

1 EU - TYPE EXAMINATION CERTIFICATE

2 Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 EU - Type Examination Certificate **Baseefa04ATEX0348X – Issue 4**
Number:

3.1 In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

4 Product: **MODEL 976Ex ELIMINATOR BAR**

5 Manufacturer **Meech Static Eliminators Limited**

6 Address: **2 Network Point, Range Road, Witney, Oxfordshire, OX29 0YN United Kingdom**

7 This re-issued certificate extends EC Type Examination Certificate No. **Baseefa04ATEX0348X** to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

8 SGS Fimko Oy, Notified Body number 0598, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

8.1 The original certificate was issued by SGS Baseefa Ltd (UK Notified Body 1180). It, and any supplements previously issued by SGS Baseefa Ltd have been transferred to the supervision of SGS Fimko Oy (EU Notified Body 0598). The original certificate number is retained.

The examination and test results are recorded in confidential Report No. See Certificate History

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with the ATEX Directive 2014/34/EU

except in respect of those requirements listed at item 18 of the Schedule.

10 If the sign “X” is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

11 This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the product shall include the following:

⊕ II 2G IIB T6 $-20^{\circ}\text{C} \leq T_{\text{amb}} \leq 35^{\circ}\text{C}$

⊕ II 2D IIIB T85°C

SGS Fimko Oy Customer Reference No. **1402**

Project File No. **24/0344**

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Schedule

14

Certificate Number Baseefa04ATEX0348X – Issue 4

15 Description of Product

The Model 976Ex Eliminator Bar is designed for the elimination of electrostatic problems associated with the processing of highly resistive web materials. It is rated at up to 9.6kV, from a Meech Hyperion PulseDrive pulsed D.C controller or Meech Type 977v.3 or type 233V4HL.

The unit is available in active lengths of up to 4m and comprises a hollow section two part extruded ABS polycarbonate bar. A series of 100M Ohms resistive elements are encapsulated into the upper section of the bar. The lower section of the bar, together with two PVC end caps, completes the enclosure. One of the end caps has a threaded hole into which is fitted a plastic gland and associated plastic conduit, which provides mechanical protection for the two high voltage supply cables.

The cables enter the polyurethane encapsulant and connect, in turn, to each of the resistive elements. At intervals, discharge pins protrude through the surface of the upper section of the bar, terminating in open-ended plastic shrouds. The discharge pins are staggered either side of a central raised portion, which runs the length of the upper section of the bar. Each discharge pin is coupled to one of the supply cables via a resistive element.

Mounting of the bar is by means of recessed grooves which run along the sides of the lower section of the bar.

16 Report Number

See Certificate History

17 Specific Conditions of Use

1. The 976Ex eliminator bar shall only be used in conjunction with only Meech Type 977v.3 or type 233V4HL or Meech Hyperion PulseDrive Pulsed DC Controller set to produce 9.6kV peak maximum.
2. The power supply must be protected by a fuse capable of withstanding a prospective short circuit current of 4000A.
3. The bar shall be installed according to the manufacturer's installation instructions for the Model 976Ex.
4. The bar is suitable for installation only in areas where there is a low risk of impact damage.
5. The plastic conduit must be securely clamped within 100mm of the bar.
6. The user must determine, in consultation with the manufacturer, the suitability of the apparatus for use with particular solvents.
7. When used in dust environments, the equipment may not be used in association with dusts having an electrical resistance equal to or less than $10^3 \Omega.m$.
8. When used in dust environments, the equipment may be used only with dusts requiring an ignition energy of greater than 0.06mJ.

18 Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
1.3.1	Hazards Arising from different ignition sources.
1.4.1	External effects
1.4.2	Aggressive substances, etc.

19 Drawings and Documents

New drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
D2872	1 of 2	A	30/10/2024	976Ex Technical Label

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
DMEE0321	-	5	08.10.04	976Ex Assembly

20 Certificate History

Certificate No.	Date	Comments
Baseefa04ATEX0348X	25 November 2004	The release of the prime certificate. The associated test and assessment against the requirements of EN 50014:1997 + Amds 1 & 2 and EN 50028:1987+Amd:1 is documented in Test Report No. 04(C)0391.
Baseefa04ATEX0348X/ 1	14 December 2005	Assess against the requirements of EN 50281-1-1: 1998 + Amd 1. The assessment is covered in 05(C)0649
Baseefa04ATEX0348X/ 2	15 June 2009	To allow use of alternative Meech Type 977 HL power supply and to change operating voltage of eliminator bars to 9.6kV. The assessment is covered in report number 10(CI)0178
Baseefa04ATEX0348X Issue 3	23 June 2023	This issue of the certificate incorporates previously issued primary & supplementary certificates into one certificate and assesses the product against the ATEX EHSR's including the revision of the equipment marking in accordance with these standards. The report also covers the assessment of an alternative power supply. Assessment is covered in report number 22(C)0387.
Baseefa04ATEX0348X Issue 4	14 January 2025	This issue of the certificate is to allow the use of the alternative power supply the Meech Hyperion PulseDrive. The product description has been amended to suit the change along with specific condition number 1. The assessment is covered in report number GB/SGS/ExTR24.0145/00 for project 24/0344.

For drawings applicable to each issue, see original of that issue.