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femtosecond laser A type of ultrafast laser that creates a minimal amount of heat-affected zones by having a pulse duration below the picosecond level,

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In the more than two decades since a team of researchers from the Center for Ultrafast Optical Science at the University of Michigan first demonstrated the use of a femtosecond

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femtosecond laser micromachining to
transparent materials. To provide
vertically cross the cavity to allow liquid
to flow in. The refractive index
sensitivity obtained is ~ 994 nm/RIU
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relies on tightly focused, ultrashort laser pulses to locally modify material properties through nonlinear absorption, and is finding applications in the field of vision correction.

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Laser micromachining application.
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equivalent laser safety enclosure and
controlled through advanced SCA
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Laser micromachining is the use of lasers for cutting, drilling, welding, or to make other material modifications to achieve features on the single or double-digit micrometer level. Laser machining can be done in three ways: direct writing, mask projection, and interference. Direct writing is done by

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**Ultrafast laser for micromachining -
NKT Photonics**

Our review on the processing of
diamond with femtosecond laser pulses
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paper in Advanced Photonics on May
2019 June 20, 2019
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Workshop of Photonics - Laser Micromachining Solutions

In this paper, we demonstrate a new way to deliver the high energy femtosecond laser with Kagome-type hollow core photonic crystal fiber for

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Femtosecond lasers enable high precision processing without any heat effect on the material. Despite the pristine quality they deliver, ultrashort

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pulsed micromachining often have the reputation of being “too slow” and therefore are not cost effective for industrial-grade applications.

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change a material's properties, and can
be applied to both absorptive and
transparent substances. Over the past
decade,...

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transparent material is a powerful and versatile technology. In fact, it can be applied to several materials. It is a maskless technology that allows rapid device prototyping, has intrinsic three-dimensional capabilities and can produce both photonic and microfluidic devices.

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