

### DUST, FUME & MIST

Collectors, Filters & Replacement Parts











### THE MARKET LEADER

#### FOR LONG-TERM VALUE

For decades, Donaldson<sup>®</sup> Torit<sup>®</sup> 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.

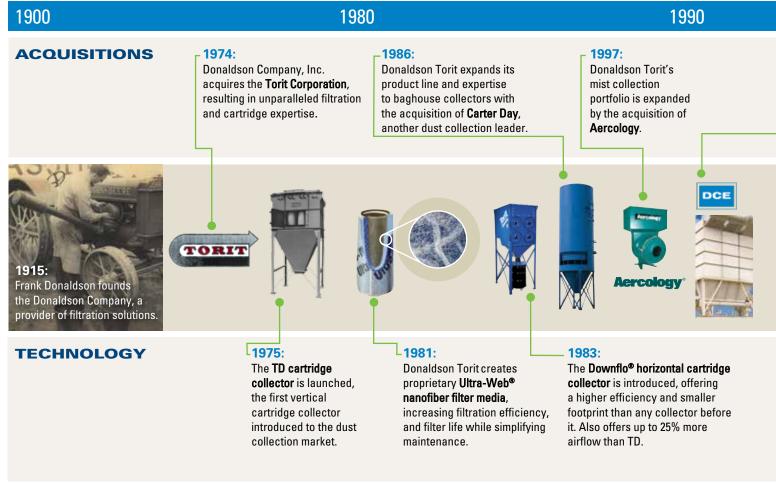
When efficiency is maximized and employees are at their peak, so is the manufacturer's productivity—and ultimately, its bottom line. Donaldson Torit products can help safeguard that bottom line with innovative collectors and filters, expertly engineered by its unparalleled team of R&D engineers to provide 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<sup>®</sup> Torit<sup>®</sup> has led the way for continuous innovation with award-winning products such as Torit<sup>®</sup> PowerCore<sup>®</sup> dust collectors and filter packs.

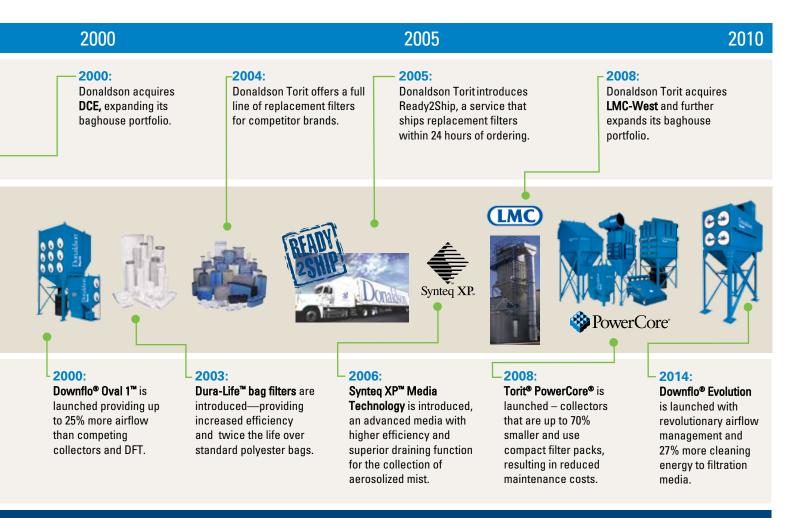
Proprietary Ultra-Web<sup>®</sup> nanofiber filter media – the first of its kind – was developed by Donaldson. On the market for three decades, this media technology increases filtration efficiency and simplifies maintenance.

#### 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<sup>®</sup> POWERCORE<sup>®</sup> COLLECTORS

#### SMALLER. SMARTER.

Torit<sup>®</sup> PowerCore<sup>®</sup> dust collectors with PowerCore<sup>®</sup> 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<sup>®</sup> PowerCore<sup>®</sup> 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)

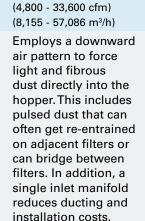
#### V Series

#### CPC VH VL CPV

(5,000 - 40,800 cfm) (8,493 - 69,305 m<sup>3</sup>/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.



