

INNOVATION.  
NOT DUPLICATION.™



MINING SOLUTIONS COOLING DIVISION

## DIVISION OVERVIEW



# DIVISION OVERVIEW

H-E Parts International Mining Solutions Cooling Division (H-E Parts) manufactures and supplies high quality, innovative products that can also be tailored to our customers' specific requirements. H-E Parts in-house engineering, product and service offerings, guarantee we can support customers throughout the full product life cycle while working to award the end user with the lowest total cost of ownership.

## OUR MISSION AND CUSTOMER PROMISE

Our mission is to supply customers with the highest quality replacements parts, components, and services that improve life cycle performance and lower costs. We will deliver a superior alternative by providing innovative, engineered solutions designed to support mine and industrial maintenance professionals. Our aim is to provide the best customer services through an empowered, talented, and responsive team. We will provide a safe, productive, and supportive workplace that attracts and retains the best employees.

Delivering Quality and Value with Exceptional Service.

## CORPORATE OVERVIEW

H-E Parts International (H-E Parts) is a leading independent supplier of parts, remanufactured components and equipment to the global mining, quarrying, heavy construction, and energy sectors.

H-E Parts International is comprised of the following divisions:

- Mining Solutions – Complete drivetrain solutions
- Crushing Solutions – Crusher liner development, parts and wear product solutions
- Engine Solutions – Diesel engine remanufacturing and service solutions

Our divisions offer solutions in support of mobile surface mining equipment, fixed crushing and minerals processing equipment, and mobile construction equipment fleets.

At H-E Parts, we provide our customers with a superior alternative to many of the traditional OEM channels by responsively delivering innovative solutions that award the customer with the lowest total cost of ownership.

## SAFETY

At H-E Parts, one of our core values is that we will not compromise accident and injury prevention, or environmental compliance for profit or production.

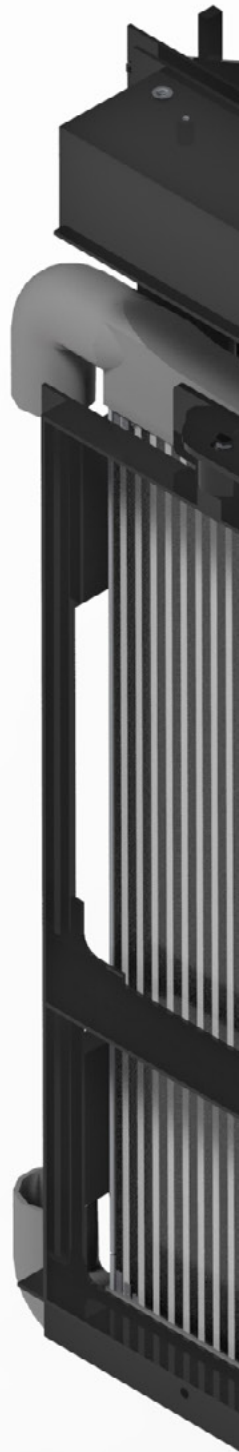
We are working towards creating safety excellence, not just focusing on preventing accidents and as such concentrate on what goes right, not just what goes wrong.

Our "See You Tomorrow" philosophy is underpinned by a set of beliefs, behaviors and key safety promises that drive positive safety outcomes.

