors) Torit PowerCore TG4 (4 filter packs) vs. Traditional Collector (8 filters)

V Series

CP Series

TG Series

VH

VL

(450 - 8,200 cfm) (764 - 13,929 m³/h) Bin vent collector

CPV

designed for use in material-handling applications - even in tight spaces including silos, conveyor transfer points, conveyor

TG

(1,631 - 22,830 m³/h) Designed for thermally generated metalworking applications like

welding, laser and

(960 - 13,440 cfm)

plasma cutting, and thermal spray. No tools required T-Handles provide immediate access

discharges, blenders, and mixers. to the easy-grip PowerCore filter packs.

(5,000 - 40,800 cfm) (8,493 - 69,305 m³/h)

Specifically designed to handle abrasive dusts in the mining market and grinding and blasting applications in the metalworking market.

Filters are easily removed from the side of the collector without entering a confined space.

(4,800 - 33,600 cfm) (8,155 - 57,086 m³/h)

Employs a downward air pattern to force light and fibrous dust directly into the hopper. This includes pulsed dust that can often get re-entrained on adjacent filters or can bridge between filters. In addition, a single inlet manifold reduces ducting and installation costs.

(700 - 33,000 cfm) (1,189 - 56,055 m³/h)

CPC

A stand-alone collector that can be ducted to many different applications including grain, wood dust, plastic cutting, and food.

Tool-free filter changeout accessed on the clean side of the collector is faster and easier than a traditional baghouse collector.

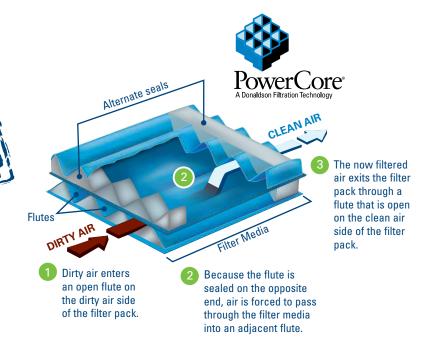
POWERCORE® MEDIA TECHNOLOGY

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.

HIGH PERFORMANCE FILTER MEDIA

- 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



ONE POWERCORE

REPLACES TO





SIX 8-ft. long bag filters





HREE cartridge filters





TWENTY 8-ft. long bag 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.



Downflo® Evolution

(750-80,000 cfm)

(1,189 - 5,096 m³/h)



Downdraft Bench

(700 - 3,000 cfm)



Downflo® WorkStation

(4,500 - 22,000 cfm)

(1,189 - 5,096 m³/h) (7,644 - 37,370 m³/h)



(90 - 102,000 cfm) (153 - 173,262 m³/h)



Downflo®



AT-3000 T-2000 **Weld Bench**

Easy-Trunk™ Porta-Trunk **Extraction Arms**

T-2000 (890 cfm)

(1,512 m³/h)

Weld Bench (2,000 - 3,000 cfm) (3,397 - 5,096 m³/h) (750 - 780 cfm)** (1,274 - 1,325 m³/h)

The DFE is a smaller cartridge collector with fewer filters. Airflow management directs incoming air to an intelligent dropout zone for reduced filter loading, and MaxPulse™ Cleaning System with a triagonal

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-ofa-kind series of cartridge dust collectors with oval-shaped filter technology, proprietary filter media and pulse cleaning that provides up to 25% more airflow capacity than same-sized round cartridge collectors.

T-2000 and AT-3000 ceilingmount, selfcontained source collectors capture fume generated in moderate-toheavy welding applications.

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 builtin manual pulse filter cleaning. Porta-Trunk is a static filter system.

filter delivers 27%

energy to filtration

more cleaning

media.

ULTRA-WEB® MEDIA TECHNOLOGY

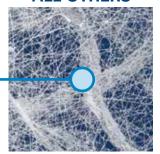
THE INVENTOR OF **ULTRA-WEB**

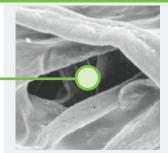
Proven for 30 years, advanced and improved many times over, proprietary Ultra-Web is the nanofiber media technology that outperforms all others; it delivers longer filter life, cleaner air, and greater savings.