(700 - 33,000 cfm) (1,189 - 56,055 m<sup>3</sup>/h)

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.

### (450 - 8,200 cfm)

**CP** Series

(764 - 13,929 m<sup>3</sup>/h) Bin vent collector designed for use in material-handling applications - even in tight spaces including silos, conveyor transfer points, conveyor discharges, blenders, and mixers.

### **TG** Series

TG

(960 - 13,440 cfm) (1,631 - 22,830 m<sup>3</sup>/h)

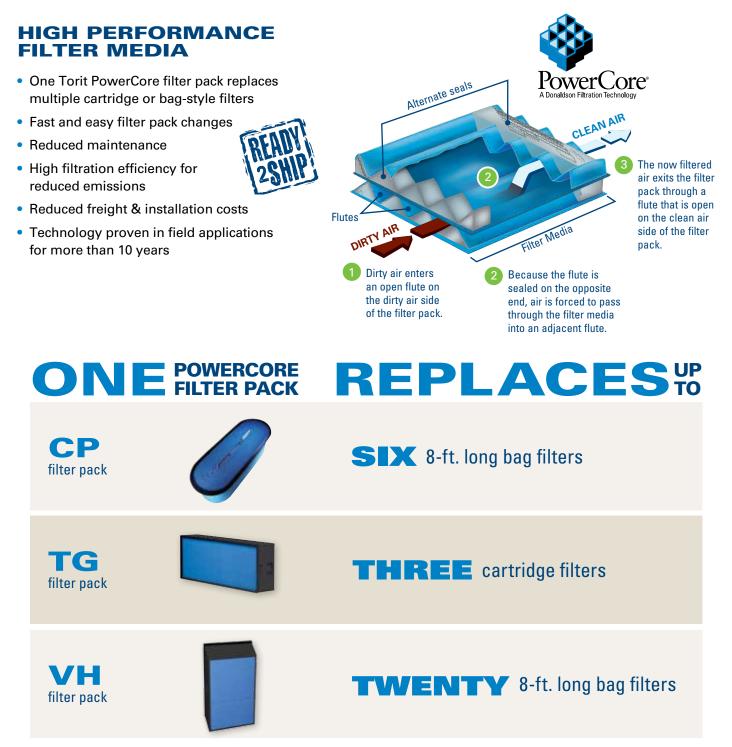
Designed for thermally generated metalworking applications like welding, laser and plasma cutting, and thermal spray.

No tools required T-Handles provide immediate access to the easy-grip PowerCore filter packs.

### **POWERCORE® MEDIA TECHNOLOGY**

#### **LEADING THE WAY WITH POWERCORE**

PowerCore<sup>®</sup> media technology is integral to the dramatic downsizing of the Torit<sup>®</sup> PowerCore<sup>®</sup> collector. PowerCore<sup>®</sup> filter packs combine Ultra-Web<sup>®</sup> 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<sup>®</sup> PowerCore<sup>®</sup> filter pack replaces multiple cartridge or bag-style filters. With more media packed into a smaller space and a simplified airflow path, PowerCore<sup>®</sup> filter packs provide high performance with a low pressure drop.

