

**CERTIFICATE**  
**EU Type – Examination**

According to Directive 2014/33/EU, (Module B, annex IV)

**Certificate No: LF/A-C-17653/18**

Identification No of the Certification Body: **CE MIRTEC 0437**

Name & address of the certificate holder and the manufacturer:

**KÖHLER ELEVATOR GmbH.**  
Benzstrasse 5, 72793 Pfullingen, Germany

Address of manufacturing facilities:

Jinlong Rd, Jinlong Industrial Zone, Qingxi,  
Dong Guan, Guang Dong, China. (factory)

Date of application for examination:

**24/07/2018**

Category & Type of Lift:

**MACHINE ROOMLESS PASSENGER LIFT/  
SYMPHONY COMFORT MRL /  
(TRACTION RATIO 2:1)**

Field of extension-Variations:

**Annex I**

EU Directive, Norms:

**2014/33/EU, annex I  
EN81-20:2014  
EN81-50:2014**

Time of the examination:

**June- August 2017 and July 2018**

Inspection & testing body:

**MIRTEC S.A.  
A' INDUSTRIAL AREA OF VOLOS,  
38 500 VOLOS, GREECE**

No & date of examination report:

**LF/A-R-17653/18 27/07/2018.**

Submitted documents:

**Technical File of Lift type**

Additional information:

The notified Body MIRTEC SA must be informed for any changes on the safety components, basic parts, drawings and montage, installation procedures.

[Result of the examination - Declaration](#)

**We declare that the product type mentioned and described in Annex I is in conformity with the essential safety requirements of directive 2014/33/EU. Only the products mentioned in the report have been inspected.**

Issued in Athens on:

**01/08/2018**

For the Notified Body

**L. DIMITRIADIS**  
Director of Athens Office

EBETAM A.E  
CERT-lifts / EN05 (5.0 /25.8.16)  
AET: 30781 /



For the assessment

**C. SPILIOPOULOS**  
Inspector of Lifts

## ANNEXI

(Part of the Certificate No: LF/A-C-17653/18)

### A.) FIELD OF APPLICATIONS -TYPE VARIATIONS

		General Data							
Rated load (kg)		300 - 885							
		300-345	375-410	450-500	525-545	600-630	675-685	750-820	825-885
No. of Persons	4	X							
	5		X						
	6			X					
	7				X				
	8					X			
	9						X		
	10							X	
	11								X
Rated load (kg)		900-1430							
		900-955	975-1025	1050-1090	1125-1160	1200-1250	1275-1295	1350-1365	1425-1430
No. of Persons	12	X							
	13		X						
	14			X					
	15				X				
	16					X			
	17						X		
	18							X	
	19								X
Rated load (kg)		1500-2050							
		1500-1565	1600-1635	1650-1720	1725-1795	1800-1870	1875-1945	1975-2000	2050
No. of Persons	20	X							
	21		X						
	22			X					
	23				X				
	24					X			
	25						X		
	26							X	
	27								X

X: available

Rated speed (m/s)	0.5-1.0 - 1.5 - 1.6 - 1.75 - 2.0 - 2.5
Max. levels/stops	45 / 45
Max.travel height (m)	120
Permissible total system mass(kg)	1420 -8675
Car weight(kg)	500- 2800
Counterweight balance	0.4 - 0.5
Distance between brackets (m)	2.5(Max.)

### Description Lift Layout

- The lift is a machine roomless passenger lift with side or rear counterweight. The rated load is from 300 kg to 2050 kg.
- There are seven different rated speeds such as 0.5m/s,1.0m/s, 1.50m/s, 1.60m/s,1.75m/s, 2.0m/s and 2.5m/s for the max travel height 120 meters.
- The gearless traction machine is located on the side of well and mounted on the steel structure support or steel beam.
- The gearless traction machine equipped with electromagnet brakes. The traction brake with manual or/and electrical release devices for the emergency conditions.
- Overspeed governor is located on the top of the well and mounted on the steel structure support or steel beam.
- Overspeed governor rope diameter is 6 / 8 mm, type 66×19S+SF / 8 8×19S+SF. The overspeed governor can be triggered by remote control from the control cabinet. The mechanical parts of the overspeed governor will be reset automatically by moving the car upward in recall mode after activation.
- The car is centre guided and centre suspended at the bottom of car. The safety gear can be located at the bottom or top side of the car.
- The buffers can be equipped with the hydraulic buffer or polyurethane buffer (rated speed ≤1.0m/s).
- The landing door can be equipped with the centre or side opening and door width can be 600mm to 2200mm.