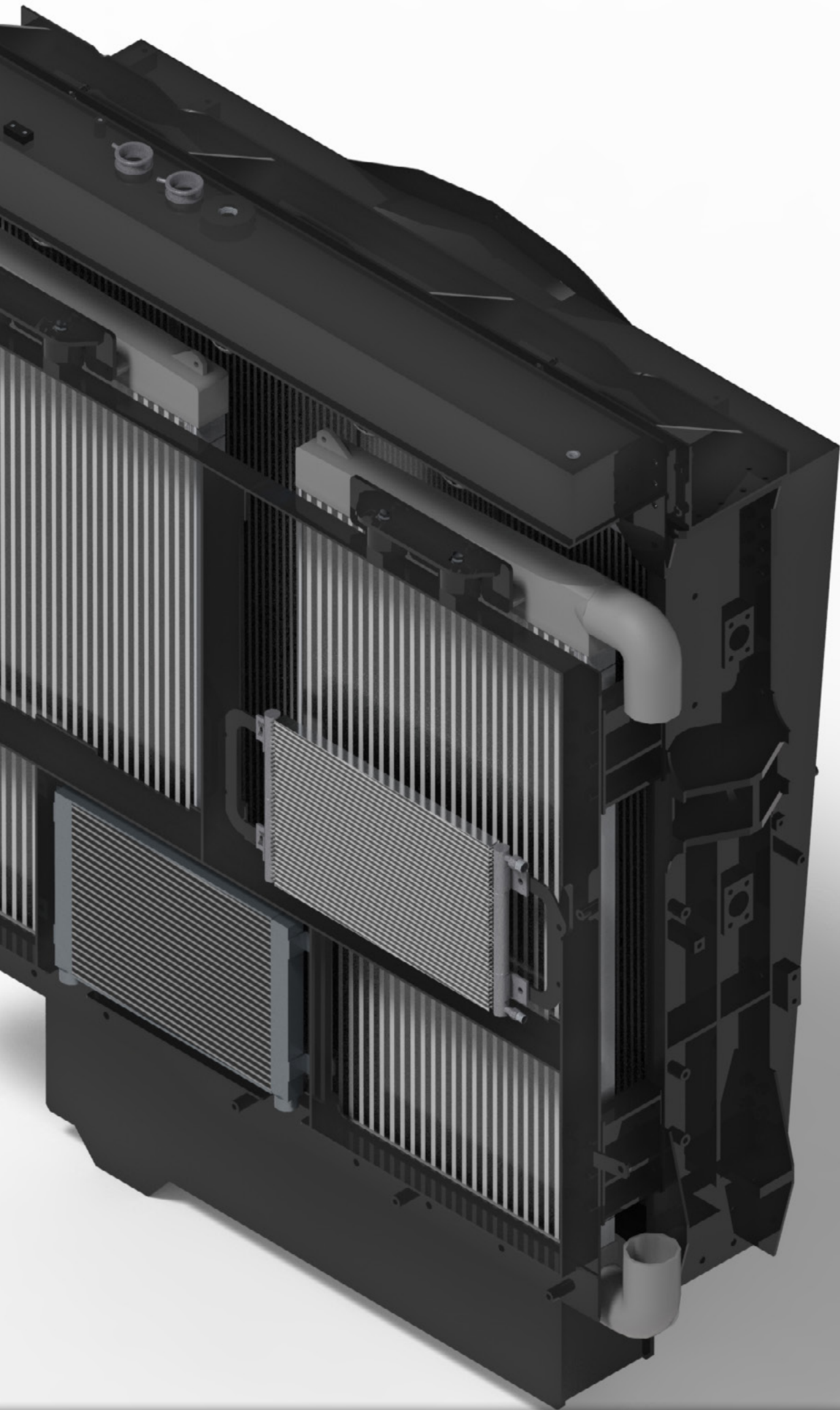
## QUALITY

H-E Parts places priority on quality to ensure we meet or exceed clients' expectations in design, products, services, and solutions globally.

Quality and compliance is an integral part of what we do at H-E Parts, and as such, we regularly review and improve our policies and practices to reflect this.







# ENGINEERING

We take pride in our experience and reputation for delivering the highest quality products and service to our clients; assisting you with the design, manufacture and supply of suitable radiator, heat exchanger, or complete module solutions.

## ENGINEERING CAPABILITIES

Our Engineering team utilizes 3D modeling and design verification software to design, optimize, engineer and manufacture to meet the customer's specific cooling requirements. Using computer-aided design software enables us to deliver on new projects faster and more efficiently.

## ENGINEERING INNOVATION

At H-E Parts, we are continuously developing our products to offer innovative solutions that increase productivity through longer service life, more efficient products and time saved through availability.

## PROPRIETARY SOFTWARE

Using our proprietary software, we can continually improve our bar and plate range to better suit the specific application requirements.

## CUSTOM SOLUTIONS

Our experience in application specific solutions assist our customers in avoiding costly machine breakdowns caused by inappropriate or ineffective cooling systems. This results in lower maintenance costs and more machine uptime, increasing productivity.

High quality cooling systems ensure longer machine life expectancy through the reduction of unnecessary overheating machine components. An engineered solution from H-E Parts also generates other potential benefits, including high machine performance through increased efficiency and reduced fuel consumption.







# SERVICE EXCHANGE

At H-E Parts we specialize in the supply and maintenance of all types of radiators.

We service, overhaul and re-core the full range of heat transfer equipment from a range of industries and applications, offering rapid turnaround service and repair of mining, heavy industrial and transport heat transfer equipment, ensuring easy access to specialist services.

