

SMITH
CRANE & CONSTRUCTION

Lifting the game.



company history

Smith Crane & Construction Ltd was formed by Tim and Albert Smith in 1992.

The company traces its roots to the family business of John C Smith Contractors Ltd, founded in 1964 by John Smith. Specialising in bridge building, pipe laying, culverts, wharves, sewer plants and water reservoir construction, the company became a major force in the Canterbury construction industry.

Smith Crane & Construction was established to continue the family tradition of excellence in the provision of crane hire, piling, civil construction and heavy haulage services. In 1997 the Company relocated to its 12-hectare premises at 484 Johns Road, Harewood, Christchurch where it has continued its steady growth, consolidating a reputation for delivery of professional services to the highest quality.

Today **Smith Crane & Construction** employs over 170 staff, with branches in Auckland, Nelson, Blenheim, Queenstown and Invercargill, and operates the largest fleet of cranes in New Zealand.

Smith Crane & Construction has become a preferred supplier of crane hire services, heavy haulage, piling and civil construction services to organisations and companies in the public and private sectors. As a result of client demand, the company has expanded to provide house relocation services and a state-of-the-art precast construction facility operating from its Christchurch premises.

The key to the company's success is through its people who demonstrate daily the commitment to its clients and the communities they work in. Its management and staff listen, understand and partner with each stakeholder to ensure all parties' interests are considered and its clients' requirements are met on-time, within budget and without dispute.

Smith Crane & Construction is committed to designing, constructing and maintaining the best solutions for its clients whilst focusing on the safety of its employees, the sustainability of the community in which it operates and minimising the effects of its activities upon the environment.



Demolition works,
Lyttelton Port, Christchurch



Crane Hire



Civil Engineering



Precast Manufacturing



Heavy Haulage



Building Relocation
& House Lifting

NATIONWIDE

 03-359 7759

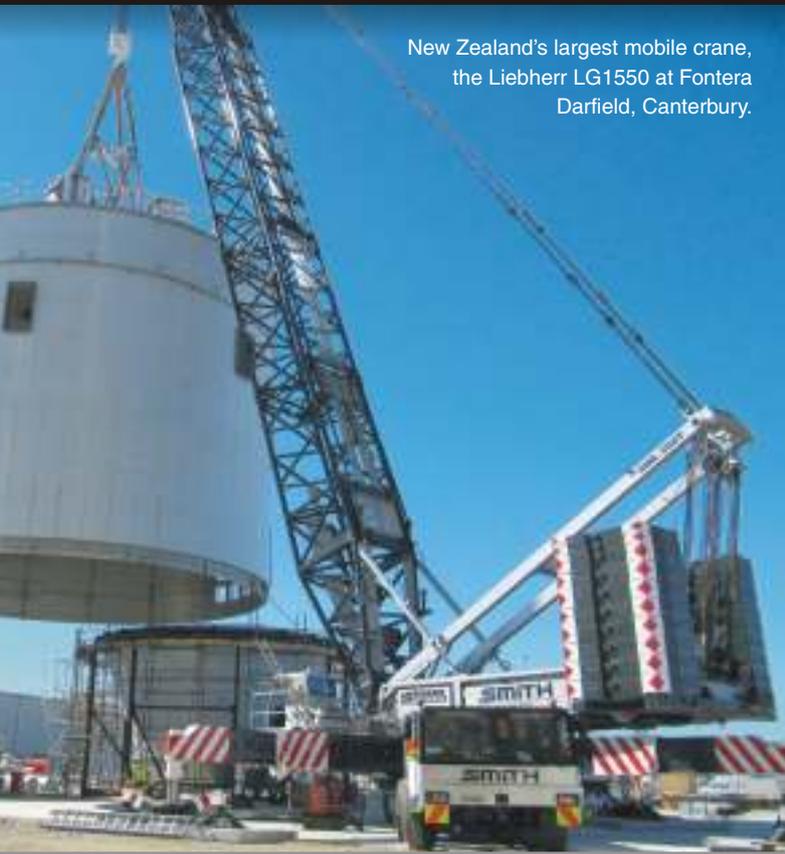
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www.smithcranes.co.nz

New Zealand's largest mobile crane,
the Liebherr LG1550 at Fontera
Darfield, Canterbury.

mobile crane hire

Smith Crane & Construction operates the largest fleet of cranes in New Zealand, with more than 300 plant items available for hire on a casual or contract basis for all types of works.