## B.) SAFETY COMPONENTS

Safety gear/Type	Manufacturer Name	EU Certificate No.	Notified Body	
QJB2500	Hangzhou Huning Elevator Parts Co.,Ltd.	EU-SG 950	TÜV SÜD 0036	
HN2500B		EU-SG 1016		
HN2500C		EU-SG 934		
HN7000		EU-SG 933		
HN7000A		EU-SG 990		
HX2800	Ningbo Beilun HaixinMachineryCo.,Ltd.	LF/KSA/A-C-0075/16	MIRTEC 0437	
HX2800A		LF/KSA/A-C-0076/16		
AQQ125-01	NBSL Elevator Components Co.,Ltd.	EU-SG 1019	TÜV SÜD 0036	
AQ11B	Hebei Dongfang Fuda Machinery Co.,Ltd.	EU-SG 888		
AQ11C		EU-SG 889		
AQ11D		EU-SG 890		
AQ32KA		EU-SG 885/1		
AQ32KB		EU-SG 886/1		
AQ32KC		EU-SG 887/1		
AQ32KD		BSI-LP-610844		BSI 0086
AQ32KE		BSI-LP-610846		
AQ10				772/HT/19.04.2017
AQ11A			773/HT/26.04.2017	
AK01	Langfang Jiulian Machinery Limited Company	EU-SG 817	TÜV SÜD 0036	

Overspeed governor/Type	Manufacturer Name	EU Certificate No.	Notified Body
XSQ115-13	NBSL Elevator Components Co.,Ltd.	EU-OG 276	TÜV SÜD 0036
XS9D	Hebei Dongfang Fuda Machinery Co.,Ltd.	BSI-LG-616511	BSI 0086
WXS		BSI-LG-616507	

Ascending car overspeed protection means /Type	Manufacturer Name	EU Certificate No.	Notified Body
ZTW360-2×310	Nidec Motor Corporation/ Kinetek Desheng Motor Co., Ltd.	NL 13-400-1002-179-04	LIFTINSTITUUT 0400
ZTW445-2×500		NL 13-400-1002-179-19	
ZTW445-2×600		NL 13-400-1002-179-05	
ZTW495-2×925		NL 13-400-1002-179-06	
ZTW500-2×1050		NL 13-400-1002-179-20	
ZTW500-2×1400		NL 13-400-1002-179-07	
ZTW595-2×850		NL 13-400-1002-179-21	

DB1-200-310		NL 13-400-1002-179-10	
DB1-300-360		NL 13-400-1002-179-11	
DB1-360-320		NL 16-400-1002-179-30	
DB1-445-530		NL 16-400-1002-179-31	
DB1-495-840		NL 16-400-1002-179-32	
DB1-495-920		NL 16-400-1002-179-33	
DB1-500-445		NL 13-400-1002-179-24	
DB1-600-447		NL 13-400-1002-179-12	
DB1-750-495		NL 13-400-1002-179-13	
DB3-2×650		NL 16-400-1002-179-27	
DB3-2×900		NL 16-400-1002-179-28	
DB3-2×1400		NL 16-400-1002-179-29	
ZTW		LF/KSA/A-C-0125/17	MIRTEC 0437
ZLZ-02	NBSL Elevator Components Co.,Ltd.	EU-BD 958	TÜV SÜD 0036
ZLZ-05		EU-BD 959	
ZLZ-08		EU-BD 943	
DZE-14E	Suzhou Torin Drive Equipment Co., Ltd.	EU-BD 901	
DZE-16E		EU-BD 966	
FZD10		EU-BD 846	
FZD12		EU-BD 864	
FZD12A		EU-BD 991	
PZ300B		EU-BD 847	
PZ300C		EU-BD 877	
PZ1600B		EU-BD 939	
PZD140		EU-BD 968	
PZD220		EU-BD 878	
PZD220A		EU-BD 967	
SPZ300		EU-BD 893	
SPZ800		EU-BD 898	
SPZ800B		EU-BD 965	
SPZ1600		EU-BD 866	
FZD12C		EU-BD 1032	
FZD14		EU-BD 1033	
BLS	Shenyang Bluelight Drive Technology Co.,Ltd.	EU-BD 1023	
BLB		EU-BD 936	
DZD1-653	Zhejiang XiziForvorda Machinery Co., Ltd.	EU-BD 931	
DZD1-500		EU-BD 1025	
ZZD1-550		EU-BD 1024	

