



# BATTERSEA

  3x ISO 4762-M16-10.9  
**300Nm**  
02016912

GLE CASE STUDY | 2020

# Battersea Power Station

LONDON, UK





# The Battersea Power Station

As part of our supplies to Schindler UK, we were requested to provide another special lift in the Battersea Power Station complex. Before we have already supplied some other units, most of them scenic lifts, but on this occasion the challenge was very difficult: A traction lift with a Norm Exception which had to be for a 4900 Kg in a car of 4200X7300 mm.

We provided a solution which beat other options, where we designed a traction lift for the duty load but with the strength and components of a 9 Tons.





We worked from the beginning with the Notified Body AENOR which tested the lift under commissioning and issued the certificate for leaving the lift in service. To be able to certify this installation, as a risk analysis, we provided a solution that includes a safety gear for  $Q=10530\text{kg}$ , but the rest of the lift (counterweight, machine, bedplate, diverter sheaves and control correspond to  $Q=4900\text{kg}$ . The safety gear can be activated by the OSG's A3 coil, in case the lift was to be full at floor level. For example, if the lift is loaded with  $7000\text{kg}$ , the PSCM fails and the motor starts working, there may be a moment when sliding occurs, which will mean that the car will descend, increasing its nominal speed until the OSG activates the safety gear.



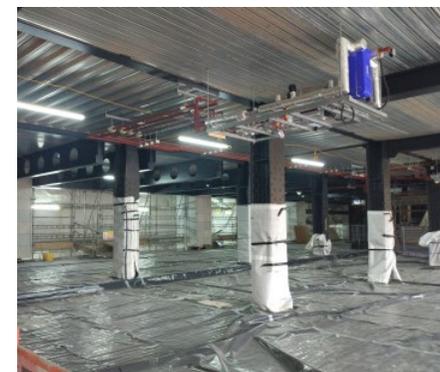
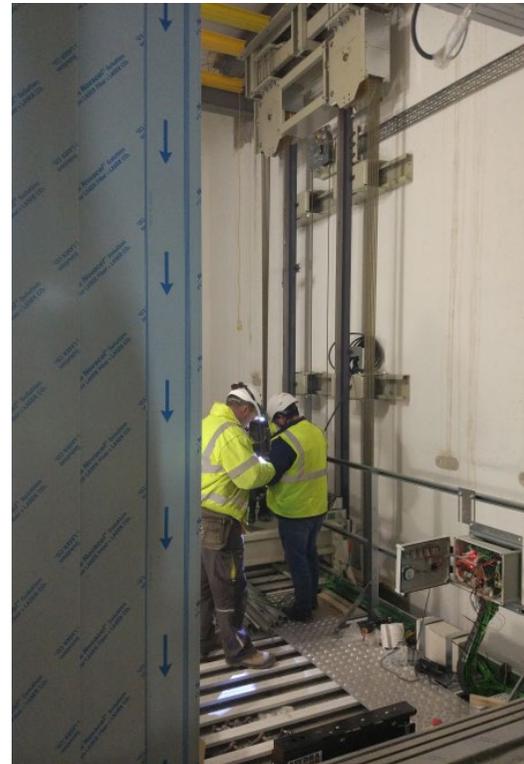
- Duty load 4900 Kg (Area for 10530 Kg)
- Speed 0,5 m/s
- 8 Stops
- Travel 28 m
- Doors 2700x2500 mm
- Double entrance 180°





The lift was carefully designed, produced and installed in less than one year. Our team went to site to help in the commissioning and final adjustment on February 2020.

The lift was also used for beneficial use during the rest of the works of the building.





# TECHNICAL DATA

<b>ROPING RATIO</b>	4:1
<b>LOAD CAPACITY</b>	4900 KG
<b>TRAVEL DISTANCE</b>	27775 mm
<b>NUMBER OF STOPS</b>	8/9
<b>SPEED</b>	0.5 M/S
<b>LIFT CAR</b>	XL SERIES
DIMENSIONS	2765X6450X2500 MM
PANELS	REINFORCED STEEL
COPS PUSHES	SCHINDLER TYPE
SAFETY EDGE	CEDES
<b>LIFT CAR FRAME</b>	BATT
ROPING RATIO	4:1
<b>MAIN CHARACTERISTICS</b>	P+Q 8500+4900
MAX SPEED	0.5 M/S
MAX PASSENGER LOAD	65 PERSONS
MAX DUTY LOAD	4900 KG
<b>CAR GUIDE RAILS</b>	
MAKER	SAVERA
TYPE	4XT140-1/B
<b>MACHINE</b>	
MAKER	ZIEHL ABEGG
MODEL	SM250.100C
POWER	29 kw
STARTING CURRENT (SS)	120
RUNNING CURRENT	65
<b>LANDING DOORS</b>	
TYPE	WITTUR
CLEAR OPENING	2700X2500
TRACKS	5615X3000 MM
MAKER	REINFORCED STEEL



**LIFT CAR DOORS**

TYPE	BOLTON
CLEAR OPENING	2700X2500 MM
TRACKS	5615X3000 MM
MAKER	REINFORCED STEEL

**SAFETY GEAR**

MAKER	COBIANCHI PC100D-4 GUIDE RAILS INSTALLATION
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**BUFFERS**

MODEL	ACLA
NUMBER	300.402
MAX.STRENGTH	4
YES	20 KN

**PAWL DEVICE**

NO  
 DIMENSIONED FOR NOT USING IT  
 AVOIDING OVERLOADING PROBLEMS

**VOLTAGE**

415 VAC 50HZ  
 220 VAC 50HZ

**SHAFT LIGHTING VOLTAGE**

YES

**CONTROL SYSTEM**

MAKER	ALTAMIRA
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**APPLICABLE STANDARDS**

EN81-20  
 EN81-28  
 EN81-73





[nfo@gle.com.es](mailto:nfo@gle.com.es) • [www.gle-lifts.com](http://www.gle-lifts.com)

UK Mobile: (+44) 07745742342

(+34) 942 354 214 • skype: glespain1

Calle Raos-Galera, 33. 39600 Maliano (Cantabria) SPAIN