

static control made Easy!

Simco-Ion catalogue





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Mission

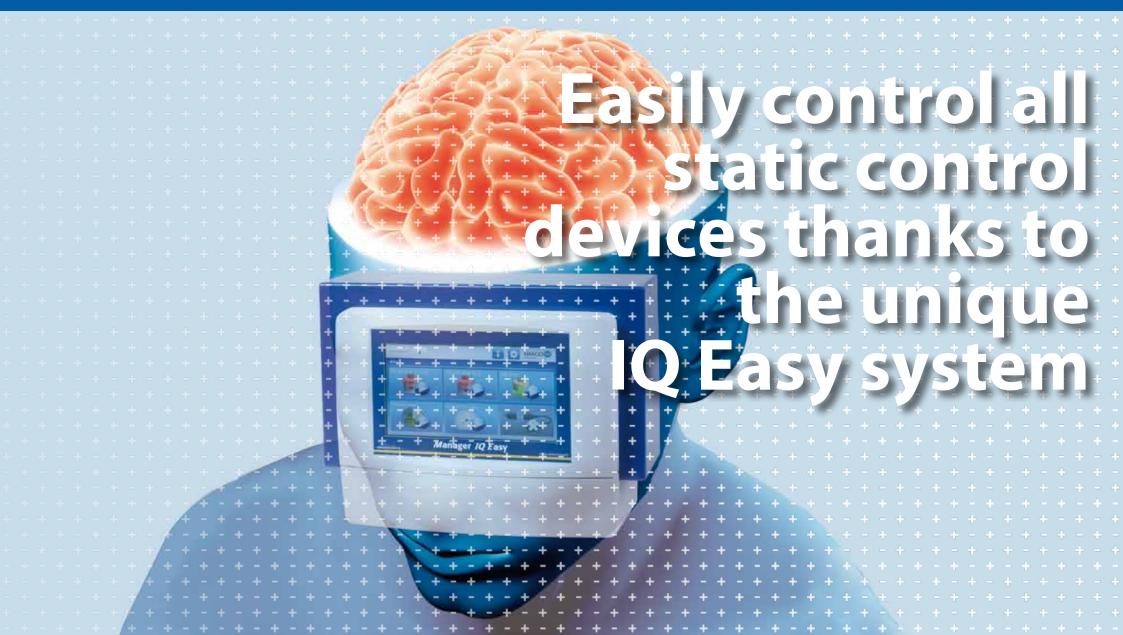
Simco-lon® Netherlands manufactures and supplies complete solutions for static control, static charging, surface cleaning, static measuring, perforation detection and IML applications in Europe, Africa and the Middle East. Our goal is to grow our business by being the highest value provider for our customers. We provide value through a combination of advanced technology, a full line of products, superior Customer Service, experienced application support and a competitive price/ value ratio.

Service









IQ Easy products

Meet high demands with intelligent static control

Even very low static charges can cause a problem in processing film for high-tech products. Simco-lon provides a solution to these challenges.

The demands from our customers are increasingly higher with regards to control and efficiency of anti-static equipment. Their end customer expects a very high quality product with very little, or no, static charge. These customers produce e.g. High quality film for electronics, medical applications or food packaging.

How will Simco-Ion meet these demands?

Simco-lon has recently introduced a completely new range of anti-static and static charging equipment that is capable of producing high efficiency ionisation to ensure optimal neutralisation called the IQ Easy platform. The heart of the system is the Manager IQ Easy which is a dedicated small industrial PC complete with touchscreen. The system enables communication between all connected devices. This means the operator has full control over the devices and can monitor and optimise all system and device parameters.



Manager IQ Easy

What makes this system better?

Conventional anti-static equipment does a very good job up to a certain level. Optimal neutralisation results are dependent on a lot of external conditions. Mounting distance, web speed, thickness of the material, upstream static charge, optimum settings of the anti-static device, output voltage, frequency and ionisation balance.

The intelligent IQ easy devices take a lot of these factors into account and will provide optimum settings for the device to ensure maximum neutralisation efficiency.

Automatic control

By adding a Sensor IQ Easy bar which measures the remaining static charge over the entire web, It becomes possible for the anti-static devices to read the measured data and to optimise the settings. This way the desired static level is reached. This closed loop feedback (CLFB) method provides outstanding results, even at very high web velocities. See the comparison between a standard anti-static bar and an anti-static bar controlled by CLFB.

Which other functions does it provide to make the operators life easier?

- A lot, here they are:
- Cleaning indication
- Efficiency indication
- Colour coded system information
- Data logging
- Action logging
- Plug and play
- Universal mounting
- No cable spaghetti
- Upstream static level
- Downstream static level (with Sensor IQ Easy)

Action logging gives information at a glance about events that have

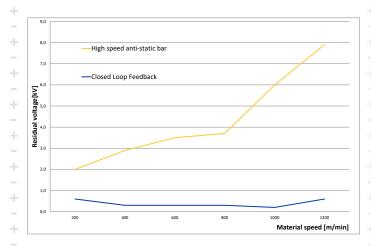
taken place, devices that have been set to standby, warnings and alarms. This enables easy fault finding.

Data logging is available for all devices. The data is stored in the manager and can be collected via the Ethernet port or USB.

Your process completely under control! That gives peace of mind!

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- Quality assurance by measuring the static charges and data logging.
 - Optimal control over all the static charges provides dependability.
- The lowest possible achievable residual charges allow you to meet the requirements of your end customer.
- Warnings and alarms give advance information about possible breaches
 of critical process parameters. This allows you to take action in time
 before your process is disrupted.
- Thanks to data logging and action logging you can trace where possible failures have occurred at any time.



IQ Easy products



Information is colour coded

What kind of interfaces are available?

Human interface via touchscree	en
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Standard analogue and digital I/O ports

Greenkes ActionLog

- Fieldbus
- Ethernet
- USB

Sonice Winder, 1 02-02-2023 10:32:59: MSG: CLEAR ALARMS/WARKINGS 02-02-2023 10:32:59: WRN: [LEVEL TOO HGGH] 02-02-2023 10:32:57: MSG: CLEAR ALARMS/WARKINGS 02-02-2023 10:32:57: WRN: LEVEL TOO HGGH 02-02-2023 10:32:57: STS: HAS WARKINGS 02-02-2023 10:32:57: STS: HAS WARKINGS 02-02-2023 10:32:49: STS: Alarms cleared 02-02-2023 10:32:49: MSG: CLEAR ALARMS/WARKINGS 02-02-2023 10:32:49: STS: Alarms cleared

DataLog

Action logging

The IQ Easy platform makes it easy to control all Simco-Ion-devices in a production process. Independent of their function, whether it is an anti-static bar, charging generator, perforation detector or measuring device, they can all communicate with the Manager IQ Easy, the heart of the new IQ Easy platform. The IQ Easy system is unique because all devices form a system and not as before all operate separately. No need for additional cables and individual power supplies.



Manager IQ Easy

The Manager IQ Easy makes it even more easier to control static electricity. The Manager IQ Easy is the heart of the new IQ Easy platform. It provides information from all the connected devices and makes it easy to change and monitor status and parameters. The 24V DC power distribution is routed via the Manager.

Features: 0 7" full colour touch screen 0 Information is colour coded 0 Controls up to 30 devices 0 Connection up to 6 devices 0 Analogue & digital inputs and outputs Serial fieldbus interfaces 0 Ethernet interface 0 0 USB interface ÷Ŀ. Dimensions: Length 150 x Width 300 x Height 233 mm



Extension IQ Easy

The IQ Easy platform with at least one Manager IQ Easy can be extended with the Extension IQ Easy to control an additional 6 devices

24V

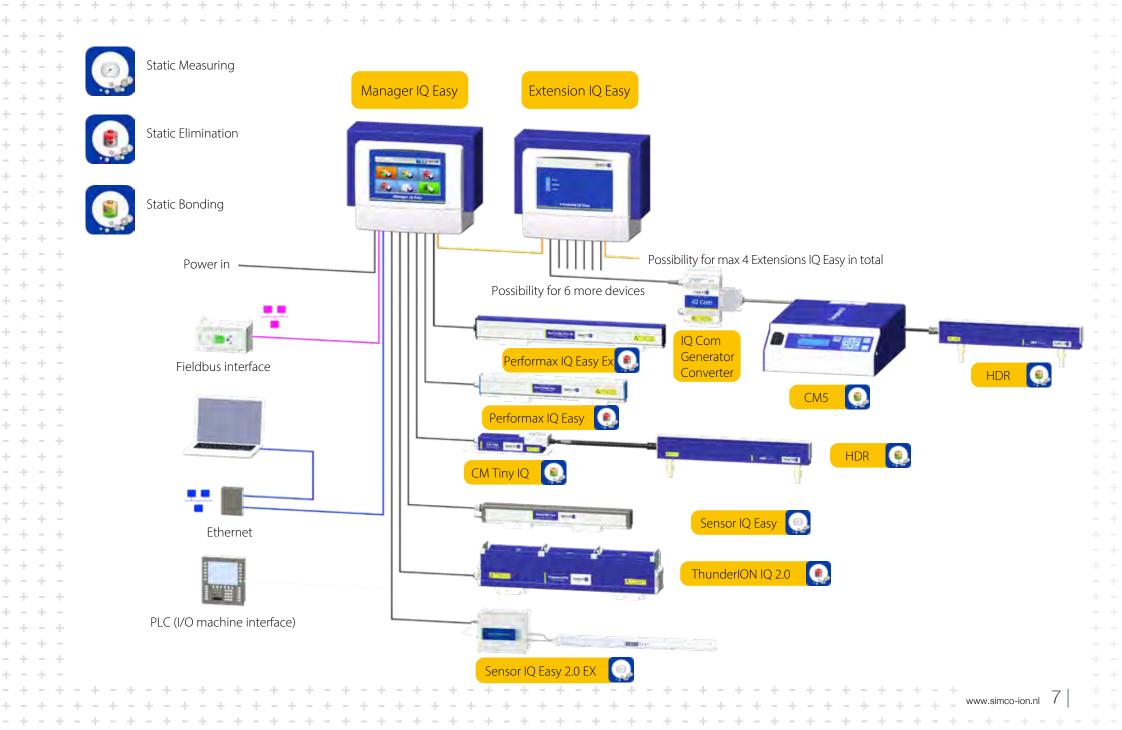
Features:

• Connection of up to 6 devices

- LED indicators
- Maximum 4 Extensions per system

Dimensions: Length 150 x Width 300 x Height 233 mm

IQ Easy platform



IQ Easy products

			IQ functionality	,			
	Performax IQ Easy	Performax IQ Easy Ex	ThunderION IQ 2.0	CMM IQ Easy	CM Tiny IQ	Sensor IQ Easy	Sensor IQ Easy 2.0 Ex
Clean bar warning	\checkmark	\checkmark					
Ion balance setting	\checkmark	\checkmark	\checkmark				
Data logging		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
Action logging	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark	
Remote control	\checkmark			\checkmark			
Warning output	\checkmark	\checkmark		\checkmark		\checkmark	
Alarm output	\checkmark	\checkmark	\checkmark	\checkmark			
CLFB (with Sensor)	\checkmark						
Web voltage too high Warning						\checkmark	
Web voltage too high Alarm							
Web voltage too low Warning						\checkmark	
Web voltage to low Alarm							
Overload	\checkmark	\checkmark	\checkmark	\checkmark			
Temperature too high Alarm	\checkmark	\checkmark	\checkmark	\checkmark			
Ionisation current indication	\checkmark	\checkmark	\checkmark	\checkmark			
Voltage control				\checkmark			
Current control							
Voltage setpoint				\checkmark			
Current setpoint							
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Static elimination



For each process the perfect solution for static electricity control

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Static elimination

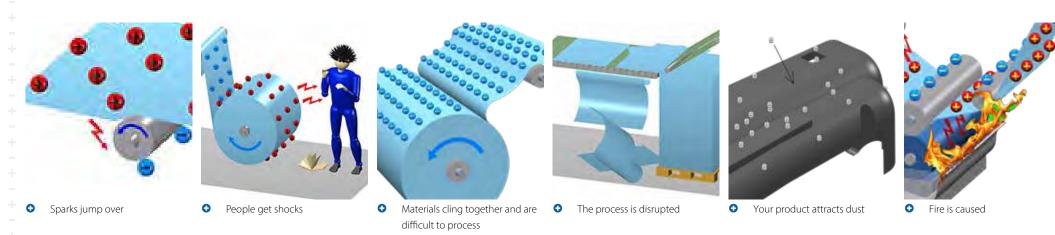
Static elimination

Static electricity can be troublesome in many production processes where non-conductive materials such as plastic, paper, wood and textile are processed.

How do you know if in your situation static electricity plays a role?

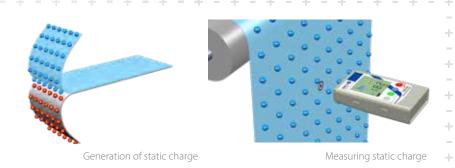
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Most common problems are easy to recognise:



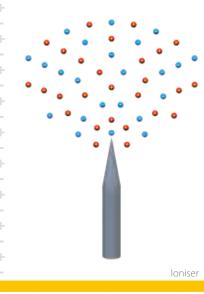
What causes static charge?

Static charge is mainly caused by friction and separation of poorly conducting materials. Static charge can be demonstrated by measuring with an electrostatic fieldmeter. See the section measuring instruments for possibilities or get advice from a Simco-Ion representative.



Which method is the most effective to reduce static charge?

Non-conductive materials (insulators) cannot be discharged by grounding. The most effective and durable solution to reduce the static charge is by active ionisation. Active ionisation is created by the use of air ionisers. These generate large numbers of positive and negative ions in the surrounding atmosphere, which serve as mobile carriers of charges in the air. As ions flow through the air, they are attracted to oppositely charged particles and surfaces. Neutralization of charged surfaces is rapidly achieved through this process.



What do ionisers look like and which one is right for my application?

lonisers are available in different sizes and shapes. The choice depends on the application and a number of distinguishing features:

• Technology (external power supply, or integrated high voltage 24V)

- Working distance
- Material velocity
 - Object to be neutralised, 3D product or flat material web
- Environmental conditions, temperature, humidity, Atex zone
- Inspections

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Typical applications examples:



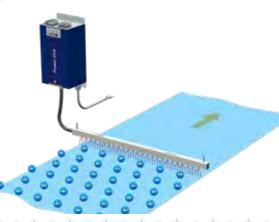
Various ionisers:	1.11	-	+		÷ -		_	11 - C			÷.,		_	+	1.1		-	-							
	-	+		+		-	= -		÷	- +	-	b = -b			h	-10^{-1}		= 1		-					
- Anti-static bars	1.44		\rightarrow		6 - L		_	- 1			4		_	- t											
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- Power Units																									
- Inline ioniser	_	+		1 - C	1.1		10		÷ -	. +	-	t	-	-	h	1	-	+		_					
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For an adequate and free of charge advice you can contact Simco-lon our a representative in your region.	$ \cdot _{\mathbb{T}}$	-	+		÷ -		-	+		-	+		-		+-		$ \cdot \cdot $								
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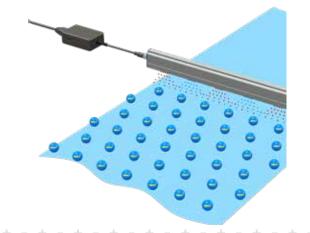
*with teflon cable

What is the difference between ionisers?

Anti-static bar with separate high voltage generator:



Anti-static bar with built-in high-voltage:



Advantages:

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24V DC input voltage

Small flexible cables

Cable can be constructed to length

Cable with M12 plug-in connector

Neutralisation at speeds of >500 m/min*

Advantages:

- Anti-static bars are very compact
 Up to 4 ionising devices can be connected to the power
- supply

Disadvantages:

Possible neutralisation at long distances >500 mm* 0 Indication on the anti-static bar operation 0 Large power supply, takes a lot of space θ + 0 IP66 for humid environments* Rigid high-voltage cable that has to be mounted correctly Easy to clean due to closed profile - 0 Fixed connection of the high-voltage cable 0 Warning signal at fault situations + 0 Fixed length of the high-voltage cable, cannot be shortened C Universal mounting - 0 0 No indication of the operation IQ version available with additional functionality:* + 0 C Proper power supply device and input power should be 0 Efficiency indicator selected 0 Cleaning indicator 0 Closed loop feedback for control of the neutralisation Manual settings such as frequency and balance 0 * Different per device, check the product specifications 13 www.simco-ion.nl

All 24V anti-static bars (marked with the symbol) are equipped with universal mounting brackets. These are equipped with a quick click system making mounting and disassembly very easy and quick.

Universal mounting:



Performax IQ Easy

In combination with the Manager IQ Easy the Performax IQ Easy anti-static bar will ensure a very high efficiency of static neutralisation. Adding a Sensor IQ Easy to the system enhances the efficiency by measuring the downstream residual static charge and regulating the ionisation efficiency in real time to ensure a very low residual static charge.



Performax IQ Easy Speed

In combination with the Manager IQ Easy the Performax IQ Easy anti-static bar will ensure a very high efficiency of static neutralisation. Adding a Sensor IQ Easy to the system enhances the efficiency by measuring the downstream residual static charge and regulating the ionisation efficiency in real time to ensure a very low residual static charge.

Performax IQ Easy Ex

The Performax IQ Easy Ex is an anti-static bar which can be used for neutralisation of static charges in explosion hazardous environments.

Incorporated high voltage power supply, input voltage 24V DC

Minimal risk of deflection and deformation of the anti-static bar

Features:

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IQ



ThunderION IQ 2.0

With certain production processes it's necessary to ionise at such a long distance where classical AC anti-static bars aren't sufficient enough, for example winding and rewinding of webs where the diameter of the rewinding section changes continuously. The ThunderION 2.0 anti-static bar offers long distance static elimination even up to one meter. End brackets, middle support brackets, side plates and emitters can be easily removed to gain access to the whole surface for fast and accurate cleaning.

Features:

- Long working distance: 300-1000 mm
 Incorporated high voltage power supply, input voltage 24V DC
 Shockless touchable emitters
 Easy to clean
 Visual indications with multicolour LED's on 3 sides
- Universal mounting brackets
- Patented technology
- Frequency setting, balance setting in association with Manager IQ Easy

Dimensions: Length 375-4750 x Width 66 x Height 113 mm



The ThunderION IQ 2.0 UL has the same specifications as the ThunderION IQ 2.0 and additional UL certification and Teflon emitter holders.

Features:

- Long working distance: 300-1000 mm
- Incorporated high voltage power supply, input voltage 24V DC
- Shockless touchable emitters
- Easy to clean
- Teflon emitter holders
- Visual indications with multicolour LED's on 3 sides
- Universal mounting brackets
- Patented technology
- Frequency setting, balance setting in association with Manager IQ Easy

Dimensions: Length 375-4750 x Width 66 x Height 113 mm



VicinION

With a 24V DC power connection, small size and no dead ends, the VicinION anti static bar is ideally suited for compact machines and processes. Many small office machines, flat bed printers, digital printers and packaging machines have very restricted space for anti-static bars and need anti-static bars to be mounted close to the surface. The VicinION operates on a unique, patented, concept of high frequency, steady state high voltage to the emitters pins. This provides a very effective way of neutralizing static electricity, even at very close distance. Features: 0 Short working distance: 5 - 75 mm 0 Incorporated high voltage power supply, input voltage 24V DC 0 Mounting of the VicinION is backwards compatible with small sized Simco AC anti static bars and is accomplished with M4 sliding bolts. de. 0 The VicinION has a patented auto-balancing ionization, making it suitable for critical applications that need neutralization below 100 V Visual indications with multicolour LED Dimensions: Length 263-2006 x Width 23,8 x Height 28,4 mm

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MEB

The MEB is an anti-static bar which is often used on production machines where short range ionisation is needed and where no moving machine parts are interfering the ionisation.

