

# Meeting the demands of global events in Brazil

'Works when you do' success story



The major stadiums in Brazil have been designated as venues for the Rio Olympic games 2016. By providing GeoMax total stations, Embratop was able to help with the Maracanã Stadium renovations and Area Corinthians construction project in order for both stadiums to meet the demands of global events.

## Maracanã Stadium

Rio de Janeiro

To get Rio de Janeiro's Maracanã Stadium ready for the FIFA World Cup 2014, and also for the long-term goal of the 2016 Summer Olympics, extensive renovations took place between 2010-2013. The original structure, which was built for the 1950 FIFA World Cup, removed its two-tier seating arrangement and replaced it with a single tier. Also the original cement roof structure was removed and replaced with a tensile fabric roofing that extends over 95% of the seating, offering protection from sun and rain.

Our Brazilian partner, **Embratop**, did their part to help with the renovation of the Maracanã Stadium by providing the Consortium Maracanã Rio 2014, which consisted of the construction companies, Odebrecht Infrastructure and Andrade Gutierrez, the surveying equipment used during the stadium construction.

Due to the enormity and sophistication of the project, the **GeoMax Zoom30 total station**, known for its high level of accuracy and performance, was the right equipment for such a demanding project.

Partner company

**Embratop**

[www.embratop.com.br](http://www.embratop.com.br)

Operating since 1999, Embratop is one of the largest companies in leasing and commercialisation of geotechnology equipment in Brazil. Throughout the years, Embratop has participated in important construction projects including highways, railways, ports, airports, hydroelectric and nuclear power plants, as well as other large works in construction and mining.

### Challenge

To renovate and meet the requirements demanded of stadiums participating in the FIFA World Cup 2014.

### Objective

To improve stadiums' comfort, safety and visibility and increase seating capacity.

### Key tasks

Surveying tasks for the Maracanã renovation and construction on the Arena Corinthians

### Location

Rio de Janeiro and Sao Paulo, Brazil

**GeoMax product**  
[Zoom30 Total Station](#)

**GEOMAX**

[www.geomax-positioning.com](http://www.geomax-positioning.com)  
[info@geomax-positioning.com](mailto:info@geomax-positioning.com)

PART OF  
**HEXAGON**

After its renovation, the rebuilt stadium now seats just under 80,000 spectators, making it the largest stadium in Brazil and the second largest in South America. Today, Maracanã provides more comfort, safety and visibility to stadium spectators, and

Embratop and GeoMax equipment helped to achieved it.

Maracanã is set to be one of the 33 venues of the 2016 summer Olympic Games in Rio de Janeiro.



## Arena Corinthians

Sao Paulo, Brazil

In 2011, FIFA confirmed the new Arena Corinthians Stadium in São Paulo, Brazil, as the host of the opening match of the FIFA World Cup 2014. Because FIFA required World Cup opening matches to have a seating capacity of at least 65,000, temporary modifications had to be made.

**Embratop**, once again the partner for many major projects, provided the construction company Odebrecht, with the best surveying equipment for its modifications – the **GeoMax Zoom30 total station**.

Arena Corinthians, popularly known as Itaquerao is located in the Itaquera district, on the east side of São Paulo. With a capacity of 48,234 seats, it is the fifth largest stadium in Serie A of the Brazilian Soccer Championship and the 11th largest in Brazil. The modifications to the stadium brought the working class area an some 2,300 construction jobs and generated some 26,000 jobs in total during the construction period.

Arena Corinthians will also be one of the 33 venues used during the 2016 Rio Olympic Games.