ZZD1-2000		EU-BD 1026	
DB	Ningbo Xinda Elevator Accessories Co.,Ltd.	SCMB.0061	EUROCERT 1128
GZD-3 (2×400Nm)	HePu Power Co., Ltd.	SCMB.0089	
GZD-3 (2×1300Nm)		SCMB.0089	
SC 300	ThyssenKrupp Aufzugswerke GmbH	EU-BD 700	
ERS VAR09 Größe: SZ200/____, SZ800/____, SZ1700/____,	WARNER Electric Europe	EU-BD 591	
BFK466-80 BFK466-85	INTORQ GmbH & Co.KG	EU-BD 756	
RSR/8010.____, Größe 200, 400, 600, 800, 1000, 1500	Chr. Mayr GmbH & Co.KG	EU-BD 766	
RSO 1300/896.30_3 SO		EU-BD 783	

Buffer / Type	Manufacturer Name	EU Certificate No.	Notified Body
HYF80B	Hangzhou Huning Elevator Parts Co.,Ltd.	EU-B 061	TÜV SÜD 0036
HYF175A		EU-B 062	
HYF210C		EU-B 063	
HYF210C1		EU-B 067	
HYF275E		EU-B 068	
HYF425E		EU-B 069	
YH4/270	Hebei Dongfang Fuda Machinery Co., Ltd.	BSI-LB-616498	BSI 0086
YH13/230		BSI-LB-616506	
YH51/80		BSI-LB-516942	
YH52/175		BSI-LB-516943	
YH53/220		BSI-LB-516945	
YH54/280		BSI-LB-516946	
YH55/435		BSI-LB-516947	
YH45/70		BSI-LB-574515	
YH46/155		BSI-LB-574516	
YH47/207		BSI-LB-574517	
YH48/270		BSI-LB-574518	
YH49/425		BSI-LB-574519	
YH72B/175		BSI-LB-622214	
YH73A/210		BSI-LB-622218	
YH74A/275	BSI-LB-622221		

YH75A/435		BSI-LB-622222	
YH66B/80		BSI-LB-645564	
YH67B/175		BSI-LB-645566	
YH68B/210		BSI-LB-645568	
YH69B/275		BSI-LB-645569	
YH70B/435		BSI-LB-645570	
YH71A/80		BSI-LB-662319	
LD-CE-01 (HC-A-L01)	Shanghai Green Shield Plastic & Rubber Co.Ltd.	LF/KSA/A-C-0140/17	MIRTEC 0437
LD-CE-03		LF/KSA/A-C-0142/17	
LD-CE-04		LF/KSA/A-C-0143/17	
LD-HC-L12		LF/KSA/A-C-0141/17	
HY155D	Langfang Jiulian Machinery Limited Company.	EU-B 059	TÜV SÜD 0036
HY208D		EU-B 060	

Locking device / Type	Manufacturer Name	EU Certificate No.	Notified Body
Hydra 02/C	WITTUR Holding GmbH	TÜV-A-AT-1-05-130-FKTV-3	TÜV AUSTRIA 0408
Hydra 12/R-L		TÜV-A-AT-1-05-131-FKTV-3	
FEL-161A	Flying Technology Co.,Ltd.	LF/KSA/A-C-0106/17	MIRTEC 0437
FED-0702		LF/KSA/A-C-0111/17	
IL-32161	Ningbo Ouling Elevator Components Co.,Ltd.	LF/KSA/A-C-0093/16	MIRTEC 0437
IL-32161-1		LF/KSA/A-C-0093/16	
50/11	Shanghai BST Door system Co.,Ltd.	SCMB.0066	EUROCERT 1128
210/10/40		SCMB.0053	
KEG-161A	KÖHLER Elevator GmbH	SCMB.0118 rev.01	EUROCERT 1128

UCMP Components List			
UCMP Brake device / Type	Manufacturer Name	EU Certificate No.	Notified Body
ZTW360-2×310	Nidec Motor Corporation/ Kinetek Desheng Motor Co., Ltd.	NL 13-400-1002-179-04	LIFTINSTITUUT 0400
ZTW445-2×500		NL 13-400-1002-179-19	
ZTW445-2×600		NL 13-400-1002-179-05	
ZTW495-2×925		NL 13-400-1002-179-06	
ZTW500-2×1050		NL 13-400-1002-179-20	
ZTW500-2×1400		NL 13-400-1002-179-07	
ZTW595-2×850		NL 13-400-1002-179-21	
DB1-200-310		NL 13-400-1002-179-10	
DB1-300-360		NL 13-400-1002-179-11	
DB1-360-320		NL 16-400-1002-179-30	

