



Ingeniería en Capacitores  
**LEYDEN**



ISO 9001:2000  
Firma Registrada  
Nº A11858

## HIGH VOLTAGE SHUNT CAPACITOR BANKS

**Owner:** Transener S.A. (High-voltage power transmission company)

**Location:** Bahía Blanca Substation (Buenos Aires – Argentina)



**Description:** Two 50MVar – 132kV – 50Hz shunt capacitor banks in bridge connection, including inrush current limiting air-core reactors, unbalance protection, control and protection relay panels.

**Date installed:** September 2005





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↑ Detailed views of capacitor bank:  
1- During mounting  
2: Finished capacitor assembly

← View of line CTs.





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**Owner:** Transener S.A. (High-voltage power transmission company)

**Location:** Paso de la Patria Substation – (Corrientes – Argentina)



**Description:** Two 30MVar – 138kV – 50Hz shunt capacitor banks in double-wye connection, including inrush current limiting air-core reactors, unbalance protection, control and protection relay panels.

**Date installed:** December 2005. (**Note:** This facility was later expanded by Leyden to 45MVar, under a separate contract)







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**Owner:** Transener S.A. - **Location:** Resistencia Substation (Chaco – Argentina)



**Description:** Four 27.5MVAR – 145kV – 50Hz shunt capacitor banks in double-wye connection, including inrush current limiting air-core reactors, unbalance protection, control and protection relay panels.

**Date installed:** December 2005. (Note: This facility was later expanded by Leyden to 41.25MVAR, under a separate contract)





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**Owner:** Transener S.A. (High-voltage power transmission company)

**Location:** Romang Substation (Santa Fe – Argentina)



**Description:** Three 15MVAR – 132kV – 50Hz shunt capacitor banks in double-wye connection, including inrush current limiting air-core reactors, unbalance protection, control and protection relay panels.

**Date installed:** July 2006





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**Owner:** Transener S.A. (High-voltage power transmission company)

**Location:** Santo Tomé Substation (Santa Fe – Argentina)



One 50MVAR – 132kV – 50Hz shunt capacitor bank in double-wye connection, including inrush current limiting air-core reactors, unbalance protection, protection relay panels.

**Date installed:** July 2006

**Owner:** TMR (railway operator)

**Location:** Temperley (Buenos Aires– Argentina)



**Description:** One capacitor bank, 800kVAR - 55kV – 50Hz in bridge connection, with unbalance protection

**Date installed:** 1996

**Owner:** ESCELSA (power distribution company)

**Location:** Espirito Santo – Brazil



**Description:** One capacitor bank, 31.6MVAR - 132kV- 60Hz, in star-connection with grounded neutral, including unbalance CT.

**Date installed:** 1996