



KRB EQUIPMENT

PROJECT STORY .05



KRB equipment was used by Odebrecht to cut and bend the massive steel requirements for the Orinoco River Bridge.

Odebrecht selects KRB to Reinforce Transportation

Odebrecht Construction has selected KRB Machinery for many demanding projects, including the Orinoco River Bridge built across the Orinoco River in Ciudad Guayana, Venezuela. The bridge is making a decisive contribution to Venezuela's socioeconomic integration. It was the result of five years of work, during which Odebrecht teams designed and implemented a complex system of logistics, using state-of-the-art technology and dealing with the erratic currents and swells of one of the world's mightiest rivers.

During construction, it was considered the biggest infrastructure project underway in Latin America: a 3,156-m road/rail bridge with two navigation channels and 166 kilometers of associated roadways.

Odebrecht transferred technology to Venezuela through consultants, specialists and technicians who worked side by side with local professionals. By bequeathing a legacy of knowledge, the execution of the Orinoquia Bridge project has also made a valuable contribution to Venezuelan engineering. Omar Terán, Chairman of the Bolívar State Chamber of Construction, observes: "This is a project we can proudly show the world. And now we, too, know how to build it," explains Nelson Rondón, Chairman of the Venezuela College of Engineers.



KRB
1058 Cool Creek Road
Wrightsville, PA 17368
Phone: 717-252-3667
Fax: 717-252-9247
info@krbmachinery.com



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Construction of the foundations was a very difficult logistical challenge, considering that 90% of the foundations are under water half of the year; the task was also complicated by the huge variation in water level. Odebrecht involved a lot of aquatic equipment and specialized personnel in order to meet the time schedule.

The deck is designed as a composite section with a steel box 6m by 5.5m in the centre, to support the ballasted rail track. At both sides are cantilevers that carry the roadway; these are spaced at 3m centres.

A constant 250mm-thick reinforced concrete slab over the cantilevers is the basis for the roadway, while its thickness varies from 300mm to 360mm under the railway.

When tight deadlines are on the line you need equipment to perform without fail. That is one reason why Odebrecht selected KRB. KRB equipment is built tough to handle the demanding needs in the field. KRB equipment regularly performs for 20+ years inside and out.

If you would like to find out more about the best shearlines in the world and all of our rebar cutting, bending and material handling solutions, visit www.krbmachinery.com.



KRB Standard Shearline.