DB1-445-530		NL 16-400-1002-179-31	
DB1-495-840		NL 16-400-1002-179-32	
DB1-495-920		NL 16-400-1002-179-33	
DB1-500-445		NL 13-400-1002-179-24	
DB1-600-447		NL 13-400-1002-179-12	
DB1-750-495		NL 13-400-1002-179-13	
DB3-2x650		NL 16-400-1002-179-27	
DB3-2x900		NL 16-400-1002-179-28	
DB3-2x1400		NL 16-400-1002-179-29	
ZTW		LF/KSA/A-C-0125/17	MIRTEC 0437
ZLZ-02	NBSL Elevator Components Co.,Ltd.	EU-BD 958	TÜV SÜD 0036
ZLZ-05		EU-BD 959	
ZLZ-08		EU-BD 943	
DZE-14E	Suzhou Torin Drive Equipment Co., Ltd.	EU-BD 901	TÜV SÜD 0036
DZE-16E		EU-BD 966	
FZD10		EU-BD 846	
FZD12		EU-BD 864	
FZD12A		EU-BD 991	
PZ300B		EU-BD 847	
PZ300C		EU-BD 877	
PZ1600B		EU-BD 939	
PZD140		EU-BD 968	
PZD220		EU-BD 878	
PZD220A		EU-BD 967	
SPZ300		EU-BD 893	
SPZ800		EU-BD 898	
SPZ800B		EU-BD 965	
SPZ1600		EU-BD 866	
FZD12C		EU-BD 1032	
FZD14		EU-BD 1033	
BLS	Shenyang Bluelight Drive Technology Co., Ltd.	EU-BD 1023	
BLB		EU-BD 936	
DZD1-653	Zhejiang XiziForvorda Machinery Co.,Ltd.	EU-BD 931	
DZD1-500		EU-BD 1025	
ZZD1-550		EU-BD 1024	
ZZD1-2000		EU-BD 1026	
DB(1775N.m)	Ningbo Xinda Elevator AccessoriesCo.,Ltd.	SCMB.0071	EUROCERT 1128
DB(2038N.m)		SCMB.0069	



DB(3487.5N.m)		SCMB.0072	
GZD-3 (2×400Nm)	HePu Power Co., Ltd.	SCMB.0090	
GZD-3 (2×600Nm)		SCMB.0090	
SC 300	ThyssenKrupp Aufzugswerke GmbH	EU-BD 700	
ERS VAR09 Größe: SZ200/____, SZ800/____, SZ1700/____,	WARNER Electric Europe	EU-BD 591	TÜV SÜD 0036
BFK466-80 BFK466-85	INTORQ GmbH & Co.KG	EU-BD 756	
RSR/8010._____ Größe 200, 400, 600, 800, 1000, 1500	Chr. Mayr GmbH & Co.KG	EU-BD 766	
RSO 1300/896.30_3 SO		EU-BD 783	
<b>UCMP Detection device / Type</b>	<b>Manufacturer Name</b>	<b>EU Certificate No.</b>	<b>Notified Body</b>
MCTC-SCB-D	Suzhou Inovance Technology Co., Ltd.	0I170517.SITUQ33	ECM 1282
UCMP-PCB-3	MUELLER&MICO Elevator Technology Co.,Ltd.	F-0214/2017	TÜV SÜD 1417
<b>Self-monitoring device / Type</b>	<b>Manufacturer Name</b>	<b>EU Certificate No.</b>	<b>Notified Body</b>
MCTC-MCB-C2	Suzhou Inovance Technology Co., Ltd.	LF/KSA/A-C-0146/17	MIRTEC 0437