All-terrain cranes

Number in fleet: 17
Capacity: 45~550 tonnes



Rough terrain cranes

Number in fleet: 8
Capacity: 7~25 tonnes



Pick-and-carry cranes

Number in fleet: 7
Capacity: 10~25 tonnes



Truck-mounted cranes

Number in fleet: 10
Capacity: 25~45 tonnes

AUCKLAND

☎ 09-277 9154

NELSON

☎ 03-548 6687

CHRISTCHURCH

☎ 03-359 7759

QUEENSTOWN

☎ 03-442 3926

INVERCARGILL

☎ 03-215 4517

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cranehire@smithcranes.co.nz

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project crane hire

Smith Crane & Construction's modern crawler fleet includes the largest crane in New Zealand, enabling the company to successfully deliver projects such as wind farms, bridge slides, large piles and high rise demolition.

The company's fleet of seventeen tower cranes range from smaller self-erecting models to New Zealand's largest luffing and hammer-head types.

Smith Crane Hire provides all the necessary foundations, lift and configuration studies and personnel.



Crawler cranes

Number in fleet: 16
Capacity: 3~600 tonnes



Tower cranes

Number in fleet: 17
Capacity: 3~40 tonnes
Height: up to 200m



Construction hoists

Number in fleet: 4
Capacity: 7~25 tonnes
Height: up to 250m



other plant available



Hiabs

Number in fleet: 7
Capacity: 2~18 tonnes



Telehandlers

Number in fleet: 9
Capacity: 2~6 tonnes

The company offers a comprehensive **lift planning service** supplying all rigging and labour to ensure loads are lifted safely and without damage.



civil engineering

Smith Crane & Construction prides itself on providing clients with individually-designed work programmes which afford the best technical and collaborative solutions to a project, delivered on-time, within budget and without dispute.

With a reputation for tackling projects which are technically demanding, the company undertakes even the most difficult venture, providing innovative solutions to engineering problems and benefiting the client through savings.

Smith Civil Engineering has an extensive range of construction equipment to tackle every job and a dedicated, trained and experienced team to successfully carry out your project on-time and within budget.

HEAD OFFICE

☎ **03-359 7759**

NORTH ISLAND

☎ **09-277 9175**



- Precast concrete
- Tanks & chambers
- Bridge beams



- Piling and foundation works
- Wick drains



- Retaining walls and remediation
- Post tensioning
- Shoring & propping



- Demolition
- Emergency response
- Asbestos remediation



- Rail bridges
- Vehicle bridges
- Pedestrian bridges
- Structures
- Emergency works



- Marine works
- Marine piling
- Dredging
- Barge work

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piling

Smith Crane and Construction has extensive experience in a wide range of piling techniques, with the capability to install piles from 300mm to 3000mm diameter.

The **Smith Piling** team has gained knowledge of the challenging and often unique geotechnical conditions throughout New Zealand, having undertaken the installation of piles to comply with New Zealand standards in seismic pile design particularly in the Canterbury region.

The company offers its services nationwide with offices in Christchurch and Auckland.



- Driven and rotary steel casing – temporary and permanent
- Up to 3000mm diameter
- Sheet pile cofferdams



- Continuous Flight Auger (CFA)
- Full Displacement Pile (FDP)
- Driven UCs and UBs
- Driven plug piles
- Driven precast concrete



- Screw piles
- Timber pole piles
- Micropile / Minipiles
- Large diameter rock drilling
- Stone columns



piling equipment

Smith Crane & Construction operate a modern fleet of drilling and piling rigs ranging from the 110-tonne *Casagrande*, the largest of its kind in New Zealand, to the 2.3-tonne *Hutte* restricted access drill for low headroom environments.



- Screw pile rigs
- Drilling rigs
- Drop hammer rigs
- Vibro hammers
- Hydraulic hammers
- Clams
- CFA, FDP attachments
- Down-the-hole hammers
- Oscillators

bridge construction

Since the company's inception, bridges have been **Smith Crane & Construction's** core business.

The company prides itself in being a *one-stop-shop* no matter what size of bridge.

Whether it's a 5m span farm bridge, the *Otira Viaduct* or one of the many Kiwirail bridges successfully delivered, the company can supply and install all components itself.



- Vehicular bridges
- Marine bridges
- Rail bridges
- Pedestrian bridges
- Farm bridges
- Bridges of all sizes

design-and-build

The **Smith Civil Engineering** team has bridging experience in piling, fabricated steel (including weathering steel), optimising designs to minimise time and risk, precast and cast in-situ concrete, post tensioning, temporary access staging, remote sites and many other specialist attributes required of the modern, flexible bridge contractor.

