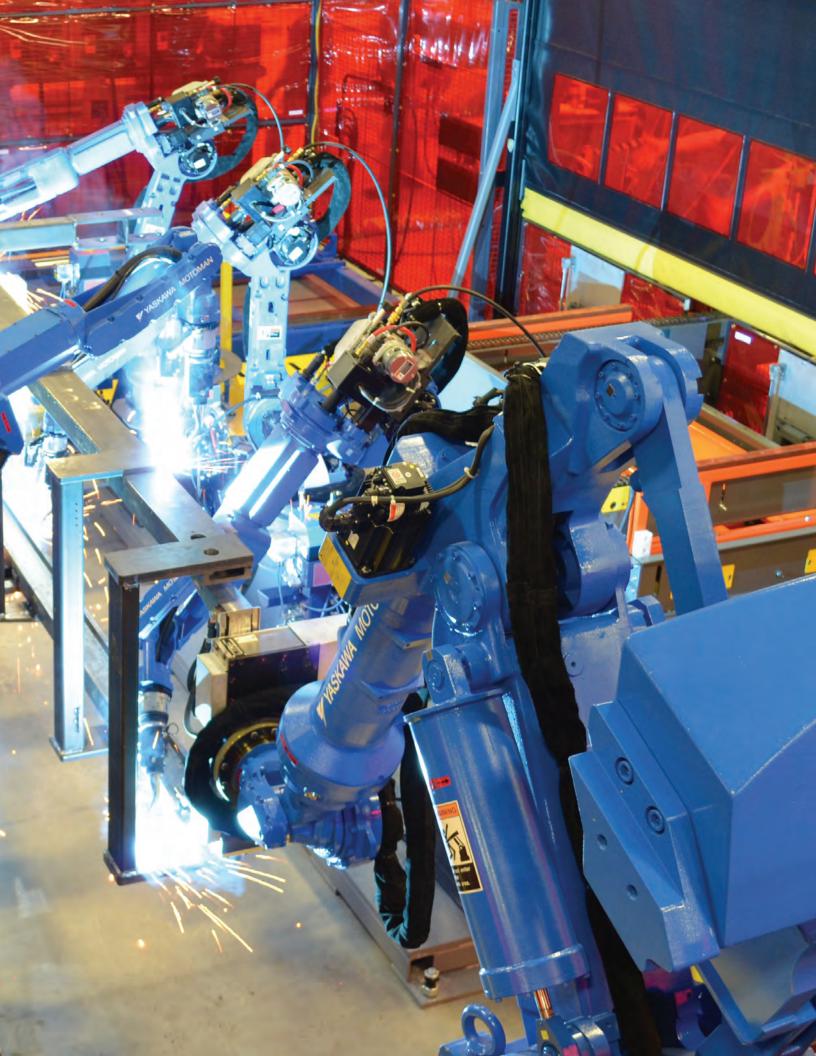


**Robotic Solutions** 







# Spire<sup>™</sup>: Powerful filtration with the smallest footprint in the industry.

If you're using robotic welding cells, Spire may be the right system for you. Spire is perfect for factory environments where space is at a premium. Spire is a flexible, cost-effective alternative to centralized ducted systems.

Each Spire unit can provide effective filtration for an individual or multiple welding cells. It's a powerful system that can keep up with the heavy demands of robotic welding in a high-production factory.

Spire features:

- **Small footprint:** Our floor-saving design takes up about the same amount of space as a wire barrel.
- Built-in spark arrestance: Our proprietary Delta3<sup>™</sup> spark arrestance system comes standard with every unit for superior fire safety.
- Very low maintenance: Everything is easily accessible for fast filter changes and maintenance—no special tools required. And our proprietary eTell™ system makes maintenance headache-free.
- Flexibility: Since the Spire units have a very small footprint, it's
  easy to find space for them. And whenever you need to change
  your floor configuration, Spire is easy to move right along with
  your welding cell.

## **Spire Configuration**

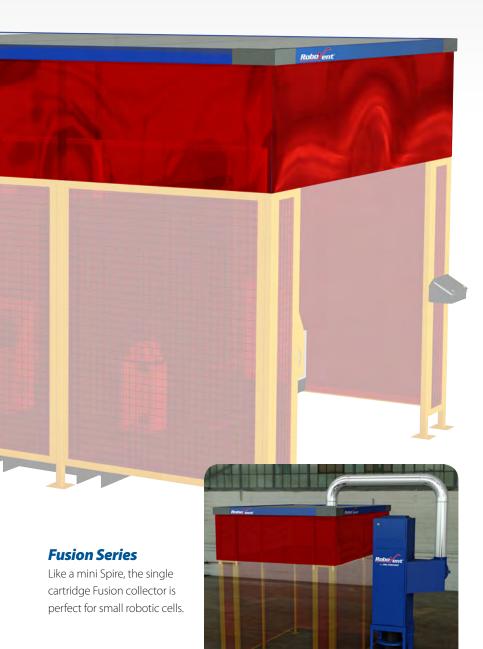
Robo ent

Here is a sample plant layout with 11 welding cells - each with its own Spire fume collector ducted to the Streamline Hood that is above each cell.



