

Cooling Modules and Cooling Systems for Agricultural and Forestry Machinery

AKG is the best development and supply partner for efficient cooling solutions. The AKG group of companies utilizes global resources to develop and manufacture custom engineered cooling systems for agricultural and forestry machinery.



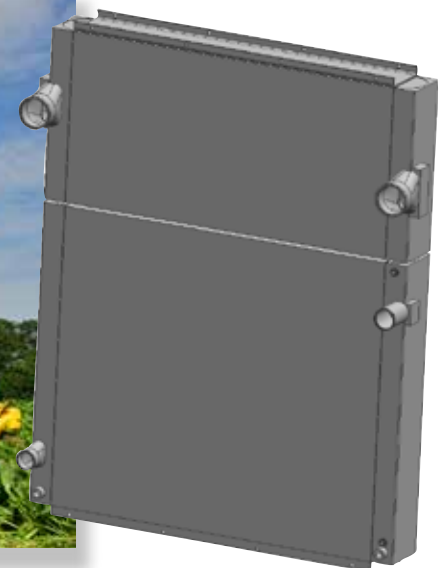
Field Harvester



Smoothly functioning harvesters yield highly efficient harvesting performance.

AKG cooling systems provide cooling air fins with high specific cooling capacity and resistance to clogging from contamination. The custom engineered **AKG cooling systems** are characterized by high performance, optimized weight and Tier 4 compatibility.

Harvesting



Unfavorable weather and soil conditions are often key factors in beet and potato harvesting.

AKG offers optimized **cooling systems and components** for these applications. High specific cooling capacity, resistance to clogging and high mechanical durability offer the best conditions for trouble-free use in the field.

Forest Machinery



Compact **AKG cooling system** consisting of Charge Air Cooler, Radiator and Hydraulic Oil Cooler in “Side-by-Side” arrangement.

Low-noise and debris resistant cooling air fins ensure optimum cooling even under difficult conditions.

Reduced fuel consumption by optimizing design of charge air cooler, radiator and hydraulic oil cooler to insure balanced heat management.

Crop Protection Sprayer



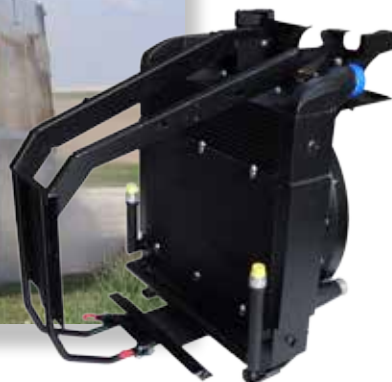
Ready-to-install **AKG cooling systems** provide for the ideal custom Cooling.

Sickle fans available for low noise applications.

Cooling airfins that are resistant to clogging are available.

System is custom engineered to balance thermal management and reduce fuel consumption.

Tractors






Custom engineered, weight optimized solutions are ready for installation.

Cooling systems are optimized to balance heat rejection while reducing fuel consumption.

AKG offers „Side-by-Side“ cooling systems and utilize airfins with a low susceptibility to clogging.

Airfins are made from thicker material to endure pressure washing.

Foundation Design

Aluminium Plate	Tub Fin Radiator (TFR)	Charge Air Cooler(CAC 3)
 <ul style="list-style-type: none"> • Highly flexible dimension • Versatile • High cooling capacity • High pressure resistance • Long lifetime • Clogging resistant • Cost efficient 	 <ul style="list-style-type: none"> • One to six rows of tubes • Header tanks made of Aluminium • High cooling capacity • Cost efficient 	 <ul style="list-style-type: none"> • One to two rows of tubes • Header tanks made of Aluminium • High cooling capacity • Cost efficient

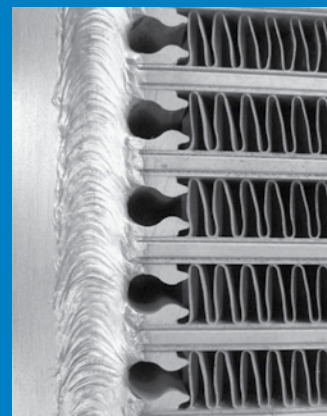
Cooling Air Fins & AKG Hollow Profile



- Strong
- Resistant to clogging
- Easy to clean / maintain
- High Efficiency
- Durable



Flexible AKG Hollow Profile



In many coolers AKG uses hollow profiles to reduce local peak strains. This way the strength of heat exchangers is significantly increased and their service life time considerably prolonged.

AKG Hollow Profile Features

- **Reduced Strain:**
Strength calculations show that when using AKG hollow profiles maximum strain is reduced by a factor of 2
- **Prolonged Service Life Time:**
Extensive rig tests have shown that the service life time increases by a factor ranging from 3 to 5

Customer Benefits

AKG has the right solution for each cooling application!

