

## <sup>(1)</sup> EU-Type-Examination Certificate

(2)Equipment and protective systems intended for use in potentially explosive atmospheres, Directive 2014/34/EU



#### (3)**Certificate Number** TÜV CY 19 ATEX 0206172 X for the equipment: Painting Robots and Control Unit for pressurization (4)Type: GR 630 G; GR 650 G; GR 650 ST; GR 6100 HW

- of the manufacturer: CMA ROBOTICS S.p.A. (5)
- Address: Viale del lavoro, 41 - Z.I.U. 33050 Pavia di Udine (UD) - ITALY (6)0206172

Order number:

2019-03-22 Date of issue:

- The design of this equipment or protective system and any acceptable variation thereto are (7)specified in the schedule to this EU-Type-Examination Certificate and the documents therein referred to.
- (8)TÜV CYPRUS Ltd, notified body No. 2261 in accordance with Article 17 of the Council Directive of 2014/34/EU of February 26, 2014, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive. The examination and test results are recorded in the confidential report No. 19 0206172.
- (9)Compliance with the Essential Health and Safety Requirements has been assured by compliance with: EN 60079-2:2014

#### EN 60079-0:2012/A11:2013

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This EU-Type-Examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment which are not covered by this certificate.
- (12) The marking of the equipment or protective system must include the following:

2G Ex pxb IIB T4 Gb (Painting Robots) (Ex II (2)G [Ex pxb Gb] IIB (Control unit for pressurization) TÜV CYPRUS Vid (TUV NORD Group), the notified body, nosthenous TÜV CYPRUS (TÜV NORD) Ltd,

2 Papaflessa Str., 2235 Latsia, Nicosia - P.O.Box: 20732, 1663 Nicosia, Cyprus Tel:+357 22 44 28 40 Fax:+35722 44 28 50 email: info@tuvcyprus.com.cy www.tuv-nord.com/cy

This certificate may only be reproduced without any change, schedule included. Excerpts or changes shall be allowed by the TÜV CYPRUS Ltd



### (13) SCHEDULE

## (14) EU-Type-Examination Certificate No. TÜV CY 19 ATEX 0206172 X

#### (15) Description of equipment

The Painting Robots types GR 630 G, GR 650 G, GR 650 ST and 6100 HW with the control unit for the pressurization are used for painting objects in the explosion hazardous area.

The parts of the Painting Robots with non-explosion protected electrical equipment included into the robot frame are executed in type of protection pressurized apparatus "pxb" with leakage compensation.

The electrical control panel and the pressurization control unit are installed in safe area and guarantee the purging and pressurization of the robot enclosure.

Electrical supply cables of the robots are protected by suitable conduit systems separately ATEX certified for proper installation of cables in hazardous area, zone 1.

A safety relief-valve is installed on the robot frame.

Earthing terminal suitable for PE conductor of 10mm<sup>2</sup> is available on the metallic robot frame for grounding connection.

#### Electrical data

Power supply	230/400 Va.c.
Frequency	50Hz
Power	3.0 kVA

#### Pressurization data

Painting robot type	Internal volume [dm <sup>3</sup> ]	Minimum purging time [min]
GR 630 G	223	16
GR 650 G	257	19
GR 650 ST	76	6
GR 6100 HW	159	7

Overpressure at the pressure measuring point of the	Min. 180 mbar - Max. 300 mbar
[Ex-pxb] control unit:	
Maximum overpressure at the pressure reducer:	800 mbar
Safety valve at the robot (set):	0.55 ± 0.5 bar
Minimum volumetric flow of the protective gas for	200 Nil/min
purging (inlet):	300 Ni/min
Minimum volumetric flow of the protective gas for	140 Nil/min
purging (outlet):	140 Ni/IIIII
Leakage rate:	Max. 150 NI/min
Supply pressure for the [Ex-pxb] control unit:	Min. 4 bar - Max. 8 bar
Protective gas:	Clean air
Temperature of protective gas:	+5°C to +40°C



