Target Mounting Systems for Rep-Rated Lasers*

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General Atomics is developing the target fabrication and insertion capabilities required for a >100 TW rep-rated laser to be built at The Ohio State University. We will be assembling an integrated system that includes mass target production, separation and assembly onto carriers, rapid insertion and precise alignment. We will describe target mounting methods we have investigated for holding the targets into the carriers at a repeatable position compared to fiducials in the carriers. The effect of handling the target carrier on the repeatability of the target location will be examined. Alignment of the target using the carrier fiducials will also be described.

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