



# KAEFER

When it counts, count on us.

## CAPABILITY STATEMENT

*Mining*

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# Who We Are

KAEFER Integrated Services has an established and widespread presence across Australia, operating in the country for over 40 years and globally for over 100 years.

We are a leading provider of turnkey construction, maintenance and industrial services. We specialise in the delivery of mechanical services, surface protection, electrical services, insulation & cladding, access solutions, passive fire protection, marine structures remediation and asbestos management. We also undertake civil services through established relationships with specialist partners.

## What We Do





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## Our Locations in Australia



# HSEQ at KAEFER

KAEFER Integrated Services is committed to the safety of our people and our customers, with quality and environmental preservation being critical in the overall delivery of everything we do.

KAEFER's Occupational Health & Safety Management System is certified to ISO45001:2018. Our Quality Management System is fully-certified to ISO 9001:2015 and our Environmental Management System to ISO 14001:2015.



## SMART Choices

KAEFER's commitment to HSEQ is driven by our holistic program *SMART Choices*. The program focuses on the choices employees make, both at home and at work, and is centred around five key business pillars.



## SMART CHOICES



SAFE CHOICES



PROUD CHOICES



GREEN CHOICES



HEALTHY CHOICES



EFFICIENT CHOICES



## Life Saving Commitments

KAEFER's Life Saving Commitments underpin the safety culture within KAEFER. They define our commitment to ensure our employees remain safe in our workplaces and assist them in making SAFE Choices. The Life Saving Commitments have been developed to ensure all KAEFER employees are protected specifically when conducting high-risk activities. The 9 commitments were selected after review of past incidents and the critical risk exposure to our employees through the various disciplines of KAEFER's operations.

The Life Saving Commitments link directly to the SAFE Choices Pillar of the SMART Choices Program by supporting the workforce to make safer, better decisions.

## QA/QC Management

KAEFER is highly experienced in working to a wide range of specifications and standards across our key service offerings.

With dedicated teams of QA/QC personnel nationally, support is provided at a corporate level as well as assisting our on-site execution teams.

KAEFER's Quality Management system has been developed in alignment with and is accredited to ISO 9001:2015 principles.

KAEFER develops contract-specific Quality Plans, Inspection and Test Plans (ITPs), Internal Audit Plans, procedures and work method statements to meet client requirements.

Supporting this is an in-house developed Project Management System (KPMS) for Quality Inspection and Reporting.



1. Fitness for Work



2. Working at Heights



3. Dropped Objects



4. Confined Space



5. Energised Equipment



6. Hazardous Substances



7. Trained, Competent & Certified



8. Lifting Operations



9. Driving Safety

# Our Systems

KAEFER's management systems have been custom-designed to support execution of our core services. This includes a range of in-house developed software solutions as well as continuous improvement programs to promote efficiency in delivery and provide certainty to our clients.

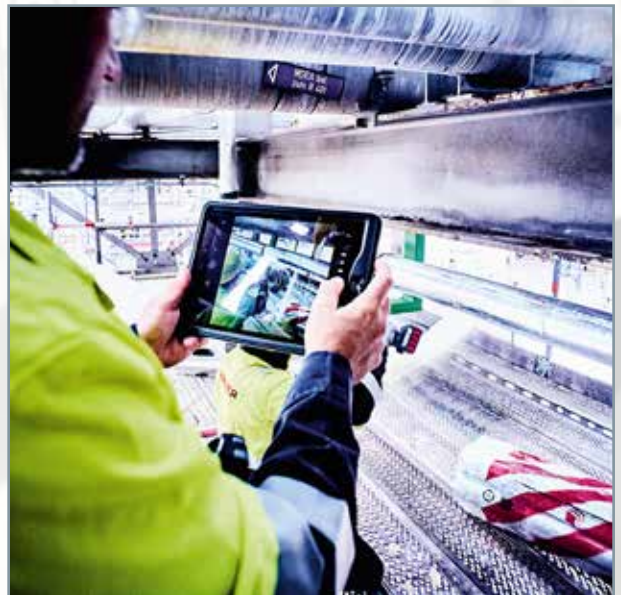
## Project Controls & Reporting

KAEFER Project Management System (KPMS) is a dedicated management system developed in-house to manage data flow and work flows of our contracts.

