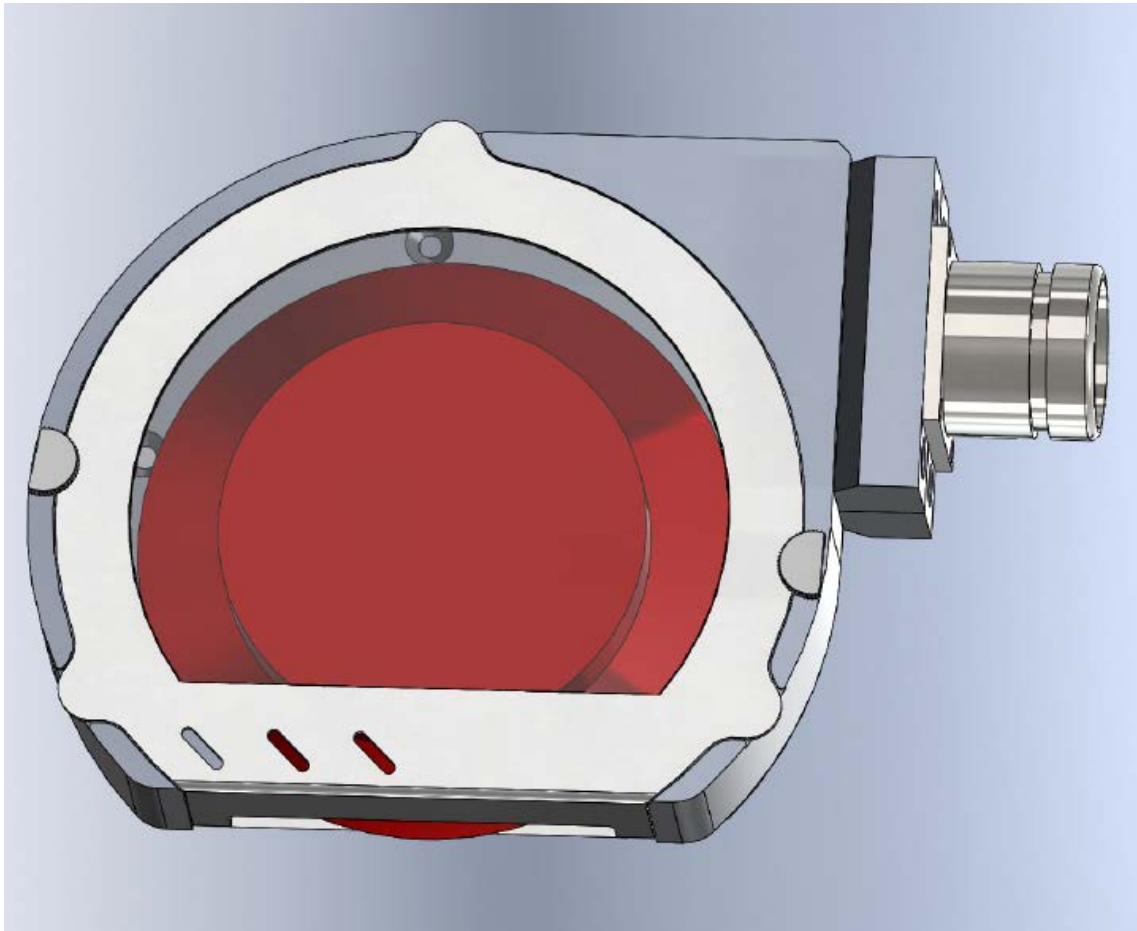


SLITstream

Operating Manual



Slitting Dust Removal System

Table of contents

	Page
1. General	3
Legend	
Main terms and abbreviations	
2. Safety instructions	4-6
Safety standard	
Usage as intended	
Application areas	
Organizational measures	
Protection class	
EMC measures	
3. Storing, shipping and packing	7
4. Device and system operation	8
Vacuum blower	
Electrostatic discharge system (OPTIONAL)	
Filter system	
SMARTplate System Interface (OPTIONAL)	
5. Start-up operation	9
6. Technical data	10
7. Maintenance instructions	11
8. Technical Service	12
9. EU-declaration of Manufacturer / EC Machine Directive	13

1. General

Legend

! Warning

This symbol is placed in front of passages that must be observed.

Not complying can lead to harm to persons or can result in property damage.

i Notice

This symbol indicates passages that contain important information.

K Italics

To help find information, important terms and key words are written in the left column in italics.

2. Safety instructions

Safety standard

The **SLITstream** is EU conform and was developed and manufactured in compliance with the relevant safety standards and regulations.



The sound pressure level at the system can exceed 85db (A). In this case, noise abatement measures are required for the operating personnel. Wear hearing protection!