Features:

- Short working distance: 30 mm
- Shockless touchable emitters
- The bar continues to function properly when a number of emitter pins are short-circuited, for instance due to heavy fouling.
- Compact

MEJ

The MEJ is a round anti-static bar which can therefore be easily mounted via holes in the machine frame. The MEJ is often used on production machines where short range ionisation is needed and where no moving machine parts are interfering the ionisation.

Features:

- Short working distance: 30 mm
 Shockless touchable emitters
 The bar continues to function properly when a number of emitter
- pins are short-circuited, for instance due to heavy fouling.
- Round bar, can be easily mounted via holes in the machine frame

SS 1/2"

The SS 1/2" is an anti-static bar which neutralises static charge at a short distance. This anti-static bar is suited for being installed in places which may be subject to heavy fouling. Because this anti-static bar can cause a unpleasant electrical shock, these bars are usually installed in such a manner that the emitter pins cannot be touched by personnel.

Features:

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- Short working distance: 30 mm max.
- Optimal neutralisation because the emitter pins are directly coupled to the high voltage
- Is suited for being installed in places which may be subject to heavy fouling

Dimensions: Length 62,5-4650 x Width 13,5 x Height 16,5 mm

- Non-touch-safe emitters
- Heat and chemical resistant
- 😳 Compact

Dimensions: Length 90-5770 x Width 17 x Height 20 mm

x Height 20 mm + Dimensions: Length 90-5770 x ø18 mm

MaxION

The MaxION is an anti-static bar which neutralises static charge at a medium distance.

Features:

• Medium working distance: 400 mm max.

 Minimal risk of deflection and deformation of the anti-static bar due to glassfiber reinforced plastic profile

Shockless touchable emitters

Compact

EP-Sh-N

The EP-Sh-N is an anti-static bar which neutralises static charges at medium distance, till 150 mm.

Features:

Medium working distance: 150 mm max.
 Shockless touchable emitters
 The bar continues to function properly when a number of emitter pins are short-circuited, for instance due to heavy fouling.

P-Sh-N

The P-Sh-N anti-static bar is a more powerful version of the EP-Sh-N. With its long range, the P-Sh-N is ideal for neutralisation of static electricity on materials when the distance varies. Under certain conditions the maximum distance may even be as large as 600 mm.

Features:

44

- Long working distance: 600 mm max.
- Shockless touchable emitters
- The bar continues to function properly when a number of emitter pins are short-circuited, for instance due to heavy fouling.
- Ideal for neutralisation of static electricity on materials when the distance varies.

Dimensions: Length 150-5826 x Width 66 x Height 20 mm

Dimensions: Length 120-5900 x Width 16 x Height 22 mm

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P-Sh-N-Ex

The P-Sh-N-Ex has been approved for neutralisation of static electricity in certain explosion hazardous environments. The P-Sh-N-Ex is equipped with an integrated power unit, you do not need a highvoltage cable.

Features:

- Short working distance: 200 mm max.
- Shockless touchable emitters
- The bar continues to function properly when a number of emitter pins are short-circuited, for instance due to heavy fouling.
- Ideal for neutralisation of static electricity on materials when the distance varies.
- Approved for use in certain explosion hazardous environments

HP-N-Ex

The HP-N-Ex ionisation blower has been approved for use in certain explosion hazardous environments.

Features:

- Working distance: 1500 mm max.
- Working width: 500 mm
- Approved for use in certain hazardous environments
- Integrated power unit

XC-2

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The XC-2 is ideal for use in light industrial environments and it increases productivity. The XC-2 is excellently suited to neutralise static charges on three-dimensional objects, for instance injection moulded products. This ionizing air blower stands out for its compact design. It has an integrated fan which draws in the ambient air and blows the air off along the anti-static bar. The air volume can be adjusted electrically. The high-voltage power unit for the anti-static bar is also integrated.

Features:

- Working distance: 1000 mm max.
- Working width: 400 mm
- Integrated power unit
 - The emitter pins are kept in optimum condition by a (patented) cleaning system

Dimensions: Length 237-5856 x Width 75 x Height 95	5 mn
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Dimensions: Length 452 x Width 561 x Height 251 mm

Dimensions: Length 500 x Width 240 x Height 190 mm



VolumION

The VolumION ionising airblower makes it possible to clean contaminated products and to neutralise static charges at long distance. Ambient air is drawn on two sides and blown off along three anti-static bars.

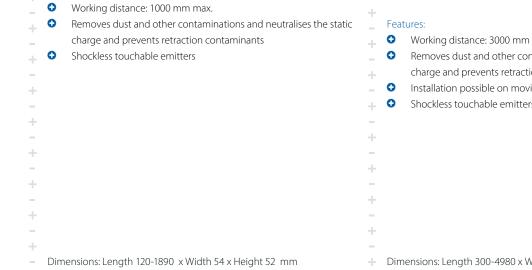
Features:

- 0 Working distance: 1500 mm max. 0 Working width: 500 mm
- 0 Ideal for long range neutralising when paper and film webs are being wound
- Built-in shockless anti-static bars 0
- The air inlets can be fitted with a special filter

MEB anti-static bar with airknife

The airknife with MEB anti-static bar is used where one wants to simultaneously neutralise static charges and wants to remove dust.

Features:





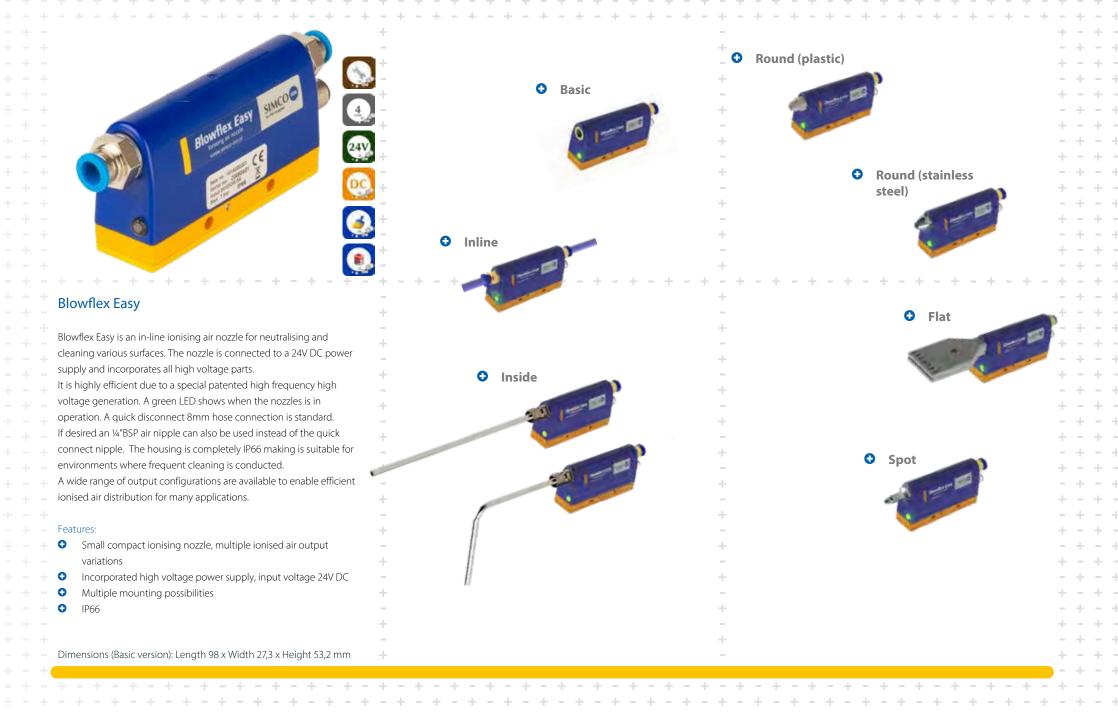
Performax IQ Easy anti-static bar with airknife

The Airknife with Performax IQ Easy is especially useful for situations where the ionisation or cleaning needs to be mobile s.a. cleaning parts with a robot. With the 24V connection it is easy to install in such applications.

- Working distance: 3000 mm max
- Removes dust and other contaminations and neutralises the static charge and prevents retraction contaminants
- Installation possible on moving machine parts such as a robot arm
- Shockless touchable emitters

Dimensions: Length 500 x Width 296 x Height 235 mm

Dimensions: Length 300-4980 x Width 50 x Height 63,5 mm







HE

The HE ionising air nozzles have a high blow-off force at a relatively low air consumption.

Features:

- 0 Working distance: 250 mm max.
- 0 Air consumption: 3,5 Nm3/h using 1 bar
- 0 Max. pressure: 7 bar
- 0 Shockless touchable emitters
- 0 Being installed outside the air flow, the emitter pins are hardly subject to fouling, if at all
- 0 Can be fitted on a standard air header
- C Click system for easy assembly

Power Unit A2A7S

The A Unit is a power unit on which 4 ionisers can be connected as a maximum.

