

WHEN

ADVANCED

MEETS

GREAT

BUILD

THERMAL PERFORMANCE

UNMATCHED DURABILITY

GREAT MACHINES

BUILD GREAT THINGS



SPRIT OF CHALLENGE





WHEN THE HEAT IS ON, COUNT ON US

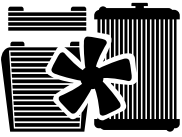


Ever since we developed India's first aluminium heat exchangers over three decades ago, Alkraft's products and systems have set the benchmarks for Thermal Performance across a number of iconic industries. Our heat exchangers have proved their mettle in commercial vehicles across the lengths and breadths of India; in armoured vehicles in the high Himalayas and in the scorching Middle-Eastern deserts; in the harshness, grime and dust of construction sites around the world; and on remote frontiers where uninterrupted power is an unknown entity.

That penchant for excellence, consistent performance, and endurance even in the toughest of conditions is the hallmark of every product that emerges from Alkraft's stables. It is also the driving force that defines the character of every Alkraft team member who builds those products.

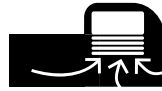
Those are the very traits that Great Machines never fail to inspire us with, every day. The Great Machines that relentlessly grind, dig, and move to build far greater things that define entire civilisations. To build anything that is befitting for these Great Machines requires that the maker also shares the traits that make them great. Only then can we make a confident promise that when the heat is on, we can truly be counted on.





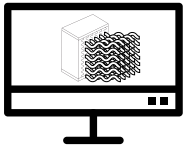
Bespoke Packaging of Complex Systems

Alkraft has successfully deployed advanced Thermal Systems with as many as eight heat exchangers packaged together as a single high-performance unit.



Performance Optimization using CFD Techniques, with Improved In-Cab Air Flow Management

Alkraft supports OEMs to optimise cooling efficiencies using CFD to simulate performance. We also optimise in-cab air flow by minor tweaking of cab designs and support in fan selection.



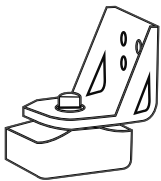
Thermal Challenges Solved with Proprietary Solutions

With a wealth of heat transfer data and proprietary thermal design software, Alkraft can engineer solutions for thermal challenges for any application.



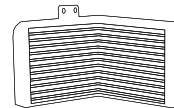
On-Site Testing Support & Design Benchmarking

Alkraft supports customers in optimising cooling system under-hood packaging, conducting on-site tests, and in benchmarking designs with field reliability data.



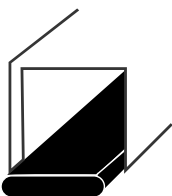
Design Support for Special Anti-Vibration Mounts using CAE

Alkraft's product validation experts can help design optimal anti-vibration mounts using CAE techniques to reduce vibration levels and extend product life.



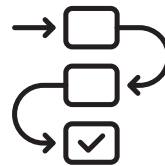
Innovative Design Solutions for Constrained Spaces

Alkraft's expertise in product design for constrained spaces has resulted in unique styles of heat exchangers including L-shaped and curved products.



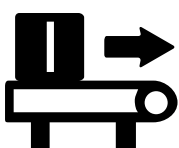
Flexible Manufacturing Lines

Alkraft has flexible manufacturing lines to produce low volume, multi-variety batches of heat exchangers for niche customer requirements.



Just-In-Time Supplies from Satellite Plants & Warehouses

Alkraft has satellite assembly plants and warehouses spread across India for Just-In-Time supplies to customers, thus enabling deep manufacturing efficiencies.



Auto Industry Efficiencies in the Non-Auto Sector

Alkraft's automotive DNA and engineering excellence enable construction equipment OEMs to leverage efficiencies generally available for mass-market auto manufacturers.



Defence Vehicle Technologies for Advanced Durability & Performance

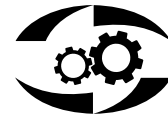
As a partner to international Defence Vehicle OEMs, Alkraft's products and systems have been validated on the frontlines for high strength and extreme durability.



