

About JUFANDO

JUFANDO is a speciality engineering and business consultancy for your continuous improvement.

JUFANDO was born and exists to deliver customer focused and innovative solutions to public and private sector businesses. We strive to bring the highest quality and great value for our clients while developing long term reliable business partnerships with high level of trust.

Being independent helps us to deliver unique solutions to your distinctive issues and requirements. JUFANDO is small but strong with strategic-tactical-operational experience of more than 25 years.

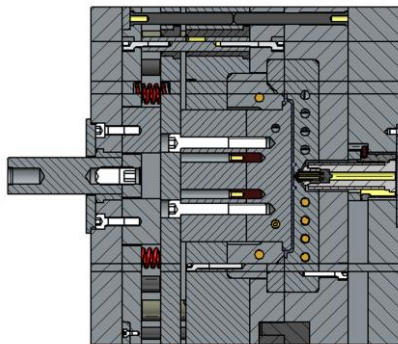
We hold site senior executive level commitment to Australian W/OHS legislative requirements.



Plastic Product Development

Demanding capabilities include:

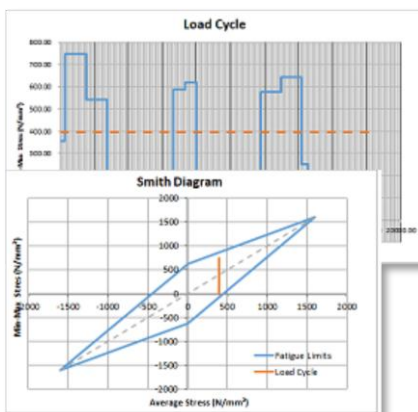
- Concept development, plastic product and component design
- Product/component 3D models with materials specs & drawings
- Metal-to-Plastic product conversion
- Finite Element Analysis (FEA) to verify fit-for-purpose
- Design for manufacture and assembly (DfM)
- Design for safety (DfS), environment (DfE) and reliability (DfR)



Injection Mold Development

Demanding capabilities include:

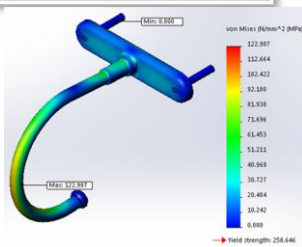
- Generic-standard molds and tools design and develop
- Speciality molds and tools design and develop
- 2D/3D models, shop-manufacturing-production drawings
- Auxiliary jigs & fixtures and EDM electrodes design
- 3D motion of mold-tool kinematics
- Melt-mold flow analysis for mold design optimisation
- G and NC codes for mold-tool manufacturing
- Mould-tool manufacturing cost estimate



Custom Machine Design and Mechanical Engineering

Demanding capabilities include:

- Custom machine design and products development
- Reverse engineering
- Design, modify and upgrade of high-risk plants (cranes, lift equipment, pressure vessels, conveyors & bulk handling, mounting structures, height platforms and machine guarding) under ANZS/ISO
- Independent design verification/sign-off of high-risk plants
- 3D models, technical-manufacturing-production drawings & BOMs
- Plant-system-machine static/dynamic analysis and improvements
- Design for manufacture and assembly (DfMA) consulting
- Design failure modes and effects analysis (DFMEA) consulting
- Mechanical system feasibility studies, SOW & work packages
- Ergonomic studies for design, operation and maintenance contexts
- Compliant (rigid to flexible) and Linkage mechanisms develop
- Rotating equipment design (impeller, turbine, etc.)
- Structural FEA and motion simulation and optimisation
- Advanced dynamic simulation (fatigue-thermal-buckle-frequency)
- Advanced drop test, CFD and DEM simulation and optimisation





Reliability Engineering

Demanding capabilities include:

- Reliability for product designs, validation and life tests (for OEMs)
- Operational readiness (full-scale program management)
- FAT and SAT program and execution support
- Optimise planned maintenance (PMs) using RCM/FMEA & PMO
- Resonance prediction studies and prevention (green-brownfields)
- Hydrocarbon (HC) & Lubrication consulting (full-scale HC program)
- Asset integrity program (regulatory assets & classified plants)
- Corrosion prediction, prevention design and control improvements
- Predictive maintenance and condition monitoring programs
- Failure diagnostics, prognostics and remaining useful life (RUL)
- Optimal components, rotatables and assets replacement modelling
- Optimal inspections and condition monitoring modelling
- Optimal maintenance resources requirement modelling
- Reliability KPIs, Data Mining-Analytics from CMMS-downtime reports
- Application/equipment performance review and failure analysis
- Root cause analysis (RCA) and defect elimination
- Process loss accounting to assess bottom-line impact
- Process reliability analysis to reveal production-maintenance issues
- Warranty models, program development and planning (for OEMs)
- OEE system implementation and enhancement



Maintenance Management

Demanding capabilities include:

- New CMMS implementation project management
- Maintenance work management process develop & standardise
- Maintenance KPI set-up and improve
- Maintenance planning and scheduling advise - short to long term
- Precision installation and maintain procedures
- Inventory, spares & rotatables management
- Zero based defensible maintenance budget development
- Develop work flows for R&M budget-forecast-accrual-control
- Contract and contractor management framework
- Maintenance staffing requirement estimation and optimisation
- TPM program and LEAN maintenance strategy implement
- Integrate 6S practices in maintenance workflow-workshop-stores
- Audit & maturity gap analysis to identify maintenance advances



Physical Asset Management

Demanding capabilities include:

- Develop Asset Management (AM) and Reliability frameworks/systems
- ISO 55001 gap analysis, GFMAM maturity assessment and audits
- Strategic (SAMP) and tactical (TAMP) asset management plans
- Develop best practices for higher asset management maturity
- Develop asset information requirements-standard in CMMS/eAM
- Asset register and hierarchy develop
- Assets and spares criticality assessment
- Portfolio-wide assets risk-cost profiling
- Lifecycle costing, analysis and optimisation
- Develop OPEX-CAPEX programs
- Integrate emerging technologies in reliability, maintenance & AM
- Determine asset end of life and devise alternative strategies
- Asset disposal management & knowledge capture for new assets



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Our Differentiators

- Solutions customised to your needs, fit-for-purpose
- Comprehensive - holistic - big picture approach
- Bring world's class practices, hands-on experience, expertise & care
- Work alongside client to sustain improvements
- Flexible and result oriented approach to work engagement
- Faster turnaround time
- Build long-term trust, not just results and solutions

Our Values (SQITA)

Safety - Safest way is the best way and central to everything we do

Quality - Excellence is mandatory, not an option and innovation is incorporated seamlessly

Integrity - We walk the talk consistently-authentically-respectfully

Trust - We build the trust as a way of every-day work

Agility - Our clients can depend on us with possibilities, flexibility and speed

Our Process (IPDII)



Past Clients

JUFANDO staff has worked with/for:

Boehm & Lekner Multi Moulds
Amcor Flexibles Australasia
Alcoa Australia Rolled Products
Warrnambool Cheese & Butter

IE Group
Hatch Pty Ltd
BCS Airport Group
Life Space Group

Al Watania Poultry
Alcoa World Alumina
Fenner Dunlop Conveyors
Saputo Dairy Australia

The Wheel Works
Downer Asset Service
Alcoa Power Station
Alcoa Coal Mining

The Team

JUFANDO principal consultant holds following credentials blend with more than 25 years' experience.



ENGINEERS
AUSTRALIA
Chartered Professional Engineer
MEMBER



ENGINEERS
AUSTRALIA

National
Engineering
Register



Master of Engineering
[Operations-Lean-Maintenance-Reliability]



Bachelor of Engineering
[Mechanical]
University of Moratuwa



Machine
Lubrication
Analyst
Cat-II



Vibration
Analyst
Cat-II



Lead
Investigator



ICAM
Australia
Global Services & Expertise

Service Locations & Sectors

- We offer our services across Victoria, around Australia and Internationally.
- We service any sector where appropriate fit is sorted, including Medical-Pharma, Automotive, Aviation, Electrical & Electronic, Sports, Marine, Mining-Metals-Resources, Oil & Gas-Energy, Agriculture, Manufacturing-Industrial, Construction and Food-FMCG.