Features:

- 0 Provides high-voltage to 4 ionisers as a maximum
- 0 Equipped with an on/off switch with an indicator lamp
- Equipped with a high-voltage indicator lamp 0
- 0 UL approved

Different options possible:

- 0 High-voltage control; switch contact is available on the I/O connector
- Remote control; switch on or off by a remote contact 0
- 0 Possibility to switch off the power unit at a preset drop in high-voltage output

Variations of the Power Unit:

- 0 A2A3S: For ionising air nozzle type BW.
- A2A4S: For anti-static bars operating on 4 kV. 0
- 0 A2A5G: For ionising air gun type Cobra.
- A2A5S: For anti-static bar type MaxION. 0
- A2A7S: For anti-static bars operating on 7 kV. 0
- Dimensions: Length 240 x Width 125 x Height 98 mm

MPM

de la composición de $|\mathbf{r}|_{\mathbf{r}}$

> The MPM is a power unit on which 4 ionisers can be connected as a maximum

Features:

- 0 Provides high-voltage to 4 ionisers as a maximum
- 0 A wide range of input voltages and frequency
- 0 LED signalling
- 0 UL approved

Different options possible:

- 0 Ion Balance control
- 0 High-voltage control; switch contact is available on the I/O connector
- 0 Remote control; switch on or off by a remote contact
- 0 Master Slave; Two MPM units can be interconnected for high speed applications s.a. Conveyostat®
- Overload detection: A switch contact is available on the I/O 0 connector
- 0 24 V DC power output on I/O connector
- Dimensions: Length 240 x Width 125 x Height 98 mm

Dimensions: Ø 24 x Height 68,5 mm



The tube diameter is adjusted to the existing tube system. And so is the number of integrated anti-static bars, based on the diameter. Simco-lon anti-static bars can also be integrated in a tube provided by the client. The anti-static bars are arranged in two series. They are connected to a two-phase power unit to ensure optimal ionisation at high velocities.

Features:

- Custom size pipeOptimal ionisation at high velocities
- Can be integrated in a tube provided by the client
- Different types on request:
- Conveyostat[®] with flange connections

Dimensions: Length 700 x Ø 50-300 mm

Dimensions: Length 300 x Width 200 x Height 120 mm

The LB Unit power unit ensures that the two connected anti-static bars

(series) neutralise static charges optimal even at very high velocities.

Suitable for very high production velocities

Fitted with an on/off switch with an indicator lamp

Fitted with two high-voltage indicators

LB2A4S

Features: Suit

0

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Measuring instruments



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Measuring instruments

Measuring instruments

If you are dealing with static charge, then there is usually a need to know how high that charge is and which polarity it has.

Measuring instruments can help you to make the invisible phenomenon static charge visible.

When is it useful to measure static charge?

- For locating the source of static charge
- After a neutralisation system to measure the effectiveness or to actively control the ionisation
- As quality control to give a guarantee to your customer
- As control after a static charger

In order to determine if and where there is a static charge, an electrostatic
 fieldmeter FMX-004 can be used. Herewith the electric field strength can
 be measured at a set distance without contact.

- The Sensor IQ Easy offers even more options.
- It delivers measurement values to devices in an IQ Easy system so that
- + they can be actively regulated depending on the measured values.
- Furthermore, the measured values can be logged via the Manager IQ Easy
- for further evaluation. This gives you a unique tool to control your process

and capture process parameters for quality control.

Measuring instruments





Sensor IQ Easy

By adding a Sensor IQ Easy to the IQ Easy platform, the electrostatic charge can be measured over the entire material web. All data of each sensor element is communicated to the Manager IQ Easy and stored for process monitoring. Anti-static bars in the system receive a closed loop feedback from the Sensor which makes it possible to control the static charge level on the web in real time.

Features:

- Ensures a very low residual charge on a product or material web
- Full web width charge monitoring
- Up to 16 sensors
- Air purge to keep sensors clean
- Universal mounting brackets

Electrostatic fieldmeter FMX-004

The FMX-004 is a pocket-sized electrostatic fieldmeter. With this fieldmeter you can measure and store the field strength and polarity, so you can also carry out measurements in awkard places.

Features:

- Accurate measurements
- Electricity conductive plastic housing with an earth connection
- Possible to carry out measurements in awkward places

Dimensions: Length 25 x Width 73 x Height 122 mm

- Indicator for battery status
- Pocket-sized

Static system checker TensION

The TensION is a measuring device which gives you a quick indication if a high voltage is present. The TensION enables you to check all kind of ionising and charging equipment.

Tension

SINCOS

Features:

44

- Convenient high-voltage indicator in pen size
- There is no need to make contact with the device being controlled
- The tip of the TensION illuminates when a voltage is detected.

Dimensions: Length 366-3885 x Width 50 x Height 57,4 mm

Dimensions: Length 150 x Ø 17 mm



Sensor IQ Easy 2.0 Ex

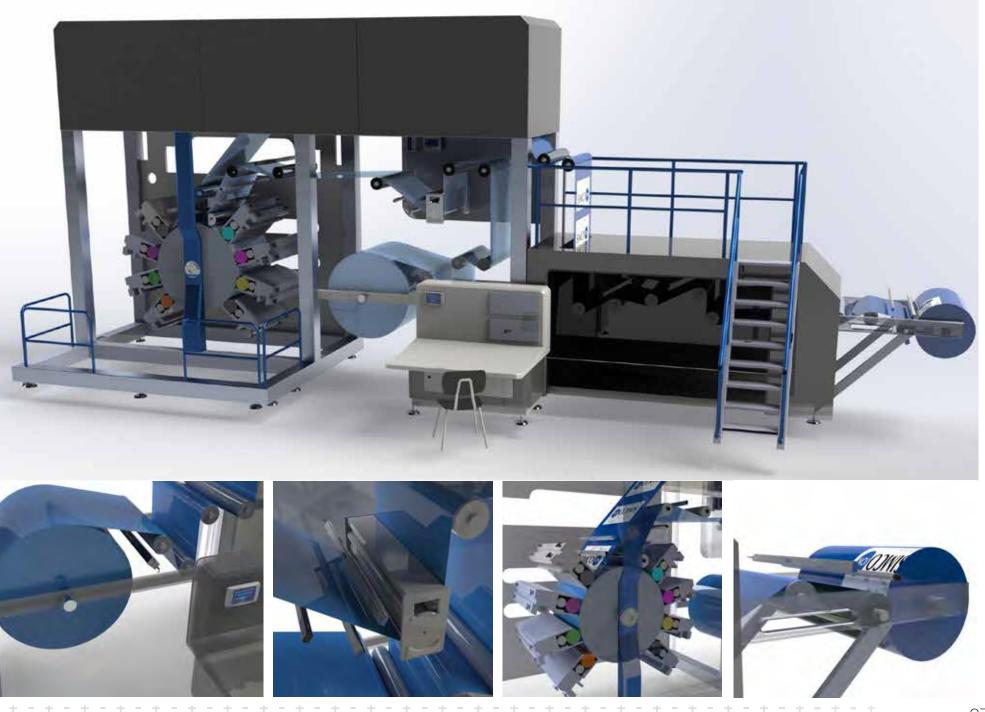
A sensor that measures the electrostatic charge of a web in certain explosion hazardous environments can be added to the IQ Easy platform. The Sensor IQ Easy 2.0 EX is a bar type device that can contain up to 8 sensor segments. Each sensor segment can be placed on a strategical position across the web to monitor the electrostatic charge. All data of each sensor head is communicated to the Manager IQ Easy and stored for process monitoring. Warnings and alarms can set to warn operators for situations that may turn critical.

Features:

- Full web width static charge monitoring
- Up to 8 sensors
- 48 possible measurement locations for measuring segment (with sensor bar 6070 mm)

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Full electrostatic control on Flexoprint machines (ATEX)



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Static bonding

The unpleasant effects of static electricity are well known. People get shocks, materials cling together, a spark damages materials or even causes a fire. A electrostatic charge can also be very useful! Materials can be charged deliberately to make them bond temporarily. Static charge can be an invisible helping hand in your production process. This method is already used in many processes in various industries.

Some examples are:

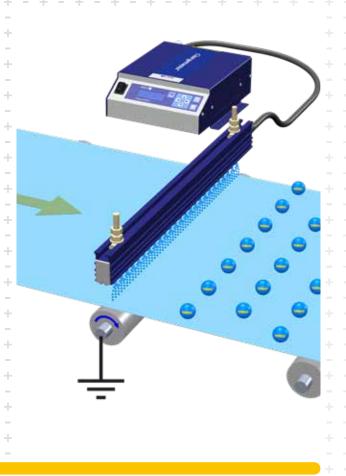
- Block a stack of paper or magazines to prevent shifting during transport or packaging.
- Fix an address label to a brochure before the brochure is packed in a wrapping film.
- Bond a part of a multilayer film to prevent air entrapment.
- Bond a small section of a film during winding on a roll to prevent the roll from telescoping.
- IML; The pre-printed label is positioned into the injection mould and kept in place by a static charge. This way the label will be moulded together with the product shape and come out as a finished product.

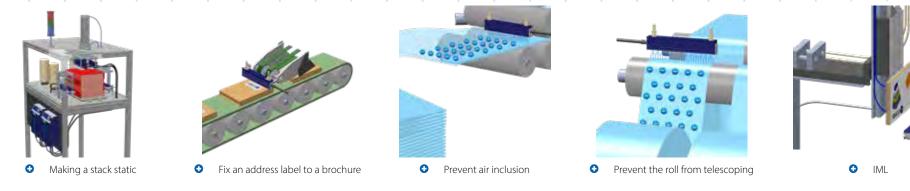
Do any ideas spring to mind on how to use a static charge in your production process?

SIMCO (Nederland) B.V. has outstanding capabilities to develop ideas and implement solutions with static electricity that can simplify and optimise your process. A broad range of products are capable of performing tasks that go beyond your imagination.

How?

- -
- A static charging system consist of a high voltage generator and
- an electrode. The high voltage generator supplies the high voltage
- needed to create a static charge. This can vary from 3 to 60 kVolts. The
 charging electrode comes in different shapes to enable an optimum
 result for each specific application.
- To assess the possibilities in your production process you can contact
 Simco-lon or a local representative.
- More information: www.simco-ion.co.uk/contact





www.simco-ion.nl 29





CM Tiny

The CM Tiny is the smallest industrial charging generator and has a output voltage of 0 - 20 kV (negative).

