



# Cold forging heat sinks

**Powerful, versatile, economical**

The cold forging process enables the economical production of high-performance pin and fin heat sinks with complex geometries in a single process. There are almost no creative limits to the design. Subsequent mechanical processing is only required in rare cases because of the high surface quality achieved through extrusion. The heat sinks can be anodised, if necessary.

The starting material for cold forging heat sinks is usually pure aluminium (Al1050/Al1070). In exceptional cases, pure copper (CU1100/CU1020) may also be used. Cooling of high-power LEDs is a typical application.

More infos:



## The advantages of cold extruded heat sinks from CTX:

- Extremely homogeneous and dense material structure
- Heat sink thermal conductivity higher than the base material
- High cooling capacity due to three dimensional air flows
- High dimensional accuracy and surface quality without needing reworking
- Wide range of desing possible
- Ideally suited for project-specific series from approx. 500 pieces upwards
- Can be combined with heatpipes



Individual



Reliable



High-performance

# KEEP IT COOL

## Expert thermal management for your electronics

More infos:



CTX is specialised in perfectly fitting active and passive cooling solutions for electronics for more than 25 years. We implement application-specific cooling units and cooling electronics housings for our customers from almost every field of industry. Our wide product range makes us to one of the leading suppliers in Europe.

We support you from the initial idea to series production when you implement your cooling solution. In the process, we draw on a vast range of manufacturing techniques together with an exceptionally broad supplier base.

Our products are supplied to consignment warehouses and security storages worldwide, using ecologically worthwhile ways of land, sea and air transport. This enables us to guarantee maximum flexibility, quality and delivery reliability at all times.



### Application-specific cooling solutions

Our product portfolio includes profile, high-performance, and liquid heat sinks as well as LED and PCB heat sinks, heatpipe solutions and cooling solutions for embedded systems and industrial computers.



### Enclosure technology

Our enclosure solutions include profile and die-cast enclosures as well as enclosures manufactured using stamping and bending technology. Our product range also includes front panels, technical aluminium parts as well as sheet metal, stamped and bent parts.



### Rotary knobs

In addition to general heat sink accessories, we also distribute more than 6,000 different rotary, special and recessed rotary knobs from the Swiss brand Ritel.