

LASER MICROMACHINING FOR MICRO AIR VEHICLES

MAV Application

Material

Kapton--wing
Polyimide--gear

Feature Size

Wing Length--8.5mm
Wing Thickness--0.08mm
Gear Diameter--15mm

Laser Type

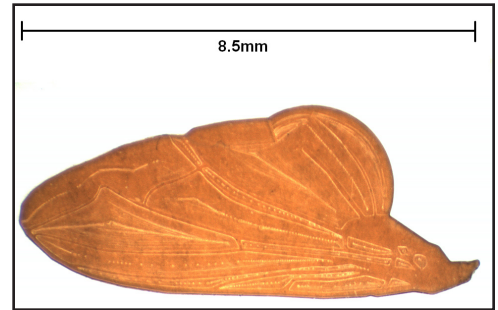
Nanosecond micromachining laser

Industry Applications

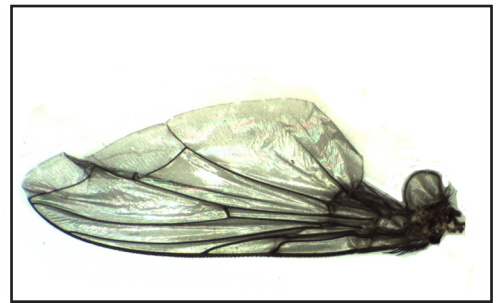
Miniaturization of Devices
MAVs
Medical Device Applications

Application Description

MLPC has developed a 3-D laser micromachining capability to fabricate small micro mechanical components and mimic structures, insect parts, and surfaces that occur in nature. The focus of the work is on micro air vehicle and medical device fabrication as well as other commercial, aerospace, and defense applications.



3-D Laser Micromachined
Kapton Fly Wing



Real Fly Wing Used to Replicate



15mm Micro Gear

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