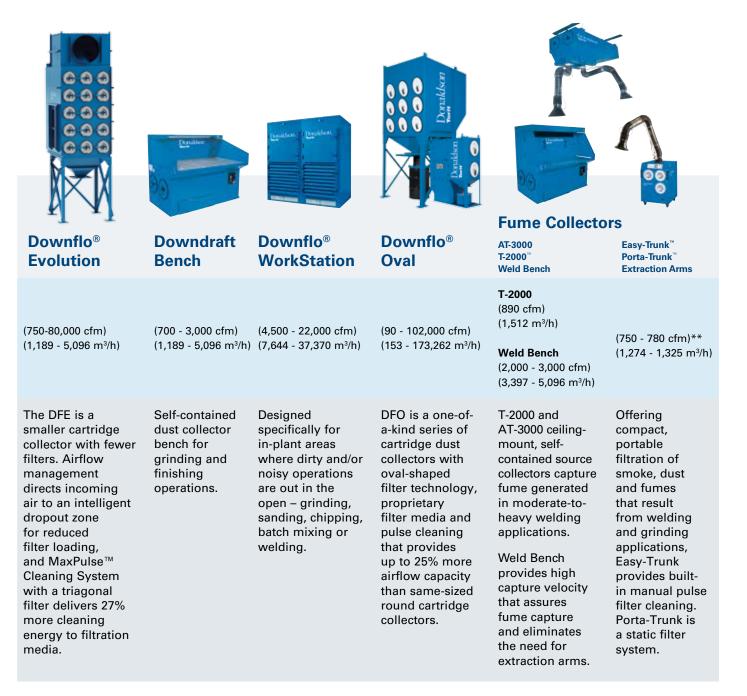


# **CARTRIDGE COLLECTORS**

#### THE INVENTOR OF THE CARTRIDGE COLLECTOR

As the inventor of the cartridge collector, Donaldson<sup>®</sup> Torit<sup>®</sup> has led the way with continuous innovation, such as the award-winning Downflo<sup>®</sup> 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.



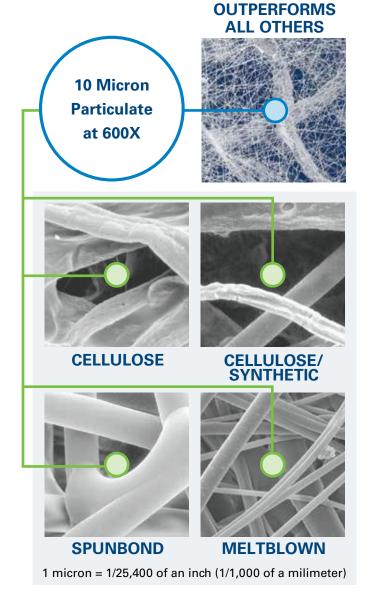
### **ULTRA-WEB® MEDIA TECHNOLOGY**

#### 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<sup>®</sup> Torit<sup>®</sup> 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 **ULTRA-WEB** 

requiring less energy.



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





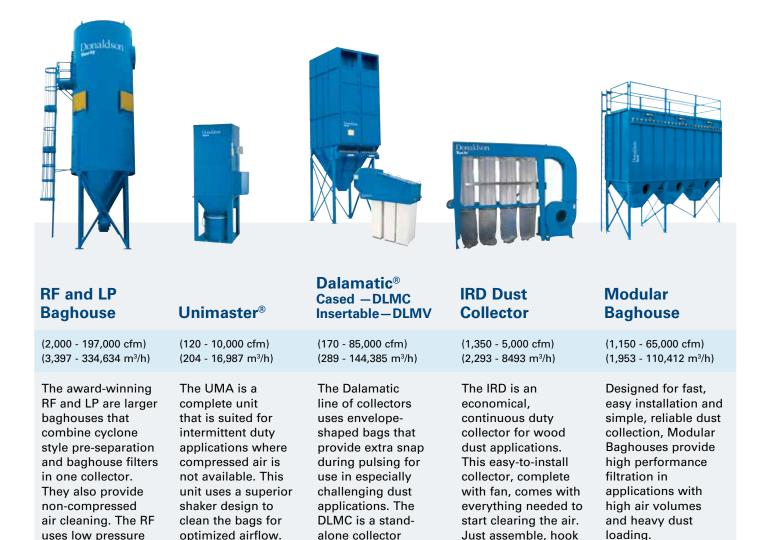
**ULTRA-WEB**<sup>®</sup> **3 DECADES OF LEADERSHIP & OVER 5 MILLION FILTERS SOLD** 

# **BAGHOUSE COLLECTORS**

#### THE RIGHT BAGHOUSE FOR THE APPLICATION

Donaldson<sup>®</sup> Torit<sup>®</sup> offers a complete line of dependable, rugged baghouse dust collectors ranging from small Cyclones and Unimaster<sup>®</sup> 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<sup>®</sup>, 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<sup>™</sup> bag filters that provide longer filter life, increased efficiency, and reduced operating costs.



with hopper, while

without hopper for

use in bin venting

and transfer point applications.

the DLMV comes

up ductwork and let

it go.