## SERVICE EXCHANGE

At H-E Parts, we work to achieve minimal downtime for our customers. With the ability to service and exchange the customers entire fleet.

We have a large inventory of OEM compatible service exchange radiators, accessible on an exchange basis in Australia.

## RADIATOR CORES

We design and supply industrial radiator cooling systems that are fit for service in all environments, and utilize only the highest quality radiator cores.

We have radiator cores suited to a variety of markets such as agricultural, mining, refinery, rail, heavy road transport, power generation and more.

## AFTERMARKET PARTS

We also offer a range of new aftermarket products such as radiator panels, radiator caps and filler necks to suit most applications.

## PANELS AND SEALS

Our folded panels and seals can be used for a range of radiators operating in all kinds of environments from everyday applications to the most extreme. The seals can function at a range of temperatures and are resistant to oil and fuel.

We offer differing lengths to cater for a range of industry requirements to ensure your machinery is equipped with panels and seals that are best suited for your operations.

# BAR AND PLATE

With our extensive range and abilities of bar and plate radiators we are able to supply replacement radiators for a variety of customers across a range of industries.

## FEATURES AND BENEFITS

- Heavy duty bar and plate design to suit multiple engine configuration
- Corner block reinforcements prevent premature failure of end tubes
- Anodized cores and aluminium for extended service life resulting in less downtime and resistant to corrosion
- Custom designed piping system and accessories can be included
- Side band expansion slits allow the core to expand and contract evenly to prevent premature cracking
- Enhanced external open fin design to prevent blockages and ease cleaning

## INCREASED PRODUCT LIFE

The fully welded aluminium bar and plate configuration is a robust solution to many cooling applications, offering resistance to corrosion, damage from debris and a fully serviceable cooler.

Large coolers or coolers subject to vibration, typically seen in mining and heavy industrial applications, can suffer from issues with structural integrity. To overcome these issues, H-E Parts use a combination of corner blocks and expansion joints.

## IMPROVED COOLING PERFORMANCE

By designing solutions that use aluminum, we take advantage of the superior cooling performance of the material, resulting in improved cooling performance within the same space constraints. Our range of custom fin designs provide solutions to air flow issues that affect cooling performance.

## DROP IN REPLACEMENTS

In addition to offering competitively priced, premium aftermarket coolers, H-E Parts has developed drop in replacements for a range of applications which overcome many of the issues endured when operating in varying and harsh conditions.







## DURA-LITE

As a leading distributor of Dura-lite Charge Air Coolers (CAC's), H-E Parts stock a large range of CAC's to suit a variety of applications.

Dura-lite CAC's have patented heat resistant silicone grommets to eliminate cracking, saving the customer replacement time and costs associated with premature cracking.

The offset fin design reduces debris build up and an internal baffle system increases cooling efficiency by distributing air evenly across the core. Dura-lite's CAC's use less fuel which results in additional savings for customers.

### FEATURES AND BENEFITS

- Patented heat resistant silicone grommets to eliminate cracking
- Offset fin design to reduce debris build up
- An internal baffle system that increases cooling efficiency by distributing air evenly across the core
- Cost saving – reduced fuel usage resulting in cost reduction



# FANS

H-E Parts can offer a range of solutions from well known international brands backed up with the latest German technology from Multi-Wing.

## QUALITY

High-strength, die-cast aluminium hubs are combined with high-efficiency blade profiles, which are moulded in engineered thermoplastics or die cast in aluminium.

