

Cooling modules and cooling systems for use in construction and mining equipment

AKG is a competent partner and supplier of cooling technology components and systems. The AKG Group develops and manufactures systems worldwide for use in the automotive, construction equipment, agricultural machinery and railway vehicle industry.



AT THE HEART OF THE DRIVE

AKG has for decades been a competent system partner in motor cooling for construction and agricultural machinery, as well as mining equipment, portable compressors and current generators.

For this task, compact high-performance cooling systems are manufactured working with the equipment manufacturers which, with up to 6 cooling circuits, can also process heat loss from other processes in these machines.



In addition, modules with radiators and charge air coolers are available both in standard design and as individually designed solutions for motor cooling in power packs and in gensets.

With increasing requirements due to ever stricter emissions regulations, there is now also a need for inner-motor solutions inside the drive center of these machines, the diesel motor, so that all of the factors that influence combustion can be optimized. Here the focus is more and more on turbocharging with water-cooled charge-air cooling.

AKG is developing together with leading motor manufacturers specially customized solutions that integrate directly into the infrastructure of the particular motor and that by reducing the charge-air temperature help to increase the oxygen quantity in the cylinder and thus to optimize combustion.

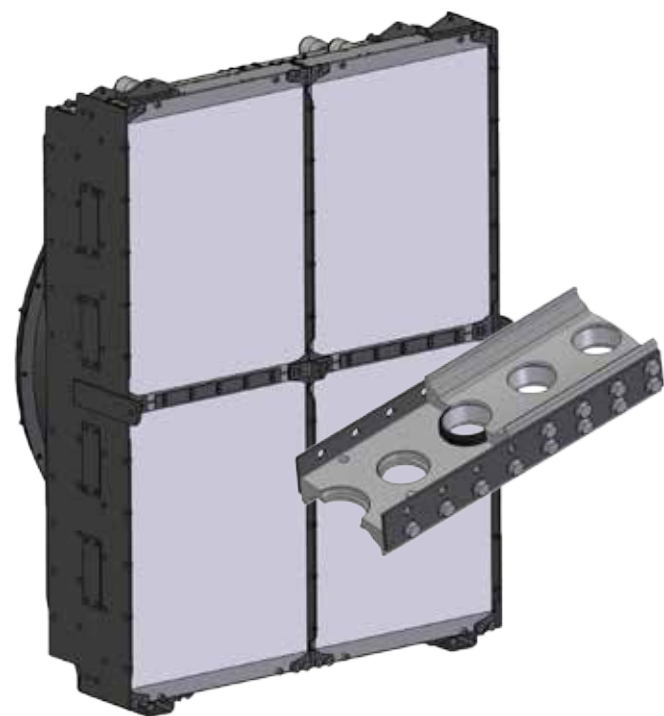
IN THE MINING INDUSTRY

Modular cooling systems for heavy duty applications



AKG designs and manufactures customized heat exchanger solutions worldwide for a wide range of applications and usage conditions, from wheel loaders to hydraulic excavators and dump trucks.

The special advantage of this modular solution is that the individual modules can be replaced in the machine in minimal time and that allows for shorter machine shutdown times.



OFF-ROAD AND AT THE WORK SITE

Cooling systems for construction equipment



Compact, high-performance cooling systems for the harshest conditions for construction equipment are particular strengths of AKG.

Decades of experience, cutting-edge design software and the latest measuring and testing technology allow perfectly adapted specialized solutions with optimal customer benefits.



AKG complete cooling system with

- radiator
- hydraulic oil cooler
- fan
- rotation direction reversing valve
- charge-air cooler
- shroud with protective grid
- hydraulic motor
- hoses

Speed-variable and reversible fan drive for

- free blowing the radiator block in dirty environments
- reducing fuel consumption
- compliance with current emission limits
- minimizing noise

Advantages of AKG cooling modules and systems

- system supplier for high-performance cooling systems
- integration of components in installation-ready modules
- reduction of development and assembly scope for our customers
- advantages through the reduction of costs, installation space and weight
- new ways to simplify assembly and logistics for our customers
- complete responsibility for modules and systems
 - technology competence
 - service orientation
 - handling of the entire value chain
 - fulfillment of all technical specifications
- competence and resources
 - design and simulations software
 - extensive testing equipment and cutting-edge measurement technology
 - advanced project management (APQP)

The AKG Group presence worldwide!



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