Prefabricated Concrete Compact Substations



SPK

Switching Life to Infinity

aktif ELEKTROTEKNİK

SPK Series
Transformer and Distribution Kiosks

Prefabricated concrete transformer and distribution substations are manufactured up to 2500 kVA transformer power.

SPK series prefabricated concrete kiosks are manufactured in accordance with type tests from internationally accredited laboratories, IEC 62271-202 standard and TEDAŞ-MLZ/2000-052.A regulation.

SPK Series prefabricated concrete compact substations are 2 types;

- SPK-D Prefabricated Concrete Distribution Kiosks (MV)
- SPK-T Prefabricated Concrete Transformer Kiosk (MV-TR-LV)





Advantages

- Conformable design for every types of medium voltage switchgear
- Conformable design for every types of low voltage panels
- Special design suitable according to needs for doors and ventilation systems.
- Special solutions applications for special projects
- Long operating life and high strength with C45 concrete
- Easy transport and commissioning
- IP23D protection class
- Compact design
- Easy and safe operation

Application Areas

- Power Distribution and Transmission
- Power Generation
- Renewable Power
- Cement Plants
- Automotive Industry
- Iron and Steel Industry
- Rolling Mills
- Mining Plants

Service Conditions

- Ambient Temperature : -5 ... +50°C
- Ambiant Pollution : High
- Max. Solar Radiation : 1000 W/m2
- Earthquake strength : 0,5 g (horizontal and vertical)

Rated Values

- Ur : up to 40,5 kV
- Ir : up to 3150 A
- Ik : up to 40 kA
- Fr : 50/60 Hz
- IAC : AB
- IP class : IP23D
- CL : 10
- Compressive Strength Class : C45

Standards

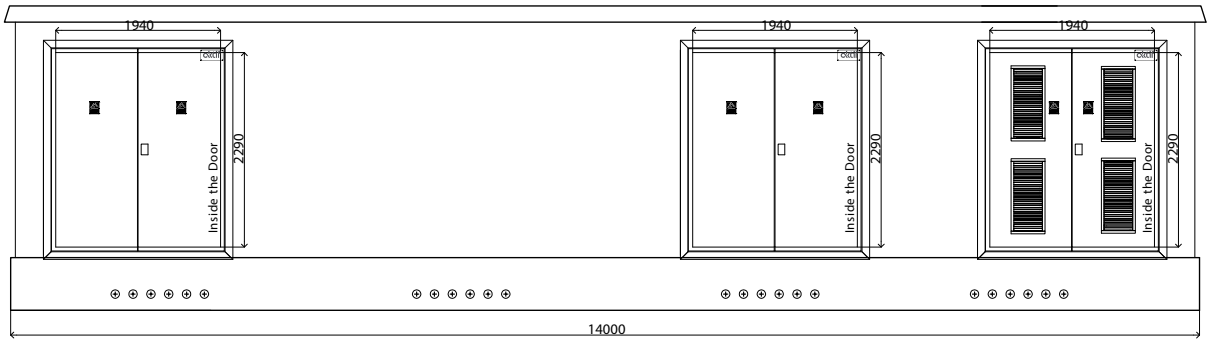
- IEC 62271-202
- IEC 62271-200
- IEC 60529
- IEC 60068-2-11
- IEC 60076-1
- IEC 61439-1

Dimensions

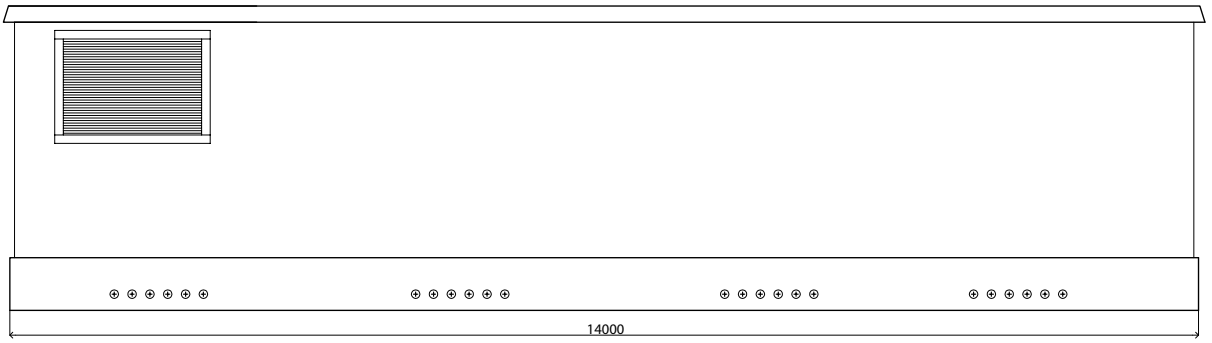
SPK Kiosks are statically calculated up to 30.000 mm. (Minimum length of a medium voltage switchgear room is 4000 mm and grows with 2000 mm intervals according to TEDAS- MLZ/2006-052.A)

SPK Series Model	Outside Dimensions (mm)		Inside Dimensions (mm)		
	Length	Depth	Length	Depth	Height
PB5	Requested from customer	4090	Requested from customer	3800	3655
PB6	Requested from customer	< 5290	Requested from customer	< 5000	3655

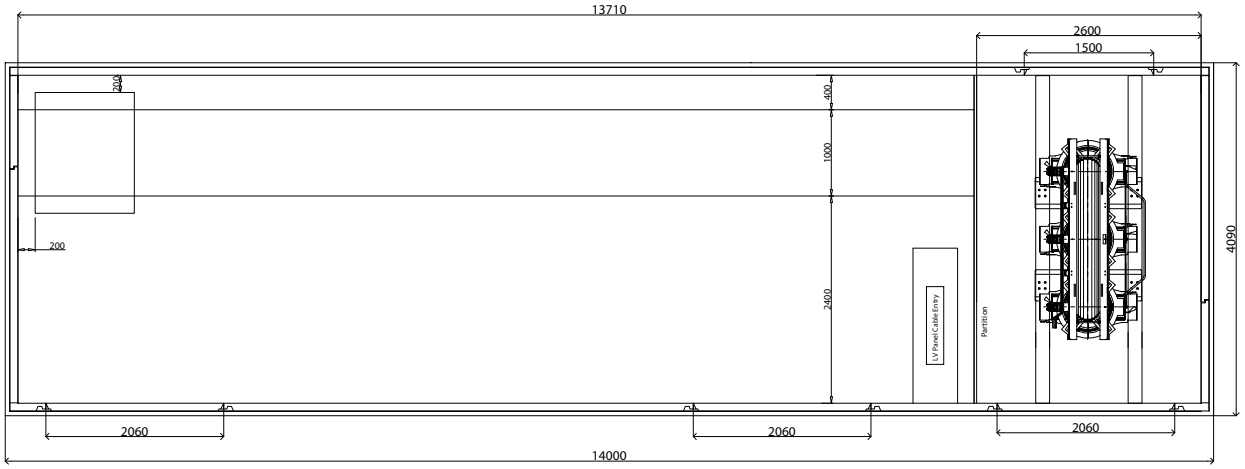
Example for PB5 Design



Front view



Rear view



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