<u>Allowable ambient temperature range:</u> +5°C to +40°C (Painting Robot) -10°C to +40°C (Control unit for pressurization)

#### Warning label:

The following warnings is applied to the robot frame:

"ATTENTION - PRESSURIZED ENCLOSURE"

"WARNING – THIS ENCLOSURE SHALL NOT BE OPENED OR ANY COVER REMOVED UNLESS THE AREA IS KNOWN TO BE NON HARZARDOUS OR UNLESS ALL DEVICES WITHIN HAVE BEEN DENERGIZED"

(16) Test documents are listed in the test report No. 19 0206172.

#### Routine tests:

The manufacturer shall verify the performance of safety devices provided with the pressurized enclosure in accordance with functional test, Clause 17.1 of EN 60079-2:2014 and the leakage of protective gas in accordance with leakage test, Clause 17.2 of EN 60079-2:2014.

(17) Special conditions for safe use

- The key switch is only allowed to be operated by an authorized specialist.

- The terminal for the potential equalization has to be connected with potential equalization of the explosion hazardous area.

- The setting of the control unit for the pressurization are pre-set by the manufacturer and must not be changed.

(18) Essential Health and Safety Requirements

No additional ones. Assured by compliance with the standards set out in the [9].





### EU Type Examination Certificate CML 17ATEX1115X Issue 1

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment GR680ST 6-axis industrial robots
- 3 Manufacturer CMA (Wuhu) Robotics Co. Ltd.
- 4 Address No. 96, East Wanchun Road Jiujiang Economic Development District Wuhu Anhui Province China
- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 Certification Management Limited, Unit 1 Newport Business Park, New Port Road, Ellesmere Port CH65 4LZ, UK, Notified Body Number 2503, 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 equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 12.

- 7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.
- 8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.
- 9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN 60079-0:2012 EN 60079-2:2014

10 The equipment shall be marked with the following:

Ex pxb IIB T4 Gb Ex pxb IIIC T135°C Db

Ta =  $0^{\circ}$ C to +40°C

D R Stubbings MIET Technical Director





### 11 Description

The GR680ST 6-axis industrial robots is a purged robot arm which may be located in hazardous areas. It comprises a base, big arm, small arm, and wrist. The base and small arm contain uncertified electrical equipment such as motors.

The equipment is intended for environments requiring Equipment Protection Level "Gb or Db" and there are no internal sources of release. The protection level required is therefore "pxb".

Purging is controlled by a control system which is located in the safe area and which has electrical and pneumatic connections to the robot base and which comprises a purging unit and a control cabinet. The system is purged with compressed air.

The equipment listed below may be fitted and are included for completeness and information only but they do not form part of the equipment certification. Therefore, this certificate does not cover the suitability of these devices with the equipment.

Item, Description, and Certificate Details
Gas applications only
SMC Solenoid valve type 52-SY7140R-TT10-02
DEKRA 11ATEX0273X
II 1 G Ex ia IIC T6T4 Tamb -40°C to +80°C
II 2 G Ex ia IIC T6…T4 Tamb -40°C to +80°C
Gas or Dust
VACF-B-K1EX4-M Solenoid
IBExU16ATEX1146 X
IECEx IBE 16.0024X
$\langle \mathbf{F}_{\mathbf{Y}} \rangle$
Ex mb IIC T5 Gb
Ex mb IIIC T95 °C Db
Tamb -30°C to +40°C
Nuova General Safety Valve G04.XSIC10055
TUV IT 15ATEX 070 Ar Rev. 01
GM Safety Barriers D1031D and D1040Q
DMT 01 ATEX E 042X
IECEx BVS 07.0027X
II (1) G D [Ex ia Ga/Da] IIC
I (M1) [Ex ia I]
Tamb -20°C to +40°C





### Variation 1

This variation introduces the following modifications:

i. To include optional dust marking, the description and conditions of manufacture have been modified accordingly.

