

SCDS Beyond the Scan World

As an established Canadian service provider of 3D Laser Scanning and Modeling services, **SCDS PRO Inc.** provides specialized activities for large structures, objects and industrial sites.

The company's scanning platform is configured with a state-of-the-art Long Range 3D Laser Scanner that generates green eye-safe laser beam to capture tri-dimensional point cloud data with an unprecedented combination of completeness and details, high speed, and accuracy.

SCDS's technologies add significant value to construction QA/QC and technical auditing activities, which could undoubtedly lead to faster and better results in construction engineering projects.

SCDS PRO has extensive experience on 3D modeling and CAD production for each specific application.

Buildings, bridges, overpass, constructions, historical preservation, architecture, civil engineering and any large structure can benefit from the company's following services:

- High level of details, extremely accurate, huge volume of data collected, no data omissions, much higher quality than traditional surveying;
- Very quick collection process;
- Quick 2D/3D modeling and analysis;
- Important labor savings;
- Possible inspection and measurements on the inaccessible areas ;
- Quick and accurate volumetric analysis;
- Unique approach for data management and processing;
- QA/QC results can detect early deviation/instabilities;
- Producing as-built documentation;
- Simple creation an inventory and audit;
- Using of the data base for implementation of GIS solutions and Seismic Risk Qualifiers; and
- Data collection does not interfere with ongoing activities.

Deliverables: 2D/3D complete drawings and documentation in universal exchange formats: DXF, DWG, for Autcad and/or microstation and/or IGES, STEP and 3D geo-referenced coordinates: ASCII, TXT, XYZ, PTS.

The company's portfolio:

- Bridges: Lachapelle, Jacques Cartier and Champlain Bridges (Canada)
- Buildings: Auditorium, Parliament Hill and Interior Scanning Public Works, Ottawa, Bahrain Financial Harbor.
- Historical Preservation: Al-Fateh Mosque, Bahrain Fort, Bahrain. ■

تعمل SCDS، وهي شركة كندية، في مجال معدات المسح والتشكيل المستخدمة في العديد من الصناعات ومنها إنشاء المباني والجسور والعمارة والهندسة المدنية وغيرها. تملك الشركة خبرة واسعة في مجالها حيث تقوم بتصنيع مجموعة واسعة من معدات المسح يتناسب كل منها مع تطبيق معين

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Acrow Panel Modular Steel Bridges Creating Engineered Solutions Worldwide

Acrow is an industry leader in the design and manufacture of modular steel bridges. Acrow Bridges are an enhanced version of the World War II Bailey Bridge. They are constructed from standard pre-fabricated components with clear spans from 10 meters to 76 meters for roadways one to three lanes wide and designed to accommodate heavy truck traffic. Acrow Bridges are shipped worldwide for use as temporary and permanent installations.



Twin Lift Bridges- Boston:

Acrow recently opened the largest, most complex Panel Bridge. The 762 meter, four lane detour bridge includes twin vertical lift bridges of 64 m in length. The lift spans are raised daily to allow the passage of ships. 9,000 tons of galvanized steel were used making this the largest galvanized steel bridge in North America. The bridge will be in service for 15 years.

Intersate Highway 10 Twin Spans - New Orleans:

In September, Hurricane "Katrina" severely damaged the twin span bridge across Lake Pontchartrain. Acrow supplied 1,300 m of two lane steel bridging to replace the missing and damaged spans. Between 11 October and 6 January, 2006 crews worked to complete the Acrow structure in record time. One year earlier, Acrow assisted in the installation of 1,100 m of Acrow Bridging in Florida on a hurricane damaged bridge. ■

تعتبر Acrow من الرواد في مجال هندسة وتصنيع الجسور الفولاذية المعيارية. جسر Acrow هي نموذج مطور لجسر بايلي وهي مصممة لتحتمل عبور الشاحنات الثقيلة. تُصدّر جسر Acrow إلى مختلف أنحاء العالم.

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