

CAPABILITY STATEMENT

Beach Wagner provides mechanical engineering consulting services and commercially successful machine designs to support clients across a range of industries.

Mechanical Engineering Consulting

We solve complex engineering problems, combining practical experience with first principles calculations, CAD techniques and engineering software.

- Advanced engineering calculation
- Load derivation
- FEA and structural analysis
- Numerical system modelling and simulation
- 3D CAD modelling
- RPEQ design certifications and design audits

Machine Design

At Beach Wagner, we take your ideas from first principles through to an optimal solution ready for manufacture.

- Client consultation with site visits to define design features, parameters and constraints
- Initial concept generation and brainstorming
- Concept development, evaluation and refinement
- Physical prototyping supervision
- Design of test rigs & test procedures
- Data analysis & interpretation of prototype tests
- Mechanical design to appropriate Australian and international standards
- Design skills are transferable to the third party audit of supplied designs.

Industries

- | | | |
|---------------------|------------------|------------------|
| • abattoir | • earthmoving | • pharmaceutical |
| • bakery | • food | • ports |
| • building products | • freight | • rail |
| • cement | • gas | • resources |
| • concrete moulding | • infrastructure | • waste |

Machines

- conveyors - bucket elevator, belt, chain, screw, segmented, hook
- cranes - beam, jib, mobile
- forklift - bins, clamps, jibs, probes, work platforms
- lifting equipment - bins, cages, hooks, beams, work box
- machines - blenders, concrete moulds, gates, hoists, mixers, roll forms, stressing beds, tippers, winches
- mobile - rail, trailers
- structures - access, bins, silos, skids, tanks