Features:

- 0 Output voltage of 0 - 20 kV (negative)
- 0 For small machines and applications with moving parts (s.a. pick and place handling systems)
- Compact and robust, capable of withstanding G-forces 0
- No high voltage cable running through the cable channel C
- Smallest charging generator 0
- Incorporated high voltage power supply, input voltage 24V DC 0
- Only weighs 500 grams 0
- 0 HV OK signal
- Detachable high voltage distribution block 0 0 LED's on both sides
- 0 Microprocessor controlled External Setpoint control 0
- Remote on/off signal 0
- 0 IQ version available

Dimensions: Length 212 x Width 45 x Height 43 mm

CM lite

The CM lite is a compact high voltage supply with an adjustable output voltage of 0 – 20 kV (with a maximum current of 0,7 mA)

Features:

		Features:
Output voltage of 0 – 20 kV	_	 Output voltage of 0-30 kV DC (CM5-30)
 Available with a positive or negative output voltage 	+	 Output voltage of 0-60 kV DC (CM5-60)
 Remote control is possible 	_	• Available with a positive or negative output voltage
• A warning lamp lights up if the system is overloaded or in the	+	• Voltage Control and Current Control
event of spark-over	_	• Password protected menu, lockable keyboard
• 180° reversible control panel equipped with membrane switches	+ - + - + - +	 4 line LCD display with dual instructions (text + symbol Analogue remote control functions and signals Quick setup Advanced Current Control (patented) Advanced Output Control Serial bus interface optional 180 ° reversible control panel equipped with membrar
Dimensions: Length 290 x Width 164 x Height 106 mm	- + - + -	CM5-30 Dimensions: Length 340 x Width 272 x Height 106 mm CM5-60 Dimensions: Length 388 x Width 272 x Height 106 mm
5		



The CM5 high voltage generator is available in two variants, the CM5-30 with an output voltage of 0-30 kV DC and the CM5-60 with an output voltage of 0-60 kV DC.

0	Output voltage of 0-30 kV DC (CM5-30)
0	Output voltage of 0-60 kV DC (CM5-60)
0	Available with a positive or negative output voltage
0	Voltage Control and Current Control
0	Password protected menu, lockable keyboard
0	4 line LCD display with dual instructions (text + symbols)
0	Analogue remote control functions and signals
0	Quick setup
0	Advanced Current Control (patented)
0	Advanced Output Control
0	Serial bus interface optional
0	180° reversible control panel equipped with membrane switches
CM5	-30
Dim	ensions: Length 340 x Width 272 x Height 106 mm
	5
CM5	
Dim	ensions: Length 388 x Width 272 x Height 106 mm



The HDC and HDR are rugged charging bars used in a variety of

Suitable for a variety of industrial applications

Chance of spark-over is strongly reduced

Working distance: 20 mm using <30 kV, 75 mm using 30-60 kV

At an unforeseen spark it doesn't create an interruption in the

Working distance: 20 mm using <30 kV, 75 mm using 30-60 kV

Pinner serie

Specifically for spotcharging small surfaces Simco-Ion offers various electrodes, including the 5 Point, Linear 6 Point and the Pinner Claw. Herewith small surfaces can be charged. They are also ideal for edge

Features 5 Point:

- Charging electrode
- 0 Working distance: min. 12,5 mm
- 0
- Charging electrode
- Working distance: min. 12,5 mm
 - Number of emitter pins: 6

- 0 Charging electrode
- Working distance: min. 12,5 mm Pinner Claw 0 Dimensions:
- 0 Number of emitter pins: 3

IQ Com Generator Converter

The IQ Com Generator converter makes is possible to connect any existing CM5 charging generator to the Manager IQ Easy or Extension IQ Easy. Therethrough it is possible to pair the CM5 with a Sensor IQ Easy to enable Closed Loop Feedback charging.

Features:

Thanks to the IQ Com generator Converter it is possible to connect a CM5 to an IQ Easy system, which has many advantages:

- 0 Production failures and production stops will be reduced
- 0 Quality assurance: you can find back all data and action logs
- 0 You will get a warning when there is something wrong with a device so that you can intervene on time. The warnings and alarms will give you the chance to plan the maintenance or replacing of equipment before full break down. So no surprise machine stops due to defective static control equipment anymore!
- 0 When the CM5 is connected to the IQ Com, the CM5 can be operated from the Manager IQ Easy.
- 0 CLFB (Closed Loop FeedBack) mode operation; when using CLFB mode, the IQ Com must be paired with a Sensor IQ Easy bar. The Sensor IQ Easy bar will measure the static charge on the web and the generator output voltage will adapt constantly so that the static charge stags constant at the desired level.

HDC

Dimensions: Length 87,5-4675 x Width 30 x Height 53 mm

- HDR
- Dimensions: Length 87,5-4675 x Width 30 x Height 53 mm

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charging in cast-film extrusion processes.

The material applied permits high temperature use. The electrodes are resistor-protected to avoid spark-over. The emitter pins are replaceable.

- Number of emitter pins: 5

- 0

Features Pinner Claw:



0

- Features Linear 6 Point
- - 5 Point

HDC and HDR

industrial applications.

Charging bar

machine control

Charging bar

Features HDC:

Features HDR:

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Dimensions: Length 166 x Ø 20 mm

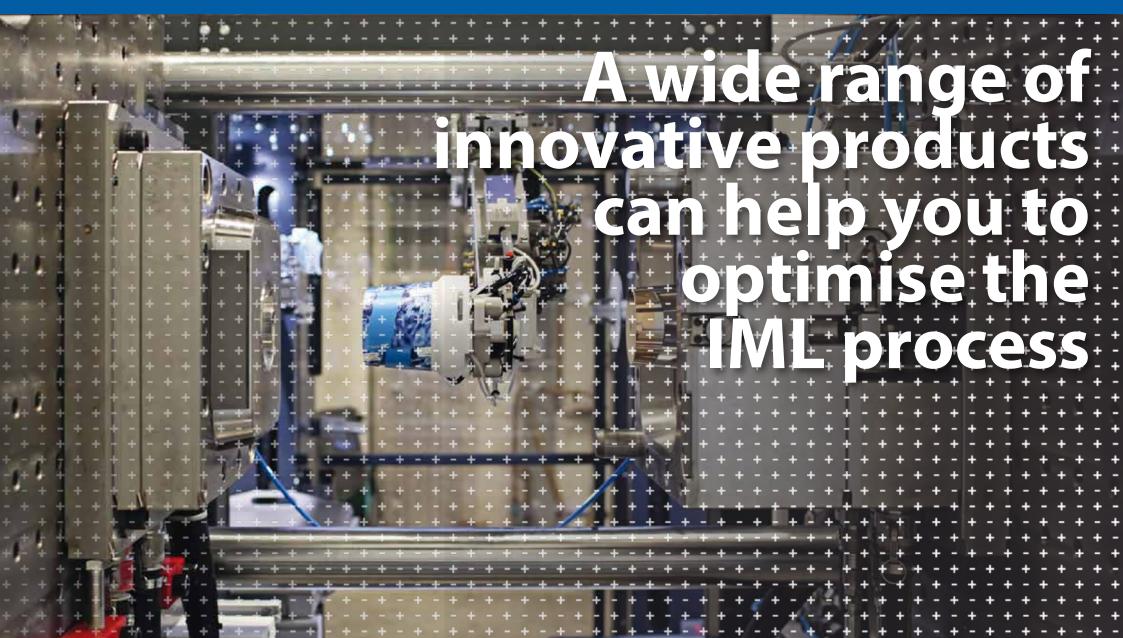
Length 158 x Height 35 x Ø 20 mm

Dimensions: Length 166 x Ø 20 mm

Linear 6 Point

IML





IML, In Mould Labelling, is indispensable in the production of injection moulded products.

A perfect example is packaging of food products and many plastic products for domestic use. Many products are produced with the aid of a static charge. Instead of printing directly or placing a sticky label onto the product, the print is achieved with a pre-printed plastic label. The pre-printed label is positioned into the injection mould and kept in place by a static charge. This way the label will be moulded together with the product shape and come out as a finished product.









Electrode with IML foam simplified

How does IML work?

IML is a process step in the injection moulding process. By a robot, a label is picked up and placed in the mould cavity where it sticks due to the electrostatic charging. After the closing of the mould cavity, the product can be moulded whereby the label is fused with the end product.

What is necessary for applying IML?

- A suitable printed label
- A core with IML electrodes
- A charging generator
- A robot or handling



Depending on the geometry of the product and the desired cycle

time, there are various methods with associated electrodes to

Emitter pins in the core, for example IML spider

Constructed core with IML foam simplified with external

Constructed core with IML Easycore simplified with external

Constructed core with IML foam

charging electrode

charging electrode

Constructed core with IML Easycore

Electrode with Easycore

IML electrodes

Construction

apply.

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Injection moulding process

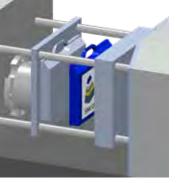
Final product

How can Simco-Ion help you?

Simco-lon has years of experience with the IML process and has therefore developed special charging generators, IML electrodes and IML electrode materials and charging techniques.

A wide range of innovative products can help you to optimise the IML process. Simco-lon or a local representative can assist you with advice and knowledge to realise your project. For more contact data, go to: www.simco-ion.co.uk/contact

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IML Easycore

With the IML Easycore 2 component resin very complex and small cores can be constructed. All mechanical operations s.a. drilling, grinding, milling etc. are possible to make the core to the perfect shape and size.

Features:

- 2 component resin for construction of IML cores
- S Even very complex and small cores can be constructed
- Comes in duo-packs consisting of the resin and the correct amount of hardener
- Available in 250 g

IML Spider

The IML Spider consists of a IML Spider block with built-in resistors and the possibility to connect up to 8 flexible charging electrodes. The IML Spider can be used for IML applications in conjunction with IML generators with a maximum output of 20 kV.

