



Type Examination Certificate

(1)

(2)

Equipment Intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC

(3) Type Examination Certificate Number:

FTZÚ 04 ATEX 0344

(4) Equipment: **Breaking car type BTs**

(5) Manufacturer: **LMR s.r.o.**

(6) Address: **Nádražní 462, 739 11 Frýdlant nad Ostravicí, Czech Republic**

(7) This equipment or protective system and any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The Physical Technical Testing Institute, 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 Category M2 equipment, which is intended for use in potentially explosive atmospheres given in Annex II to the Council Directive 94/9/EC.

The examination and test results are recorded in confidential Report N°

04/0344 dated November 2004

(9) Compliance with Essential Health and safety requirements has been assured by compliance with:

EN 13463-1:2001

(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 TYPE EXAMINATION CERTIFICATE relates only to the design, examination and testing of the specified equipment or protective system in accordance to the directive 94/9/EC.
Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

(12) The marking of the equipment or protective system shall include following:

 **I M2**

This Type Examination Certificate is valid till: **30.11.2009**

Responsible person:


Dipl. Ing. Šindler Jaroslav

Head of certification body



Date of issue: 19.11.2004

Number of pages: 1/2

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Physical Technical Testing Institute
Ostrava-Radvanice

(13)

Schedule

(14) **Type Examination Certificate N° FTZÚ 04 ATEX 0344**

(15) Description of Equipment:

The hydraulic breaking car BTs is designed to secure clogs or cabins for miner transport against inelible ride out on suspended rail ZD 24A,B,C or other approved type suspended rail. The breaking car has steel welded construction. The breaking signal is triggered by centrifugal governor, which blow off preset pressure in hydraulic system when chart speed reaches $3,2 \text{ ms}^{-1}$. The spring develop a breaking effect via trig on two-armed lever, which presses a break-pad plate to main I-profile leg of suspended rail. The break-pad plate is furnished on active side with hard metal pads, verified for safety against ignition by mechanical sparks and by production of excessive hot friction surfaces.

Technical data:

dynamic breaking force 30 kN

for maximum inclination 30° and max. weight of transported clog 3700 kg.

(16) Report No. : 04/0344

14 pages

(17) Special conditions for safe use: --

(18) Essential Health and Safety Requirements:

Cover by above mentioned Directive and standards mentioned in clause (9) of this certificate.

(19) LIST OF DOCUMENTATION

- Drawing No. 10-00-001a incl. piece list (2 pages) on 26.10.1998
- 10-10-001 on 26.10.1998
- 10-08-002 on 26.10.1998
- 10-02.197 on 13.10.1998
- 10-02-198 on 13.10.2004
- Instruction for use No. NP1 (8+5 pages+annexes) on 2004 (regarding to explosion protection)
- Risk assessment (1 pages)

Responsible person:


Dipl. Ing. Šindler Jaroslav

Head of certification body



Date of issue: 19.11.2004

Number of pages: 2/2

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(1) **Supplement No. 1 to
Type Examination Certificate**

(2) **Equipment or Protective Systems Intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC**

(3) Type Examination Certificate Number:

FTZÚ 04 ATEX 0344

(4) Equipment or protective system: **Breaking car type BTs**

(5) Manufacturer: **LMR s.r.o.**

(6) Address: **Nádražní 462, 739 11 Frýdlant nad Ostravicí, Czech Republic**

This supplement of certificate is valid for: - modification of certified apparatus
- prolongation of certificate validity

(8) Modification of certified apparatus (protective system) and any of its approved variants are specified in documentation, list of which is mentioned in schedule of this certificate.

(9) This supplement to type examination certificate is valid only for type examination of design and construction of product sample in accordance with Annex 3 Paragraph 6) of Directive No. 94/9/EC. The Directive contains other requirements, which manufacturer shall fulfil before products are place on market or introduce in service.