#### 12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	20-06-2017	R2107A/00	Issue of prime certificate
1	20/09/2017	R2107A/01	To introduce Variation 1

Note: Drawings that describe the equipment or component are listed in the Annex.

#### 13 Conditions of manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

- 13.1 The equipment covered by this certificate includes previously certified devices, it is the manufacturer's responsibility to continually monitor the status of these certified devices. The manufacturer shall also inform Certification Management Ltd of any changes to these devices that may impact upon the explosion safety aspects of their equipment. A copy of the appropriate certification documentation for these devices shall be provided to the end user.
- 13.2 Each product shall be subjected to the following routine testing:
  - Functional test for the performance of safety devices as required by EN60079-2:2014 Clause 17.1.
  - A leakage test in accordance with EN 60079-2:2014, clause 16.3.1, the leakage shall not exceed 35 NI/min.
- 13.3 The manufacturer shall ensure that the safety and integrity of the purging control system is consistent with a single fault evaluation in accordance with IEC61511 or similar standard.
- 13.4 The separately certified devices shall be installed in accordance with their Specific Conditions of Safe Use.

### 14 Special Conditions for Safe Use (Conditions of Certification)

The following conditions relate to safe installation and/or use of the equipment.

14.1 The temperature of the protective gas at the inlet of the enclosure shall not exceed 40°C.

### **Certificate Annex**



Certificate Number	CML 17ATEX1115X
Equipment	GR680ST 6-axis industrial robots
Manufacturer	CMA (Wuhu) Robotics Co. Ltd.

The following documents describe the equipment or component defined in this certificate:

### Issue 0

Drawing No	Sheets	Rev	Approved date	Title
GR-EX-002	1 of 1	-	20-06-2017	Pneumatic schematic
C04-QE-0302-01 EN	1 to 17	1.0	20-06-2017	GR6100 pressurization ATEX electrical diagram
GR680-ST-910-001	1 of 1	-	20-06-2017	GR680 Nameplate
GR-EX-002-CE Component install position 2	1 of 1	-	20-06-2017	GR-Ex-002 CE component position
GR-Ex-001-CE component install position 1	1 of 1	-	20-06-2017	Explosion proof box assembly
GR680ST-06	1 of 1	-	20-06-2017	Cable layout
GR680ST-002	1 of 1	-	20-06-2017	Control sequence diagram

### Issue 1

Drawing No	Sheets	Rev	Approved date	Title
GR-EX-002	1 of 1	V2.0	20-09-2017	Pneumatic schematic
C04-QE-0302-01 EN	1 to 17	V1.0	20-09-2017	GR6100 pressurization ATEX electrical diagram
GR680-ST-910-001	1 of 1	V2.0	20-09-2017	GR680 Nameplate
GR-EX-002-CE Component install position 2	1 of 1	V2.0	20-09-2017	GR-Ex-002 CE component position
GR-Ex-001-CE component install position 1	1 of 1	V2.0	20-09-2017	Explosion proof box assembly
GR680ST-06	1 of 1	V1.0	20-09-2017	Cable layout
GR680ST-002	1 of 1	V2.0	20-09-2017	Control sequence diagram





### EU Type Examination Certificate CML 17ATEX1114X Issue 1

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment GR6100ST 6-axis industrial robots
- 3 Manufacturer CMA (Wuhu) Robotics Co. Ltd.
- 4 Address No. 96, East Wanchun Road Jiujiang Economic Development District Wuhu Anhui Province China
- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 Certification Management Limited, Unit 1 Newport Business Park, New Port Road, Ellesmere Port CH65 4LZ, UK, Notified Body Number 2503, 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 equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 12.

