

# Static Control Solutions for Industry



In the presence of static electricity, materials can stick to or repel each other and dust or contaminants can attract to equipment surfaces and products. This static causes interrupted production, slowed production speeds, decreased product quality, increased rejects, and personnel may experience electrostatic shock.

TAKK static elimination products are designed and engineered to handle your toughest and most costly static electricity problems in the widest possible variety of **industrial applications**:

- Converting
- Textiles
- Printing
- Electronics
- Packaging
- Plastics
- Painting & Finishing
- General Manufacturing

## Benefits of TAKK static elimination products:

- Operate machines at higher speeds with fewer malfunctions
- Process materials more efficiently with fewer rejects and less waste
- Prevent soiling and contamination of products by dust particles
- Protect machine operators from shocks or more serious injury
- Significantly improve product quality

## Types of TAKK static control products:

- Static Eliminator Bars
- Anti-Static Blowers, Precision Point and In-line Ionizers
- Static Generators, Charging Bars & Static Pinner
- Measuring & Monitoring Devices
- Passive (no power needed) Static Neutralizers



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## Static Eliminator Bars



### IonStorm XR2 (Model 300)

#### Pulsed DC extended range system

- Features the XR2 Bar & 3750 Controller
- Projects a powerful static elimination field from a distance up to 36" from target surface
- Maximum effectiveness at the highest production speeds and under confined conditions
- Low profile XR2 Bars are available in 10" to 110" lengths in ten inch increments
- Controller's settings allow adjustment of voltage, frequency and polarity to match the exact level of static elimination needed

### IonStorm XR2 Single Point

- Precise static control in confined areas



### Ion-Edge (Model 400T)

#### Medium range AC bar

- Effective 7" or more from target surfaces
- Eliminates high charge static at production speeds of 2000 feet or more
- Compact unit
- Features resistively coupled, stay-sharp stainless steel emitters
- Compatible with most power supplies from 4 to 8 kilovolts
- Standard and custom lengths 2" to 156" in one inch increments

### Ion-Edge with Air Bar

- Compressed air tube extends the effective static elimination range up to 8 feet
- Part and surface blow-off eliminates dirt and dust contamination



### Model 3024 Series

#### High Speed and Long Range versions

- Powerful static neutralization meets the requirements of high performance machinery
- Compact unit with built-in electronics
- Integrated high voltage power supply, requires only a low voltage 24V DC input
- Shockless, resistively coupled emitters made in tungsten for unlimited life
- Built-in remote monitor for operational status

### Model 3024-F

- High speed version for speeds up to 1000m/min (3280ft/min) and distances from 25mm to 100mm (.98" - 2.36")

### Model 3024-F

- Long range version for distances from 100mm to 500mm (3.94" to 19.69")

## Compressed Air Static Eliminators



### Ion-Jet Super Air-Knife

#### Static elimination plus blowoff

- Offers multiple benefits of static elimination and high velocity air cleaning and prepping of equipment and parts
- Coupled with the Model 400T AC Bar to produce a powerful ionization field that is distributed in a large jet stream of concentrated air
- Amplification ratios are 40:1
- Air savings of 40% to 90% over homemade tubes/pipes
- Available in 6" to 54" lengths in six inch increments
- Compressed air supply needed



### Model 5860 In-Line System

#### Compact compressed airline eliminator

- Use where ionization of an existing compressed airline is desired or in pneumatically operated systems
- Simply cut into the air line and insert the nozzle close to the discharge end of the line
- Air connector on the nozzle is 1/4 BSP; connector for 10 mm ID flexible pipe
- Uses TAKK Model 2000S power supply
- Constructed of stainless steel and nylon components, with PVC barbed fittings
- Compressed air supply needed



### IonBlast Model 5816 Blow-off Gun

#### Static-free clean work environment

- Heavy duty shockless ionized air gun
- Eliminates positive and negative static electricity from equipment and parts and removes dust and contaminants
- Quiet unit consists of a stainless steel ionization head and guard, with an air nozzle mounted on a rugged plastic airgun handle
- Uses TAKK Model 2000S power supply
- Compressed air supply needed



## Jupiter Model 3100

*Advanced long range static control system*

- Intelligent ionization technology provides unrivalled static neutralization performance at distances up to 60"
- All control and high voltage parts are internal and encapsulated for reliability and safety
- Very fast static decay performance
- Replaceable titanium emitters maintain optimal performance
- Shockless operation
- Available in 24", 30", 40", 50", 60", 70" lengths
- Powered by 24V DC power supply provided or user power supply



## NEOS Series

*Highest level of intelligence and performance*

- Ultra-high static elimination performance for most demanding applications
- Uses NEOS Reactive Intelligence – 2 auto & 3 manual settings for optimal control
- Remote and local monitoring of power status and "Clean Me" function
- Static neutralizing performance across full length of bar
- Shockless with durable tungsten emitters
- Reinforced bodies for durability with IP67 fully sealed protection
- 24VDC Supply. Source: PLC or Optional 110/220V power pack

*Static electricity can decrease productivity and erode profits.  
We have solutions. Ask our experts.*