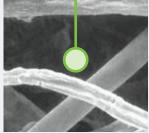
Donaldson® Torit® offers a complete line of Ultra-Web cartridge filters that last twice as long as or more than commodity cellulose and cellulose/synthetic (80/20) blend medias. The Ultra-Web surface-loading technology is scientifically proven to provide a lower operating pressure drop over a longer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

requiring less energy. **ULTRA-WEB OUTPERFORMS ALL OTHERS**

> 10 Micron **Particulate** at 600X

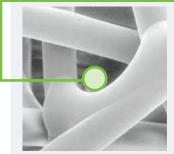


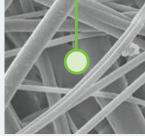




CELLULOSE

CELLULOSE/ SYNTHETIC





SPUNBOND

MELTBLOWN

1 micron = 1/25,400 of an inch (1/1,000 of a milimeter)

Ultra-Web nanofiber media is the most optimized and cost-effective choice available for most all 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 all popular brands of dust collectors





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

(2,000 - 197,000 cfm) (3,397 - 334,634 m³/h)

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.

Unimaster®

(120 - 10,000 cfm) (204 - 16,987 m³/h)

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).

Dalamatic® Cased - DLMC Insertable — DLMV

(170 - 85,000 cfm) (289 - 144,385 m³/h)

The Dalamatic line of collectors uses envelopeshaped bags that provide extra snap during pulsing for use in especially challenging dust applications. The DLMC is a standalone collector with hopper, while the DLMV comes without hopper for use in bin venting and transfer point applications.

IRD Dust Collector

(1,350 - 5,000 cfm) (2,293 - 8493 m³/h)

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.

Modular **Baghouse**

(1,150 - 65,000 cfm) (1,953 - 110,412 m³/h)

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.

DURA-LIFE™ FILTER MEDIA TECHNOLOGY

FOR TWICE THE LIFE

The most significant advancement in baghouse filter technology is the development of Dura-Life™ bag filters. 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 all popular brands of dust collectors





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

(450 - 5,550 cfm) (764 - 9,428 m³/h)

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™

(1,000 - 6,000 cfm) (1,699 - 10,192 m³/h)

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) (510 - 2,038 m³/h)

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

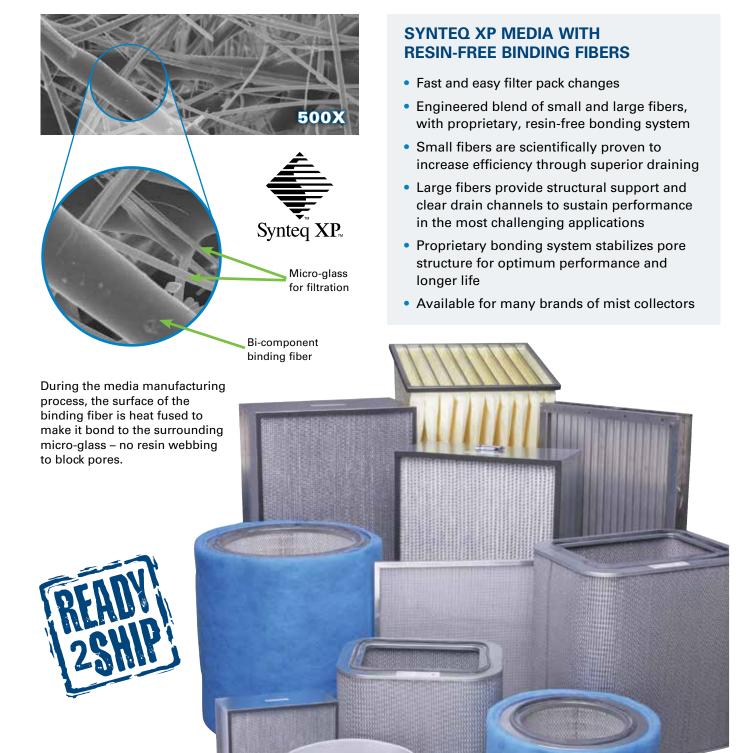
(100 - 1,000 cfm) (170 - 1,699 m³/h)

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.

