



IECEx Quality Assessment Report Summary

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

QAR Ref. No.:	DE/BVS/QAR06.0015/20	Page 1 of 2
QAR Free Ref. No.:	ZQS/E103/25	Status:Issued
Details of change:	No changes in the production of explosion-protected devices.	Date of issue:2025-07-11
Location(s) audited:	HBT GmbH Industriestraße 1 44534 Lünen Germany	Valid until:2028-05-31
	HBT GmbH Beisenbruchstrasse 10 45549 Sprockhövel Germany	Audit date:2025-06-03
Issuing ExCB:	BVS - DEKRA Testing and Certification GmbH	
Manufacturer:	HBT GmbH Industriestraße 1 44534 Lünen	
Location of Manufacturer:	Germany	
Product information:	Production, Reconstruction, Overhauling, Sales, Engineering and Service of Mining Equipment as well as Special Machines and -constructions.	
Type of protection:	Flameproof enclosures “d” Increased safety “e” Intrinsic safety “i” Optical radition "op is/pr/sh"	
Related QARs:		
DE/BVS/QAR06.0015/00	DE/BVS/QAR06.0015/01	DE/BVS/QAR06.0015/02
DE/BVS/QAR06.0015/03	DE/BVS/QAR06.0015/04	DE/BVS/QAR06.0015/05
DE/BVS/QAR06.0015/06	DE/BVS/QAR06.0015/07	DE/BVS/QAR06.0015/08
DE/BVS/QAR06.0015/09	DE/BVS/QAR06.0015/10	DE/BVS/QAR06.0015/11
DE/BVS/QAR06.0015/12	DE/BVS/QAR06.0015/13	DE/BVS/QAR06.0015/14
DE/BVS/QAR06.0015/15	DE/BVS/QAR06.0015/16	DE/BVS/QAR06.0015/17
DE/BVS/QAR06.0015/18	DE/BVS/QAR06.0015/19	
Related Certificates (manual insertion)::		
Related Certificates (automatic linking)::		
IECEX TSA 10.0038X issue: 3		
Related Certificates for previous versions:		
IECEX BAS 10.0055 issue: 5	IECEX BAS 10.0055 issue: 6	IECEX BAS 10.0055X issue: 7
IECEX BAS 10.0058 issue: 3	IECEX BAS 10.0058X issue: 4	IECEX BAS 13.0061 issue: 0
IECEX BAS 13.0062 issue: 0	IECEX BVS 10.0029 issue: 0	IECEX BVS 10.0029 issue: 1
IECEX BVS 10.0029 issue: 2	IECEX BVS 10.0062 issue: 0	IECEX BVS 10.0062 issue: 1
IECEX BVS 10.0064 issue: 0	IECEX BVS 10.0064 issue: 1	IECEX BVS 10.0065 issue: 0
IECEX BVS 10.0065 issue: 1	IECEX BVS 10.0066 issue: 0	IECEX BVS 10.0066 issue: 1
IECEX BVS 10.0066 issue: 2	IECEX BVS 10.0067 issue: 0	IECEX BVS 10.0067 issue: 1
IECEX BVS 11.0036 issue: 0	IECEX BVS 11.0053X issue: 0	IECEX BVS 11.0053X issue: 1
IECEX BVS 11.0062 issue: 0	IECEX BVS 11.0062 issue: 1	IECEX BVS 11.0095X issue: 0
IECEX BVS 19.0057 issue: 0	IECEX BVS 19.0057 issue: 1	IECEX BVS 20.0008X issue: 0
IECEX BVS 20.0008X issue: 1	IECEX BVS 20.0013 issue: 0	IECEX BVS 20.0013 issue: 1
IECEX BVS 20.0013 issue: 2	IECEX BVS 20.0013 issue: 3	IECEX BVS 20.0013 issue: 4
IECEX BVS 20.0013 issue: 5	IECEX BVS 20.0014 issue: 0	IECEX BVS 20.0014 issue: 1
IECEX IBE 10.0005 issue: 0	IECEX IBE 10.0005 issue: 1	IECEX IBE 10.0006 issue: 0