7 Donaldson Torit

cleaning.

cleaning while the

LP uses reverse air

Everything needed

one compact unit

(including fan and

is packaged in

controls).

### DURA-LIFE<sup>™</sup> FILTER MEDIA TECHNOLOGY

#### FOR TWICE THE LIFE

The most significant advancement in baghouse filter technology is the development of Dura-Life<sup>™</sup> bag filters. Bags made from Dura-Life<sup>™</sup> 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.



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<sup>m</sup>.

#### DURA-LIFE<sup>™</sup> BAGS PROVIDE BIG BENEFITS

Dura-Life<sup>™</sup> 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<sup>®</sup> Torit<sup>®</sup> provides a comprehensive range of mist collectors, each providing the peace of mind manufacturers need to be productive and efficient.

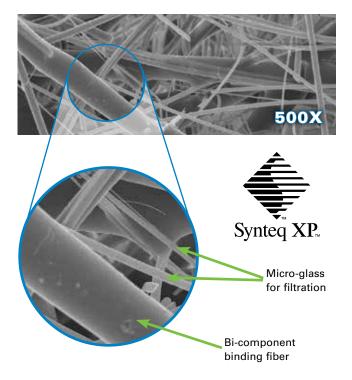
Rely on Donaldson Torit for the most advanced mist collection technology.



### SYNTEQ XP<sup>™</sup> 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.



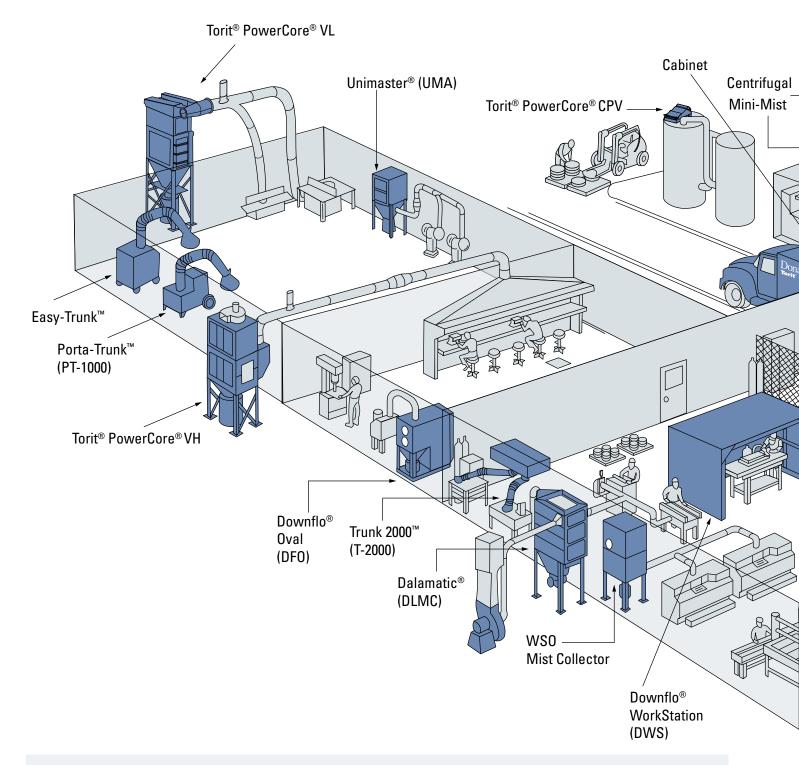
#### SYNTEQ XP MEDIA WITH RESIN-FREE BINDING FIBERS

- Fast and easy filter pack changes
- 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.