Usage as intended

The **SLITstream** was conceived as a cut-debris removal system for longitudinal cuts directly on the cutting edge portion. It dedusts the substrate without contact, directly at the cut over the cutting edge. Optionally, before the suction step, you can use a permanently installed brush to mechanically loosen lightly clinging particles from the substrate through mechanical contact.

Protection of the machines and devices is not ensured if the device is not used in accordance with its intended usage. Interventions in and modifications to the devices, except those explicitly described in the instructions, are not permitted.

Carry out erection and installation of the **SLITstream** cut debris removal system in compliance with the required standards and safety regulations necessary for a conformity declaration for the entire machine.

If the installation is not carried out in accordance with the regulations, the manufacture of the **SLITstream** cleaning system assumes no liability whatsoever.

Application areas

Substrates of the following materials - independent of their material thicknesses - can be cleaned by the **SLITstream** at speeds of up to 2500 m/min:

Paper / Cardboard / Pasteboard

Foil / Film

Tissue / Fleece / Textiles

Organizational measures

General

Keep these operating instructions in a safe place. They should always be easily accessible.

! Safety regulations

Comply with the locally valid legal stipulations. Comply with the insuring company's stipulations.

! Transport and mounting fixture

Lift and transport the device on the intended and marked load carrying points and secure it against shifting by it self. If the prescribed method cannot be complied with for constructional reasons, the person or office charged with safe transport or lifting bears the responsibility.

! Authorized specialists

Installation, start-up operation and service of the devices may be carried out by authorized specialists only. Work on the electrical equipment may only be carried out by qualified electricians.

Accessibility must be ensured for maintenance and set-up work. The operator is to take appropriate measures (protective devices or similar).

! CAUTION Danger of electric shock



Always disconnect the mains supply for all repair and maintenance work. While carrying out this work, **always** make sure the device is protected against reconnection and restarting.

! WARNING Pneumatic components



Always disconnect the electrical and pneumatic energy supply before performing any repairs or maintenance work. While carrying out this work, **always** make sure the device is protected against reconnection and restarting.

! WARNING Contact during normal operation

Contact between the substrate web-edges or guide rollers and unprotected parts of the body can lead to cuts, gashes and abrasions.

3. *Storing, shipping and packing*

! When packing the unit for transport or storage, ensure it is shock-proof and protected against humidity. The original packing provides optimal protection. Make sure you comply with the permitted ambient conditions stated in the technical specifications.

Unpacking

Make sure the package contents are not damaged! In case of any damage, inform the carrier and Hildebrand Technology AG.

Check the scope of delivery based on your order and the delivery note:

- Shipment quantity
- Device type and version according to the identification plate
- Accessories
- Operating instructions.

If you have any questions, please contact Hildebrand Technology AG or the sales office responsible for your area.

Observe the locally valid regulations concerning disposal of the packing material.

4. *Device and system operation*

Vacuum blower

The pressure required in the **SLITstream** enclosures is generated via a vacuum blower. The vacuum blower can be installed both on the dust-side before the filter as well as on the cleaned gas side after the filter. **Please comply with the operating instructions from the blower manufacturer.**

Electrostatic discharge system (OPTIONAL)

The ionisation system is installed before carrying out the actual cleaning procedure. Its function is to electrostatically neutralise the substrate. That prevents an additional clinging of particles due to static charges and their forces.

Please comply with the operating instructions for Ionstream Fusion.

Filter system

The particles sucked up from the **SLITstream** are transported into a filter through a drainage system. The filter can be subject to maintenance depending on the version.

Please comply with the operating instructions for Filter.

System interface (OPTIONAL)

The **SMARTplate** is the system interface. It connects to the pressure switch and also to the ionising system.

Please comply with the operating instructions electrical.

5. Start-up operation

Before carrying out machine start-up operation, check the following points

- Knife depth is correctly adjusted.
- Suction hood is correctly leveled parallel to the substrate surface with a clearance of **max. 5mm** to the substrate.
- Hoods are correctly mounted to the knife holder
- Suitable compressed air supply on filter unit if applicable
- Supply-voltage voltage values
- The rotary direction of the motor
- Electrical connections have been made correctly
- Safety devices are mounted and functioning properly
- Ionisation electrodes are mounted parallel to the substrate according user Manual (Optional)
- Ionisation electrodes are connected to the ionization generator (Optional)
- Ionisation system supply voltage is connected (Optional)
- Filter direction has been checked and is correct

6. Technical data:

Manufacturer	GEMA Switzerland GmbH Mövenstrasse 17 9015 St. Gallen
Type	SLITstream
Weight	~ 1 kg
Voltage	24V DC; 110/230/400 V AC
Frequency	50/60 Hz
Air volume	~ 0,93 ³ /min / hood
Operating noise	< 85 db(A)
Under pressure	This value is application dependent. Please contact your project manager at Hildebrand Technology AG regarding this.
Operating temperature	0 °C to 45 °C
Storage temperature	0 °C to 45 °C
Humidity:	5 % to 85 %