Integrated with Primavera P6, KPMS manages work orders from initiation through to completion, providing full visibility on schedule, cost, productivity and QA reporting.

The system has an in-built scaffold management module (KAEFER Scaffold Management System - KSMS) that allows us to track scaffold material and costs inclusive of labour and productivity measures.

The software is also compatible with mobile devices and intrinsically-safe tablets, enabling real-time updates and progress tracking from site.





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## LEAN at KAEFER

Continuous improvement is fundamental to KAEFER's drive for sustained success. KAEFER's LEAN program is customised for our organisation and our services and provides a platform for this.

LEAN is a management philosophy that aims to deliver maximum value for clients by minimising waste in production and service delivery.

The program uses specific tools to identify 'waste' in maintenance or construction execution and coaches teams to find solutions to reduce this waste.

A LEAN project is where:

- > Analysis is conducted on existing processes to determine baseline and realise any wastes and waste patterns;
- > A LEAN workshop is carried out to develop process improvements;
- > Improvements are actioned;
- > The improved baseline is determined; and
- > The improvements are sustained as the new current processes.

Productivity and efficiency improvements before and after LEAN improvements are then converted to LEAN savings.

**CONTINUOUS  
IMPROVEMENT**



# Mining

From turnkey construction projects through to asset integrity programmes, maintenance and shutdown services, we have built a reputation for delivering safely, on-time and to a high quality standard.

Our expertise extends across commodities including iron ore, coal, copper, nickel, aluminium and gold through to specialty metals including lithium. We work with our clients from the initial concept stage (early contractor involvement) through to execution and handover, delivering projects of all sizes across fixed plant (including smelters and refineries), non-process infrastructure and marine infrastructure.

## Our Services

- > Mechanical Services
- > Access Solutions
- > Surface Protection
- > Electrical Services
- > Marine Structures Remediation
- > Insulation & Cladding
- > Passive Fire Protection





## What We Do

- > Greenfield construction services spanning all core disciplines
- > Brownfield upgrades across fixed plant (chute replacement, tanks, plant optimisation, hopper and conveyor modification and replacements)
- > Planned maintenance and shutdown services (including planning and scheduling)
- > Asset integrity management across the entire plant
- > Non-process infrastructure including fuel farms, warehouses and tanks
- > Marine structures remediation including wharves, jetties, bridges, fenders, dolphins, headstocks and piles
- > Fabrication and modification works
- > Machining and fitting
- > Off and on-site assembly, modularisation and installation
- > Inspection and testing
- > Commissioning
- > Dismantling and plant closures
- > Labour support across all disciplines including shutdown planning

# Mechanical Services

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KAEFER Integrated Services is highly experienced in the delivery of project, maintenance and shutdown scopes and provides a full range of mechanical services, from complex on-site installations through to specialist off-site fabrication and modification services.

## On-Site Services

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KAEFER's services range from providing minor works through to large-scale support, complemented by our extensive fleet of plant & equipment. Our on-site mechanical services include:

- > Planned maintenance and shutdowns (including scoping, planning, management and delivery)
- > Complete asset & structural integrity solutions (across fixed plant, marine and non-process infrastructure)
- > Greenfield construction projects
- > Plant optimisation
- > Brownfield modifications (including tanks, conveyors, stackers & reclaimers, chute replacements, draglines, longwall equipment, fuel farms and warehouses)
- > Project labour support
- > Detail drafting services
- > Site welding and mechanical & machining services



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## Off-site Fabrication

KAEFER has in-house fabrication and modification capabilities through our numerous mechanical and pre-assembly facilities, with specialist workshops located in Darwin, Geraldton and Kalgoorlie.

KAEFER manages all welding and fabrication lifecycle activities including weld procedures, weld procedure qualifications, welder qualifications, consumables and NDT in accordance with industry standards, including compliance to all Australian and International standards across structural steel welding and pressure equipment. This is supported by over 200 approved weld procedures.