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Related Certificates for
previous versions (continued):

IECEX IBE 10.0007U issue: 0	IECEX IBE 10.0008 issue: 0	IECEX IBE 10.0010 issue: 0
IECEX IBE 10.0010 issue: 1	IECEX IBE 10.0013X issue: 0	IECEX IBE 10.0013X issue: 1
IECEX IBE 14.0074X issue: 0	IECEX IBE 16.0034 issue: 0	IECEX IBE 16.0034 issue: 1
IECEX IBE 20.0008 issue: 0	IECEX IBE 20.0008 issue: 1	IECEX INE 10.0016 issue: 0
IECEX INE 10.0016 issue: 1	IECEX MSC 14.0003 issue: 0	IECEX MSC 14.0004 issue: 0
IECEX MSC 14.0009X issue: 0	IECEX MSC 14.0009X issue: 1	IECEX MSC 15.0004X issue: 0
IECEX MSC 15.0004X issue: 1	IECEX MSC 15.0005X issue: 0	IECEX MSC 16.0002 issue: 0
IECEX MSC 16.0002 issue: 1	IECEX MSC 16.0002 issue: 2	IECEX MSC 17.0007X issue: 0
IECEX TSA 10.0032X issue: 0	IECEX TSA 10.0032X issue: 1	IECEX TSA 10.0033X issue: 0
IECEX TSA 10.0033X issue: 1	IECEX TSA 10.0033X issue: 2	IECEX TSA 10.0036X issue: 0
IECEX TSA 10.0036X issue: 1	IECEX TSA 10.0036X issue: 2	IECEX TSA 10.0036X issue: 3
IECEX TSA 10.0038X issue: 0	IECEX TSA 10.0038X issue: 1	IECEX TSA 10.0038X issue: 2
IECEX TSA 10.0040X issue: 0	IECEX TSA 10.0040X issue: 1	IECEX TSA 10.0040X issue: 2
IECEX TSA 10.0041X issue: 0	IECEX TSA 10.0041X issue: 1	IECEX TSA 10.0041X issue: 2
IECEX TSA 11.0001X issue: 1	IECEX TSA 11.0003X issue: 0	IECEX TSA 11.0003X issue: 1
IECEX TSA 11.0003X issue: 2	IECEX TSA 11.0004X issue: 0	IECEX TSA 11.0004X issue: 1
IECEX TSA 11.0004X issue: 2	IECEX TSA 11.0005X issue: 0	IECEX TSA 11.0005X issue: 1
IECEX TSA 11.0006X issue: 0	IECEX TSA 11.0006X issue: 1	IECEX TSA 11.0006X issue: 2
IECEX TSA 11.0010X issue: 0	IECEX TSA 11.0010X issue: 1	IECEX TSA 11.0010X issue: 2
IECEX TSA 11.0017X issue: 0	IECEX TSA 11.0017X issue: 1	IECEX TSA 11.0017X issue: 2
IECEX TSA 11.0030X issue: 0	IECEX TSA 11.0030X issue: 1	IECEX TSA 11.0030X issue: 2
IECEX TSA 11.0030X issue: 3	IECEX TSA 11.0033X issue: 1	IECEX TSA 11.0033X issue: 2
IECEX TSA 11.0036X issue: 0	IECEX TSA 11.0036X issue: 1	IECEX TSA 11.0062X issue: 0
IECEX TSA 11.0062X issue: 1	IECEX TSA 12.0003X issue: 0	IECEX TSA 12.0003X issue: 1
IECEX TSA 12.0003X issue: 2	IECEX TSA 12.0012X issue: 0	IECEX TSA 12.0012X issue: 1
IECEX TSA 12.0012X issue: 2	IECEX TSA 12.0012X issue: 3	IECEX TSA 12.0015X issue: 0
IECEX TSA 12.0015X issue: 1	IECEX TSA 12.0021X issue: 0	IECEX TSA 12.0021X issue: 1
IECEX TSA 12.0028X issue: 0	IECEX TSA 12.0028X issue: 1	IECEX TSA 12.0028X issue: 2
IECEX TSA 12.0028X issue: 3	IECEX TSA 20.0004 issue: 0	IECEX TSA 20.0004 issue: 1
IECEX TSA 20.0019X issue: 0	IECEX TSA 20.0019X issue: 1	IECEX TSA 20.0020 issue: 0
IECEX TSA 20.0020 issue: 1	IECEX TSA 21.0008 issue: 0	

