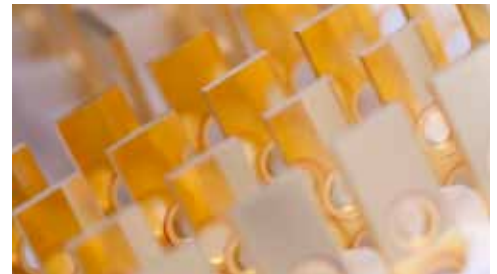


The curamik laser diode cooler consists of several structured pure copper layers. These layers form a three dimensional cooler for high power laser diodes. The structure of each layer can be designed to meet customer specific requirements.

Multiple layers can be put together to a single structure through the curamik bonding process. The advantage of this process is that there is no negative influence on the thermal resistance compared to soldered, brazed or glued copper layers, where the thermal performance is decreased.

The top and front surface of the cooler can be diamond-milled to get the best possible flatness for soldering the laser diode onto the cooler.

curamik laser diode coolers are used with high power laser diodes in the range of 20 to more than 100 W. Applications for these coolers are laser diode stacks which are used in diode pumped lasers or diode lasers for industrial, medical and research applications.



Pressure Drop / Thermal Resistance (example)

