

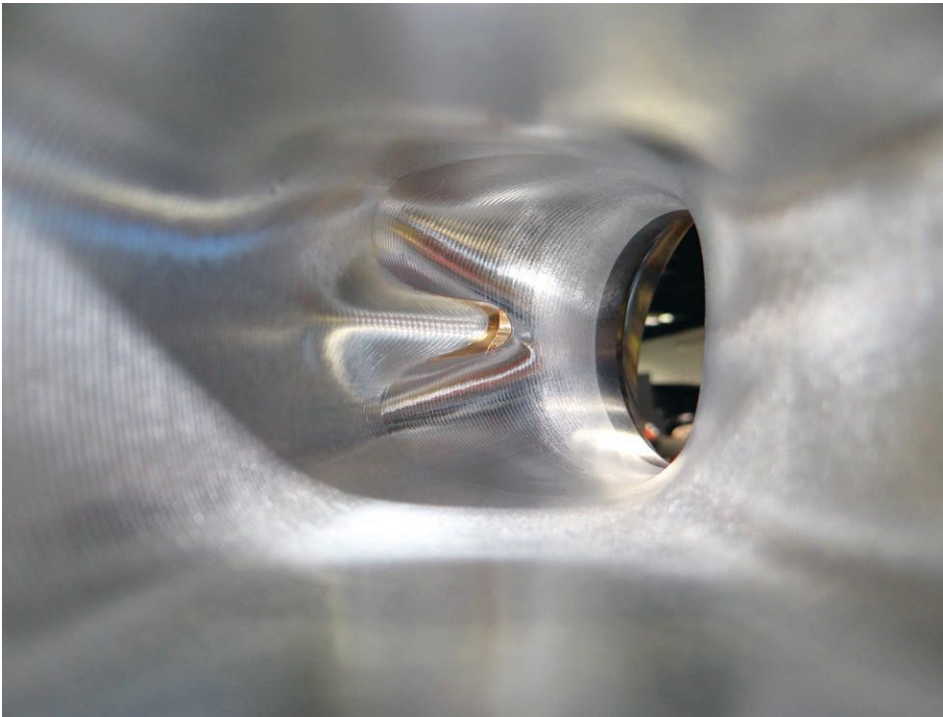
## 5-Axis Quad Fixture Allows Four Cylinder Heads to Be CNC Ported at the Same Time

Unveiled at the Performance Racing Industry show in Indianapolis, IN, the Quad Fixture cylinder head porting system from CENTROID Performance Racing makes it possible to CNC port up to two sets of cylinder heads (four

heads total) in one regular eight hour work day with no operator attendance.

The Quad Fixture is designed for high efficiency unattended production style CNC cylinder head porting. The

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## Four Cylinder Heads to Be CNC Ported

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CENTROID Quad Fixture reduces operator machine setup and tear down time. CNC porting the intake ports, exhaust ports and combustion chambers on four small block heads has a cycle time of around eight hours, so the operator can load the machine once in the morning and the machine runs continuously all day unattended. The operator can also mix and match head types and sizes. The Quad Fixture is an available option on the A560XL CNC machining center.

The CENTROID A560 is available in two sizes, regular and XL. The XL version is larger and has an increased work envelope for bigger diesel work and the CENTROID Quad Fixture. Both machines have similar features and are equipped with digitizing and part probing that is used to

copy 3-D or 2-D shapes which can then be modified and reproduced.

The machine itself can copy and blueprint cylinder heads and blocks, with no need for another machine or outside digitizing services. "Engine shops can now reproduce hand shaped combustion chambers, intake and exhaust ports on one machine," said a company spokesperson. The digitized shape can also be improved or modified if necessary. The shape is then reproduced on a new casting or billet. New ports and combustion chambers can also be created entirely on the computer, based on a stock casting geometry as well.

The probing feature is designed to reduce set-up time by automatically finding and setting part zero locations, increasing accuracy and decreasing set-up time. An automatic tool changer is also included on

both machines along with automatic tool height measurement. Tool lengths are measured automatically.

Equipped with a state-of-the-art CNC control the CENTROID M400 runs on the Windows 10 OS and comes standard with a color 15" touch screen display, USB ports and a high performance quad core proces-

sor and solid state hard drive.

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