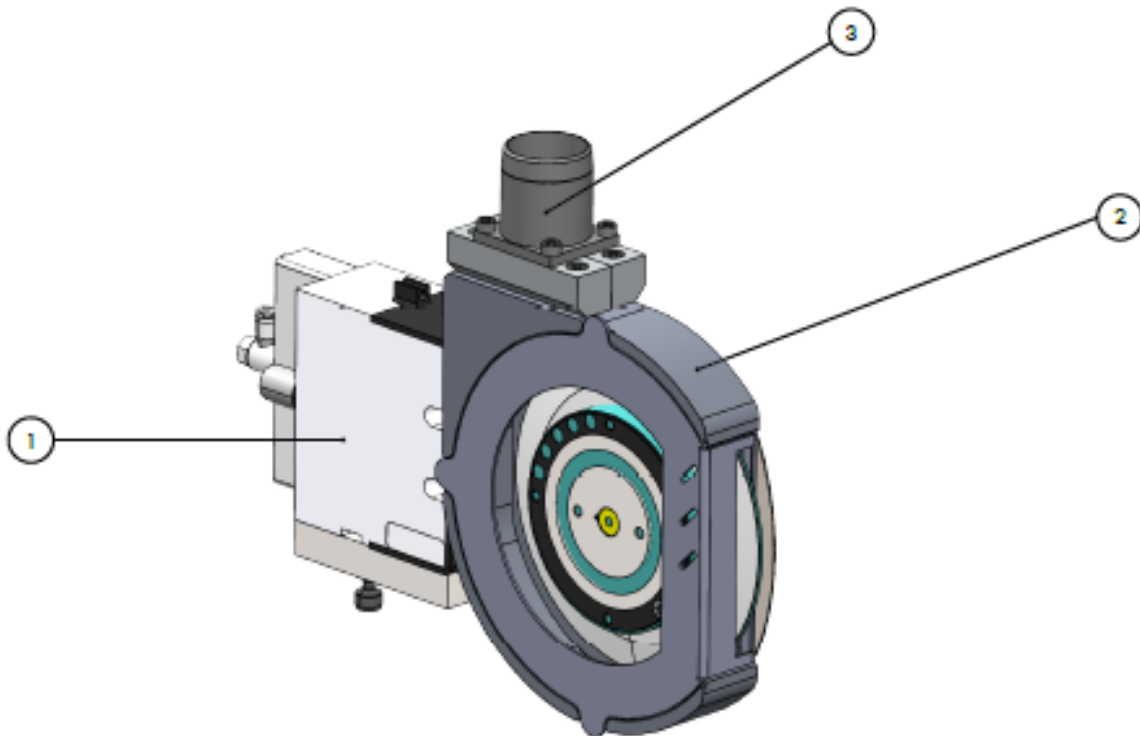
7. Maintenance instructions

General maintenance instructions

Normally, the **SLITstream** slitting dust removal does not require any servicing by the operator. The sleeve bearings and pneumatic components need to be checked semi-annually and replaced as necessary.

Please refer to the spare-parts list for the ordering number.

- ▶ Maintaining the vacuum blower
- ▶ Maintaining the ionization system
- ▶ Maintaining the filter system



POS-NR.	BENENNUNG	Gema_Benennung	MENGE
1	245A.A22B01002	Knifeholder	1
2	HT03006-0	Slitstream hood	1
3	HT00098-25	Flansh adapter	1

8. *Technical Service*

GEMA Switzerland GmbH

Mövenstrasse 17

9015 St. Gallen

Switzerland

Tel. +41 (71) 313 83 00

Fax +41 (71) 313 83 83

info@hildebrandtechnology.com

9. EC Manufacturer Declaration

Gema Switzerland GmbH
Mövenstrasse 17
CH-9015 St.Gallen
Schweiz / Switzerland



declares that the following machine:

Xstream, ECOstream, ROTOstream, SLITstream, ECObox-S; ECOcell

complies with the stipulations in the machine directive 2006/42/EG including its modifications;

and likewise with the stipulations in the following European directives:

EMC guidelines	2014/30/EU
Low-voltage directive	2014/35/EU

and with the stipulations in the following harmonized standards:

Safety of machinery	EN/ISO 12100-1 EN/ISO 12100-2 EN 983
Electrical equipment of machines	EN 60204-1
Electromagnetic compatibility	EN 61000-6-3 EN 55011, Group 1, Class B
Rotating electrical machines	EN 60034-1
Classification Protective class through housings	EN 60034-5

name/address of the authorized representative for the documentation:

Gema Switzerland GmbH
Mr. Igor Vasic
Technical Documentation
Mövenstrasse 17
CH-9015 St.Gallen
Switzerland

