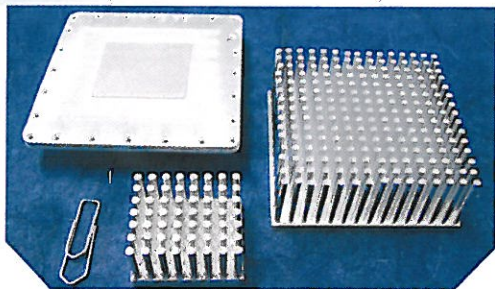
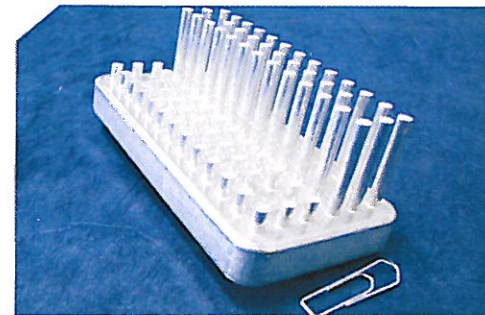
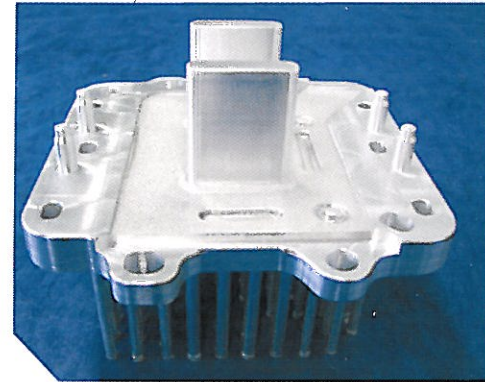


IMPACT EXTRUDED HEAT SINKS MADE OF PURE ALUMINIUM 99,5 %

MATERIAL	Al 99,5 % DIN EN 1050 A
THERMAL CONDUCTIVITY	220 – 230 W/mK
THERMAL EXP. COEFFICIENT	23,8 10^{-6} 1/K (betw.O..100°C)
MATERIAL DENSITY	2,70 kg/m ³
BASE FOOTPRINT	Circular, rectangular, triangle, other
PIN SHAPE	Circular, angular, elliptical
SURFACE ROUGHNESS	Milled < Rz 3, unmilled Rz 8 – Rz 20
FLATNESS	0,05 – 0,3 mm
BASE THICKNESS	2 – 12 mm
PIN LENGTH	> 4 – 100 mm
PIN DIAMETER	1,5 – 10 mm
SURFACES	Natural Aluminium, anodized, stained

**NEUMAN ALUMINIUM Fließpresswerk GmbH**

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ADVANTAGES

- Especially suitable for powerful electronic components in confined installation spaces
- Higher thermal conductivity value than die-casted (AlSi9Cu3: 130 – 150 W/mK) or direct extruded heat sinks (AlMgSi0.5: 180 – 200 W/mK)
- Cavity-free material structure in thermal flow direction
- Maximized heat-emitting surfaces
- Largest single-piece base area approx. 125 x 125 mm, smallest approx. 8 x 8 mm
- Larger dimensions feasible for combination of impact extrusion/direct extrusion or as pure direct extrusion solution
- No draft angles necessary on the pins
- Production lots of approx. 10,000 to several million pieces possible
- Lower tooling costs than with die-casting alternatives
- In-house machining available for customized solutions
- Other materials possible depending on design