



VacClean™

Contact Web Cleaning System

The Meech VacClean Contact Web Cleaning System is the ultimate solution for removing high levels of unbonded, dry contamination.

Common applications include:

- Printing
- Labelling
- Laminating
- Coating
- Slitting & Winding
- Corrugating
- Food/Medical Packaging
- Paper Making/Converting
- Wood/Furniture/Flooring
- Automotive

VacClean features an enhanced contact cleaning manifold with either an Air Handling Unit (AHU) or a vacuum fan unit, depending on the installation environment and web width, delivering consistent, high-efficiency cleaning across a wide range of industries.

Features & Benefits

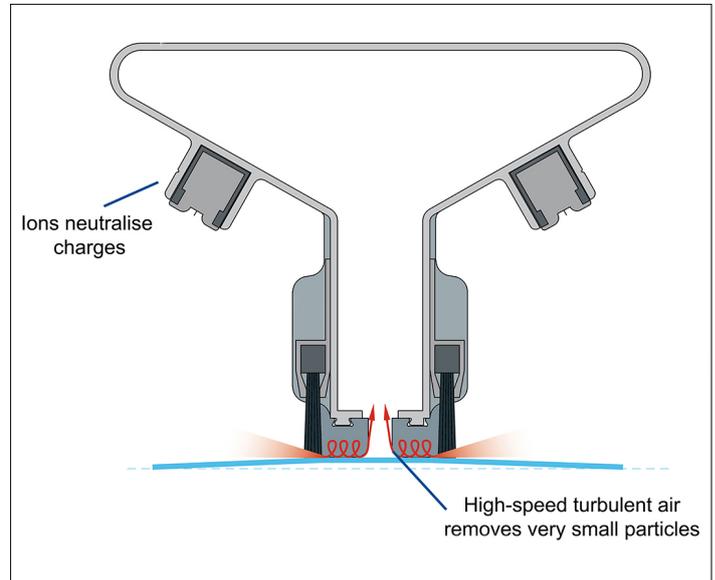
- **Twin AC Ionising Bars** neutralise static charges on the web at both the entry and exit of the VacClean manifold, keeping the web charge free.
- **Brushes** help break up the boundary layer of air without touching the web surface.
- **Highly Polished Stainless Steel Faceplates** create turbulence to break the boundary layer of air, concentrating the vacuum to remove contaminants with maximum efficiency.
- **Compact Web Contact Point** allows VacClean to be installed in tight and restricted spaces.
- **Excellent Filtration** with the Meech Air Handling Unit (AHU), efficiently capturing contaminants.
- **F8 Grade Bag Filter** comes standard in the AHU, capturing 90-95% of particles in 0.4µm range. This can be upgraded to H14 grade HEPA filter.

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How VacClean Works

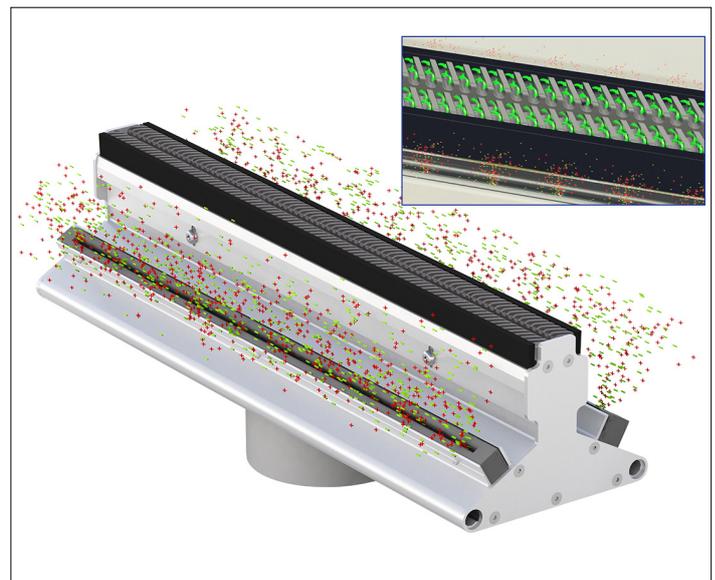
1. The web passes through a cloud of ionisation, neutralising any static charges present.
2. Brushes break up the boundary layer of air, allowing even the smallest particles to be removed.
3. The web fully contacts two highly polished vacuum faceplates, creating turbulent airflow and focusing the vacuum to efficiently remove contaminants.
4. As the web exits the VacClean manifold, it passes through a second cloud of ionisation to prevent re-contamination of the web.