Place, date: St.Gallen, 01.03.2016

Bruno Egger
Manager Operations

Walter Huber
Production and Quality Manager

EC Declaration of Conformity Machinery Directive 2006/42/EC

EG-Konformitätserklärung nach EG-Maschinenrichtlinie 2006/42/EG

We hereby declare (*Hiermit erklären wir,*)

GEMA Switzerland GmbH, Mövenstrasse 17, CH-9015 St. Gallen

that the Web cleaning system and the slitting dust removal system
(*dass das Bahnreinigungs-System und die Schnittstaubabsaugung*)

Series: (Baureihe:) 2017

Type: (Typ:) Xstream web cleaning and SLITstream slitting dust removal

Description: (Beschreibung:) Dedusting systems with special sucking modules, high pressure blowers, filters and static discharging systems

(Entstaubungssysteme mit speziellen Absaugmodulen, Hochdruck Ventilatoren, Filter und elektrostatischem Entladungssystem)

complies with the regulations of the following EC Directives

(*mit den Bestimmungen der nachstehenden EG-Richtlinien übereinstimmt*)

EC Directive 2006/42/EC

(*EG-Richtlinie 2006/42/EG*)

Machinery

(*Maschinen*)

EMC Directive 2004/108/EU

(*EMV-Richtlinie 2004/108/EU*)

Electromagnetic compatibility

(*Elektromagnetische Verträglichkeit*)

EC Directive 97/23/EC

(*EG-Richtlinie 97/23/EG*)

Pressure equipment

(*Druckgeräte*)

EC Directive 2014/34EU

(*EG-Richtlinie 2014/34/EU*)

ATEX products

(*ATEX-Produkte*)

EU Directive 2011/65/EU

(*EU-Richtlinie 2011/65/EU*)

Pollutant-freedom

(*Schadstoff-Freiheit*)

Regulation 1907/2006

(*Verordnung 1907/2006*)

REACH regulation

(*REACH-Verordnung*)

and the following standards and/or technical specifications have been applied:

(und das folgende Normen und/oder technische Spezifikationen angewandt wurden.)

- | | |
|--------------------|---|
| DIN EN 12100-1 | Safety of machinery, terminology, methodology
<i>(Sicherheit von Maschinen, Terminologie, Methodologie)</i> |
| DIN EN 12100-2 | Safety of machinery, technical principles
<i>(Sicherheit von Maschinen, Technische Leitsätze)</i> |
| DIN EN ISO 14121-1 | Safety of machinery, principles of risk assessment
<i>(Sicherheit von Maschinen, Leitsätze zur Risikobeurteilung)</i> |
| DIN EN 82079 | Preparation of instructions, structuring, content and presentation
<i>(Erstellen von Anleitungen, Gliederung, Inhalt und Darstellung)</i> |
| EN 982 | Sicherheit hydraulics
<i>(Sicherheit Hydraulik)</i> |
| | Safety requirements for fluid power systems and their components Hydraulics
<i>(Sicherheitstechnische Anforderungen an fluidtechnische Anlagen und deren Bauteile – Hydraulik)</i> |
| EN 61000-6-2 | Electromagnetic compatibility (EMC) – Noise immunity
<i>(Elektromagnetische Verträglichkeit (EMV) – Störfestigkeit)</i> |
| EN 61000-6-4 | Electromagnetic compatibility (EMC) – Transient emission
<i>(Elektromagnetische Verträglichkeit (EMV) – Störaussendung)</i> |
| | Explosive atmospheres - explosion protection, fundamentals and methodology
<i>(Explosionsfähige Atmosphären Explosionsschutz, Grundlagen und Methodik)</i> |
| | Non-electrical equipment for use in potentially explosive atmospheres, basic methods and requirements
<i>(Nicht-elektrische Geräte für den Einsatz in explosionsgefährdeten Bereichen, Grundlagen und Anforderungen)</i> |
| | Non-electrical equipment for use in potentially explosive atmospheres protection by constructional safety
<i>(Nicht-elektrische Geräte für den Einsatz in explosionsgefährdeten Bereichen, Schutz durch konstruktive Sicherheit)</i> |

If any alteration is made without our approval this EC Declaration loses its validity.

(Bei einer nicht abgestimmten Änderung verliert diese EG-Konformitätserklärung ihre Gültigkeit.)

Responsible for documentation is Verantwortlich für die Dokumentation ist

(Verantwortlich für die Dokumentation ist)

GEMA Switzerland GmbH

Mövenstrasse 17

CH 9015 St. Gallen

Telephone: +41 71 313 83 00

Telefax: +41 71 313 83 83

E-Mail info@hildebrand-technology.com

Internet www.hildebrand-technology.com

St. Gallen, 01.01.2017

Bruno Egger

Betriebsleiter



Walter Huber

Leiter Produktion und QM