Working closely with our crane team gives us the ability to lift and place many bridges directly into position, thus eliminating delays associated with building them in-situ.



bridge repair, renewal & replacement

Smith Crane & Construction has carried out emergency replacement bridge works throughout New Zealand and are regularly the first port-of-call for local bodies, NZTA and Kiwirail.



- Seismic upgrades
- Under-pinning
- Pier strengthening
- Emergency remediation



- Re-piling
- Re-decking
- Bridge widening



- Bridge slides
- Bridge lifts



demolition

The Christchurch earthquakes have enabled **Smith Crane & Construction** to diversify its core services by not only emergency recovery, rescue and assistance, but also to delivering demolition solutions for the Canterbury rebuild and to clients such as CERA.



- Cut-and-crane deconstruction
- Demolition
- Concrete crushing
- Recycling
- Temporary propping
- Basement pumping
- Aerial building inspections
- Tenant recovery



marinas & wharves

Smith Civil Engineering regularly combines its core construction skills with cranes and piling plant to deliver marine projects.



Smith Crane & Construction have gained experience in environmentally-sensitive works through projects such as the *Milford Sound Fresh Water Basin*.



- Marina works
- Marine piling
- Dredging
- Port expansions
- Inland lakes and waterways projects



- Road-transportable segmented barges
- Tug boat and support craft
- Barge-mounted cranes
- Marine salvage



heavy haulage

Smith Heavy Haulage has developed over the past 30 years from transportation of **Smith Crane & Construction's** own plant through to a modern and sophisticated array of purpose-built and needs-specific transportation trailers available throughout New Zealand.

The company prides itself in the wide range of equipment it offers, along with vast experience and an innovative approach to all work that leads to the most cost-effective and efficient way of transporting over-dimension and over-weight loads.

Smith Heavy Haulage offers a full *pilot and permit* service.

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building relocation

With over a thousand shifts to-date, the **Smith Building Relocation** team has the experience to safely and efficiently relocate your building.



The company offers *free site inspections* with a direct and innovative approach to ensure each contract is priced competitively.

CHRISTCHURCH

☎ **03-359 7759**

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house lifting

Smith Crane & Construction is proud to offer three metre-high synchronised jacking plant, pioneered and purpose-built for the Canterbury earthquake recovery. This award-winning plant allows for the replacement of concrete floor slabs or pile installation without removing the dwelling from its section.



- Synchronised high-lift jacking plant
- Award-winning design
- Purpose-built
- 3 metre lift height



- House stays on-site
- No need to cut house into sections
- Less stress on structure
- Unimpeded access beneath





precast manufacturing

Smith Precast Manufacturing offers a full detailing, manufacture, transportation and installation service on all types of precast and prestressed items.

With its manufacturing plant based in Christchurch, it consistently delivers high-quality, accurate precast components for all types of commercial, domestic, civil and government body works throughout the South Island.

The **Smith Precast Manufacturing** team is dedicated to finding innovative solutions and smarter ways of working, taking pride in their work and continually striving to proactively meet the needs of clients.

Why use **Smith Precast Manufacturing**?

Factory-produced precast products have an advantage in that they are manufactured to tighter tolerances by experienced workers in more controlled conditions.



precast supply and erect

- Tilt slab
- Architectural panels
- Industrial panels
- Stairs
- Stadium bleachers



prestress

- Interspan flooring
- Unispan flooring
- Prestressed columns and beams
- Hollow core bridge beams

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infrastructure repairs



- Emergency repiling
- Bridge repairs and deck resetting
- Propping and shoring
- Contamination containment and removal

salvage

Smith Crane & Construction were involved in devising methodologies and providing plant and labour to salvage the containers from the stricken MV Rena.



- Marine salvage
- Methodologies
- Floating crane
- Road-transportable segmented barges
- Tug boat and crew



emergency response

Smith Crane & Construction has a proven track-record in providing emergency and first-response services to critical infrastructure such as NZ Police, Civil Defence, NZ Fire Service, NZTA, Kiwirail, Coastguard, CERA, district councils and regional environmental authorities across the country.



- Mancages
- High access rescue
- Aerial surveys
- Search and rescue assistance



- Derailments and rolling stock recovery
- Vehicle recovery
- Goods vehicle and heavy equipment righting

**NATIONWIDE
EMERGENCY RESPONSE**

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