Features:

- IML Spider block with 8 positions
- Each output limited with a resistor
- Quick connect cables and electrodes
- Daisy chain possible
- Electrodes custom sizes
- Unlimited combinations with all IML generators
- Also available as Junction Block without resistors

CMME

The CMME charging generator is specially designed for IML applications, where it can be mounted at the end of a robot arm. Thanks to the patented cycle OK function you can reduce the charging time drastically and thus the total cycle time of the injection moulding process.

IQ

Features:

-	0	Output voltage of 0 - 20 kV
+	0	For IML applications
_	0	Positioning at the robot arm in IML applications
+	0	Compact and robust, capable of withstanding G-forces
2	0	No high voltage cable running through the cable channel
	0	Drastically reduced charging time and thus the total cycle time
+		of the injection moulding process
	0	Incorporated high voltage power supply, input voltage 24V DO
+	0	Only weighs 340 grams
-	0	Detachable high voltage distribution block
+	0	LED's on both sides
-	0	Microprocessor controlled
+	0	External Setpoint control
-	0	Remote on/off signal
+	0	IQ version available
-	Dim	ensions: Length 200 x Width 45 x Height 43 mm

Dimensions: Length 80 x Width 100 x Height 31 mm







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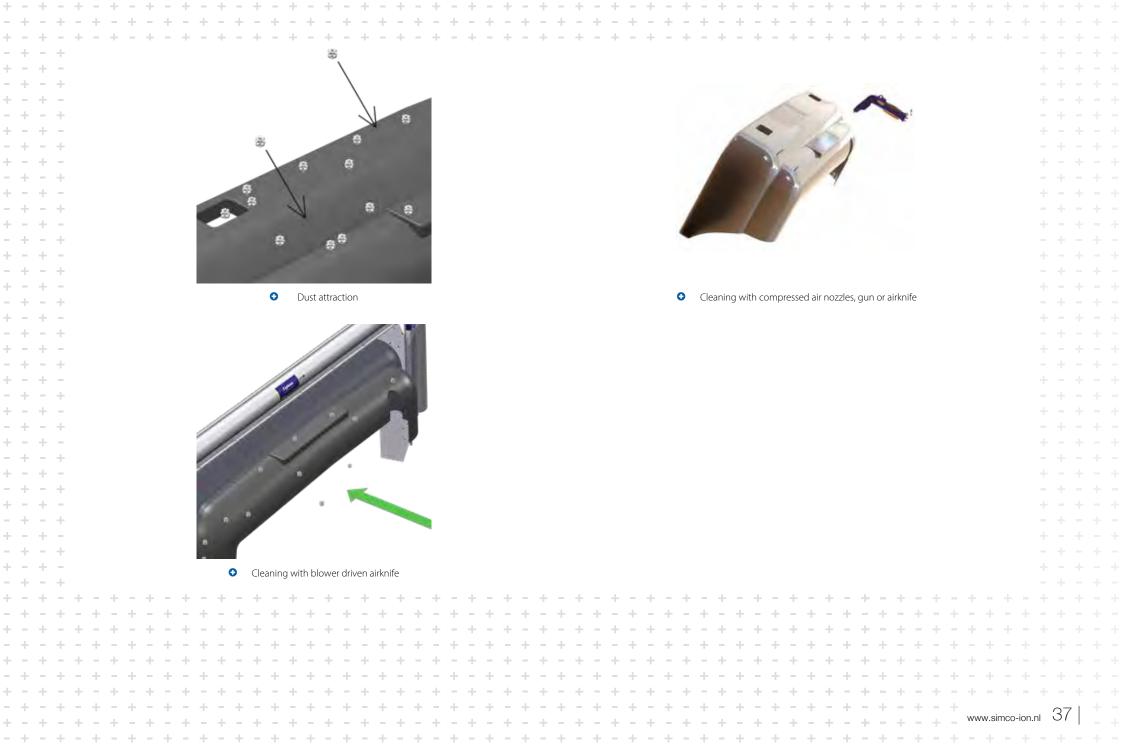
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Surface cleaning | Typhoon





Typhoon systems

Typhoon airknives eliminate static and removes particles from flat and contoured surfaces. A Typhoon system incorporates a blower with an airknife. This system provides a continuous stream of clean ionised air for removal of surface particles and contamination. The Typhoon is adaptable to large halo systems used for auto and truck body cleaning prior to painting. It is also suitable for cleaning bumpers and other plastic parts. The bumpers or parts can be placed on a rack before going into the spray-painting cabin. By using blowers instead of compressed air, Typhoon can reduce operational costs by 30 to 70%.

Features:

- The operational costs can be reduced by 30 to 70% by using a Typhoon air knife in combination with a blower
- Working distance: 2000 mm max.
- Removes particles from flat or contoured surfaces

Typhoon with Performax IQ Easy anti-static bar

The air knife comes with a Performax IQ Easy anti-static bar (24V, optional with Manager).

Features:

- Incorporates Simco-Ion anti-static bars which quickly neutralize static, facilitating easy removal of particulate
- Clean, uniform, high-velocity ionised air provides "one-step" cleaning
- Direct-drive motors require little or no maintenance
- Anodised finish for corrosion protection
- Connection for pressure sensor
- New design extruded aluminium profile
- Cost efficient versus compressed air
- Two mounting grooves
- Small blower/ low noise level

Dimensions: Length 278-3848 x Width 172 X Height 118 mm

Typhoon with Performax IQ Easy Ex anti-static bar

The air knife comes with a Performax IQ Easy Ex anti-static bar for use in explosion hazardous areas.

Features:

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|---|----|-------|--|
| ć | ÷. | 0 | Incorporates Simco-Ion anti-static bars which quickly neutralize |
| | + | | static, facilitating easy removal of particulate |
| | _ | 0 | Clean, uniform, high-velocity ionised air provides "one-step" |
| | + | | cleaning |
| | - | 0 | Direct-drive motors require little or no maintenance |
| | + | 0 | Anodised finish for corrosion protection |
| | - | 0 | Connection for pressure sensor |
| | + | 0 | New design extruded aluminium profile |
| | | 0 | Cost efficient versus compressed air |
| | + | 0 | Two mounting grooves |
| | - | 0 | Small blower/ low noise level |
| | + | 0 | Only in combination with a Manager IQ Easy |
| | | 0 | Approved for use in explosion hazardous zones |
| | + | | |
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| | + | | |
| | | Dim | ensions: Length 425-3035 x Width 172 x Height 117 mm |
| | | | |



Dimensions: 200-4100 x Width 144 x Height 96 mm

Dimensions: 240-4140 x Width 176 x Height 152 mm



Cleanflex Easy

The Cleanflex Easy ionising air gun can be used for cleaning and neutralising surfaces.

| Features: | | | | |
|-----------|---|--|--|--|
| 0 | 24V DC input voltage and integrated ionisation power unit | | | |

| 0 | Lightweight | _ | 0 |
|---|-----------------------------|---|---|
| 0 | Ergonomic design | + | 0 |
| 0 | Full hand trigger | _ | 0 |
| 0 | 70° adjustable nozzle angle | + | 0 |
| - | | | |

Safe blow-off nozzle opening

- Low Noise
- Hand and pull down
- Durable hanging positions
- LED indicator
- Automatic ionisation on/off
- No silicone
- Option; Cleanflex Easy PRO: has a low ionbalance of +/- 30 V, for applicatons of cleaning plastic products where ESD sensitive electronic parts are processed.

Dimensions: Length 120x Width 33 x Height 195 mm

Cobra

The Cobra ionising air gun is excellently suited for heavy-duty industrial applications. By drawing in ambient air through the rear, the air flow is amplified by a minimum factor of 6 : 1.

Features:

÷.

Working distance: 600 mm max.
It comes standard with 6 metres cable, 12 metre is also possible
Ideal for heavy-duty industrial applications
The emitter pin is cleaned during use

Dimensions: Length 251 x Width 52 x Height 153 mm

Top Gun

The Top Gun is an ionising air gun which can be used for light industrial applications.

Features:

- Working distance: 300 mm max.
- 3 metre cable
- Suitable for light industrial applications
- A filter at the exit of the Top Gun ensures that the air is clean
- Twolevel LED which indicates if the gun is in "stand by" mode and if high voltage is currently active
- A hanger to hang the gun is provided as standard
- Sidekick version available; The Top Gun Sidekick offers hands-free operation. A foot pedal controls both ionisation and airflow. The
- Top Gun Sidekick includes a flexible mount feature with a bracket for flexible positioning.
- -
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- Dimensions: Length 203 x Width 34 x Height 168 mm

Perforation detection



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Perforation detection

Perforation detection:

In many production processes, it is necessary to detect perforations and leaks in injection-moulded products or films. Existing methods such as vacuum, pressure or optical control are often not applicable to transparent products or shapes that are difficult to handle.

High voltage spark over can be used in a controlled way to detect perforations in these cases.

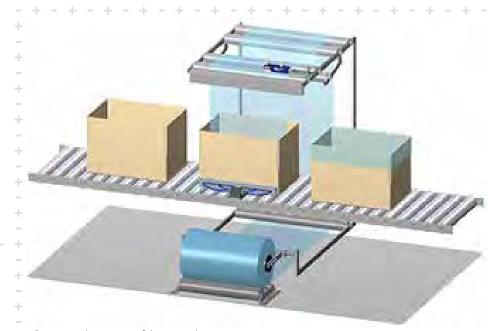
A spark over from a special electrode to a ground reference can be detected and evaluated.

Perforations in plastic webs and products can be detected and counted. Perforations in moving webs can be detected with a special detection bar and a high voltage generator. Perforations will be detected but not localised. A perforation in the film will create a spark through the material and will generate an output signal on the charging generator. Due to the strong electrical field placement of anti-static bars after the perforation detection is mandatory.

Perforations in products can be detected using high voltage to create a spark through the perforation. Common application is testing the injection point of injection moulded products e.g. yoghurt cups, bottles and containers.