Comments: Attachment includes ANZEx and related IECEX Certificates of Conformity

Annex:

E103_25_Q-F-21-ExE-Liste_Ueberwachung_Produktion-QAR_EN_incl.discontinued products_2025-07-11.pdf

Annex to Certificate

DE/BVS/QAR06.0015/20

HBT GmbH (former Caterpillar Global Mining Europe GmbH)

Controlled products of the manufacturer, dated: **2025-07-11**

No.	Certificate number	Product	Type	Type of protection / marking
1.	ANZEx 04.3025X Issue 2	Pressure sensor	IPS-*	Ex ib I
2.	ANZEx 04.3026X	Pressure transducer	PDS100	Ex ib I
3.	ANZEx 04.3032X	Ground fault sensor	ESS1-*	Ex ib I
4.	ANZEx 04.3033X	Reed rod	RMS2-*	Ex ib I
5.	ANZEx 05.3004X	Proximity sensor	IFRM 08P1707	Ex ib I
6.	ANZEx 05.3021X Issue 5	Control unit	PMC-D/D20 PMC-V/G	Ex ib I
7.	ANZEx 05.3023X Issue 3-draft Replaced by IECEX MSC 17.0007X	Servo valve	D631K600 Series	Ex ib I
8.	ANZEx 05.3024X Issue 2	Temperature sensing unit	PT100/PT1000	Ex ib I
9.	ANZEx 05.3028X replaced by: IECEX MSC 15.0005X	2-Wire Proximity device	IFRM 12X9503	Ex ib I
10.	ANZEx 05.3030X Issue 4	Current/Frequency transducer	AZAD	Ex ib I
11.	ANZEx 05.3040X Issue 1 replaced by: IECEX MSC 14.0009X	RAM Battery	BATT1	Ex ia I Ma
12.	ANZEx 05.3042X Issue 2	Beeper	TB27	Ex ib I
13.	ANZEx 05.4013X Issue 2	Machine Position Unit	MP3	Ex id I
14.	ANZEx 05.4014X Issue 3	Data coupler	PM*/IC1 PM*/IC2 PMC/ii 1 PMC/TP2	Ex ib I
15.	ANZEx 05.4015X Issue 3	Solenoid	DMA3-1 DMA3-2 DMA3-3	Ex ib I
16.	ANZEx 06.3016X Issue 2	Infrared Transmitter	IRS02 IRT02	
17.	ANZEx 06.3024X Issue 5	Current Limiter	GL1, GL2 and GL3	Ex ia I
18.	ANZEx 06.3026X Issue 2	Identification and data storage devices	PMC-Code Plug / Data Stick	Ex ib I
19.	ANZEx 06.3029X Issue 1	Proximity Sensor	WB-NS	Ex ib I IP 55
20.	ANZEx 06.3030X Issue 1	Reed Rod	WMG	Ex ib I
21.	ANZEx 06.3031X Issue 5	Electro Hydraulic Solenoid Driver	PMC/ASL* PMC/SD1 PMC/SD2	Ex ib I
22.	ANZEx 06.3047X Issue 3	Pressure Transducer	PMC-PPT100	Ex ib I
23.	ANZEx 06.4011X Issue 2	Power Box	EL48	Ex id I
24.	ANZEx 06.4012X Issue 3	Control Box	EL49	Ex id I
25.	ANZEx 06.4020X Issue 7	Support Control Unit	PMC-R/2	Ex ib I

Annex to Certificate

DE/BVS/QAR06.0015/20

HBT GmbH (former Caterpillar Global Mining Europe GmbH)

Phone +49.234.3696-400

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DTC-Certification-body@dekra.com