- 7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.
- 8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.
- 9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN 60079-0:2012 EN 60079-2:2014

10 The equipment shall be marked with the following:

Ex pxb IIB T4 Gb Ex pxb IIIC T135°C Db

Ta =  $0^{\circ}$ C to +40°C

D R Stubbings MIET Technical Director





### 11 Description

The GR6100ST 6-axis industrial robot is a purged robot arm which may be located in hazardous areas. It comprises a base, big arm, small arm, and wrist. The base and small arm contain uncertified electrical equipment such as motors.

The equipment is intended for environments requiring Equipment Protection Level "Gb or Db" and there are no internal sources of release. The protection level required is therefore "pxb".

Purging is controlled by a control system which is located in the safe area and which has electrical and pneumatic connections to the robot base and which comprises a purging unit and a control cabinet. The system is purged with compressed air.

The equipment listed below may be fitted and are included for completeness and information only but they do not form part of the equipment certification. Therefore, this certificate does not cover the suitability of these devices with the equipment.

Item, Description, and Certificate Details
Gas applications only
SMC Solenoid valve type 52-SY7140R-TT10-02
DEKRA 11ATEX0273X
II 1 G Ex ia IIC T6T4 Tamb -40°C to +80°C
II 2 G Ex ia IIC T6…T4 Tamb -40°C to +80°C
Gas or Dust
VACF-B-K1EX4-M Solenoid
IBExU16ATEX1146 X
IECEx IBE 16.0024X
$\langle \mathbf{F}_{\mathbf{Y}} \rangle$
Ex mb IIC T5 Gb
Ex mb IIIC T95 °C Db
Tamb -30°C to +40°C
Nuova General Safety Valve G04.XSIC10055
TUV IT 15ATEX 070 Ar Rev. 01
GM Safety Barriers D1031D and D1040Q
DMT 01 ATEX E 042X
IECEx BVS 07.0027X
II (1) G D [Ex ia Ga/Da] IIC
I (M1) [Ex ia I]
Tamb -20°C to +40°C





### Variation 1

This variation introduces the following modifications:

i. To include optional dust marking, the description and conditions of manufacture have been modified accordingly.

#### 12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	20-06-2017	R2107A/00	Issue of prime certificate
1	20/09/2017	R2107A/01	To introduce Variation 1

Note: Drawings that describe the equipment or component are listed in the Annex.

#### 13 Conditions of manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

- 13.1 The equipment covered by this certificate includes previously certified devices, it is the manufacturer's responsibility to continually monitor the status of these certified devices. The manufacturer shall also inform Certification Management Ltd of any changes to these devices that may impact upon the explosion safety aspects of their equipment. A copy of the appropriate certification documentation for these devices shall be provided to the end user.
- 13.2 Each product shall be subjected to the following routine testing:
  - Functional test for the performance of safety devices as required by EN60079-2:2014 Clause 17.1.
  - A leakage test in accordance with EN 60079-2:2014, clause 16.3.1, the leakage shall not exceed 35 NI/min.
- 13.3 The manufacturer shall ensure that the safety and integrity of the purging control system is consistent with a single fault evaluation in accordance with IEC61511 or similar standard.
- 13.4 The separately certified devices shall be installed in accordance with their Specific Conditions of Safe Use.

### 14 Special Conditions for Safe Use (Conditions of Certification)

The following conditions relate to safe installation and/or use of the equipment.

14.1 The temperature of the protective gas at the inlet of the enclosure shall not exceed 40°C.

### **Certificate Annex**



Certificate Number	CML 17ATEX1114X
Equipment	GR6100ST 6-axis industrial robots
Manufacturer	CMA (Wuhu) Robotics Co. Ltd.