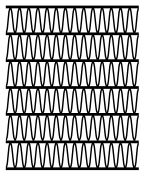
High Performance Heat Transfer Systems



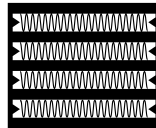
Designed & Built for Construction & Off-highway Equipment



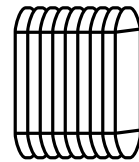
Reliable Operation & Best-In-Class Durability



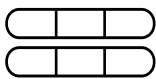
Tube Fin Cores



Bar Plate Cores



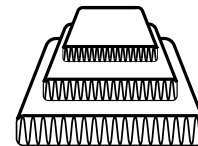
Drawn Cup Cores



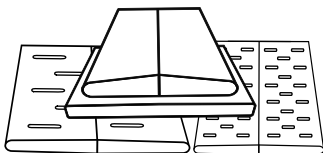
Extruded Tubes for Radiators



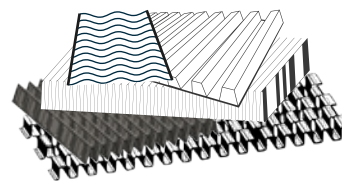
Multi-Port Extruded Tubes for Charge Air Coolers



Stuffed Tube Configurations for Charge Air Coolers in Various Sizes



Proprietary Folded Tubes in Super Long Life Aluminium Alloys for High Strengths and durability



Wide Range of Fin Geometries for Various Operating Environments

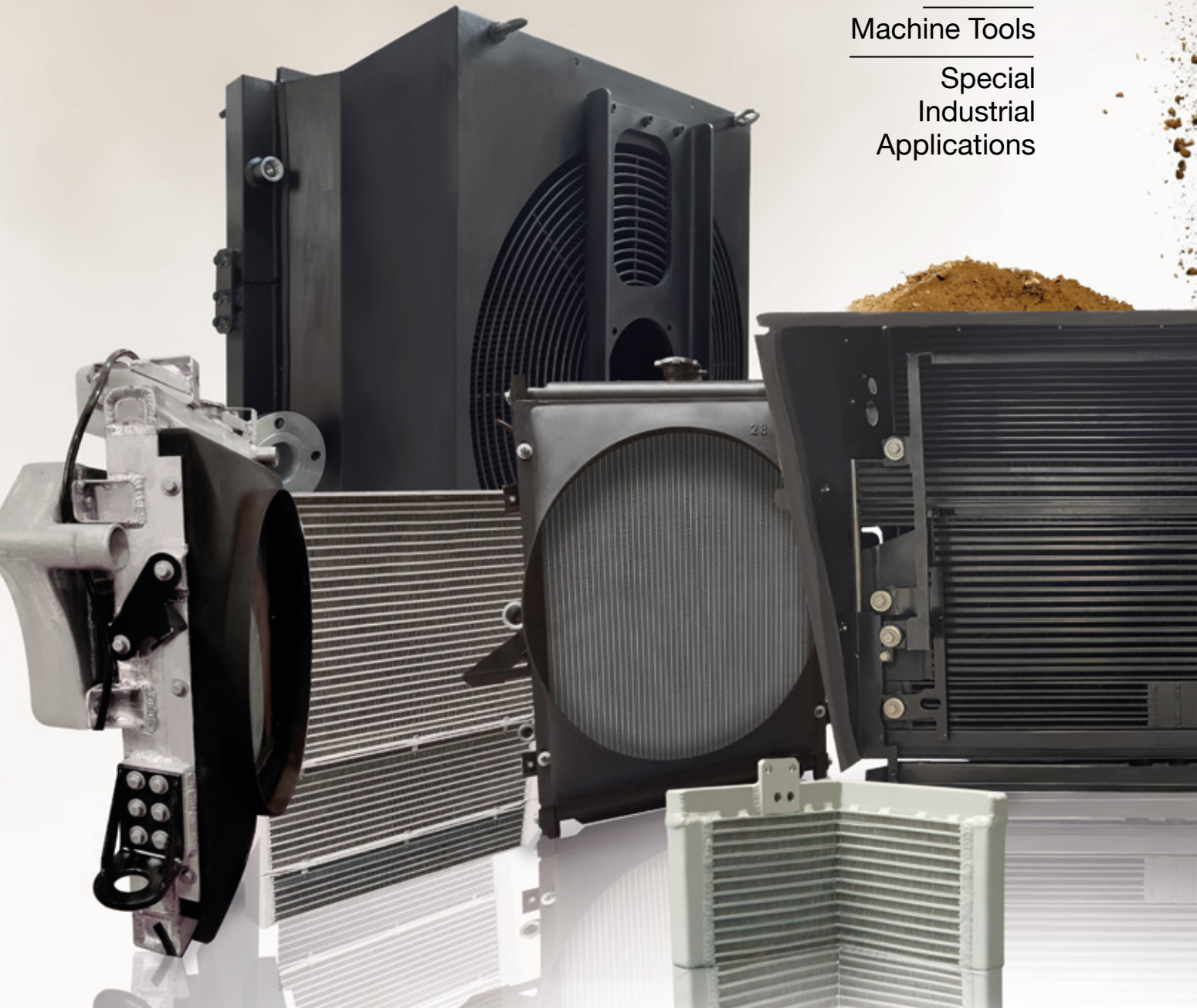
Three Decades of Thermal Management Excellence.