Controlled products of the manufacturer, dated: **2025-07-11**

No.	Certificate number	Product	Type	Type of protection / marking
26.	ANZEx 07.3002X Issue 2	Intrinsically Safe LED Warning Lamp	WL 2	Ex ia I
27.	ANZEx 07.3008X Issue 3	Compact Control System IS Interface	LMA-00692	[Ex ia] I
28.	ANZEx 07.3056X Issue 2	Electro-Hydraulic Check-Control System	System-PM4	Ex ib I
29.	ANZEx 07.3061X Issue 1	Converter	PMC-id BiDi 232	[Ex ib] I
30.	ANZEx 07.3064X Issue 1	Pressure Transducer	2	Ex ia I
31.	ANZEx 08.3000X Issue 1	Smart Junction Box	T5A	Ex ia I
32.	ANZEx 08.3008X Issue 1	Oil Level / Temperature Transducer	2A	Ex ia I
33.	ANZEx 08.3022X Issue 1	Inclinometer	NG*	Ex ib I
34.	ANZEx 08.3029X Issue 1 Cancelled on 2020-10-13	Electrical Control Box	EL40	Ex d I 150°C
35.	ANZEx 08.3031X Issue 2 Cancelled on 2020-10-13	Transformer Enclosure	EL37B	EX d s I
36.	ANZEx 08.3045X Issue 1 Cancelled on 2020-10-13	Solenoid Valve	DEV*	Ex ib I IP55
37.	ANZEx 08.3055X Issue 2	Long Distance Coupler	PMC-LD485-*	Ex ia I
38.	ANZEx 08.3059X Issue 3 Cancelled on 2020-10-13	Accelerometer	RBS10K	Ex ib I
39.	IECEX IBE 10.0005 Issue 1 IECEX TSA 11.0010X Issue 1 Issue 2	Sensor interface	IS POT UI INTERFACE	Ex ib I
40.	IECEX IBE 10.0006 IB 14-3-051 IECEX TSA 11.0017X Issue 1 Issue 2	Sensor interface	IS DMS UI INTERFACE	Ex ib I
41.	IECEX IBE 10.0007U IECEX TSA 10.0032X Issue 1	Barrier	USB Barrier IS	[Ex ib] I
42.	IECEX IBE 10.0008 Issue 3 IECEX TSA 10.0036X Issue 3	Accelerometer	3D TILT Sensor	Ex ib I
43.	IECEX IBE 10.0010 Issue 1 IECEX TSA 10.0033X Issue 2	Keypad	IS Keypad	Ex ib I Mb Ex ib I
44.	IECEX IBE 10.0013X Issue 1	Sensor interface	IS UI Interface	Ex ib I

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Controlled products of the manufacturer, dated: **2025-07-11**

No.	Certificate number	Product	Type	Type of protection / marking
45.	IECEX INE 10.0016 Issue 1 IECEX TSA 11.0030X Issue 3	Monitor Box	3D TILT Monitor	Ex ib I Mb
46.	IECEX BVS 10.0029 Issue 2 IECEX TSA 10.0038X Issue 3	Ethernet-Switch	is-Power-Switch 6T 2SM; is-Power-Switch 4T 4SM-14; is-Power-Switch 4T 4SM-12; is-Switch 4T 4SM -04	Ex ib I Mb Ex ib I
47.	IECEX BVS 10.0062 Issue 1 IECEX TSA 10.0041X Issue 2	Backplane with CIOS Module	CIOS BP *IS; CIOS FBC EIP OS4 IS	Ex ib I Mb
48.	IECEX BVS 10.0064 Issue 1 IECEX TSA 10.0040X Issue 2	CIOS Module	CIOS DIN4 E1 OS4 IS	Ex ib I Mb Ex ib I
49.	IECEX BAS 10.0055 Issue 7 IECEX TSA 11.0001X Issue 1	Haulage Transformer Box	HTB3	Ex d I Mb Ex d I
50.	IECEX BVS 10.0065 Issue 1 IECEX TSA 11.0004X Issue 2	CIOS Module	CIOS AIN* E*- * OS4 IS	Ex ib I
51.	IECEX BVS 10.0066 Issue 2 IECEX TSA 11.0003X Issue 2	CIOS Module	CIOS RTD4 OS4 IS	Ex ib I Mb Ex ib I
52.	IECEX BVS 10.0067 Issue 1 IECEX TSA 11.0006X Issue 2	CIOS Module	CIOS DOUT4 OS4 IS	Ex ib I Ex ib I Mb
53.	IECEX TSA 11.0005X Issue 1	Condition Monitoring Unit	PMC-ASI	Ex ib I
54.	IECEX BAS 10.0058X Issue 4 IECEX TSA 11.0033X Issue 2	Electrical Control Box	ECB3	Ex d [ia Ma] I Mb IP56
55.	IECEX BVS 11.0036 IECEX TSA 11.0036X Issue 1 Cancelled on 2020-10-13	Sensor Unit Slack Tronic	magWave and magScan	Ex d [ib] I Mb
56.	IECEX BVS 11.0053X Issue 1 IECEX TSA 12.0003X Issue 2	Camera	HD-01 HD-02	Ex d ib op is I Mb
57.	IECEX BVS 11.0095X IECEX TSA 12.0021X Issue 1 Cancelled on 2020-10-13	Camera	Dome Cam 01	Ex d I Mb
58.	IECEX BVS 11.0062 Issue 1 IECEX TSA 11.0062X Issue 1	Data storage device	IS USB STICK	Ex ib I Mb