The following documents describe the equipment or component defined in this certificate:

### Issue 0

Drawing No	Sheets	Rev	Approved date	Title
GR-EX-002	1 of 1	-	20-06-2017	Pneumatic schematic
C04-QE-0302-01 EN	1 to 17	1.0	20-06-2017	GR6100 pressurization ATEX electrical diagram
GR6100-ST-910-001	1 of 1	-	20-06-2017	GR6100 Nameplate
GR-EX-002-CE Component install position 2	1 of 1	-	20-06-2017	GR-Ex-002 CE component position
GR-Ex-001-CE component install position 1	1 of 1	-	20-06-2017	Explosion proof box assembly
GR6100ST-06	1 of 1	-	20-06-2017	Cable layout
GR6100ST-002	1 of 1	-	20-06-2017	Control sequence diagram

### Issue 1

Drawing No	Sheets	Rev	Approved date	Title
GR-EX-002	1 of 1	V2.0	20-09-2017	Pneumatic schematic
C04-QE-0302-01 EN	1 to 17	V1.0	20-09-2017	GR6100 pressurization ATEX electrical diagram
GR6100-ST-910-001	1 of 1	V2.0	20-09-2017	GR6100 Nameplate
GR-EX-002-CE Component install position 2	1 of 1	V2.0	20-09-2017	GR-Ex-002 CE component position
GR-Ex-001-CE component install position 1	1 of 1	V2.0	20-09-2017	Explosion proof box assembly
GR6100ST-06	1 of 1	V1.0	20-09-2017	Cable layout
GR6100ST-002	1 of 1	V2.0	20-09-2017	Control sequence diagram



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PRD N° 009B Membro degil Accordi di Mutuo Riconoscimento EA, IAF e ILAC Signatory of EA, IAF and ILAC murual Recognizion Agreements

## ESTENSIONE AL CERTIFICATO DI ESAME UE DEL TIPO EXTENSION TO EU TYPE EXAMINATION CERTIFICATE

2 Apparecchiature o sistemi di protezione destinati ad essere utilizzati

in atmosfera potenzialmente esplosiva Direttiva 2014/34/UE

Numero dell'estensione:

### N° 01/18

Certificato esame UE del tipo di riferimento:

### **BVI 16 ATEX 0014**

 Apparecchiatura o sistema di protezione:
Apparecchiatura: Robot antropomorfo industriale a 6 assi Tipo: GR 630 ST

5 Fabbricante: CMA robotics S.p.A.

6 Indirizzo: viale del lavoro, 41 Z.I.U. – 33050 Pavia di Udine

7 La presente estensione deve essere unita sempre al Certificato di Esame UE di Tipo BVI 16 ATEX 0014

8 Le verifiche ed i risultati di prova sono registrati nel rapporto di valutazione tecnica confidenziale TC1097/18/FC/fc rev.1

 9 Varianti ammesse:
(Vedi paragrafo A3 del presente documento per descrizione dettagliata delle varianti ammesse)

10 Documenti di Riferimento: (da unire a quelli citati nel certificato BVI 16 ATEX 0014):

FT GR630ST 01 Rev.01 23/10/2018

Una copia dei documenti sopracitati è conservata presso l'archivio di BVI

Milano, 8 gennaio 2019

Equipment or protective system intended for use in potentially explosive atmospheres Directive 2014/34/EU

**Extension number:** 

### N° 01/18

EU type examination certificate reference:

### **BVI 16 ATEX 0014**

Equipment or protective system:

Equipment: industrial 6 axes anthropomorphic robot Type: GR630 ST

Manufacturer: Address: CMA robotics S.p.A. viale del lavoro, 41 Z.I.U. – 33050 Pavia di Udine

This extension and specified reference documents shall be annexed to the EU type examination certificate BVI 16 ATEX 0014

The examination and tests results are recorded in confidential technical evaluation report TC1097/18/FC/fc rev.1

Admitted variation: (See clause A3 of this document for admitted variations detailed description)

Reference documents: (to be attached to those listed in the certificate BVI 16 ATEX 0014):

FT GR630ST\_01 Rev.01 23/10/2018

A copy of the above mentioned documents are kept at BVI archive



Chrono certificate TC1099/18/FC/fc rev.1 IT File 18.IT.3105594.726 Il Presente documento non può essere riprodotto parzialmente se non con l'approvazione scritta di Bureau Veritas Italia. The present document shall not be reproduced, except in full, without Bureau Veritas Italia approval. Page 1/2