Countless Machines that Count on it Everyday.

**DESIGNED BUILT FOR THE
ROUGHEST &
RETTUMBLE**

- Forklifts
- Concrete Mixers
- Backhoe Loaders
- Wheel Loaders
- Compactors
- Road Rollers
- Motor Graders
- Pick & Carry Cranes
- Boom Cranes
- Sleeve Cranes
- Air Compressors
- Gensets
- Machine Tools
- Special Industrial Applications

APPLICATIONS



PRODUCTS

Radiators

Charge Air Coolers

Cooling System Modules

Air & Water Cooled Oil Coolers For
Hydraulic Oil | Steering Oil | Transmission Oil
Transfer Case Oil | Rear Differential Oil

Fuel Coolers

Cabin Demisters



Testing Centre

Wind Tunnel Test



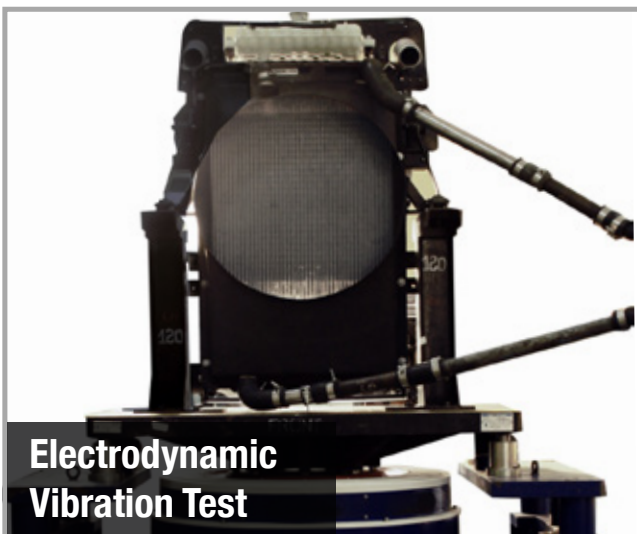
Pressure Pulsation Test



Thermal Shock Test



Electrodynamic Vibration Test



Internal Corrosion Test



Operational Excellence

Alkraft's core engineering and product development strengths are complemented by its dedication to operational excellence that enables consistent, near-flawless execution. The supply chain, diligently developed over three decades, is made up of local and global partners that share the same commitment to excellence. The well integrated nature of the supply chain and logistical efficiency enables Just-in-Time production.

Seamless integration in operations planning between customer order, vendor delivery schedule, production planning, manufacturing performance, inventory management, and logistics has given Alkraft the edge to cut through wastages and inefficiencies in a systematic manner, thus ensuring daily on-time-in-full deliveries to every customer in an exceedingly volatile demand environment.

All production and assembly plants are governed by TPM principles, and an activated, engaged workforce tightly manages every facet of the company's operations to maximise efficiency and pursue excellence. Alkraft's approach towards manufacturing excellence integrates TPM, Quality Assurance Systems and Lean Manufacturing. The HR excellence programmes lay emphasis on performance measurement and reward, competency development, multi-skilling, collaboration strategies, and leadership development, to build a uniquely capable workforce that performs to global standards on a continuing basis.





SPIRIT OF CHALLENGE

OUR VISION

To be the most dynamic thermal management company that customers will count on to drive sustainable change through pioneering leadership.

OUR MISSION

Continually challenge status quo and create new paths in pursuit of customer success by delivering differentiated heat transfer solutions, and services that enhance value.

OUR CORE VALUES

INTEGRITY

We do the right thing and honour our commitments. We take responsibility for our actions.

HUMILITY

We are humble and appreciative.

RESPECT

We treat each other fairly and foster a culture of openness and collaboration.

INNOVATION

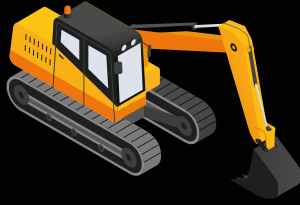
We do things differently to deliver the best value to our customers.

QUALITY

We strive for first time quality in all that we do.

SAFETY

We are accountable for our own safety and for each other's safety and we will not compromise safety for anything else.



SPRIT OF CHALLENGE



**THERMAL PERFORMANCE
FOR GREAT MACHINES**

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