



Thermal Grizzly Ryzen 7000 Delid-Die-Mate

\$69.95

Product Images



Short Description

The Ryzen 7000 Delid-Die-Mate is a tool for removing the heatspreader ("head", "delidden") on AMD Ryzen 7000 processors.

Description

The Ryzen 7000 Delid-Die-Mate is a tool for removing the heatspreader ("head", "delidden") on AMD Ryzen 7000 processors. By removing the heat spreader, the CPUs can be cooled via "Direct Die", for example. With the so-called "direct die", the CPU cooler is mounted directly on the CPU dies and the I/O die of the processor. By omitting the heat spreader in the cooling circuit, a significantly optimized heat transfer from the die to the CPU cooler is possible.

Features

- Compatible with Ryzen 7000 CPUs
- delidding tool
- Made from aluminum

Why "Delidding" & Direct Die method on Ryzen 7000? During delidding, or "heading", the processor's heat spreader is removed. For unsoldered processors, delidden is typically used to replace the thermal interface (TIM) between the CPU die and heatspreader with high-quality thermal compound or liquid metal before the heatspreader is reassembled. However, since the Ryzen 7000 processors are soldered, this is not an option as removing the indium solder would create too large a gap between the IHS and CPU dies.

Therefore, the Ryzen 7000 CPUs are primarily delidded for a possible installation of the CPU cooler directly on the CPU dies. In the case of Ryzen 7000 CPUs, this would be the I/O die (IOD) and one or two CPU dies (CCDs), so-called "chiplets". Experience has shown that by leaving out the heatspreader and mounting the CPU cooler directly on the die, the temperatures can be reduced by 10-20°C if liquid metal such as Conductonaut is used as a TIM. Corresponding tests were carried out by the content creators and tech YouTubers Roman "der8auer" Hartung, a professional overclocker and engineer, and Jason "JayzTwoCents" Langevin.

These enormous temperature improvements through Direct Die are also due to the heat spreader of the Ryzen 7000 processors. The heat spreaders for the AM5 platform introduced with Ryzen 7000 are thicker than older heat spreaders such as AM4. This was done to make older AM4 compatible CPU coolers compatible with the AM5 platform as well. In addition, the surface of the Ryzen 7000 heat spreader is significantly smaller at around 910 mm² compared to AM4 at 1,300 mm².

Caution: Removing the heatspreader ("heading", "delidden") of a processor is at your own risk! The manufacturer's warranty expires when the CPU is decapitated! Damage caused by cutting the CPU is not covered by the manufacturer's warranty!

Specifications

Technical Details:

- Dimensions: 70 x 70 x 60 mm
- Type: CPU Heat Spreader Remover
- Material: Aluminium

- Colour: Anodised Black (laser engraved with the der8auer logo)
- Compatible with all Intel Ivy Bridge, Haswell, Devil's Canyon, Broadwell, Skylake and Kaby Lake Socket 115x (so no "-E" versions) Desktop Processors
- Bundle:
 - 1x Delid Die Mate 2 (three components)
 - 1x Allen Key
 - 1x Allen Screw

*** Important Warning! ***

The removal of the CPU heat spreader is performed at your own risk and always results in the complete invalidation of the manufacturer's guarantee and warranty

Compatibility Information: Without the integrated heat spreader the mounting height of the CPU cooler decreases slightly and, because of this, coolers with fixed mounting heights can no longer be mounted. For this reason please be sure to check prior to installation whether the selected cooler can also be set to a lower mounting height.

Additional Information

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|----------------|-------------------|
| Brand | Thermal Grizzly |
| SKU | TG-DDM-R7000-R |
| Weight | 1.5000 |
| Color | Black/Red |
| Tool Type | Technicians Tools |
| Material | Aluminum |
| Vendor SKU/EAN | 4260711990700 |