PRD N° 009B Membro degli Accordi di Mutuo Ricanoscimento EA, IAF e ILAC Signatory of EA, IAF and ILAC mutual Recognition Agreements

### (A1) ALLEGATO

#### (A2) ESTENSIONE N° 01/18 al certificato di esame UE del tipo BVI 16 ATEX 0014

#### (A3) DESCRIZIONE DELLE VARIANTI:

Le varianti introdotte dal fabbricante, oggetto della presente estensione 01/18 del certificato di esame UE del tipo BVI 16 ATEX 0014, sono:

- Cambiamento sede del fabbricante
- Aggiornamenti riguardanti direttiva di riferimento ATEX e normative correlate, e conseguente nuova marcatura atex dell'apparecchiatura
- Sostituzione di alcuni componenti di acquisto del quadro pressurizzazione (posto in area sicura) e conseguente verifica della Performance Level del sistema di pressurizzazione aggiornato
- L'apparecchiatura GR 630 ST è conforme alle norme armonizzate EN 60079-0:2012, EN 60079-2:2014, EN 80079-36:2016 e EN 80079-37:2016 ed assume la seguente marcatura atex:

II 2G Ex pxb IIB T4 Gb Tamb. +5/+40 °C II 2D Ex pxb IIIC T135 °C Db

Condizioni speciali per uso sicuro invariate rispetto al certificato originale

### SCHEDULE

# EXTENSION N° 01/18 to EU type examination certificate BVI 16 ATEX 0014

DESCRIPTION OF VARIATIONS:

The variations introduced by the manufacturer, covered by this extension 01/18 to the EU type examination certificate BVI 16 ATEX 0014, are:

- Change of manufacturer's headquarters
- Updates regarding the ATEX reference directive and related regulations, and consequent new atex marking of the equipment
- Replacement of some parts of the pressurization panel (located in a safe area) and subsequent verification of the Performance Level of the updated pressurization system
- The GR 630 ST equipment complies with the harmonized standards EN 60079-0:2012 and EN 60079-2:2014, EN 80079-36:2016 e EN 80079-37:2016 and assumes the following atex marking

II 2G Ex pxb IIB T4 Gb Tamb. +5/+40 °C II 2D Ex pxb IIIC T135 °C Db

Special conditions for safe use unchanged from the original certificate

Chrono certificate TC1099/18/FC/fc rev.1 IT File 18.IT.3105594.726 Il Presente documento non può essere riprodotto parzialmente se non con l'approvazione scritta di Bureau Veritas Italia. The present document shall not be reproduced, except in full, without Bureau Veritas Italia approval. Page 2/2



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PRD N° 009B Membro degli Accordi di Mutuo Ricconascimento EA, IAF e ILAC Signifariy of EA, IAF and ILAC mutual Recognition Agreements

## ESTENSIONE AL CERTIFICATO DI ESAME UE DEL TIPO EXTENSION TO EU TYPE EXAMINATION CERTIFICATE

2 Apparecchiature o sistemi di protezione destinati ad essere utilizzati in atmosfera potenzialmente esplosiva Direttiva 2014/34/UE

Numero dell'estensione:

N° 01/18

Certificato esame UE del tipo di riferimento:

**BVI 11 ATEX 0068 X** 

Apparecchiatura: Robot antropomorfo industriale a 6 assi

CMA robotics S.p.A.