- ✓ High specific cooling capacity
- ✓ Innovative cooling designs
- ✓ Weight optimized cooling systems
- ✓ High reliability
- ✓ Proven durability
- ✓ Custom project engineering
- ✓ Coolers made of aluminium (fixed aluminium spelling)
- ✓ Low noise emission
- ✓ High Reliability
- ✓ Easy to maintain
- ✓ Resistance to plugging with debris

Development Competence

Effective
Thermal
Design

Strength
calculation

Wind tunnel for
performance
measurements

Vibration
test

Fluid
Dynamics

Thermo-
graphy



**AKG - A STRONG GLOBALLY INTEGRATED
GROUP OF COMPANIES**



**AKG Thermotechnik International
GmbH & Co. KG**

Am Hohlen Weg 31
34369 Hofgeismar • Germany
Phone + 49 5671 - 8 83-0
Fax + 49 5671 - 35 82
e-Mail info@akg-group.com
Internet www.akg-group.com

Autokühler GmbH & Co. KG

P.O. Box 13 46
34363 Hofgeismar • Germany
Phone + 49 5671 - 8 83-0
Fax + 49 5671 - 35 82

AKG Thermotechnik GmbH & Co. KG

Steinmühlenweg 3
34369 Hofgeismar • Germany
Phone + 49 5671 - 8 83-0
Fax + 49 5671 - 31 98

AKG Thermotechnik GmbH & Co. KG

Hans-Böckler-Straße 1a
37170 Uslar • Germany
Phone + 49 5571 - 92 46-0
Fax + 49 5571 - 92 46 19

AKG Thermotechnik GmbH & Co. KG

Bookenburgweg 1
44319 Dortmund • Germany
Phone + 49 231 - 9 21 55-0
Fax + 49 231 - 9 21 55 29

AKG France S.A.S.

Parc Industriel Sud
ZI Rémy 4
Rue des Frères Rémy – BP 20416
57204 Sarreguemines • France
Phone + 33 3 - 87 95 11 11
Fax + 33 3 - 87 95 50 05

AKG UK Limited

St Hilary Court
Cophorne Way
Cardiff-CF5 6ES • UK
Phone + 44 1443 - 67 33 55
Fax + 44 1443 - 67 37 73

SIA AKG Thermotechnik Lettland

Aviacijas iela 34
3004 Jelgava • Latvia
Phone + 371 630 - 1 22 00
Fax + 371 630 - 1 22 09

**AKG Termoteknik Sistemler San. ve
Tic. Ltd. Şti.**

Kemalpaşa OSB Mahallesi
40 Sokak No:6 Ulucak
35730 Kemalpaşa, Izmir • Turkey
Phone + 90 232 - 8 77 21 99
Fax + 90 232 - 8 77 00 42

AKG do Brasil

Alameda Armênio Gomes, 105
Bairro Parque das Rodovias.
Lorena, SP • Brasil CEP 12.605-470
Phone +55 12 3152 - 3557

AKG of America, Inc.

**AKG North American Operations, Inc.,
Werk Mebane**
7315 Oakwood Street Extension, P.O. Box 370
Mebane, NC 27302-0370 • USA
Phone + 1 919 - 5 63 42 86
Fax + 1 919 - 5 63 60 60

AKG Thermal Systems, Inc.

809 Mattress Factory Road, P.O. Box 189
Mebane, NC 27302-0189 • USA
Phone + 1 919 - 5 63 48 71
Fax + 1 919 - 5 63 49 17

AKG North American Operations, Inc.,

Werk Mitchell
925 West Quince Street
P.O. Box 640
Mitchell, SD 57301 • USA
Phone + 1 605 - 9 96 57 00
Fax + 1 605 - 9 96 81 06

AKG Thermal Systems (Taicang) Co., Ltd.

No. 100 East Beijing Rd,
Taicang Economic Development Zone
215400 Taicang, Jiangsu Province • China
Phone + 86 512 - 5356 94 18
Fax + 86 512 - 5356 94 11

AKG Japan Ltd.

NISSO 13 Bldg. 4F.
Shinyokohama 2-5-1,
Kouhoku-ku, Yokohama city,
222-0033 • Japan
Phone + 81 45 - 4 70 54 22
Fax + 81 45 - 4 72 54 02

AKG India Private Ltd.

7/294, Pollachi Main Road, Village -
Solvampalayam, Kinathukadavu,
Coimbatore, Tamil Nadu - 642 109 • India
Phone + 91 422 - 665 1100
Fax + 91 422 - 665 1121

AKG Korea Ltd.

Suite 1903, Halla Sigma Valley
Gasam-dong 345-90 Geumchun-gu
153-706 Seoul • South Korea
Phone + 82 263 43 63 80
Fax + 82 263 43 63 85