## MULTI WING

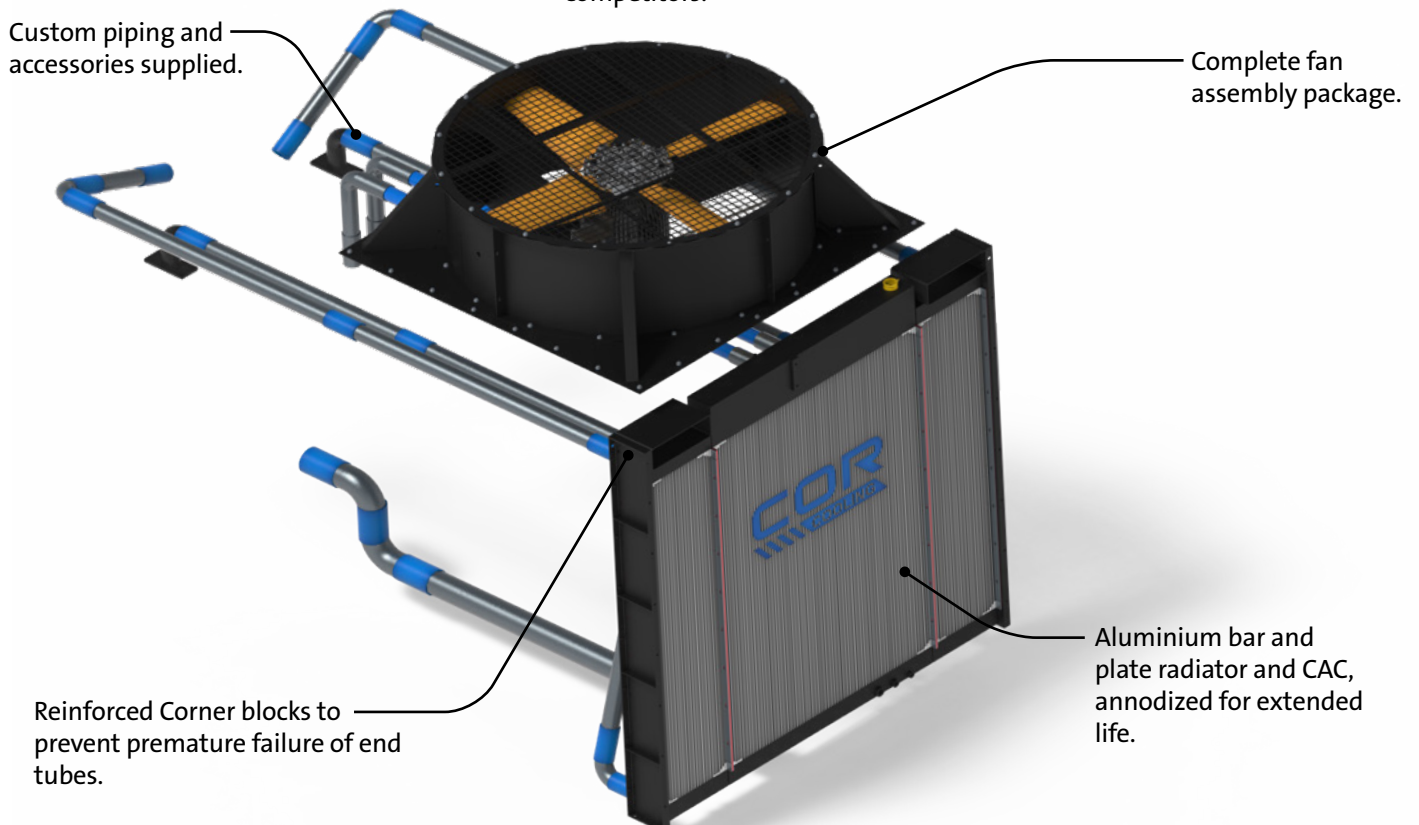
H-E Parts is a leading distributor of Multi-wing fans and parts and carry a large range of inventory to reduce downtime. As a distributor, we have access to the Multi-wing software that assists in finding the appropriate fan and parts for our customer while allowing a tailormade solution.

## FAN FEATURES

- Lightweight design
- Can be designed to increase airflow performance
- Reduced power used to run the fan, resulting in a cost reduction
- Components are easy to replace and repair
- Flat packed for cheaper transport

## CUSTOM DESIGNS

H-E Parts can custom make fans to suit our customers' needs. We design, supply and support our customers throughout the products lifecycle and continuously develop our products to maintain our advantage over competitors.





# HEAT EXCHANGE

The Pilan tube and shell are designed in a three pass tube stack arrangement with a cooling fluid inlet and outlet on opposite sides and counter current fluids. They are easy to service and able to withstand pressures of up to 435 psi. The most common applications being mari plastic injection moulding and process applications.