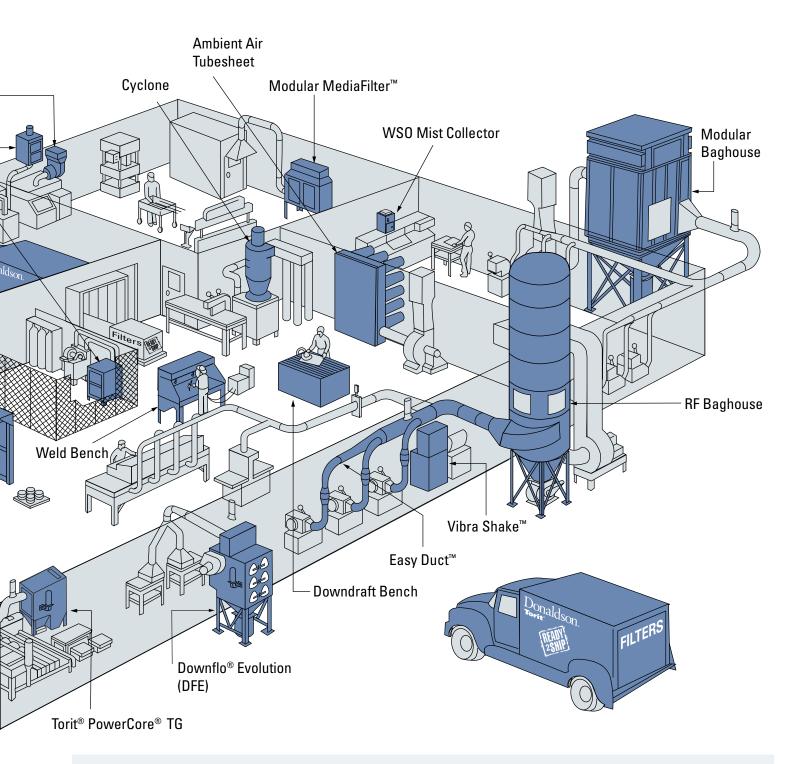
### **A RANGE OF COLLECTORS**



#### **OSHA & NFPA REQUIREMENTS**

Donaldson<sup>®</sup> Torit<sup>®</sup> 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**



**TG on Plasma Cutting** 2,300 cfm (3,90 m<sup>3</sup>/h)



**DFO on Grinding** 74,000 cfm (125,700 m<sup>3</sup>/h)



DFO on Plasma Cutting 5,000 cfm (8,493 m<sup>3</sup>/h)



DWS ON Custom Hand Grinding 38,500 cfm (65,398 m<sup>3</sup>/h)



DFO on Welding Fumes 53,000 cfm (90,028 m<sup>3</sup>/h) Left: outside Right: inside





**TG on Plasma Cutting** 3,400 cfm (5,775 m<sup>3</sup>/h)



DFO on Laser Cutting 3,100 cfm (5,266 m<sup>3</sup>/h)



**VH on Grinding** 9,000 cfm (15,288 m<sup>3</sup>/h)



DFO & CYCLONE on Thermal Spray 4,800 cfm (8,154 m<sup>3</sup>/h)



DFO on Metal Grinding 31,000 cfm (52,658 m<sup>3</sup>/h)



DFO on Metallizing Powder Flame 20,500 cfm (34,822 m<sup>3</sup>/h)



VH on Blasting 14,000 cfm (23,781 m<sup>3</sup>/h)



DFO on Thermal Spray 8,500 cfm (14,439 m<sup>3</sup>/h)

### **MIST APPLICATIONS**



DMC on Wet Machining 390 cfm (662 m<sup>3</sup>/h)



WSO - Horizontal Grinder 850 cfm (1,444 m<sup>3</sup>/h)



MODULAR MEDIAFILTER<sup>™</sup> on Grinding 2,000 cfm (3,397 m<sup>3</sup>/h)



DMC on Machining 800 cfm (1,359 m<sup>3</sup>/h)



WSO on Oil Mist 20,000 cfm (33,973 m<sup>3</sup>/h)



