

# COOLING SYSTEMS

STAY COOL. PERFORM BETTER.

PERFORMANCE EXCELLENCE IN COOLING  
AT THE HIGHEST LEVEL



## OUR COMPANY

Pankl Cooling Systems is your specialist for small series and customized high-performance applications.

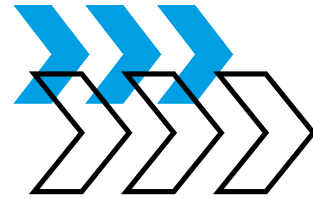
## OUR IDENTITY

Pankl Cooling Systems specializes in the development and manufacturing of water & oil coolers as well as heat exchangers for automotive and motorcycle applications.

## HIGH TECH, HIGH SPEED, HIGH QUALITY

We develop and manufacture market-leading technical systems. We strive to be the fastest in every aspect of our business.

We believe that quality demands perfection down to the last detail.



Our 90 employees bring an average of **9 years' experience** – expertise you can rely on.

Complete **in-house development** and testing.

**Flexible solutions** tailored to customer needs.

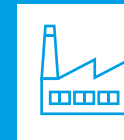
**In-house CAB brazing** ensures strong and precise aluminum connections.

**Materials:** Al alloys 3000 / 6000 / 7000 series with 4343 and 4045 cladding.

**Craftsmanship and flexibility** define our manufactory-style production.



## FACTSHEET



### Our Plant

9.800 m<sup>2</sup> Building in Dalian – China  
90 Employees  
10 m€ Turnover



### High-End Machinery

European quality standards  
Highly flexible manufacturing



### Austrian R&D Know-How

Design, CFD Simulation and broad testing capabilities



### A member of the Pankl Group

European and Chinese experts work hand in hand as one integrated team



## OUR MANUFACTURING

Maximum flexibility without compromising on quality – that's our standard.



### Single-Parts Production

Cleaning & Fluxing  
Turbulence & Fin production  
Pre-Assembly



### Brazing

High-end CAB brazing, fully automated – by SECO/WARWICK



### Core-Building

Manual assembly of cores and tanks ensures both flexibility and quality



### Final-Assembly

100% geometry and leakage testing  
Optional additional painting  
100% visual inspection before packing



## OUR PRODUCTS

### WATER COOLERS

Aluminum CAB-Soldered Radiator

#### Technical Specifications

Core Thickness: 22 / 23 / 32 / 45 / 54 / 60 mm

Fin Heights: 5 / 6 / 8 / 10 mm

Core Width: 59.6 – 732 mm

Core Length: up to 900 mm

#### Applications

Motorcycle & Automotive for Onroad, Offroad & Racing

#### Design Features

Core shapes: Rectangular, Trapezoidal, Straight or Curved

Tube system: One- or two-row

Surface finish: Raw, Black or Silver powder-coated



### OIL COOLERS

Aluminum Tube-Oil and Shell-Oil Cooler

#### Technical Specifications

Core Thickness: 30 / 32 / 45 mm

Fin Heights: 7.47 / 10 mm

Core Width: 42 – 176.9 mm

Core Length: up to 750 mm

#### Applications

Motorcycle & Automotive for Onroad, Offroad & Racing

#### Design Features

Core shapes: Rectangular, Trapezoidal, Straight, or Curved

Tube system: One- or two-row

Surface finish: Raw or Black powder-coated



### HEAT EXCHANGERS

Aluminum Heat Exchangers

#### Technical Specifications

Core Thickness: 38 / 48.8/ 59.6/ 92.3 mm

Turbulator Heights: 2.2 mm

Core Width: 51/ 62/ 96 mm

Core Length: 75/ 94/ 155 mm

#### Applications

Motorcycle & Automotive for Onroad, Offroad & Racing

#### Design Features

Core shapes: Rectangular

Tube system: Bowl

Surface finish: Raw or Black powder-coated





## PASSION FOR COOLING PERFORMANCE

Our competence in cooler (radiator) manufacturing technology has been developed over the last 35 years and we develop and produce performance-defining coolers for the motorcycle- and power sports industry.

## OUR CUSTOMERS

Our high-performance solutions are used by leading OEMs and motorsport customers worldwide.

## DESIGN & DEVELOPMENT

Advanced Austrian know-how and proven experience in product development and optimization



### CFD Simulation

Flow Uniformity  
Pressure Drop  
Heat Transfer



### Prototypes & Testing

Performance is tested on our bench using multiple sensors and a customer-specific test matrix (ETD, flow rates, pressure drops)



### Design & Construction

3D designs based on performance, space, and customer specs – adapted to our standards for customized solutions.

