AccuShaper® 2.0

Laser Mechanisms' AccuShaper® 2.0 is a robot end effector that trepans shaped holes of any form at up to four times the speed and twice the accuracy of conventional robot/head combinations – greatly reducing the cycle time of laser hole cutting and trimming operations. The AccuShaper® 2.0 provides a cutting solution similar to five axis machines at a fraction of the cost.

AccuShaper® 2.0 differs from conventional robot/head combinations in its ability to trepan while imparting minimal reactive forces to the robot producing higher accuracy features. Its novel Inertia-Cancelling motion system creates cut features up to 30 mm x 30 mm. Larger features and trim cuts can be trepanned using robot motion throughout its full envelope.

Laser Mechanisms' AccuShaper® 2.0 provides a cutting solution similar to five axis machines at a fraction of the cost.

Features

- Novel Inertia-Cancelling motion system for highest speed and accuracy trepanning
- Patented high-speed z-axis drive
- Capable of both X-Y trepanning and full robot motion envelope trimming
- Patented capacitive nozzle stand-off sensing
- Easily programmed with G-Code or internal shape library

Specifications

Clear Aperture	25 mm
Motion Travel (X-Y-Z axes)	30 mm x 30 mm x 17 mm
Trepanning Speed	200 mm/sec maximum
Path Accuracy	± 0.060 mm
Weight	~16.8 kg
Fiber Input	QBH (HLC-8, PIPA-Q)
Laser Power	4 kW maximum average

Specifications subject to change without notice.

Laser Mechanisms, Inc.
25325 Regency Drive
Novi, Michigan 48375
Phone: (248) 474-9480
Fax: (248) 474-9277

Laser Mechanisms Europe NV
Groenestaakstraat 59
B-9030 Mariakerke, Belgium
Phone: +32 (0)92 18 70 70
Fax: +32 (0)92 18 70 79

Internet
Web: www.lasermech.com
E-Mail: info@lasermech.com

© 2026 Laser Mechanisms, Inc.
Laser Mech® and AccuShaper® are registered trademarks of Laser Mechanisms, Inc.
June 2026