# **Spire**

- **Small Footprint**
- **Built-in Spark Arrestance**
- **Very Low Maintenance**
- **Flexible**





Our proprietary Delta3 spark arrestance system comes standard with every Spire unit for superior fire safety. Delta3 uses centrifugal force to eliminate sparks at the source before entering the ductwork, or worse, the filter cabinet.

#### eTell™ Intelligent Controls

Each Spire unit comes standard with eTell, a revolutionary control system that learns your systems and routines, makes automatic adjustments to save energy and extend filter life. Push notifications and custom alerts are triggered when maintenance is needed.

### **SafeSensor**<sup>™</sup> **Particulate Monitoring**

SafeSensor is the Spire's advanced particulatemonitoring device that can detect leaks past the filters. If one should occur, SafeSensor will shut the equipment down and trigger an alarm.

#### **Internal Hopper**

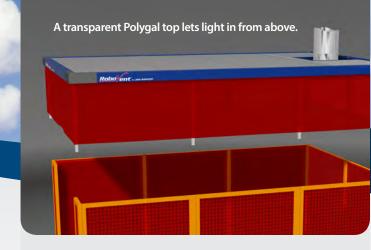
Dust is collected in easy-access dual internal hoppers. Just connect a standard shop vac to the 2" (50.8 mm) clean-out ports to remove the particulate from the internal hoppers. You could also connect these ports to a vacuum system for continuous removal of the dust.

#### **eDrive**<sup>™</sup> **Automatic VFD** (optional)

The eDrive constantly monitors airflow and automatically adjusts the motor RPM to compensate for filter loading. Energy peaks and valleys are evened out and energy usage is cut by 20% to 30%, while filter life is extended by as much as 30%.

## Supprex200™ Fire Suppression System (optional)

This is a dual-stage system activated by smoke and heat. If smoke is detected, a fire damper closes, stopping all airflow and oxygen supply. If heat is detected, FM-200 gas is deployed, instantly suppressing the fire.



# The RoboVent Streamline Hood: We've Got You Covered

The RoboVent Streamline hood is a simple solution for robotic welding and cutting cells. It's available in a variety of sizes to accommodate single or multiple robot systems and many configurations including turntable, ferris wheel and headstock/tailstock. Our modular design makes installation and modification quick and easy. The Streamline hood uses economical standardized parts that can be easily assembled, disassembled and reused. And everything is built with RoboVent quality for exceptional durability.

#### **Features and Options:**

- Comes in eight standard sizes, from  $5' \times 5'$  (1.52 m x 1.52 m) to 20'x 20' (6.10 m x 6.10 m). Larger sizes available on demand.
- The entire unit ships flat for easy transport, delivery and storage.
- Low profile is perfect for environments with overhead cranes.
- Hood mounts directly to guarding.
- Interior cross-supports can accommodate lighting fixtures.
- Optional crane slots allow cranes to be used without fumes escaping.
- Optional duct connector hooks into your existing dust collection system.





# **An Option for Everyone**

We know that no two clients are the same, and we are committed to finding the right solution for today...and tomorrow. In addition to our space-saving Spire configuration, you can also choose from our traditional ducted configurations and our FloorSaver system.



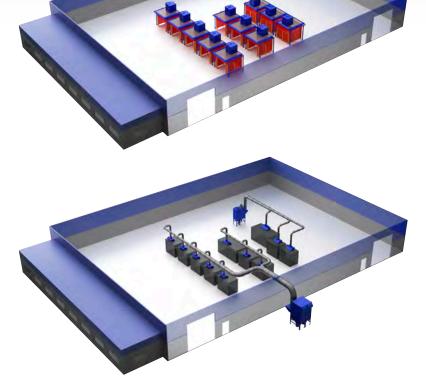
## FloorSaver<sup>™</sup> Configuration: A stacked solution for maximum floor space.

Maximize your floor space! The RoboVent FloorSaver System stacks the collector right on top of the weld cell hood. With built-in spark arrestance and powerful filtration, FloorSaver provides dedicated air filtration for each weld cell. The innovative stacked configuration frees up 20%-40% more floor space for other equipment.



Our traditional ducted solutions are engineered to meet your exact needs today. While less flexible than our grid system, a traditional configuration maximizes performance with ductwork sized for optimal airflow for your specific applications. Choose from a wide range of options, ranging from full-plant systems with large indoor or outdoor collectors or smaller units ducted to a specific cell or group of cells.

**Optimal performance for today** 



## **Configuration Comparison**

	Traditional Ducted	FloorSaver	Spire
Flexible	*	****	****
Operating Cost	***	***	****
Energy Efficiency	***	***	***
Ease of Cleaning	***	***	****

Manual Welding Fume Extraction





Integrated Cooling Equipment



Robotic Welding Fume Collection



Maintenance Programs



Oil Mist Extraction



Full-Plant / Ambient Air Cleaning Systems

Dust Collection Systems



Mobile Dust Collectors



Laser & Plasma Cutting Fume Collection









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