(10) Safety requirements of modified parts were fulfil by satisfying of following standards:


EN 13463-1:2009; EN 13463-5:2003

(11) Marking of equipment shall contain symbols:



(12) This type examination certificate is valid till: **30. 11. 2014**

Responsible person:


Dipl. Ing. Sindler Jaroslav
Head of certification body



 Date of issue: 30. 11. 2009

Number of pages: 2
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**Physical Technical Testing Institute
Ostrava-Radvanice**

(13)

Schedule

(14)

**Supplement No. 1 to
Type Examination Certificate N° FTZÚ 04 ATEX 0344**

(15) Description of Equipment or Protective System:

See certificate FTZÚ 04 ATEX 0344. This supplement extends certificate validity and confirms application of requirements for equipment in accordance with valid technical standards mentioned in clause (10) of this certificate. The updates design modifications were verified. The basic technical parameters are identical with certified type.

(16) Report No.: 04/0344 + 04/0344 D1 (14 + 8 pages)

(17) Special conditions for safe use: --

(18) Essential Health and Safety Requirements:


Covered by above mentioned Directive and standards mentioned in clause (10) of this certificate.

(19) **LIST OF DOCUMENTATION**

Drawing No.	10-00-001b	dated 20.08.2007
	10-10-001a	dated 26.05.2007
	10-08-002a	dated 23.02.2007
	10-02-197a	dated 08.11.2006
	10-02-198a	dated 24.11.2009
Instruction for use No.	NP1 (9+5 pages+annexes)	dated 2009 (regarding to explosion protection)
Risk assessment		

Responsible person:

Date of issue: 30. 11. 2009


Dipl. Ing. Šindler Jaroslav
Head of certification body



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(1) **Supplement No. 2 to
Type Examination Certificate**

(2) **Equipment or Protective Systems Intended for Use
in Potentially Explosive Atmospheres
(Directive 94/9/EC)**

(3) Type Examination Certificate Number:

FTZÚ 04 ATEX 0344

(4) Equipment: **Breaking car type BTs**

(5) Manufacturer: **LMR s.r.o.**

(6) Address: **ul. Svazarmovská 2287, 738 01 Frýdek-Místek, Czech Republic**

(7) This supplement of certificate is valid for: - change of manufacturer residence
- prolongation of certificate validity
- verification according to new valid standards

(8) Modification of certified apparatus and any of its approved variants are specified in documentation, a list of which is mentioned in the schedule of this certificate.

(9) This supplement to type examination certificate is valid only for type examination of design and construction of product sample in accordance with Annex 3 Paragraph 6) of Directive No. 94/9/EC. The Directive contains other requirements, which manufacturer shall fulfil before products are placed on the market or introduce in service.

(10) Safety requirements of modified parts were fulfilled by satisfying the following standards:

EN 13463-1:2009; EN 13463-5:2011

(11) Marking of equipment shall contain symbols:



(12) This type examination certificate is valid till: **30.11.2019**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 28.11.2014

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Physical Technical Testing Institute
Ostrava – Radvanice

(13)

Schedule

(14)

Supplement No. 2 to
Type Examination Certificate N° FTZÚ 04 ATEX 0344

(15) Description of Equipment:

See certificate No. FTZÚ 04 ATEX 0344 + supplement No. 1.

- a) Manufacturer was changed address from Nádražní 462, 739 11 Frýdlant nad Ostravicí to new address: ul. Svazarmovská 2287, 738 01 Frýdek-Místek, Czech Republic.
- b) This supplement extends certificate validity and confirms application of requirements for equipment in accordance with valid technical standards mentioned in clause (10) of this certificate.
- c) Equipment parameters are without any changes.

(16) Report No.: FTZÚ 04/0344 + supplements No. 1 and 2

(17) Special conditions for safe use:--

(18) Essential Health and Safety Requirements:

Covered by standards mentioned in (10) of this certificate.

(19) List of Documentation:

Were not altered - see certificate FTZÚ 04 ATEX 0344 supplement No. 1.

