

Crane Runway & Building Engineering Services



**INTEGRATED
MACHINERY SOLUTIONS**

We Handle All of your Crane Runway Concerns . . . Turnkey

IMS Engineering Specialty Services has an experienced staff of Registered Professional Engineers practicing in structural engineering of buildings with crane runways.

Crane Runway & Building Structure Engineering Services

- Capacity up rates, up rate feasibility studies, modification drawings, reports, cost estimates.
- Engineered repairs for fatigue damage, accidents, and failures.
- Runway Beam end connection modifications to eliminate broken tie-backs.
- Crane end stop strength analysis, and modifications.
- Extension of existing runways, and design of new runway systems.

Solutions to Crane Tracking Problems

- Diagnoses and solutions for tracking problems, abnormal rail/wheel wear, fatigue cracks.
- Runway surveys and optimized alignment analysis.
- Precise alignment of bridge wheel bearings for parallel tracking.

The Runway Structure Is Part of the Crane Machinery

Your crane building is a hard worked part of the crane machinery, and subject to fatigue failure. Fatigue failures can result in frustrating cycles of down-time and repair. This type of repetitive maintenance can be eliminated when *engineered* repairs are made.

Hard worked and older buildings should be evaluated by structural engineers with firsthand knowledge in the details of fatigue-resistant construction.

IMS Engineering Specialty Services

We have the unique advantage of being crane design engineers *and* structural engineers who practice all aspects of runway design, capacity up rates, inspections, modifications, and engineered repairs.

How Can We Help You?

IMS Engineering Specialty Services are available at your plant around the clock. We provide immediate response to field emergencies, and on the spot technical supervision for engineered repairs.

Depend on us for solutions to your most difficult problems.

Know Your Building, Improve Safety, Reduce Liability Exposure

- Changes of ownership and management personnel are common during the lifespan of a building. Construction documentation can get lost, or be incomplete.
- Typically, plant production and crane capacities increase during the long life of a building, and more cranes may be added to runways.
- Structures could be altered and changes may not be recorded and/or backed by formal engineering documentation.

Ultimately, the responsible plant management personnel may not be aware of existing building code violations, unsafe alterations, or pre-existing overstress conditions. *That's where we come in.*

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Engineering Specialty Services

IMS Engineering Specialty Services offers the complete spectrum of engineering for crane runways and buildings. With total design/build capability, we can provide cost estimates and contracting services for repairs, modifications, and steel erection.

Studies and analyses to reduce maintenance costs and maximize usable crane life are also available.

Diverse Heavy Industrial Experience is Important

We are practical, hands-on engineers with over 80 years of combined service to the heavy industrial sector. Our well-rounded staff engages projects in all major industries:

- Primary Metals
- Cement, Refuse, Bulk Materials
- Heavy Manufacturing
- Lumber
- Power Utilities
- Petrochemical
- Government
- Automotive
- Special Industrial Applications

Crane Engineering Services are also Available for all Brands

- Crane capacity up rates.
- Modernizations, modifications, engineered repairs.

For more information on how IMS can provide single-source solutions for your material handling problems:

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