## FEATURES AND BENEFITS

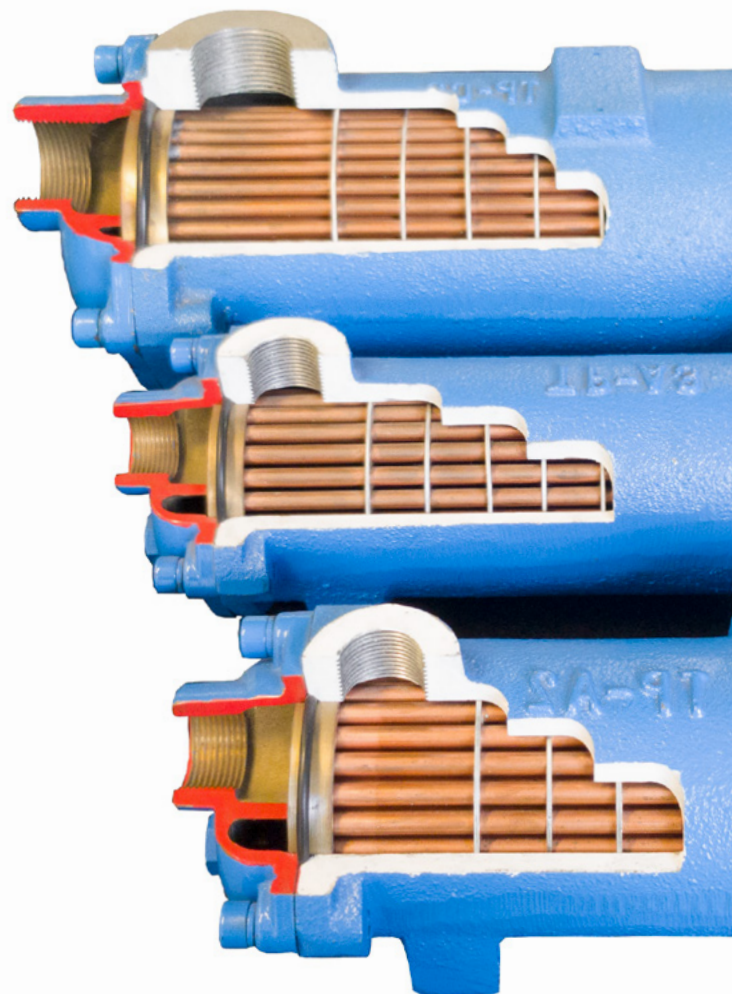
- The floating tube stack prevents thermal loss through its tight fitting design. The design is fully replaceable and easy to maintain
- A mechanically expanded plate sheet that prevents fluid contamination through its tight fit in the tube
- The three pass circuit arrangement directs the process fluid across the outside path from inlet to outlet ports ensuring maximal thermal exchange with the cooling medium
- Finned tubes are precision rolled cut to each series length with bevelled tube ends
- Integral anchoring that provides robustness to the exchanger and eases anchoring to the equipment, if desired
- Draining plug made in a brass material for fluid emptying during maintenance operations to avoid jamming
- Bolted covers allowing access to tube stack for maintenance operations. The use of hot pressed brass or bronze as a standard, avoids pipe work connection clogging

## AVAILABILITY

At H-E Parts, we understand the costs associated with downtime due to product failure and poor performance, that's why we carry a large range of stock to readily supply to our customers. Thanks to scale production methods, H-E Parts are able to provide an affordable and readily available service.

## SERVICE AND REPAIR

Our workshops at H-E Parts, have the facilities and capabilities to service, clean, test, repair, re-tube, descale and replace all styles of tube and shell products in-house.



# CUSTOM COOLING SOLUTIONS

At H-E Parts, we believe in continuously developing our products to ensure our customers benefit from the convenience of a turnkey solution. Our products are designed and engineered to withstand the harsh and varying industrial conditions they operate in, while maintaining site specific applications and operational parameters.





# CUSTOMER EXPERIENCE

H-E Parts provides the same responsive service to all customers, whether it's a small contract or a large multinational company. This ensures our clients know what to expect from us, and can rely on quality products with unrivalled service support to get the job done - on time, on budget and with zero harm.

With a large client base over a variety of industries, it is our ability to deliver on our promise to work with suppliers and customers to extend service life, reduce downtime, and work to a high standard that sees our customer base grow exponentially every year.



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# H-E PARTS, GLOBAL LOCATIONS, FOR GLOBAL SOLUTIONS.



H-E Parts International replacement parts are compatible with the makes and/or models of the third-party equipment described. H-E Parts International is not an authorized repair facility of these third parties and it does not have an affiliation with any manufacturers of these third-party products. All brands, original equipment manufacturer (OEM) part numbers or references are owned by the respective OEM entities or their affiliates. These terms are used by H-E Parts International for identification and cross reference purposes only and are not intended to indicate affiliation with, or approval by the OEM, of H-E Parts International or its products.



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