Our range of off-site fabrication and modification services include:

- > Fabrication of pipe spooling, platework and structural steel
- > Fabrication of chutes, hoppers, tanks and structural infrastructure
- > Welding of steel and exotic materials including carbon & stainless steel, duplex, super duplex, titanium and Inconel
- > Pre-assembly services
- > Coordination of various testing methods, including NDT weld testing, post-weld heat treatment, hydro testing, penetrant testing, ferroxyl testing, magnetic particle testing & radiographic testing

# Electrical Services

KAEFER delivers a range of electrical, instrumentation and controls (EIC) services across the full lifecycle of assets for our clients.

KAEFER offers flexible and responsive solutions - from early contractor involvement through to project delivery, maintenance and shutdowns. Our electrical services offering includes:

- > LV cabling and switchboard installation
- > HV cabling installation
- > Installation of EIC infrastructure including transformers, substations, switchyards, switchrooms and switchgear
- > Hazardous area installations
- > Plant control, monitoring, protection and metering systems
- > Commissioning & start-up assistance
- > Regulatory compliance and testing
- > Planned & reactive maintenance
- > Shutdown planning & labour



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# Scaffolding

KAEFER is a specialist access provider in the supply, erection, dismantling and management of all forms of scaffolding systems, including conventional tube & clip systems and advanced system scaffolding. We also offer in-house fabricated stillages with load testing to compliance.

## KSMS

KAEFER has developed in-house scaffolding management software (KAEFER Scaffolding Management System - KSMS) to manage scaffolding in a cost-effective manner. The system offers benefits to our projects, maintenance and shutdown campaigns including:

- > Providing field access - Compatible with tablets, enabling easy access of data, ability to update and share photos, data and reports from the field.
- > Fast and accurate access to data regarding stock availability and utilisation, allowing efficient management of scaffolding equipment.
- > Summary on key progress, productivity, manning levels, equipment utilisation, material status, work and release progress and HSEQ indicators.
- > Ability to track scaffold inspection requirements - scaffolds are 'tagged' on the scaffolding register, which is automatically updated on completion.



# Scaffold Design & Engineering

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**KAEFER has in-house scaffold design and engineering capability to design safe, efficient and cost-effective access solutions.**

Scaffolds are designed in 2D or 3D using AutoCAD software. 3D scaffold design models can also be appended to client site models (if available) for clash detection and visualisation purposes in Navisworks.

KAEFER's Scaffold Design Engineers are qualified to review, analyse and certify scaffold designs upon request by clients. Structural analysis is conducted on a case-by-case basis, taking into consideration scaffold self-weight, live loads and environmental loads.

This process allows troubleshooting to be completed in the planning stages, rather than during construction, significantly reducing risk of harm to operatives whilst also optimising outcomes in terms of constructability, mobility and cranability.

Our design capability extends across all types of scaffolding including conventional tube & clip and system scaffolding.



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# Rope Access

KAEFER has a full IRATA membership and a team of trained rope access technicians from levels 1 to 3 in various industrial disciplines. Our dedicated rope access division specialises in delivering adaptable and dynamic services across a range of market sectors.

Rope access offers a safe, cost-effective access solution in difficult-to-reach and remote areas, as well as improved safety (reduced risk of falls at height and dropped objects), reduced equipment requirements and reduced disruption to ongoing operations.

Our range of rope access services includes

- > Insulation & Cladding
- > Welding
- > Pipe Fitting
- > Blasting & Painting
- > High-pressure Water Blasting
- > Electrical Services
- > Non-destructive Testing
- > Asset Inspections (including Radiography)



# Surface Protection

Surface preparation and protection is a core business activity for KAEFER Integrated Services, delivering both onsite and offsite solutions across a full range of blasting activities and protective coating applications.

## On-site Services

KAEFER Integrated Services offers extensive surface protection solutions, from the delivery of projects through to asset integrity, maintenance and shutdown services. This experience extends across the Energy, Mining, Infrastructure and Marine markets.

