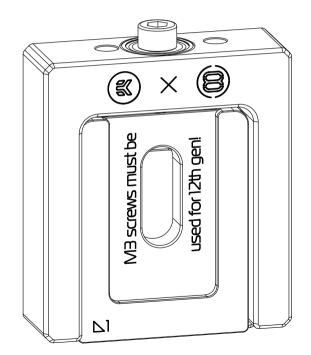
EK-Quantum Velocity² IHS Removal Tool – 1700







Please note the installation of the product is intended to be undertaken by an adequately trained and experienced professional. If you are not properly trained or experienced or feel unsure about the installation procedure, please refrain from installing the product yourself and contact our tech support for assistance. You are installing the product at your own risk.

Before you start using this product, please follow these basic guidelines:

Please carefully read the manual before beginning the installation process.

Failure to follow the instructions may lead to permanent damage of your CPU for which EK is not responsible.

Delidding entails a very risky modification of the CPU and may, even if properly performed, result in damage to the processing unit.

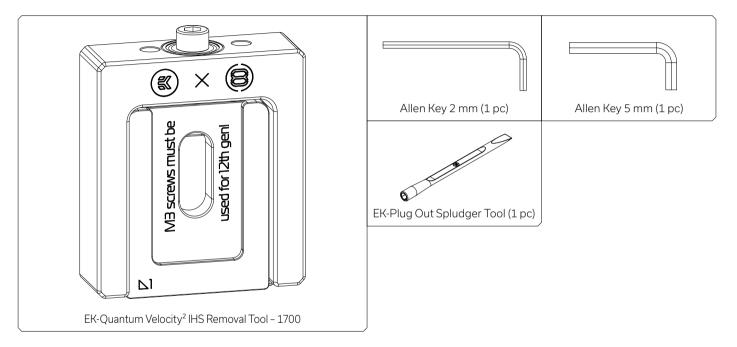
Delidding a CPU voids Intel warranty.

We disclaim all our liability for any damages to the product or the CPU as well as incidental, consequential, or indirect damages incurred during or as a consequence of delidding.

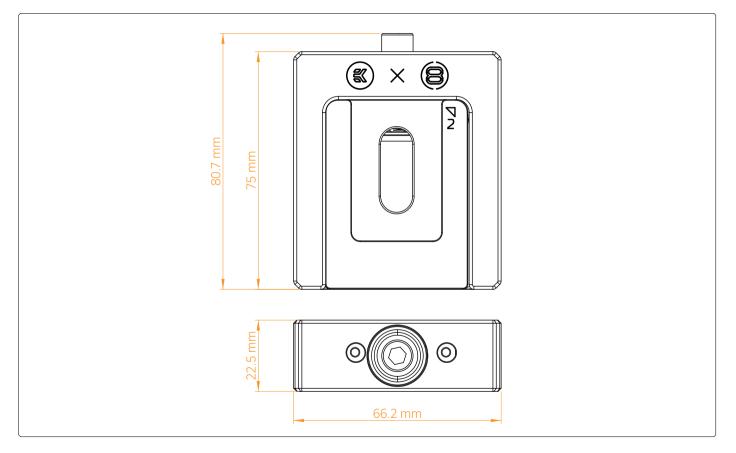
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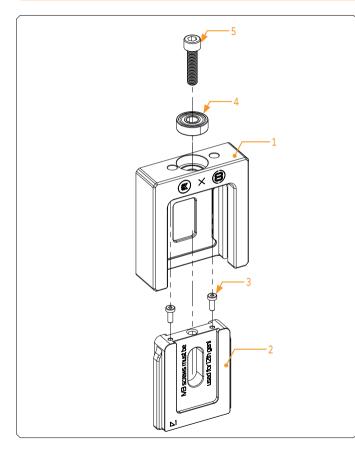




IHS REMOVAL TOOL DIMENSIONS



TECHNICAL SPECIFICATIONS AND IHS REMOVAL TOOL PARTS



Technical Specification:

- Dimensions (L x H x W): 66.2 x 82.6 x 22.5 mm

Position	EAN	Description	Quantity
1	106183	IHS Removal Tool Base	1
2	106185	IHS Removal Tool Slider	1
3	9014	Screw M3x8 DIN7984	2
4	106255	Ball Bearing	1
5	106192	Screw M6X25 912DIN	1

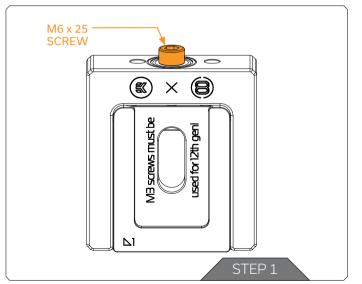


Your Velocity² IHS Removal Tool – 1700 has been specially designed tool for delidding 12th, 13th and 14th generation Intel CPU's only.



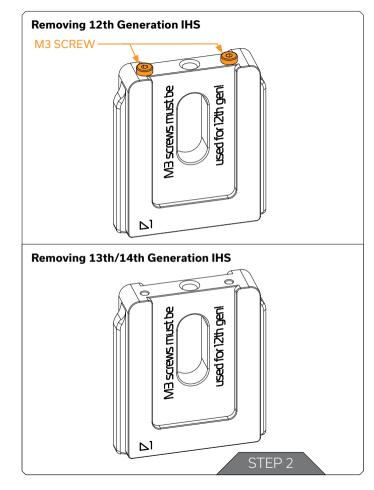
For more information, you can also watch the video: https://www.youtube.com/watch?v=IRgpVDwQ9hw

PUTTING INTO OPERATION



STEP 1

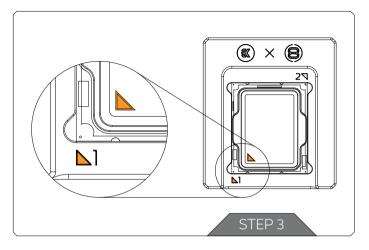
Remove the M6 screw and the slider from the base.

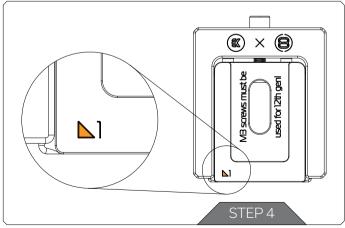




When removing the IHS from 12th generation Intel CPU's ensure that the two M3 screws are installed in the slider as shown! Failure to do so may cause the indium sheet to collide with SMD's that are underneath the IHS.

For 13th/14th generation Intel CPU's the two screws may be removed to enable greater movement of the slider and IHS making the process faster.





Place the CPU inside the tool with the triangle corresponding to position 1.

STEP 4

Insert the slider over the CPU ensuring that the position 1 triangle is facing upwards and corresponds with the location of the triangle on the CPU. Insert the M6 screw and tighten the slider against the IHS until the tool is under tension.



Failure to do so will cause the IHS to collide with SMD's on the outside of the CPU PCB.

Before starting delliding the CPU, EK recommends the use of an oven for easier further steps.

Heat up the oven to 70° C / 158° F and put in the assembled IHS removal tool with the CPU inside. The SLIDER and CPU must be placed in POSITION 1.



DO NOT USE THE MICROWAVE TO HEAT THE PRODUCT.



For more information, you can also watch the video: https://www.youtube.com/watch?v=IRgpVDwQ9hw

STEP 6

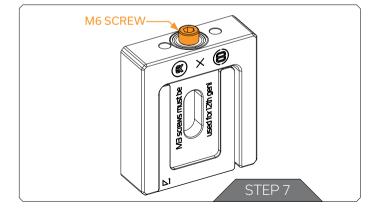
After approximately 30 minutes, shut down the oven and take the assembly out.

