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Electro-Voice® Steps Up to Bat at Revolución Stadium in Torreón City, Mexico

Torreón City, Mexico (September 29, 2003): The Vaqueros de la Laguna AAA Mexican League baseball team from Torreón City recently experienced a change in ownership that began the integral process of remodeling the team's home field, Revolución Stadium. Instrumental in the project development and remodeling of the stadium's audio system were Mexican Electro-Voice® Distributors Distribuidora Gonher S.A. de C.V. and Audio y Sonido S.A. de C.V. After much discussion of the stadium's needs – which included visits to several similar facilities and sound systems in Mexico and abroad – the choice was clear, the Revolución would benefit most from the problem-solution products brought to market by Electro-Voice. Enter EV® FRi and SX series loudspeakers.



A total of (12) FRi-152 loudspeakers were installed in the coliseum's overhang for the mid-rows and (20) Sx100+ loudspeakers for the high bleachers and V.I.P. boxes. The system used for the mid-rows was installed as a hang from the new roof of the stadium, pointing towards the seats to achieve a wide horizontal coverage and to improve the vertical coverage of the first rows of seats.

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Thanks to the calculations carried out by Enrique Lask (Sales Representative for Electro-Voice in Mexico), the result was a more uniform SPL distribution and better coverage between loudspeakers. The distribution was designed in accordance to the coverage standard of the loudspeakers (FRi-152: 60 x 40 degrees, Sx100+: 60 x 60 degrees).

The non-roofed, open-air seating section was complemented with Electro-Voice MHA640 outdoor full-range horns for the coverage of the stadium's lateral branches.



Electro-Voice MHA640 Horn

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(8) Electro-Voice P1200 RL Precision Series™ DSP power amplifiers were installed for their performance, resilience, and remote control via standard Ethernet connection. EV's unique remote control software, ISIS, was installed in the stadium's locution cabin, allowing control of all signal levels, amplifier power on/off, as well as digital signal processing (similar to the EV DX38), allowing equalization, fix cut off, delay, compression, and limitation curves for all channels of the 8 amplifiers. ISIS provides a real solution to the requirements of distributed sound, allowing accurately adjustments for each area or zone, according to its location.



Electro-Voice P1200 RL Precision Series Remote Control DSP Power Amplification

Ramiro Colasurdo, engineer/manager for GONHER Group's Pro Audio Division, worked on the system's calibration with the corresponding levels correction, equalization, and delay. The computer analysis was made using SMAART 5 and Spectralab software, with a 24 bit, 96K of audio resolution processing and an accuracy of 1/24/octave.

The system was complemented with Electro-Voice NRU2 UHF wireless microphone systems.





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Finally, after much hard work and the completion of the installation, many of the staff reconvened at Revolución Stadium to enjoy a good game of baseball. Congratulations were in order, as it was apparent that they had created one of the few stadiums in Mexico with coherent coverage in all areas and an optimum quality in audio reproduction. While the time frame for completion of the job was tight and the inauguration was a great challenge, attendance surpassed 10,000 baseball fans! As for the winners of the inaugural game? Torreón City's own, The Vaqueros de la Laguna, who were more than willing to pass the real victory on to those behind-the-scenes, which included Gonher S.A. de C.V. and Audio y Sonido S.A. de C.V.

For more information on the Electro-Voice® X-Line™, please visit www.electrovoice.com or www.gonher.com

For full details on all Electro-Voice products and brands, please visit www.electrovoice.com

Electro-Voice® is a professional audio brand of Telex Communications, Inc., a leader in the design, manufacture and marketing of sophisticated audio, wireless, multimedia, aircraft, broadcast and communications equipment for commercial, professional and industrial customers. Telex Communications markets its products in more than 80 countries under the brands EV®, Telex®, RTS™, Dynacord®, Midas®, Klark Teknik®, University® and others.

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