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 28.11.2014

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This supplement to certificate is granted subject to the general conditions of the FTZÚ, s.p.
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(1) **Supplementary Type Examination Certificate No. 3**

(2) **Equipment or Protective Systems Intended for Use
in Potentially Explosive Atmospheres
(Directive 2014/34/EU)**

(3) Type Examination Certificate number:

FTZÚ 04 ATEX 0344

(4) Product: **Breaking car type BTs**

(5) Manufacturer: **LMR s.r.o.**

(6) Address: **Svazarmovská 2287, 738 01 Frýdek-Místek, Czech Republic**

(7) This supplementary certificate extends Type Examination Certificate No. FTZ 04 ATEX 0344 to apply to products 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) The Physical-Technical Testing Institute certifies that this product, as modified by this supplementary certificate, 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 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014.

(9) In accordance with Article 41 of Directive 2014/34/EU, Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20.04.2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20.04.2016.

(10) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 13463-1:2009; EN 13463-5:2011

(11) The marking of the product shall include the following:

 **I M2 c Mb**

(12) This certificate is valid till: **30.11.2019**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 29.11.2017

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Physical-Technical Testing Institute
Ostrava - Radvanice

(13) **Schedule**

(14) **Supplementary Type Examination Certificate No. 3
to FTZÚ 11 ATEX 344**

(15) Description of the variation to the Product:

The subject of this supplementary certificate is:

- Modification of certified apparatus:

It was changed the marking of the sintered carbide of the brake-pad plate.

Technical specifications remain unchanged.

(16) Report Number.: 04/0344/3

(17) Specific Conditions of Use:

None.

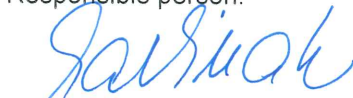
(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (10) of this supplementary certificate.

(19) Drawings and Documents:

Number	Sheets	Date	Description
20-58-000a	1	31.08.2017	Brzdná čelist

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 29.11.2017

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(1) **Supplementary Type Examination Certificate No. 4**

(2) **Equipment or Protective Systems Intended for Use
in Potentially Explosive Atmospheres
(Directive 2014/34/EU)**

(3) Type Examination Examination Certificate number:

FTZÚ 04 ATEX 0344

(4) Product: **Braking trolley type BTs**

(5) Manufacturer: **LMR s.r.o**

(6) Address: **Svazarmovská 2287, 73801 Frýdek-Místek, The Czech Republic**

(7) This supplementary certificate extends Type Examination Certificate No. FTZÚ 04 ATEX 0344 to apply to products 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) The Physical-Technical Testing Institute certifies that this product, as modified by this supplementary certificate, 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 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014.

(9) In accordance with Article 41 of Directive 2014/34/EU, Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20.04.2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20.04.2016.

(10) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN ISO 80079-36:2016;

EN ISO 80079-37:2016

(11) The marking of the product shall include the following:

 **I M2 Ex h I Mb**

(12) This certificate is valid till: **26.11.2024**

Responsible person:

V.Š. Jof

Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 26.11.2019

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Physical-Technical Testing Institute
Ostrava - Radvanice

Schedule

(13)

(14) **Supplementary Type Examination Certificate No. 4
to FTZÚ 04 ATEX 0344**

(15) Description of the variation to the Product:

The subjects of this supplementary certificate are:

- Change of the product marking.
- Evaluation according to the standards EN ISO 80079-36:2016, EN ISO 80079-37:2016.
- Prolongation of certificate validity:

Technical parameters and construction of the braking trolley type **BTs** remain unchanged and they are listed in the original certificate and supplement No. 1 + No.3.

(16) Report Number.: 04/0344/4 from date: 18.11.2019

(17) Specific Conditions of Use:

None.

(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (10) of this supplementary certificate.

(19) Drawings and Documents:

Number	Sheets	Date	Title
NP1	16	04/19	Instruction for use
AR_LMR_BTs+BTs-DUO_2019	4	15.11.2019	Ignition hazard assessment report
10-02-198b	1	15.11.2019	Drawing

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 26.11.2019

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