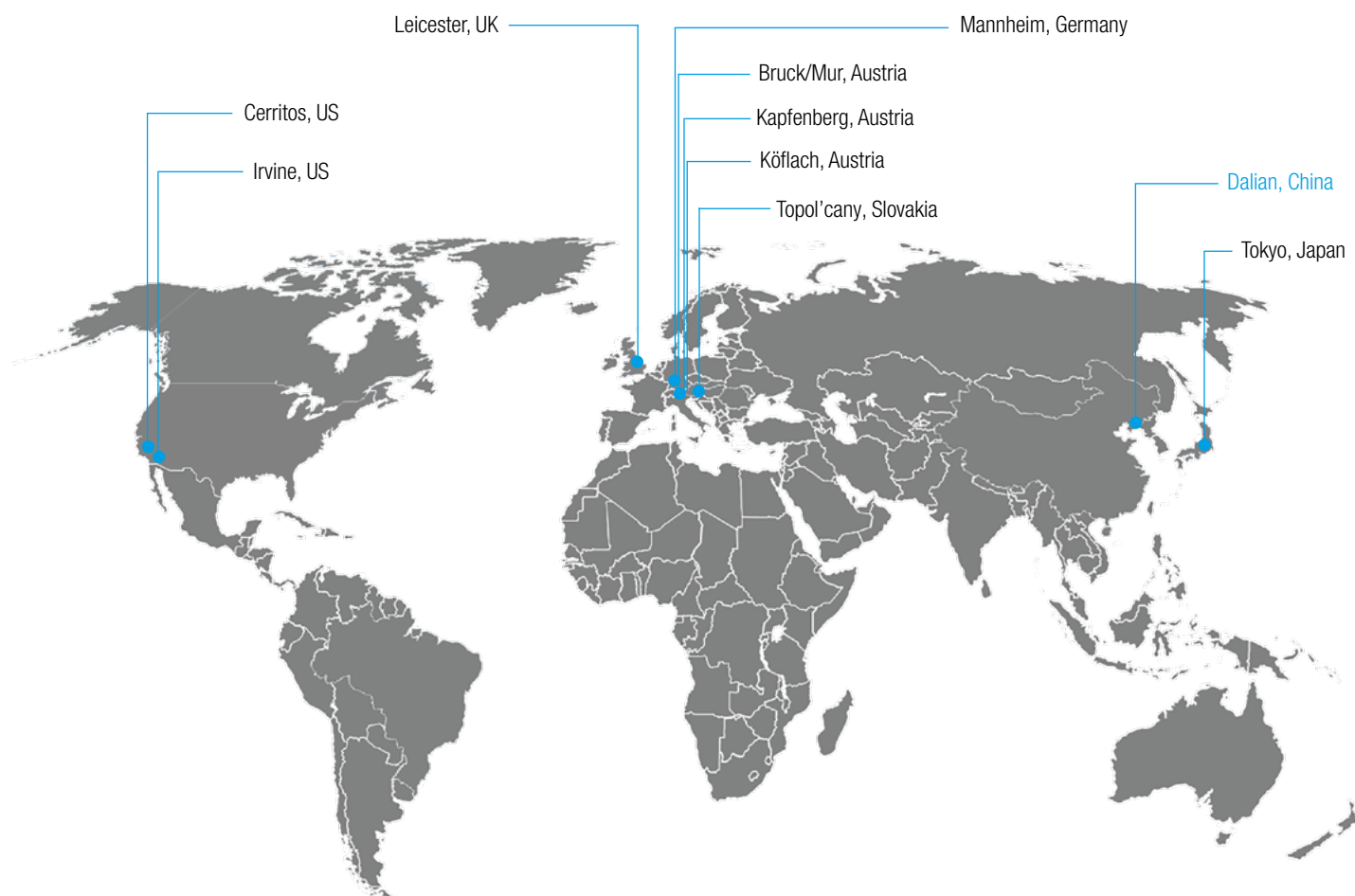


During the entire development phase of every single component, the Pankl design engineers are faced with the challenge of putting together highly different, sometimes even contradicting requirements to form a coherent concept.

The ongoing dialogue between the design, testing and simulation departments and the regular exchange with customers are essential prerequisites for developing effective solutions that live up to customer-specific guidelines and comply with all applicable legal requirements.

Customers have a defined contact partner at their disposal from the start of a project, throughout the development process and all the way to the finished product; this contact person is in charge of the whole customer project and is supported by a team of experts. The result: direct, efficient project management for their benefit!

## PANKL LOCATIONS



A Member of the Pankl Group

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