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HBT GmbH (former Caterpillar Global Mining Europe GmbH)

Controlled products of the manufacturer, dated: **2025-07-11**

No.	Certificate number	Product	Type	Type of protection / marking
59.	IECEEx TSA 12.0012X Issue 3	Camera Power Switch module	CPS-*	Ex d I Mb I or Ex d ib I Mb or Ex d ia ib I Mb
60.	IECEEx TSA 12.0015X Issue 1	Potcon Relay	PFC1*	Ex ia I Ma
61.	IECEEx TSA 12.0028X Issue 3	Personnel Proximity Detection System	TAG Reader	Ex ia I Ma Ex ib I Mb
62.	IECEEx BAS 13.0061 IECEEx MSC 14.0003	Electrical Control Box	ECB2	Ex d [ia Ma] I Mb
63.	IECEEx BAS 13.0062 IECEEx MSC 14.0004	Haulage Transformer Box	HTB2	Ex d I Mb
64.	IECEEx MSC 14.0009X Issue 1	Battery Module	BATT1	Ex ia I Ma
65.	IECEEx IBE 14.0074X IECEEx MSC 15.0004X Issue 1	Battery Module	BATT2	Ex ia I Ma
66.	IECEEx MSC 15.0005X	Baumer 2 Wire Proximity Detector	IFRM 12X9503	Ex ia I Ma
67.	IECEEx MSC 16.0002 Issue 2	3D-Accel-Master and 3D-Accel-Sensor	SAM-M SAM-S	Ex ib I Mb
68.	IECEEx IBE 16.0034 Issue 1	Temperature sensor	PT100/PT1000	Ex ia I Ma
69.	IECEEx MSC 17.0007X	Servo valve	D631K6***	Ex ib I Mb
70.	IECEEx BVS 19.0057 Issue 1 IECEEx TSA 20.0004 Issue 1	Solenoid Driver Adapter and Can Code Plug	SDA and CCP	Ex ib I Mb
71.	IECEEx BVS 20.0008X Issue 1 IECEEx TSA 20.0019X Issue 1	Ethernet Media Converter	EMC	Ex ib I Mb
72.	IECEEx BVS 20.0013 Issue 5 IECEEx TSA 21.0008	Support Control Unit	PMC-R 2.0	Ex ib I Mb
73.	IECEEx IBE 20.0008 Issue 1	Oil Quality and Wear Sensor	COW1	Ex ib I Mb
74.	IECEEx BVS 20.0014 Issue 1 IECEEx TSA 20.0020 Issue 1	Ethernet Isolation Coupler	EIC	Ex ib I Mb

Legend:

New issued certificates or amendments since last assessment

Products are no longer in production and no longer placed on the market, inactive certificate

Products are no longer in production and no longer placed on the market, cancelled certificate