

# REFERENCES INDUSTRIAL AUTOMATION STEEL INDUSTRY

# Steel Industry | Ontario - Canada



Industrial Sector: Steel Industry

**Application:** Cranes

**Products:** Sinus Penta

Connection date: 2009

Customer: Gerdau Ameristeel

**Key Notes:** The Santerno inverters allow the full control of the crane ensuring safe operation of it.

The result is smooth, 'Bump-Less' starts and stops and variable speed make positioning of steel ingots easier for the operator.







### **Steel Industry | Lima - Peru**



Industrial Sector: Steel Industry

**Application:** Fan

**Inverters:** Sinus Penta 45kW, 440VAC

Connection date: 2008

Customer: Siderperu, Empresa Siderurgica

del Peru S.A.A. (Grupo Gerdau)

**Key Notes:** SIDERPERU is the steel manufacturer's most

biggest and prestigious in Peru.







#### Steel Industry | Soacha - Colombia



Industrial Sector: Steel Industry

**Application:** Cranes

**Inverters:** Sinus M 7.5HP y 2HP, High Torque

Type: Drive + RGN

Connection date: 2009

**Customer:** SAC Estructura Metalicas S.A.

**Key Notes:** Engineering sector industry leader in the construction of metal structures for roofing.

Up to 4 drives to control the motion in master-slave,1
regenerative drive: when the load goes down the
inverter feeds the grid with the energy which will be
dissipated on clamps or break resistors





#### Metal Structures Industry | Callao - Peru



Industrial Sector: Steel Industry

**Application:** Crane

Products: Sinus M

Connection date: 2010

**Customer:** Esmetal S.A.C.

#### **Key Notes:**

Esmetal is the biggest manufacturer of metal structures in Peru.

They work in the mining sector, energy, refinery, infrastructure, trade and industry in general. They are specialized in manufacturing process and storage buildings for mining, on & off shore structures to liquefaction plant and oil refinery, power plants buildings, structures for springs, beam bridges, tanks and boilers.







# Steel Industry | Arequipa - Peru



Industrial Sector: Steel Industry

**Application:** Cranes

Products: Sinus M

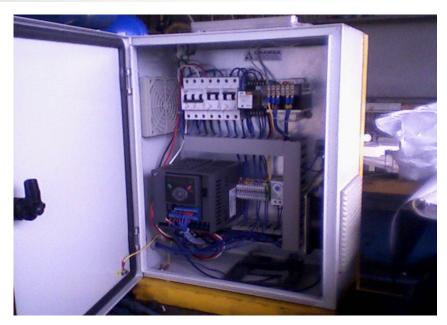
Connection date: 2007

**Customer:** Corporación Aceros Arequipa S.A.

**Key Notes:** Steel producers







#### Casting | Callao - Peru



Industrial Sector: Steel Casting

**Application:** Regenerative Crane

Inverters: Sinus Penta

Type: Drive + RGN

Connection date: 2008

**Customer:** Fundicion Callao S.A.

#### **Key Notes:**

Fundicion Callao is a foundry with more than 60 years of experience serving the mining, cement, agricultural and minerals processing industry. Our company provides castings as spare parts for all types of machinery, having specialized in the mining and cement industry.

 The SINUS M drives feature the Regenerative function and Fall prevention of connected load. This allows operating under totally safe conditions.





#### Magnetic Lifting | Brescia - Italy



Industrial Sector: Steel Industry

**Application:** Magnetization and demagnetization

electromagnets

**Products:** Sinus Penta from 5,5 kw to 75kw

AC-DC converters DCREG4

Connection date: 2007

Customer: SGM Gantry SpA

#### **Key Notes:**

SGM has continuously been developing its magnetic equipment technology by closely working with and being highly sensitive to the needs of steel mills all over the world.

This close relationship with the steel industry has permitted SGM to become a leader in lifting magnets and magnetic separation equipment.

 Steel bridge cranes with lifting electromagnets equipped with AC-DC mod. DCREG





### **Lifting and Transport Systems | Verona - Italy**



**Industrial Sector: Steel Industry** 

**Applications:** Cranes

**Products:** Sinus Penta from 15 kw to 315 kw

Connection date: 2008

Costumer: CPM Milano

**Key Notes:** CPM is an engineering company specialised in the lifting and transport systems sector. Is one of the big italian company for industrial cranes.









# www.santerno.com