## Static Generation



## Static Generators, Charging Bars, Pinners & Edgers

- Low cost means of temporary adhesion and pinning through the bonding force of static
- Effective, simple, non-marking, clean
- Bond similar or dissimilar materials, hold materials in place, eliminate air pockets
- Prevent plastic films from wandering on rewinders or shrinking on cooling cylinders

### Generators

- Generators available in negative or positive output voltage and in AC or DC models
- Solid state electronics and high frequency switching technology for stability, reliability

### Charging Bars

- Up to 156" lengths in one inch increments
- Standard lengths: 6", 12", 18", 24" and 36"

### Pinners & Edgers

- Static charging of small areas and pinning
- "Neck-in" applications on cast film lines, edge pinning of films, in-mold labeling

## Precision Point Ionizers



### Model 5851 Precision Point

*Precision elimination from small objects*

- Eliminates static from small targets such as yarn, trim, tapes, narrow webs, etc.
- Resistively coupled design produces high volume ionization
- Eliminates high static charges in a range up to 3" from target surface even at high production speeds
- Durable stainless steel; nylon cable guard

### Model 5854 Precision Point Ionizing Air Nozzle

- Precision elimination with compressed air
- Combines extended range (up to 6") static elimination with compressed air removal of dust and contaminants
- Compressed air supply needed

## Anti-Static Blowers



### Curtain-Air

*AC blower for wide & deep ionization*

- Projects an extra wide and deep field of static elimination
- Long range ionization of 8 feet or more with an enveloping "curtain" of ionization from 14" to 64" wide (depending on the model length)
- Models are available in lengths 20" to 70" in ten inch increments and can be combined
- No compressed air is necessary
- Plug-in unit is self-contained, including controls and blower



### Vortex

*AC blower engulfs static surfaces*

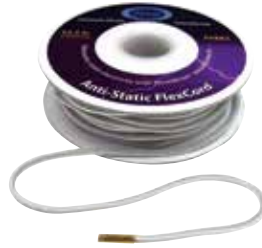
- Generates and projects an extra wide (18" x 18") and long range (10 feet plus) ionization field that surrounds static laden surfaces
- Economic, quiet and free of emission hazards
- Ready to plug into AC power source
- Air velocity is created by a centrifugal blower; no compressed air source is needed
- Fan has variable, controllable speed and volume
- Requires power supply

## Passive Static Eliminators



### Anti-Static 100% Copper Tinsel

- Most effective, low cost, low maintenance passive static eliminator
- Copper wire core ensures positive grounding and strength
- Fine, sharply pointed copper strands provide greater static elimination
- Self-energizing (no power needed)
- Does not spark or cause sparks and can be used in hazardous conditions
- Effectiveness increases as static does
- Available in 1.25" diameter x 72 feet boxes or 504 feet bulk spools



### Anti-Static FlexCord

- Constructed of conductive Thunderon® fiber
- Uses thousands of conductive micro points to eliminate static
- Self-energizing (no power needed)
- Does not spark or cause sparks and can be used in hazardous conditions
- Strong, lightweight, non-shedding
- Available in 32.5' rolls
- Stretches to 100% its length



### Anti-Static Copper Tinsel Bars

- Combines tinsel's low cost static elimination with the advantages of rigid bar mounting
- Replaceable tinsel insert mounted in a lightweight anodized aluminum holder
- Self-energizing (no power needed)
- Does not spark or cause sparks and can be used in hazardous conditions
- Specified lengths 6" to 96" in one inch increments
- Easy to install even in tight locations



### Anti-Static Nylon Fiber Brushes

- Eliminate static in a variety of industrial processing and business machines
- Conductive nylon fibers mounted in an anodized aluminum holder
- Self-energizing (no power needed)
- Can be used in hazardous conditions
- Lengths of 6" to 60" in six inch increments

### Anti-Static Spray

- Eliminates static at the press of a button
- Large 14 oz. aerosol can
- Use on feeder boards, machine guides, rollers, knife blades, carpets, etc



## Measuring & Monitoring



### Multi-Point Fieldmeter & Alarm System

- Full-time, plant-wide automatic defense against undetected static buildup
- 4 channel Static Monitor detects static levels in as many as four locations up to 1000 feet away
- Simple Windows® GUI interface for set up and control
- Built in, fully configurable dual level alarms programmable via front panel, PC or PLC



### Portable Electrostatic Fieldmeter

- Monitor charge buildup on webs during lamination, coating, manufacturing, printing
- Battery or line operation; AC power module
- Remote probe for easy monitoring of hard-to-reach locations up to 1000 feet
- Chopper stabilizer for accurate measurements in ionized environments
- Recorder output for unattended monitoring



### Model 5740 Static Meter

- Handheld LED static meter is the leader in its class for analysis of static problems
- Quickly registers positive and negative static charges of up to 200,000 volts, 100 volt resolution, on surfaces at a distance of 4"
- Detects where and how static is generated, plus the magnitude and polarity



### Model 9195 Neon Bar Checker

- Quickly check static bars for proper function
- Neon light signals to indicate each bar emitter is performing properly
- Use with shockless or "hot" eliminators



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