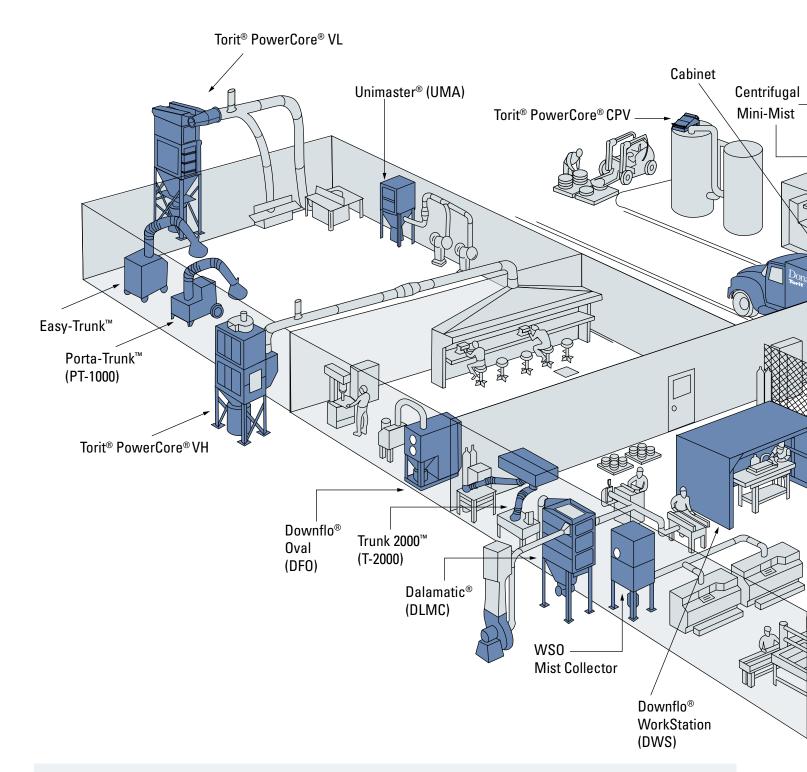
SYNTEQ XP™ MEDIA TECHNOLOGY

ADVANCED FILTER MEDIA FOR MIST

Proprietary 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.



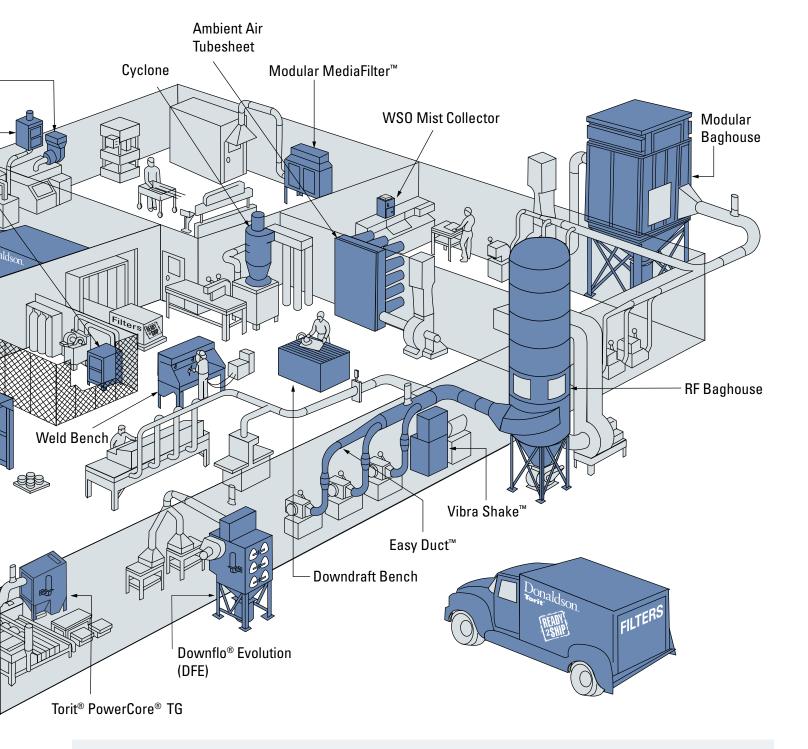
A RANGE OF COLLECTORS



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 PROTECTYOUR 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



TG on Plasma Cutting 2,300 cfm (3,90 m³/h)



DFO on Grinding 74,000 cfm (125,700 m³/h)



DWS ON Custom Hand Grinding 38,500 cfm (65,398 m³/h)



DFO on Plasma Cutting 5,000 cfm (8,493 m³/h)





DFO on Welding Fumes 53,000 cfm (90,028 m³/h) Left: outside Right: inside



DFO on Laser Cutting 3,100 cfm (5,266 m³/h)



TG on Plasma Cutting 3,400 cfm (5,775 m³/h)



DFO on Metal Grinding 31,000 cfm (52,658 m³/h)



DFO & CYCLONE on Thermal Spray 4,800 cfm (8,154 m³/h)



VH on **Grinding** 9,000 cfm (15,288 m³/h)



DFO on Thermal Spray 8,500 cfm (14,439 m³/h)



VH on Blasting 14,000 cfm (23,781 m³/h)



DFO on Metallizing Powder Flame 20,500 cfm (34,822 m³/h)

MIST APPLICATIONS



DMC on Machining 800 cfm (1,359 m³/h)



DMC on Wet Machining 390 cfm (662 m³/h)



