



By Jordi Planell, Leica Spain

## Industrias Electromecánicas GH performs dimensional control of crane bridges with the portable Leica TDM5005 system



Leica TDM5005 with integrated DCP05 software

### *New Perspectives in Construction*

Industrias Electromecánicas GH, leading manufacturers of crane bridges with a wide range of products, are located in Beasain, north of Spain. The portable Leica TDM5005 measurement system is used for fast, large scale and high precision dimensional control.

### *Flexible by any measure...*

Geometric control of the crane is basically control of the distance between wheels and the alignment of axes. Due to the portability of the equipment it is no longer necessary to transport the crane or sections to a stationary CMM: The Leica system can be moved anywhere for dimensional control at any time. Another important aspect of the system measurement is to ensure the parallelism and verticality of the crane wheels.

Illustrations, descriptions and technical data are not binding and may be changed without notice.

Printed in Switzerland – Copyright by Leica AG, Heerbrugg, Switzerland, 2001

U1-200-0en – VII.2001



*Large Scale CMM for dimensional checks on distances and angles of crane parts and railbeds*

GH also does dimensional control with the Leica system during assembly of the crane at the customers premises.

### *...at truly large scale*

The system consists of a measurement sensor, the Leica TDM5005, and totally integrated control and analysis software, the DCP05. The precision sensor is capable down to 0.3mm(RMS)@ 30m range.

It is an optical system, measuring coordinates-angles and distances to object points. For each point measured 3D coordinates are determined, which are used to calculate distances and angles between elements.

### *World's 1st onboard SW*

The DCP05 software is integrated within the measurement sensor. Distances and angles between elements are calculated there immediately. The operator obtains both the measurement data and the results of the calculation at the same time. The data and results are stored on a memory card to be copied on to a PC for a report on each crane.

### *Precision in Perspective*

Thanks to the versatility of the Leica TDM5005 system, GH can use it

it for all dimensional control needs.

The system falls meets the GH quality policy. The Leica TDM5005 is the instrument to guarantee high geometric quality and important time and cost savings for crane assembly and measurement inspection.



Leica Geosystems AG  
Mönchmattweg 5  
CH-5035 Unterentfelden  
(Switzerland)

Phone +41 62 737 67 67  
Fax +41 62 723 07 34

[www.leica-geosystems.com](http://www.leica-geosystems.com)