



# Bosch Australia Manufacturing Solutions

## Mechanical Design

**Bosch Australia Manufacturing Solutions** is a leader in design and development of special purpose assembly equipment. We combine a passion for solving your complex engineering challenges with unmatched applications expertise across a broad range of industries and automation systems.

Our proven machine and complete line automation equipment will allow you to operate manufacturing platforms engineered to the highest levels of energy efficiency and productivity, whilst considering flexibility, scalability and long-term value. We have designed and built production systems from large scale to micro assemblies.

### Customer Benefits:

- ▶ One-stop-shop
- ▶ Mechanical design
- ▶ Work Flow Simulations
- ▶ Automated testing systems
- ▶ Feasibility studies
- ▶ Collaborative machine concept development
- ▶ Design for manufacture
- ▶ Industrial engineering validation
- ▶ Project management



# BOSCH

Invented for life

### Bosch Australia Manufacturing Solutions

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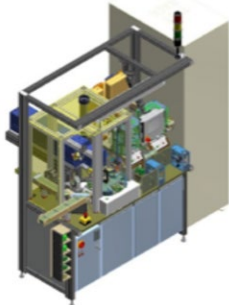
# Mechanical Design

Our capabilities and experience allow us to offer you the right solutions to suit your needs



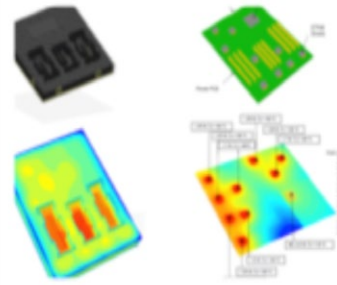
- ▶ Assembly line design
- ▶ Machine design
- ▶ Manual workstation design
- ▶ Gauge design
- ▶ Process engineering
- ▶ Process development & verification

## 3D Mechanical Design



- ▶ Solid Edge
- ▶ Solid Works
- ▶ Revit (Architectural)

## Finite Element Analysis (FEA)



- ▶ ANSYS software
- ▶ Stress & strain analysis
- ▶ Displacement analysis
- ▶ Tool optimization

## 2D Drawings & Layouts



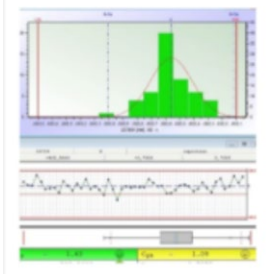
- ▶ Solid Edge
- ▶ AutoCAD

## Material Flow Simulations



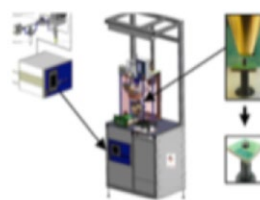
- ▶ Simul8 Software
- ▶ Throughput improvements

## Process Development & Verification



- ▶ Statistical verification
- ▶ QS Stat
- ▶ Cycleime analysis
- ▶ COSIMIR

## Process Engineering



- ▶ Laser & vibration welding
- ▶ Gluing & dispensing
- ▶ Heat staking
- ▶ Leak Testing
- ▶ Pressing
- ▶ Riveting
- ▶ Tightening

If you would like to find out how Bosch Manufacturing Services can help with your next project, please contact us on (03) 9541 5086 or visit [www.bosch-manufacturingsolutions.com.au](http://www.bosch-manufacturingsolutions.com.au) for more information.



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