

Maximum Precision for Cut Parts

The new LPKF PowerCut 6080 laser cutting system offers performance and efficiency for the manufacturing of precision parts made of sheet metal with a thickness of up to 4 mm – with a precision known from SMT stencil fabrication.

The noncontact precision laser cutting process provides a low-cost alternative to classic punching processes and other cutting processes for low and medium volumes. High contour precision with extremely small radii, optimally sharp edges, smooth and clean surfaces, and steep cut walls characterize laser cutting with the LPKF PowerCut 6080. Contour changes can be realized quickly, easily, and cheaply. If necessary, SMT stencils with stencil plate thicknesses of 80 µm and higher can also be produced with the PowerCut 6080.

Steels of different alloys are suitable as materials. Nonferrous and noble metals can also be machined very economically. Depending on the type of metal, the material should have a thickness of 0.08 to 4 millimeters.

The tolerances lie in the range of a thousandth of a millimeter. The cut width and the heat-affected zone are much narrower than in other cutting processes, leading to much more precise results.

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Fig.: Cut parts made of various metals and alloys with nearly any contours can be made with the LPKF PowerCut precision laser system.

About LPKF

LPKF Laser & Electronics AG manufactures machines and laser systems used in electronics fabrication, medical technology, the automotive sector, and the production of solar cells. Around 20 percent of the workforce is engaged in research and development.