La presente estensione deve essere unita sempre al Certificato di

Le verifiche ed i risultati di prova sono registrati nel rapporto di

(Vedi paragrafo A3 del presente documento per descrizione

Una copia dei documenti sopracitati è conservata presso l'archivio

Milano, 8 gennaio 2019

valutazione tecnica confidenziale TC1097/18/FC/fc rev.1

(da unire a quelli citati nel certificato BVI 11 ATEX 0068 X):

viale del lavoro, 41 Z.I.U. - 33050 Pavia di

Apparecchiatura o sistema di protezione:

Udine

Esame UE di Tipo BVI 11 ATEX 0068 X

dettagliata delle varianti ammesse)

FT GR650ST\_01

Tipo: GR 650 ST

Varianti ammesse:

Documenti di Riferimento:

Fabbricante:

Indirizzo:

Equipment or protective system intended for use in potentially explosive atmospheres Directive 2014/34/EU

**Extension number:** 

### N° 01/18

EU type examination certificate reference:

### **BVI 11 ATEX 0068 X**

Equipment or protective system:

Equipment: industrial 6 axes anthropomorphic robot Type: GR650 ST

Manufacturer: Address: CMA robotics S.p.A. viale del lavoro, 41 Z.I.U. – 33050 Pavia di Udine

This extension and specified reference documents shall be annexed to the EU type examination certificate BVI 11 ATEX 0068  $\rm X$ 

The examination and tests results are recorded in confidential technical evaluation report TC1097/18/FC/fc rev.1

Admitted variation: (See clause A3 of this document for admitted variations detailed description)

Reference documents: (to be attached to those listed in the certificate BVI 11 ATEX 0068 X):

FT GR650ST\_01

Rev.01 18/10/2018

A copy of the above mentioned documents are kept at BVI archive



Chrono certificate TC1098/18/FC/fc rev.1 IT File 18.IT.3105594.726 Il Presente documento non può essere riprodotto parzialmente se non con l'approvazione scritta di Bureau Veritas Italia. The present document shall not be reproduced, except in full, without Bureau Veritas Italia approval.

Rev.01 18/10/2018

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PRD N° 009B Hembre degli Actività di Mutue Reconstancese EA, 14P e 114C Signatory of EA, 14P and ILAC mutual Recognition Agreements

### (A1) ALLEGATO

## (A2) ESTENSIONE N° 01/18 al certificato di esame UE del tipo BVI 11 ATEX 0068 X

#### (A3) DESCRIZIONE DELLE VARIANTI:

Le varianti introdotte dal fabbricante, oggetto della presente estensione 01/18 del certificato di esame UE del tipo BVI 11 ATEX 0068 X, sono:

- Cambiamento sede del fabbricante
- Aggiornamenti riguardanti direttiva di riferimento ATEX e normative correlate, e conseguente nuova marcatura atex dell'apparecchiatura
- Sostituzione di alcuni componenti di acquisto del quadro pressurizzazione (posto in area sicura) e conseguente verifica della Performance Level del sistema di pressurizzazione aggiornato
- L'apparecchiatura GR 650 ST è conforme alle norme armonizzate EN 60079-0:2012, EN 60079-2:2014, EN 80079-36:2016 e EN 80079-37:2016 ed assume la seguente marcatura atex:

II 2G Ex pxb IIB T4 Gb Tamb. +5/+40 °C II 2D Ex pxb IIIC T135 °C Db

Condizioni speciali per uso sicuro invariate rispetto al certificato originale

### SCHEDULE

## EXTENSION N° 01/18 to EU type examination certificate BVI 11 ATEX 0068 X

DESCRIPTION OF VARIATIONS:

The variations introduced by the manufacturer, covered by this extension 01/18 to the EU type examination certificate BVI 11 ATEX 0068 X, are:

- Change of manufacturer's headquarters
- Updates regarding the ATEX reference directive and related regulations, and consequent new atex marking of the equipment
- Replacement of some parts of the pressurization panel (located in a safe area) and subsequent verification of the Performance Level of the updated pressurization system
- The GR 650 ST equipment complies with the harmonized standards EN 60079-0:2012, EN 60079-2:2014, EN 80079-36:2016 and EN 80079-37:2016 and assumes the following atex marking

II 2G Ex pxb IIB T4 Gb Tamb. +5/+40 °C II 2D Ex pxb IIIC T135 °C Db

 Special conditions for safe use unchanged from the original certificate

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