

(1) TYPE EXAMINATION CERTIFICATE



- (2) Equipment and Protective Systems intended for use in
Potentially Explosive Atmosphere - **Directive 2014/34/EU**
- (3) Type-Examination Certificate Number

TÜV 20 ATEX 8553 U

Issue: 00

- (4) Equipment: **Conveyor Idler series**
- (5) Manufacturer: **Lorbrand (PTY) Ltd.**
- (6) Address: **6 Hennopsrivier Street, Sunderland Ridge
Centurion, 0157, Gauteng, South Africa**
- (7) This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The TÜV Rheinland Zertifizierungsstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 21 of the Council Directive 2014/34/EU of 26th February 2014, certifies this product which 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 atmosphere, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report 557/Ex8553.00/20

- (9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

EN 60079-0:2012+A11:2013

EN ISO 80079-36:2016

EN ISO 80079-37:2017

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment 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 and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.
- (12) The marking of the equipment shall include the following:



II 2 G Ex h IIA Gb	II 2 G Ex h IIB Gb	II 3 G Ex h IIA Gc
II 3 G Ex h IIB Gc	II 2 D Ex h IIIA Db	II 2 D Ex h IIIB Db
II 3 D Ex h IIIA Dc	II 3 D Ex h IIIB Dc	

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2020-09-22

Dipl.-Ing. Klauspeter Graffi



This Type Examination Certificate without signature and stamp shall not be valid.
This Type Examination Certificate may be circulated only without alteration. Extracts or alterations are subject to approval by the
TÜV Rheinland Industrie Service GmbH TÜV Rheinland Group Am Grauen Stein 51105 Köln
Tel. +49 (0) 221 806-0 Fax. + 49 (0) 221 806 114

(13) Annex

(14) **Type Examination Certificate**
TÜV 20 ATEX 8553 U Issue: 00

(15) Description of equipment

15.1 Equipment and type:

The idler rolls are being used to be incorporated in a conveyor for operation within explosive gas or dust atmosphere. The series of idler rolls consist of different types with variable dimensions as listed in document Atex_Dwg_001 to 004.

15.2 Description / Details of Change

General product information

The idler rolls are made of St 37. The bearings are sealed with Nylon Resin. The sealing prevents particle ingress by propelling particles out of the bearing area, once they entered. In addition the loss of lubrication fluid is being prevented by the usage of double seals or shielded seals. The maximum operation temperature has to be kept below 55°C in order to prevent ignition caused by overload or friction. The idler rolls can be used in Zone 1, Zone 2, Zone 21 and Zone 22.

Technical Data

Environmental data

$-20^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$

(16) Test-Report No. 557/Ex8553.00/20

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(17) Schedule of Limitations

1. The idler rolls have to be installed according to the operator instructions and operated according to the requirements listed in the Directive 199/92/EC.
2. The temperature of the idler rolls has to be monitored and kept at a maximum of 55°C during operation.
3. The idler rolls have to be connected to the overall bonding and grounding system after they are being built-in.

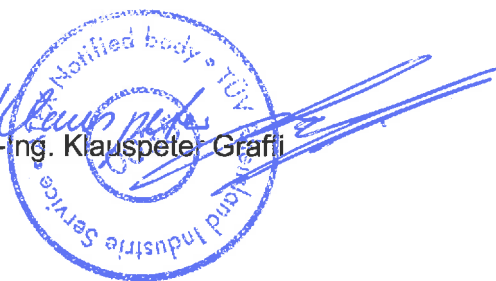
(18) Basic Safety and Health Requirements

Covered by afore mentioned standard

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

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