



## UNIT VERIFICATION CERTIFICATE

- 1)
- 2) Equipment or protective system intended for use in potentially explosive atmospheres — Directive 2014/34/EU
- 3) Unit Verification Certificate Number : **SCA23ATEX184X**
- 4) Equipment or Protective System : **Ex-proof Extractor Feeder, MODEL: EX.EXTFD-D2110**
- 5) Serial Numbers : EX.OR 015-2022 (1 equipment)
- 6) Manufacturer : **Hum Makine San. ve Tic. Koll. Şti.**
- 7) Manufacturer Address : Ege Serbest Bölgesi, Mümtaz Sok. No.20, 35410, Gaziemir - İZMİR / TURKEY
- 8) This equipment or protective system and/or any acceptable variation there to is specified in the schedule to this certificate
- 9) SCA Belgelendirme ve Özel Egt. Hizm. Ltd. Sti. Notified Body number 2336 in accordance with the Council Directive 2014/34/EU, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment or protective system intended for use in potentially explosive atmospheres given in 2014/34/EU.  
The examination and test results are recorded in the confidential report G/2022-09-204/Rp.02
- 10) This Unit Verification Certificate relates to the design, examination and tests of the specified equipment or protective system in accordance to the directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are covered by this certificate. According to Article 15 of the Directive 2014/34/EU the CE mark shall be followed by the identification Number 2336 identifying the notified body involved in the production control stage.
- 11) Essential Health and Safety Requirements is made about reference standards.  
EN IEC 60079-0:2018, EN ISO 80079-36:2016 , EN ISO 80079-37:2016
- 12) Marking of the equipment or protective system must include the following :

 II 2/3 G IIA T3 Gb/Gc

**The competent person**  
**SCA Technical Manager**  
**İsmail OĞLAKCIOĞLU**



**Date of Approval : 17.04.2023**

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### 13) SCHEDULE

14) Unit Verification Certificate: **SCA23ATEX184X**

#### 15) Description of Equipment and/or Protective System:

EX.EXTFD-D2110 model ex-proof extractor feeder's main function is conveying the seed cake to the solvent extractor machine. There is an opening on the top of the feeder body to supply seed cake. An agitator is settled vertically in the body which spreads the seed cake uniformly to bottom surface. The agitator is driven by ex-proof gearbox-motor unit. The four openings at bottom surface of body ensure the seed cake pass to four screw conveyors. The conveyors driven by the ex-proof electric motor-gearbox unit convey the seed cakes by screws to extractor machine. There is a mechanical level gauge to show level. Main body, shaft ,agitators and screw conveyors are made of AISI 304L stainless steel.

#### Technical Parameters

Rated voltage : 400V / 50Hz  
Rated power : 27 kW  
Ambient temperature : 0°C to +30°C

#### Ex Equipment List

Equipment	Manufacturer	Ex Marking	Certificate No
Electric motor - Mixer	ABB Oy Motors	Ex II 2G Ex db eb IIB T4 Gb	DEMKO20ATEX2248X
Gearbox - Mixer	Rossi	Ex II 3G Ex h IIC T4 Gb	NB: TÜV Rheinland/0035 File Receipt No: 557/Ex-Ab 3029/18
Electric motor - Conveyor	ABB Oy Motors	Ex II 2G Ex db eb IIB T4 Gb	LCIE19ATEX3030X
Gearbox - Conveyor	Rossi	Ex II 3G Ex h IIC T4 Gb	NB: TÜV Rheinland/0035 File Receipt No: 557/Ex-Ab 3029/19
Coupling	KTR Systems	Ex II 3G Ex h IIC T6...T4 Gb	IBExU13ATEXB016X

16) Test and Assessment Report *G/2022-09-204/Rp.02*

#### 17) Special Conditions for Safe Use :

-Tamb: 0°C to +30°C

#### 18) Essential Health and safety Requirements :

Met by compliance with the standards listed in Section 11 of this certificate.

#### 19) Drawings and Documents :

Technical file Ex.EXTFD-D2110/Rev.00 dated 06.04.2023 includes drawings, safety, maintenance and mounting instructions.

Drawing No	Title	Pages	Rev.	Date
EXTFD-00	General drawing	1	00	08.04.2023
EXTFD-02	Mixer	1	00	08.04.2023
EXTFD-03L	Feeder conveyor left	1	00	08.04.2023
EXTFD-03R	Feeder conveyor right	1	00	08.04.2023
EXTFD-04	Mechanical level gauge	1	00	08.04.2023

#### The competent person

**SCA Technical Manager**  
**İsmail OĞLAKCIOĞLU**

**Date of Approval : 17.04.2023**