Perforations in a web material can be used to determine the position of the material in the machine. The perforation can be the "tear-off perforations" of bags or a deliberate perforation made to determine a position. Perforation detection with the use of high voltage is not depending on the material surface and can also be used with transparent materials. When a perforation passes between the high voltage electrode and a ground electrode, a spark is generated. This spark will be detected and a pulse signal will be available for use by the machine control system.



Determine the position of the material

Simco-lon or a local representative is willingly to advice you if perforation detection voltage can be used in your production process. www.simco-ion.co.uk/contact

also and

Detecting perforations in products





Perfomaster

The Perfomaster perforation detector provides the hardware and software to generate a controlled spark over, detect this and evaluate the spark over to produce a pulse signal. The pulse signal is available on the output connector and can be used for counting the detected spark-overs and thus perforations.

Features:

- Incorporated high voltage power supply, input voltage 24V DC 0 No high voltage cables needed 0 0 Two-colour status LED:
 - Green LED: signals operation OK
 - Red LED: An intermittent LED signals a perforation detected
- Supply voltage and output voltage setting can be provided: 0
 - Directly from the machine f.e. PLC 0
 - 0 With additional external control kit

Dimensions: Length 178 x Width 28 x Height 157 mm

CM5

The CM5 high voltage generator is available in two variants, the CM5-30 with an output voltage of 0-30 kV DC and the CM5-60 with an output voltage of 0-60 kV DC.

Features:

| 0 | Output voltage of 0-30 kV DC (CM5-30) | ÷ | 9 | nerator and is communicated with an output signal and the flash
he red LED. |
|-----|---|---------------------|-----|--|
| 0 | Output voltage of 0-60 kV DC (CM5-60) | - | UIL | |
| 0 | Available with a positive or negative output voltage | - 11 | | |
| 0 | Voltage Control and Current Control | - | Fea | tures: |
| 0 | Password protected menu, lockable keyboard | $ \cdot \cdot $ | 0 | Detection of perforations over a large area |
| 0 | 4 line LCD display with dual instructions (text + symbols) | _ | 0 | Detection of very small perforations possible |
| 0 | Analogue remote control functions and signals | 1 | | |
| 0 | Quick set-up | _ | | |
| 0 | Keyboard security lock | - | | |
| 0 | Advanced Current Control (patented) | | | |
| 0 | Advanced Output Control | | | |
| 0 | Serial bus interface optional | + | | |
| 0 | 180° reversible control panel equipped with membrane switches | _ | | |
| | | | | |
| CM5 | -30 | - | | |
| Dim | ensions: Length 340 x Width 272 x Height 106 mm | \rightarrow | | |
| CM5 | 5 | - | | |
| Dim | ensions: Length 388 x Width 272 x Height 106 mm | + | Dir | nensions: Length 87,5-4675 x Width 30 x Height 53 mm |

HD Det

In order to detect perforations in a moving material web, this special electrode is equipped with a resistance per emitter.

When a perforation passes the electrode, there will occur a controlled

spark over. This is detected by the associated CM5 high voltage









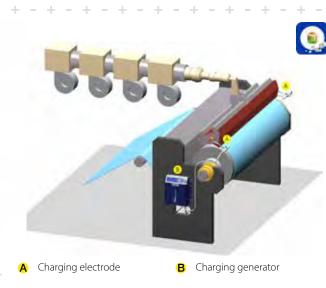
Anti-static bars

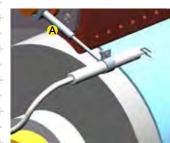


How do I get a clean film, which is free of static charge, from a blown film extrusion machine?

A long range anti-static bar is installed directly above the film. Due to this the static electricity is neutralised during winding, which also prevents dust is being reattracted.

It also prevents that employees get a shock from a static discharge.





How do I reduce shrinking at the edge of a film on a cast film extrusion machine?

A charging applicator at each edge of the film on the chill roll applies a static charge to the extruded film as it contacts the chill roll. The static charge effectively prevents 'neck-in' of the film.



How do I hold a label in position during the injection moulding process? (electrostatic in mould labelling (IML))

Outside the mould a robot presents the label to a charging bar which applies an electrostatic charge to the label.

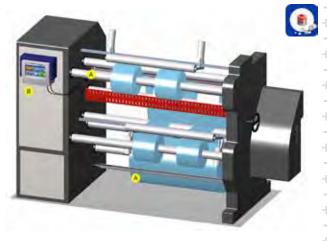
The label is then placed into the mould cavity, where it sticks due to

the electrostatic bond between the label and the metal mould wall.

Therefore the label will not slip or change position in the mould.

www.simco-ion.nl 45

Applications | Plastic industry



A Anti-static bars

B Manager IQ Easy



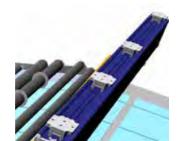
How do I get a clean film, which is free of static charge, from a roll slitting machine?

Immediately after the slitting operation and before winding anti-static bars will be placed.

This will neutralise the static electricity, generated during the winding, and prevents that cutting dust will be attracted.

It also prevents that employees get a shock from static discharge.



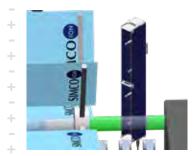


How can I ensure that sheets are well cut and stacked?

An anti-static bar is placed directly above the film after the cutting process. Hereby static charges are eliminated whereby the sheets can be cut and stacked correctly without jams.



Anti-static bars



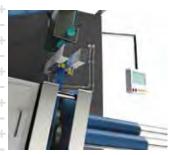
How can I ensure that bags are well stacked on a wicketer?

Static charges can make bags stack poorly, decreasing production yields and increasing rejects. An anti-static bar with a long range ensures neutralization of the bags which creates a good stack.

Power unit

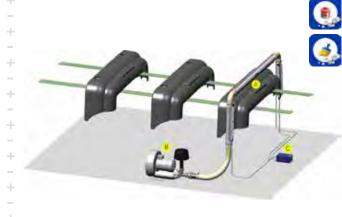


A Anti-static bars



Label Punching without static charge?

Label punching machines are able to punch labels in high speed from printed roll material. After unwinding the film is aligned and labels are punched with high accuracy, after punching the labels are directly stacked. Stacked labels with a high static charge can cause problems during de-stacking. Compact VicinION anti-static bars are mounted just before the punching section to neutralise the film from both sides so the labels are stacked without static charge.

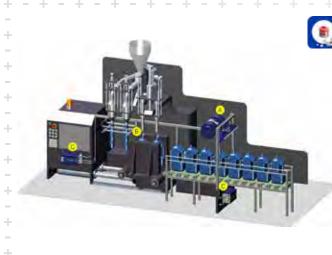


A lonising airknife B Blower C Power unit



How can I remove dust on car bodies and bumpers prior to painting?

Combined with anti-static bars, blower driven Typhoon airknives becomes a powerful tool for removing dust and dirt from flat or contoured surfaces like car bodies and bumpers prior to painting. By using a Typhoon blower instead of compressed air, the operating costs van be reduced by 30% to 70%.



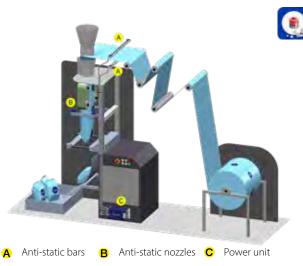
B

Anti-static bar

lonising air blower

How do I avoid production stops or failures in the blown bottles in my blow moulding process?

Heat resistant anti-static bars assure an adequate elimination of static charges on the parison and thus for a good production without productions stops or failures in the blown bottles.

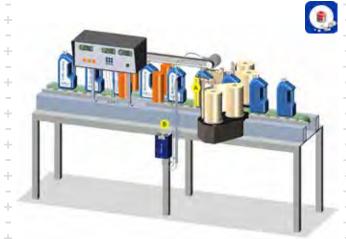




How can I prevent the film from sticking to the shoulder/former during the vertical form, fill and seal process? How do I get good and neat seal?

Both at the top and bottom of the form shoulder an anti-static bar has to be placed. This prevents the film from sticking to the form shoulder and prevents rejects of the finished package due to product fines attracting to the film. lonising air nozzles just below the fill tube will neutralise the static

charges, resulting in a clean seal.



A nti-static bar with airknife



How do I prevent that labels are bad positioned?

Anti-static bars with airknife positioned on the right position prevents that labels, due to static charge on the labels and bottles, are bad positioned. Thus, the production speed is not delayed and there are no bottles rejected.



Anti-static bars



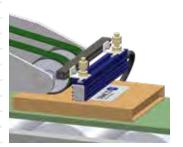
Static free pallet wrapping?

A palletiser is stacking cases of goods or products onto a pallet. After palletising a top-foil dispenser can insert a protective sheet over the products to protect them from environmental influences such as humidity and dust. Neutralising static charges directly after unwinding can prevent the protective film from "clinging" and not fully covering the products. During wrapping of the pallet with stretch film static charges can cause shocks to operators and dust attraction. A VicinION anti-static bar can neutralise the static charge directly after unwinding.





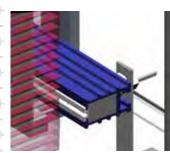




How do I ensure that labels stay at the right position?

Apply a static charge with the charging bar to the card as it hits the package to effectively hold the card in place.

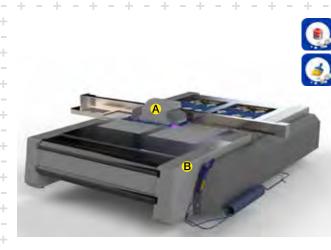




How do I ensure that the stack does not shift or fall over before packing or palletizing?

It is possible to block the stack electrostatically.

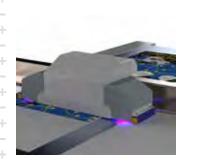
The stack is provided with a static charge by means of charging bars at the top and both sides and can't move or fall over anymore during further transport.



B lonising air gun

A Anti-static bars

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+ Longer production runs on you UV flatbed printer?

