

- [1] **CONFORMITY BASED ON UNIT VERIFICATION**
- [2] **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU Annex IX, Module G**
- [3] Unit Verification Certificate Number ACE26ATEX008X Rev00
- [4] Product and Serial Number TURBO-MEK 300 s.n. D4250006
- [5] Manufacturer Marchesini Group S.p.A.
- [6] Address via Garganelli,24 Pianoro (BO) ITALY
- [7] This equipment or protective system and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- [8] Advanced Consulting and Engineering Iberia SL (A.C.&E. Iberia S.L.), Notified body Accreditation n°: NB3024 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and Council, dated 26 February 2014, certifies that this product 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
The examination and test results are recorded in confidential Report n°. EX_EXH002_26_25-973
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN ISO 80079-36:2016 Explosive atmospheres – Part 36: Non-electrical equipment for explosive atmospheres – Basic method and requirements
- [10] If the sign “X” is placed after the certificate number, it indicates that the product is subject to the Special Conditions for Use specified in the point 17 of This certificate.
- [11] This Unit Verification Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- [12] The marking of the equipment or protective system shall include the following:



II 1/3 G Ex h IIB T3 Ga/Gc
T_{amb}=0°C; +40°C

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Date: 22/04/2026



**Advanced Consulting and Engineering
Iberia SL**
Notified Body No NB3024

Matteo Marconi, CEO

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Description of equipment

The T-MEK 300 is a Turboemulsifier designed for operation in potentially explosive atmospheres. The equipment has a usable capacity of 300 liters, with a minimum working capacity of 130 liters and a total volumetric capacity of 370 liters.

The machine is equipped with a dual mixing system consisting of an internal blade operating at variable speeds between 20 and 65 rpm and an external blade operating between 7.3 and 24.3 rpm. Additionally, the unit includes a high-speed turbine with variable rotation ranging from 873 to 2910 rpm, ensuring efficient homogenization of the processed materials.

The equipment is powered at 400 V, 50 Hz, with installed mixer power of 2 × 1.5 kW and turbine power of 11 kW.

Capacity			
Model	Usable Capacity	Minimum Working Capacity	Capacity at Rim
T-MEK 300	300 liters	130 liters	370 liters
Speeds			
Model	Mixer Speed (Inner Blade, rpm)	Mixer Speed (Outer Blade, rpm)	Turbine Speed (variable rpm)
T-MEK 300	20 – 65	7.3 – 24.3	873 – 2910
Electrical Data			
Model	Voltage	Mixer Power (kW)	Turbine Power (kW)
T-MEK 300	400 V 50 Hz	1.5 × 2	11

The equipment is fitted with an inertization system manufactured by MELLI AUTOMAZIONE S.r.l.

Model: ME600-A-2E-DB-CA-ABV-AA-PA

SIL2

Operation of the machine is permitted only when the inertization system is active and fully functional.

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Machinery is equipped with the following components, already certified/compliant according to ATEX Directive:

Equipment	Manufacturer	Product code	Certification Markings	Marking
ATEX Motor H132 11kW 2P	EUROMOTORI SRL	H132 11kW 2P	CESI 19 ATEX 061 X	II 3G Ex ec IIC T3 Gc
Mechanical Seal TB040 K22 U31 DE9E ATEX	FLUITEN ITALIA S.P.A.	TB040 K22 U31 DE9E ATEX	EPT 20 ATEX 3997 (Deposit receipt)	II 2 G Ex h IIC Gb
Mechanical Seal TBA080-S K22 U31 DE9E ATEX	FLUITEN ITALIA S.P.A.	TBA080-S K22 U31 DE9E ATEX	EPT 20 ATEX 3997 (Deposit receipt)	II 2 G Ex h IIC Gb
Mechanical Seal US3A038 K22 K22 VE9E Zone 1	FLUITEN ITALIA S.P.A.	US3A038 K22 K22 VE9E	EPT 20 ATEX 3997 (Deposit receipt)	II 2 G Ex h IIC Gb
Mechanical Seal US3A038 Z32 V1 VE9E Zone 1	FLUITEN ITALIA S.P.A.	US3A038 Z32 V1 VE9E	EPT 20 ATEX 3997 (Deposit receipt)	II 2 G Ex h IIC Gb
Load Cell FH 1000 ATEX Code CFH3T0010SA	NBC Elettronica s.r.l.	FH 1000 ATEX COD. CFH3T0010SA	EPT 18 ATEX 2956	II 1 GD Ex ia IIC T4 Ga
Gearmotor NMRVP90 1:20 B14 4P 1.5kW	Motovario S.p.a	NMRVP90 1:20 B14 4P 1.5kW	N/A	II 3G Ex nA II T3
Gearmotor NMRVP90 1:30 B14 4P 1.5kW	Motovario S.p.a	NMRVP90 1:30 B14 4P 1.5kW	N/A	II 3G Ex nA II T3
Luminaire	F.H. Papenmeier GmbH & Co. KG	ESL55LED-Ex	BVS 09 ATEX E 137	II 2G Ex db IIC T6 Gb
Glass Fiber Reinforced Polyester Enclosure (Black)	COR.TEM s.p.a.	EX-SA171108/P	CESI 03 ATEX 333	II 2G Db eb IIC T6 Gb

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Equipment	Manufacturer	Product code	Certification Markings	Marking
ATEX Visual Beacon Zone 3G	BARTEC F.N. Srl	customized ESA#2216R000SFE-B999999000	INERIS 02ATEX0067X	II 2G Ex e IIC T5 Gb
Pushbutton for manual controls Zone 2	BARTEC F.N. Srl	customized ESXNA#052042D1C00CVCOK00000FE-B999999000	INERIS 13ATEX3004X	II 3G Ex nA ec IIC T4 Gc
Temperature probe	UIMO ITALIA s.r.l.	903525/30 cod. 00757522	LCEI 03 ATEX 6087 X	II 2/2 G Ex e II T1 to T6 Gb/Gb
Mechanical lever limit switch (SHORT)	Pizzato Elettrica s.r.l.	FM 538-M2-EX7 + VF LE31	BVS 05 ATEX E 107	II 2G Ex ia IIC T6 Gb
Mechanical lever limit switch (LONG)	Pizzato Elettrica s.r.l.	FM 538-M2-EX7 + VF LE69	BVS 05 ATEX E 107	II 2G Ex ia IIC T6 Gb
RFID limit switch actuator	EUCHNER GmbH + Co. KG	CES-A-BBN-C04-EX	N/A	II 3G Ex ic IIC T6 Gc
RFID limit switch housing CES	EUCHNER GmbH + Co. KG	AM-C-C04-EX-137528	N/A	II 3G Ex ec IIB T6 Gc X
Acoustic signaler in aluminum ETH9	BARTEC F.N. Srl	ETH9	INERIS 15ATEX0012X	II 2G Ex d IIC T6 Gb
Intrinsically safe barrier code 158418	R. STAHL Schaltgeräte GmbH	158418	PTB 01 ATEX 2088X	II 3 (1) G Ex nA [ia Ga] IIC T4 Gc
Intrinsically safe barrier code 158350	R. STAHL Schaltgeräte GmbH	158350	PTB 01 ATEX 2088X	II 3 (1) G Ex nA [ia Ga] IIC T4 Gc
Intrinsically safe barrier code 261409	R. STAHL Schaltgeräte GmbH	261409	IBExU 17 ATEX 1151 X	II 3 (1) G Ex nC [ia Ga] IIC T4 Gc