Our services include:

- > Traditional blasting
- > Specialist coating application
- > Asset integrity remediation
- > Treatment of corrosion (including Corrosion Under Insulation)
- > Thermal spray coating
- > Concrete remediation application
- > Ultra-High Pressure (UHP) water jetting
- > Rubber lining
- > Ceramic lining

Our solutions include provision of specialist equipment, such as in-house developed, customised mobile units for blasting and painting activities as well as application of polyurethane foam. These units incorporate industry best practice for safety and environmental requirements along with KAEFER LEAN principles. The equipment is fully-integrated, self-bundled and fully-mobile to significantly reduce setup time.







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## Off-site Services

KAEFER Integrated Services undertakes off-site surface protection solutions at our numerous facilities across Australia.

Our Darwin Facility provides extensive support to our clients and on-site execution teams in the Northern Territory. The Facility includes full dehumidification capability, enabling coatings application to be completed during high levels of humidity. This facility also enables us to test the application of protective coatings under various climatic conditions.

KAEFER's Southwest Facility houses a bespoke VOC centre, enabling us to undertake all training requirements in-house.

We also have fully-equipped facilities located in Geraldton and Gladstone, enabling off-site surface protection to support clients and our on-site teams in these regions.

Our off-site surface protection capability includes:

- > Piping (including carbon & stainless steel)
- > Structural (bridge beams, jetty superstructures etc.)
- > Platework
- > Vessels
- > Storage tanks
- > Balanced machines
- > Conveyors
- > Modules

# Insulation & Cladding

KAEFER is internationally-recognised in the supply & installation of insulation & cladding. Our services span from hot, cold and cryogenic insulation through to acoustic insulation and personnel protection.

We provide a full range of services, from technical support through to supply and installation across Greenfield projects, Brownfield rectification projects (including corrosion-under-insulation), planned maintenance and shutdown campaigns.

Our services include on-site installation and off-site fabrication associated with:

- > Pipework
- > Vessels & Tanks
- > Smelters
- > Process Plants
- > Technical assistance associated with engineering and specification

KAEFER's capability also extends to removal and re-installation of roofing and wall cladding, including replacement of purlins and girts for existing structures. We also have mobile equipment that allows us to roll form on site.

Our regional workshop facilities contain automated fabrication equipment, enabling us to fabricate insulation & cladding components off-site in controlled environments ready for on-site installation.

KAEFER also offers customised thermal insulation jackets for assets that require regular inspection or maintenance, eliminating the need to constantly remove and replace cladding.



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# Marine Structures Remediation

KAEFER understands the challenges involved in remediation works for marine structures, facing issues such as corrosion, tidal movements and working in operational environments.

With expertise in complementary capabilities spanning mechanical, surface protection and access, we offer complete solutions for the remediation of marine structures including wharves, jetties, bridges, fenders, dolphins, headstocks and piles.

Our services offering for marine structures remediation includes the following:

- > Asset integrity inspections
- > Mechanical services
- > Access solutions
- > Concrete remediation
- > Abrasive blasting
- > Ultra-high pressure water cleaning
- > Surface protection
- > Pile refurbishment
- > Structural remediation
- > Cathodic protection
- > Specialist equipment including jack-up barge



# KAEFER

## **Head Office**

Level 4 /218 St Georges Terrace,  
Perth WA 6000

## **Adelaide (East Coast) Office**

Level 9/121 King William Street,  
Adelaide SA 5000

## **Darwin Branch**

17 Mendis Road, East Arm,  
Darwin NT 0822

## **Gladstone Office**

63 Goonoon Street,  
Gladstone QLD 4680

## **Karratha Branch**

503 Pemberton Way,  
Karratha Industrial Estate WA 6714

## **Port Hedland Branch**

37 Harwell Way,  
Wedgfield WA 6721

## **Brisbane Office**

Level 22 / 345 Queen Street,  
Brisbane QLD 4000

## **Geraldton Branch**

415 Marine Terrace, West End,  
Geraldton WA 6530

## **Goldfields Branch**

18 Clements Way,  
Boulder WA 6432

## **Mackay Branch**

27 Len Shield Street,  
Mackay QLD 4740

## **Southwest Branch**

41-51 Macedonia Street,  
Naval Base WA 6165