Digital flatbed UV printers are capable of high quality printing on a wide
 variety of materials such as photographic paper, film, cloth, plastic, pvc,
 acrylic, glass, ceramic, metal, wood or leather. These printers can use
 special UV (Ultra Violet) curable inks that are exposed to UV-light to cure.
 Positioning compact VicinION anti-static bar on both sides of the printing
 head will make sure that during printing static charges are eliminated.
 This will prevent unsharp/blurry printing results. Also contamination of
 the printing heads and printed material is reduced, resulting in longer
 production runs.

Applications | Printing industry



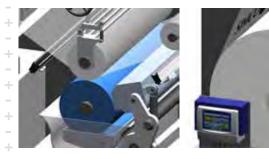


How do I ensure that sheets don't stick at the feeder?

Static electricity may be the cause of malfunctioning of high speed printing presses. At the feeder sheets stick together with misregistration and machine stops as a result. A Blowflex Easy is blowing in (coated) paper direction to separate the top sheet from the stack with ionised air. The top sheet is now fed into the machine and can be neutralised in open air when passing underneath the VicinION anti-static bar, mounted on top of the stack. Mounting a flat nozzle on the Blowflex will make sure that the ionised air is blown between the sheets.



A Anti-static bar B ATEX approved anti-static bars C Power unit



How do I avoid that sparks or even fire occurs during the roto gravure printing process?

The ATEX approved Simco-lon anti-static bar Performax IQ Easy Ex neutralises the static charges before and after the print station allowing for static free, safe, printing.

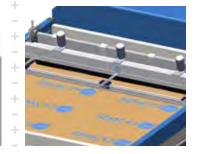


В

A Anti-static bars

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24 V Power supply



How do I avoid that a sheet sticks to the pile of my silkscreen printing machine?

All these problems can be solved by the application of several Simco-lon ionisation systems. For example by placing anti-static bars on the squeegee and at the delivery section.





A Anti-static bar with airknife 🛛 B Anti-static bar 🕻 Power unit

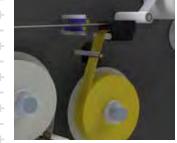


How do I avoid that paint splashes occurs and how do I ensure a better print quality and less rejects on a tampon printing machine?

An anti-static bar can neutralise the static charge on the tampon and prevent these problems. Dust particles on the product can influence the print quality. An air supported anti-static bar cleans the product prior to printing, this will provide in better printing and less rejects.



Anti-static bars



How do I avoid that the microchip contained in a RFID tag is damaged due to static charges?

Anti-static bars will be placed in the tag and label printing/production operation, i.e. anywhere along the path from the feed-roll to the rewind. The anti-static bars neutralises the static charges which occurs during these processes.

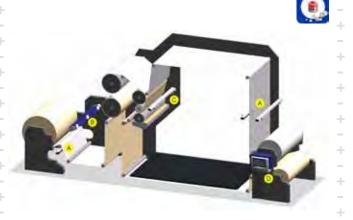
A Anti-static bar



Static free digital printing?

Digital Printing technology has progressed, Printing On Demand (POD) has become widely recognized and applied. Digital technology offers high flexibility to printers for personalised, security and financial documents. When entering the digital printing area with several printing heads, a low static level is needed to guarantee high quality, high speed printing and continuous clean printing heads. A compact VicinION anti-static bar can be placed before the printing heads to ensure long and high quality production runs.

Applications | Printing industry

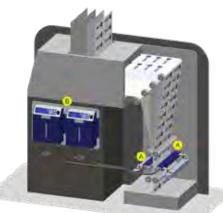


A Anti-static bars
 B Anti-static bar
 C ATEX approved anti-static bar
 D Manager IQ Easy



How do I avoid problems during coating and laminating, such as:

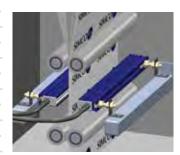
- Operators get electrical shocks;
- Attraction of airborne contaminants;
- Coating quality reduction
- Sparks which can cause a fire in an explosion hazardous environment due to the presence of volatile solvents
 ATEX approved static elimination systems can neutralise the static
- charge and thus prevent all above mentioned problems. Outside the explosion hazardous area standard ionising systems can be used for unwind and rewind stations.



B Charging generator

Charging bars

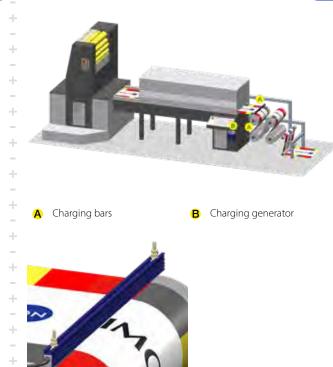
A



How can I prevent air from being trapped between layers and how can I improve the sheet registration during cutting and folding and prevent dog-ears? (ribbon tacking)

By placing charging bars with opposite polarity on either side of the paper web, the layers will stick together whereby air entrapment is prevented. Also during cutting and folding the static charge ensures a good registration and folding without dog-ears.

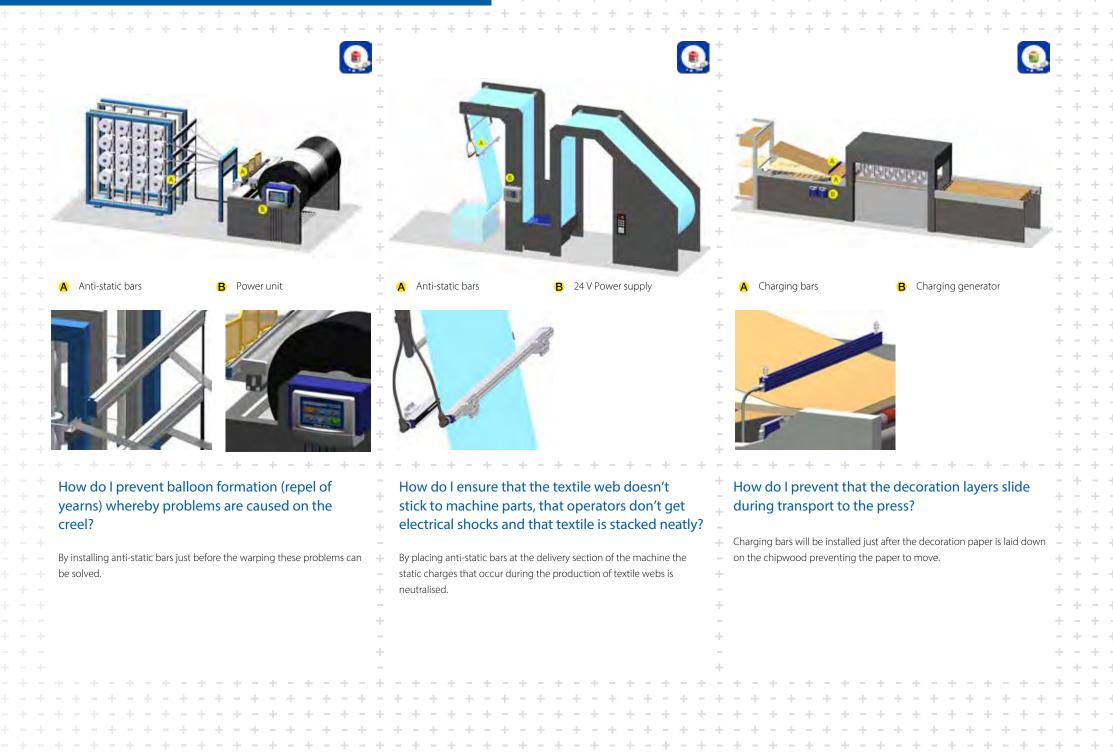




How can I improve the cool efficiency of my Web Offset press machine and how do I prevent slippage of the web and condensation streaks?

The Chill Tack system is designed for Web Offset printing presses. Charging bars add a static charge to the web at the first point of contact to the chill roll.

- Because of the static charge the web is drawn flatter on the cooling
- roll so that the cooling efficiency is improved. Furthermore it prevents
- slippage and eliminates condensation streaking.





About Simco-Ion

Simco-lon, a member of the worldwide ITW group, has operated in Europe since 1946.

Our activities started with the introduction of plastics in the textile industry.

Today we offer a comprehensive range of products to control static electricity, for instance in the plastics, packaging, converting and printing industries. Our products are sold through an extensive network of competent agents.



Organisation

Anyone operating in a large area should be able to respond rapidly. From receipt to despatch, we use modern systems for supervising and implementing all orders. Although highly automated, the production process is still flexible. Products are despatched by reliable international courier services. We are fully aware that any problems related to static electricity must not only be solved professionally, but usually also as quickly as possible.

Technical skills

To respond effectively to the market needs we are continuously developing new products and applications.

In this effort, we are driven by our customers. Many of our products have been developed in close co-operation with our customers. Apart from knowhow, we have resourceful people. Briefly put, Simco-lon has an adequate solution to almost any problem with static electricity.

Quality

You have a right to expect excellent quality from us. This is why our production processes are subjected to quality checks and a meticulous final inspection to ensure a high quality and reliable end-product. This continuous quality assurance effort is reflected in the ISO 9001 : 2015 certificate.

Service

Our service doesn't stop when the product has been delivered. We also devote a great deal of attention to aftersales service. Apart from the usual guarantee, you may always call on us for product repair and calibration.

Documentation

We give much thought to our documentation. In this effort, we always try to make explicit and straight forward documents. Our manuals meet the latest directives. Simco-lon has an instructive Internet website: www.simco-ion.co.uk



Simco-Ion has four main offices: the Netherlands, USA, Japan and China. Each main office has his own production

static control made Easy!

Worldwide support

Simco-Ion

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Tailored advice by skilled local agents

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For more information go to our website www.simco-ion.co.uk Simco-Ion Europe - Aalsvoort 74 - 7241 MB Lochem - The Netherlands T. +31 (0)573-288333 - E. cs@simco-ion.nl - W. www.simco-ion.nl