WSO on Oil Mist 20,000 cfm (33,973 m³/h)



WSO - Horizontal Grinder 850 cfm (1,444 m³/h)



WSO at M3 Achining Center 1,200 cfm (2,038 m³/h)



WSO on Cold Forming 1,200 cfm (2,038 m³/h)



MODULAR MEDIAFILTER™ on Grinding 2,000 cfm (3,397 m³/h)

PROCESSING/POWDER **& BULK APPLICATIONS**



DFE on Rubber Hose Cutting 2,800 cfm (4,757m³/h)



DFO on Paint & Pigment 1,200 cfm (2,038 m³/h)



DFO on Plastics Routing 16,000 cfm (27,184 m³/h)



CPC on Milk Powder 1,200 cfm (2,038 m³/h)



MB on Glass Processing 25,000 cfm (42,466 m³/h)



DWS on Granite Finishing 22,000 cfm (37,370 m³/h)



DLMC on Paper Dust 27,000 cfm (45,864 m³/h)



DLMC on Rock Crushing 41,000 cfm (69,645 m³/h)

GRAIN & NUT APPLICATIONS



LP on Almond Dust 300,000 cfm (509,595 m³/h)



CPV - Direct Bin Venting Distributor Head 2,400 cfm (4,077 m³/h)



LP on Nut Dust 280,000 cfm (475,622 m³/h)



RF - Grain Terminal 34,000 cfm (57,754 m³/h)



CPC - Grain Tripper Conveyor 18,700 cfm (31,765 m³/h)



RF - Grain Terminal 61,000 cfm (103,618 m³/h)



DFO on Corn Husking & Sorting 28,500 cfm (48,412 m³/h)

CEMENT APPLICATIONS



CPV - Pneumatically Filled Storage Bin 1,200 cfm (2,038 m³/h)



CPV - Weigh Belt Feeder 800 cfm (1,359 m³/h)



CPV - Multiple Cement Silos 4,800 cfm (8,154 m³/h)



CPV - Feed Hopper 350 cfm (595 m³/h)



CPV - Multiple Cement Silos 4,800 cfm (8,154 m³/h)



CPV - Bucket Elevator 1,200 cfm (2,038 m³/h)



DFO - Concrete Roof Manufacturer 3,000 cfm (5,096 m³/h)

WOODWORKING APPLICATIONS



UMA - School Wood Shop 2,000 cfm (3,397 m³/h)



CPC - Furniture Manufacturing 5,400 cfm (9,173 m³/h)



FS on Woodworking 20,000 cfm (33,973 m³/h)



DFO on Sawdust 57,500 cfm (97,692 m³/h)



LP on Wood Dust 160,000 cfm (271,784 m³/h)



RF - Cabinet Shop 48,500 cfm (82,385 m3/h)



RF - Wood Furniture Facility 403,000 cfm (684,556 m³/h)



IRD - Wood Shop 5,000 cfm (8,493 m³/h)

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.



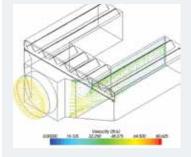
MOBILE MINING APPLICATION

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



RAIL GRINDING

Custom designs that accommodate unique customer space constraints are available.



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.



PLASMA CUTTING

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

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 continuousduty 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.



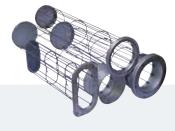
ROTARY VALVES

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 cleanair 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





for baghouse collectors

- AZO®
- Buhler
- Carter Day
- DCE
- Flex-Kleen
- Golfetto
- Kice
- MAC
- MikroPul
- Murphy
- Pneumafil
- Steelcraft®
- Wheelabrator
- + Many others



ULTRA-WEB[®]

for cartridge collectors

- AAF®
- Aercology®
- Airflow® Systems
- Clemco®
- Environmental Systems Designs
- Farr
- Geoff
- MAC
- Micro Air®
- Nordson
- Pneumafil Robovent®
- Steelcraft®
- Trion®
- **UAS®**
- Wheelabrator
- + Many others

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Global Support

- Facilities in 37 countries
- 40 manufacturing plants and 14 distribution centers

Leading Technology

- Over 1,000 engineers and scientists worldwide
- Broad range of innovative collectors and filters
- 100s of filter media formulations

Experience and Service

- Technical expertise and support
- Ready-to-ship filters and parts within 24 hours

Call Donaldson® Torit® to get cleaner air today:

800-365-1331

DonaldsonTorit.com



el 800-365-1331 (USA)

el 800-343-3639 (within Mexico)

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EXACTLY WHAT YOU NEED.™

General Brochure (10/13)

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