WSO at M3 Achining Center 1,200 cfm (2,038 m<sup>3</sup>/h)



WSO on Cold Forming 1,200 cfm (2,038 m<sup>3</sup>/h)

### **PROCESSING/POWDER** & BULK APPLICATIONS



DFO on Plastics Routing 16,000 cfm (27,184 m<sup>3</sup>/h)



DFO on Paint & Pigment 1,200 cfm (2,038 m<sup>3</sup>/h)



DFE on Rubber Hose Cutting 2,800 cfm (4,757m<sup>3</sup>/h)



DWS on Granite Finishing 22,000 cfm (37,370 m<sup>3</sup>/h)



MB on Glass Processing 25,000 cfm (42,466 m<sup>3</sup>/h)



CPC on Milk Powder 1,200 cfm (2,038 m<sup>3</sup>/h)



DLMC on Rock Crushing 41,000 cfm (69,645 m<sup>3</sup>/h)



DLMC on Paper Dust 27,000 cfm (45,864 m<sup>3</sup>/h)

# **GRAIN & NUT APPLICATIONS**



CPV - Direct Bin Venting Distributor Head 2,400 cfm (4,077 m<sup>3</sup>/h)



LP on Almond Dust 300,000 cfm (509,595 m<sup>3</sup>/h)



CPC - Grain Tripper Conveyor 18,700 cfm (31,765 m<sup>3</sup>/h)



**RF - Grain Terminal** 34,000 cfm (57,754 m<sup>3</sup>/h)



**LP on Nut Dust** 280,000 cfm (475,622 m<sup>3</sup>/h)



DFO on Corn Husking & Sorting 28,500 cfm (48,412 m<sup>3</sup>/h)



**RF - Grain Terminal** 61,000 cfm (103,618 m<sup>3</sup>/h)

### **CEMENT APPLICATIONS**



CPV - Weigh Belt Feeder 800 cfm (1,359 m<sup>3</sup>/h)



CPV - Feed Hopper 350 cfm (595 m<sup>3</sup>/h)



DFO - Concrete Roof Manufacturer 3,000 cfm (5,096 m<sup>3</sup>/h)



CPV - Pneumatically Filled Storage Bin 1,200 cfm (2,038 m<sup>3</sup>/h)



CPV - Multiple Cement Silos 4,800 cfm (8,154 m<sup>3</sup>/h)



CPV - Multiple Cement Silos 4,800 cfm (8,154 m<sup>3</sup>/h)



CPV - Bucket Elevator 1,200 cfm (2,038 m<sup>3</sup>/h)

### **WOODWORKING APPLICATIONS**



FS on Woodworking 20,000 cfm (33,973 m<sup>3</sup>/h)



**RF - Cabinet Shop** 48,500 cfm (82,385 m<sup>3</sup>/h)



CPC - Furniture Manufacturing 5,400 cfm (9,173 m<sup>3</sup>/h)



**LP on Wood Dust** 160,000 cfm (271,784 m<sup>3</sup>/h)



UMA - School Wood Shop 2,000 cfm (3,397 m<sup>3</sup>/h)



**DFO on Sawdust** 57,500 cfm (97,692 m<sup>3</sup>/h)



**IRD - Wood Shop** 5,000 cfm (8,493 m<sup>3</sup>/h)



RF - Wood Furniture Facility 403,000 cfm (684,556 m<sup>3</sup>/h)

### ORIGINAL EQUIPMENT MANUFACTURERS

#### **CUSTOM SOLUTIONS FOR OEMS**

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

DonaldsonTorit's reputation has been built on its problem solving, quality solutions, and commitment to customers' satisfaction even after the sale. And DonaldsonTorit'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.



### ANCILLARY PRODUCTS & REPLACEMENT PARTS

#### **COMPLETING THE FILTRATION SYSTEM**

Donaldson<sup>®</sup> Torit<sup>®</sup> 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<sup>™</sup>

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.

#### **Global Support**

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

#### LeadingTechnology

- 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



#### **EXACTLY WHAT YOU NEED.**\*\*

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