### C.) BASIC SUBSYSTEMS

#### LIST OF BASIC SUBSYSTEMS AND MATERIALS

Description	Manufacturer name /product type
1. Wire ropes	Wire rope diameter (mm) : 8, 10, 12, 13 Type: 8 8×19S+NF 8 8×19S+IWRC 10 8×19S+NF 10 8×19S+IWRC 12 8×19S+IWRC 12 8×19S+NF 13 8×19S+NF 13 8×19S+IWRC 13 8×25Fi+NF 13 9×21Fi+IWRC
2. Guides rail	Car guide rail type: T75-3/B; T89/B; T89/BE; T90/B; T114/B; T127-1/B; T127-2/B; T127-1/BE; T127-2/BE. Counter weight guide rail type: TK5A; T75-3/B; T89/B; T90/B; T114/B.
3. Drive mechanism– (Corresponding brake type)	Zhejiang Xizi Forvorda Electrical Machinery Co.,Ltd. Types: GETM3.0D (ZZD1-550) Types: GETM3.5D (ZZD1-550) Types: GETM3.0H (DZD1-500) Types: GETM3.5H (DZD1-500) Types: GETM5.0D (ZZD1-2000) Types: GETM5.5 (DZD1-653) Types: GETM6.0H (DZD1-653) Types: GETM6.3D(≤2000kg) (ZZD1-2000) Nidec Motor Corporation/ Kinetek Desheng Motor Co., Ltd. Types: WTY1 (ZTW360-2×310, ZTW445-2×500, ZTW445-2×600, ZTW495-2×925, ZTW500-2×1050, ZTW500-2×1400, ZTW) Types: WT (ZTW495-2×925, ZTW500-2×1050, ZTW500-2×1400, ZTW595-2×850) Types: WJ (DB1-200-310, DB1-300-360, DB1-500-445, DB1-600-447, DB1-750-495) Types: WJ(C) (DB1-360-320, DB1-445-530, DB1-495-840, DB1-495-920) Types: WR (DB3-2×650, DB3-2×900, DB3-2×1400) NBSL Elevator Components Co., Ltd. Types:WYJ103-02 (ZLZ-02) Types:WYJ103-05 (ZLZ-05) Types:WYJ103-08 (ZLZ-08) Ningbo Xinda Elevator Accessories Co.,Ltd. Types:DIANA (DB) Types:MINI.2 (DB) Types:MINI.3 (DB) Types:MINI.4 (DB) Types:MINI.5 (DB)

	<p>Suzhou Torin Drive Equipment Co., Ltd. Types:ER1 (SPZ300) Types:ER2 (SPZ800) Types:ER2D (PZ1600B) Types:ER3 (SPZ800, SPZ800B) Types:ER3D (PZ1600B) Types:ER6D (SPZ1600) Types:ERS (PZ300B, PZ300C) Types:GTS (DZE-14E, DZE-16E) Types:GTW10 (FZD14) Types:GTW10M (FZD12C) Types:GTW2 (DZE-14E) Types:GTW3 (PZD140) Types:GTW5 (PZD220) Types:GTW5A (PZD220A) Types:GTW7 (FZD10) Types:GTW8 (FZD12) Types:GTW9 (FZD12A) Types:GTW9S (FZD12A) Types:VM (SPZ800)</p> <p>Shenyang Bluelight Drive Technology Co., Ltd. Types:WYT-L (BLS) Types: WYT-T (BLB) Types: WYT-TAM (BLB) Types: WYT-U (BLB)</p> <p>HePu Power Co., Ltd. Types:WTD2-P (GZD-3)</p> <p>ThyssenKrupp Aufzugswerke GmbH Types: DAF270M (ERS VAR09 SZ1700/2x1250) (RSR/8010.1500) (RSO 1300/896.30_3 SO/2x2200) Types: DAF270L(ERS VAR09 SZ1700/2x1250) (RSR/8010.1500) (RSO 1300/896.30_3 SO/2x2200) Types: SC300 (SC 300) Types: SC400 (BFK466-80) (BFK466-85)</p>
<p>4. Well doors (Landing doors)</p>	<p>a) Centre opening doorstype:L0 (T280-01) Landing door width 600 mm to1300mm Door openingheight:≤2600mm</p> <p>b) Centre opening doorstype:L0 (T280-ZP02) Landing door width 600 mm to1300mm Door openingheight:≤2600mm</p> <p>c) Side opening doorstype:L11 Landing door width 600 mm to1300mm Door openingheight:≤2800mm</p> <p>d) Side opening doorstype:L11 Landing door width 1300 mm to1800mm Door openingheight:≤2800mm</p> <p>e) Fourpanel centre opening doorstype:L21 Landing door width 1200 mm to 2600mm Door openingheight:≤2800mm</p>

5. Electrical panel (Control cabinet)	Type: CTRL90 / CTRL90FL / CTRL80 / CTRL70 / CTRL70A Input Voltage: 380/415/440/480 V AC; Frequency: 50/60 Hz; Max. Rated Current: 150 A; Max. Power: 75 kW Provide with locks to be opened with a key.
6. Electrical materials	Control unit contain main switch, lighting control switches, inverter, transformer, contractors, relay, emergency and test operations device, emergency power supply, alarm device, UCM self-monitoring device and UCM detection device. Some other optional parts of the control system are located inside the well.
7. Cabin  Cabin doors	Type :Type changed due to the decoration requirements  Type : Centre opening door(2 panels / 4 panels/ 6 panels); Side opening door (2 panels / 3 panels)
8. Frame cabin	Type : Overslung, the guide pulley is installed on car top; Underlying, the guide pulley is installed on car bottom.

Certifications Department of MIRTEC SA

C. Spiliotopoulos  
Inspector of Lifts