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Equipment	Manufacturer	Product code	Certification Markings	Marking
Intrinsically safe barrier code 261384	R. STAHL Schaltgeräte GmbH	261384	BVS 17 ATEX E 087 X	II 3 (1) G Ex nA [ia Ga] IIC T4 Gc
Thermistor relay code 3RN2011-BA30	Siemens GmbH	3RN2011-BA30	PTB 15 ATEX 3011	II (2) G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb]
Load cell junction box	Técnicas de Electrónica y Automatismos S.A.	89093	LOM 04 ATEX 2130X	II 1 G Ex ia IIC T4...T6 Ga
Pressure transmitter	JUMO ITALIA s.r.l.	DTRANS P33 404753/000-480-405-502-20-36-1/N	SEV 09 ATEX 0140	II 1 GD Ex ia IIC T1 to T6
Safety valve 0.49 bar	NUOVA GENERAL INDUSTRIALE s.r.l.	G3/2 S/N 1,1/2" OUT 11/2"	TÜV IT 18 ATEX 032 AR	II 2GD Ex h IIC T6 Gb/Db
Display TP1200 6AV2124-0MC01-0AX0	Siemens GmbH	TP1200 6AV2124-0MC01-0AX0	DEKRA 19ATEX0111 X	II 3G Ex ec IIC T4 Gc
Magnetic micro switch for cylinders	SMC Corporation	D-A93Z-588 M5	N/A	II 3G Ex nA IIC T5 Gc
SKINTOP cable gland K-M 12x1.5 code 54115200	Cembre S.p.A.	54115200	IMQ 10 ATEX 028 X	II 2G Ex e IIC Gb
SKINTOP cable gland K-M 16x1.5 code 54115210	Cembre S.p.A.	54115210	IMQ 10 ATEX 028 X	II 2G Ex e IIC Gb
SKINTOP cable gland K-M 20x1.5 code 54115220	Cembre S.p.A.	54115220	IMQ 10 ATEX 028 X	II 2G Ex e IIC Gb
Nickel-plated brass cable gland M16x1.5 ATEX	BARTEC F.N. Srl	M16x1.5 ATEX	INERIS 09ATEX0028X	II 2G Ex db/eb/ia IIC Gb
Adapter M20x1.5 – M16x1.5	BARTEC F.N. Srl	M20x1.5–M16x1.5	N/A	II 2GD Ex db/eb/tb

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Equipment	Manufacturer	Product Code	Certification Reference	Marking
Terminal Blocks A2C1.5 COD. 1552790000 WD	Weidmüller Interface GmbH & Co. KG	1552790000 WD	(TÜV 16 ATEX 7909 U)	II 2 GD Ex eb IIC Gb
Butterfly Valve with Pneumatic Actuator	Bardiani Valvole S.p.A.	VF209 TWDBB0409	(TÜV IT 19 ATEX 085 AR)	II 2G Ex h IIB T6 Gb
Heating Element AISI316 D.10L4203KW ATEX	Gandolfi 1970 Srl	(custom product)	(CESI 03 ATEX 082X)	II 2G Ex db IIC T3 Gb
Intrinsic Safety Barrier PROFS13-B25100-ALG-LS	Baumer Italia S.r.l.	PROFS13- B25100-ALG-LS	(LCIE 03 ATEX 6078 X)	II (1) GD [Ex ia] IIC
Termostato	Barksdale	T1X-H251S-A-EX	(ISSeP08ATEX024X/3)	II 2G D, Ex db IIC T6 Gb
Level Sensor LBFS-11111.0	Baumer Italia S.r.l.	LBFS-11111.0	(TÜV 11 ATEX 076877 X)	II 1G Ex ia IIC T4/T5

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SCHEDULE

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Test documents are listed in the test report nº
CE_T56004_26_25-974

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- Special conditions for safe use
- Ambient temperature range: 0°C; +40°C
 - The machine can operate only with the inertization system active

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Essential Health and Safety Requirements
Met by harmonized standard

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Documents and technical datasheets:

Title	Object	Revision	Date
Technical file	Technical File	00	13/04/2026
D4250006_01M02_000_ITA	Manual	1.0	31/03/2026

The above-mentioned documents are strictly confidential, and they are of only use by authorities.
A copy of the documents is saved by A.C.&E. Iberia S.L.

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Unit Verification Certificate History

Number of certificate	Rev.	Comments	Date
ACE26ATEX008X	00	First Issue	22/04/2026

Date: 22/04/2026



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