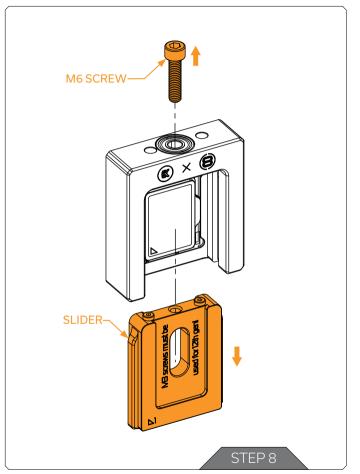


Make sure to wear safety gloves or similar tools which prevent heat from touching the skin.

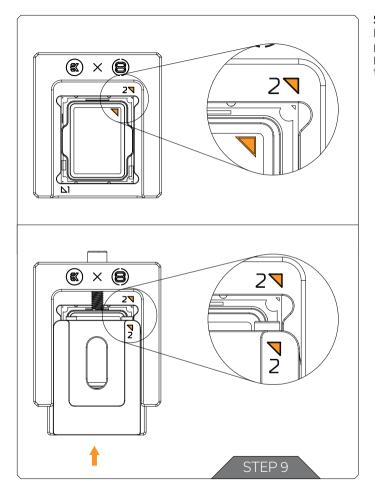
STEP 7

Hold the IHS Removal tool with CPU and fully tighten the M6 Screw using Allen Key 5 mm. In this step, the CPU DIE should move away from the original position.

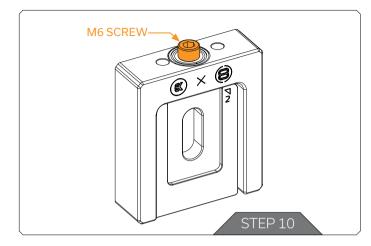


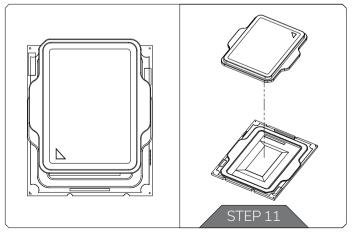


Remove the M6 screw and the slider from the base.



Rotate the CPU by 180° so that the triangle corresponds to position 2. Re-insert the slider over the CPU ensuring that the position 2 triangle is now facing upwards and corresponds with the position of the triangle on the CPU.





Use the provided 5mm allen key to tighten the M6 screw, significant force will be required. The slider will return the IHS all the way back to its original position irrespective of the M3 screws being installed or not.



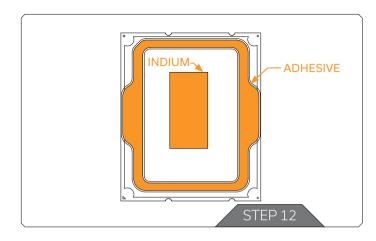
Before using the Allen Key, place the M6 screw into the slider and tighten it manually.

STEP 11

Repeat steps 3-8 until very little force is required to move the IHS, this may take 3-5 repetitions before the IHS is loose enough to be removed by hand. It may be helpful to use dental floss to cut the glue under the IHS. If necessary, gently use the spudger tool to pry the IHS away from the PCB.



The position of the slider must always correspond to the position of the CPU!



Use a blunt plastic object such as the provided EK spudger tool to remove all traces of adhesive from the perimeter of the CPU PCB, take exceptional care around the SMD's.

Then use the blunt plastic object to remove thick pieces of indium from the CPU die.

For this step, you will need:



STEP 13

Liquid metal such as Thermal Grizzly Conductonaut is supplied with all EK Direct Die products, it can be used to remove thin traces of indium from the CPU die. First, apply the liquid metal over the indium and wait for it to form an alloy. When the indium has been absorbed use a firm Q-tip to remove the alloy, alcohol can be used to help attract the alloy onto the Q-Tip. Repeat until all contaminants have been removed from the die.

SUPPORT AND SERVICE

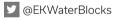
In case you need assistance or wish to order spare parts, please contact: https://www.ekwb.com/customer-support/

For spare parts orders, refer to the page with "TECHNICAL SPECIFICATIONS AND IHS REMOVAL TOOL PARTS" where you can find the EAN number of each part you might need.

Include the EAN number with quantity in your request.



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