Filtration

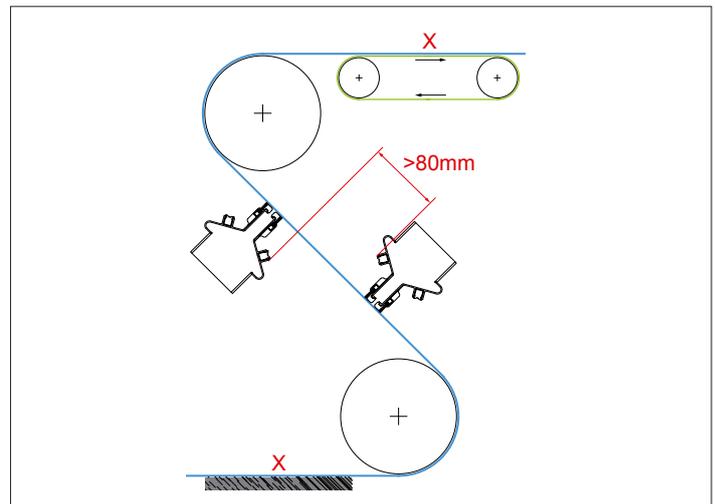
Excellent filtration is paramount in any web cleaning system. The VacClean system features the following standard filtration levels:

- System including AHU (Compact or Standard): F8 grade bag filter. This can be upgraded to a H14 grade HEPA filter.
- System with vacuum fan: 5 micron filter bag. This can be upgraded to a 1 micron filter bag.



Installation

- VacClean manifolds can be installed on any web angle without affecting cleaning performance.
- Positioned manifolds between rollers (minimum of 100mm (4") apart) in a tensioned web area.
- For double sided systems, the manifolds should be spaced at least 80mm (3") apart.
- The web must be in free air, away from rollers, conveyors or the machine bed.



Technical and Construction Data

Maximum Web Speed (Web Driven)	1600mtrs/min, 5249ft/min
Maximum Web Width	Up to 3980mm, 156" (manifolds can be joined to span wider webs)
Duct Connections Fixed Position	100mm \emptyset diameter duct connections
Static Control	2 x 914 AC Ionising Bars
Filtration (with Meech AHU)	F8 media efficient to 90-95% at 0.4 micron, washable filter
Mounting	4x M12 x 16mm hole

Features & Benefits

Compact Contact Point	Enables cleaning in areas with restricted space.
Integrated Static Control	Neutralises static to optimise cleaning performance and prevent re-contamination.
Polished Stainless Steel Faceplates	Generate turbulence to break boundary layer and remove contamination efficiently.
No Consumable Items	Minimises ongoing costs.
Automatic Vacuum Pressure Control	Maintains optimum cleaning performance automatically, reducing the need for operator adjustments.

Technical Drawing

PRODUCT CODE: AVC-MAN-XXXX-03

- XXXX = MAX WEB WIDTH
- 03 = 906 PSU @ 5kV

IONISATION:

- 2x 914 BARS AT EFFECTIVE LENGTH
- EACH 914 BAR WITH 2000mm SIDE ENTRY CABLE AS STANDARD

BUYERS GUIDE:

- EFFECTIVE = MAX WEB WIDTH + 20mm
- OVERALL LENGTH = MAX WEB WIDTH + 26mm

AVC-MAN-XXXX-03 STANDARD LENGTHS		
PRODUCT CODE	NO. OF SPIGOTS	WEIGHT
AVC-MAN-0150-03	1	~1.2kg
AVC-MAN-0300-03	1	~2.1kg
AVC-MAN-0450-03	1	~3.0kg
AVC-MAN-0600-03	1	~3.8kg
AVC-MAN-0750-03	1	~4.7kg
AVC-MAN-0900-03	1	~5.5kg
AVC-MAN-1050-03	1	~6.4kg
AVC-MAN-1200-03	2	~7.4kg
AVC-MAN-1350-03	2	~8.3kg
AVC-MAN-1500-03	2	~9.1kg
AVC-MAN-1650-03	2	~10.0kg
AVC-MAN-1800-03	2	~10.9kg
AVC-MAN-1950-03	2	~11.7kg
AVC-MAN-2100-03	2	~12.6kg
AVC-MAN-2250-03	2	~13.5kg
AVC-MAN-2400-03	3	~14.4kg
AVC-MAN-2550-03	3	~15.3kg
AVC-MAN-2700-03	3	~16.2kg
AVC-MAN-2850-03	3	~17.0kg
AVC-MAN-3000-03	3	~17.9kg
AVC-MAN-3150-03	3	~18.8kg
AVC-MAN-3300-03	3	~19.6kg
AVC-MAN-3450-03	3	~20.5kg
AVC-MAN-3600-03	4	~21.5kg
AVC-MAN-3750-03	4	~22.3kg
AVC-MAN-3900-03	4	~23.2kg

OVERALL MAX WEB WIDTH + 26.0

EFFECTIVE MAX WEB WIDTH + 20.0

MAX WEB WIDTH XXXX

CABLE LENGTH 2000.0

MOUNTING HOLE M12x1.75 - 6H F40.0 4-OFF (2x EACH END)

$\emptyset 101.6$

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TITLE: VacClean MANFOLD ONLY - XXXXmm EFFXXXXmm WEB	TOLERANCE UNLESS OTHERWISE SPECIFIED Critical to Function (CTF) DIMENSIONS IN MM DO NOT SCALE DIMENSIONS AS MARKED	SHEET A3 SCALE NTS	DETAIL	MARKETING	DATE: 25/06/2021	CHANGE NOTE: N/A	MODEL REVISION NO: 1
DRAWING NO: AVC-MAN-XXXX-03	MATERIAL: VARIOUS	FINISH: VARIOUS	DRAWN BY: J.KEOGH	CHECKED BY: I. WATKINS 14102025	SHEET: 1/4	DRAWING REVISION: B	

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