FIXED-TURNING.

A World of Opportunities Zero Defect... 100% Perfection! A Technology for All!

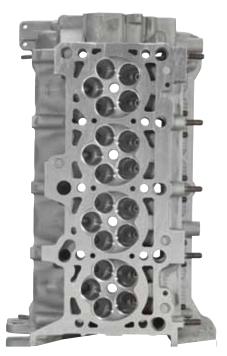


the new standard in valve seat machining™!



FIXED-TURNING®, a New Era,

Worldwide Patented Technology



Machining the most difficult cylinder heads is achieved within a few minutes only per valve seat for the longest profiles, specially made to enhance the output of the engine. The machining of a traditional "3-Angle" profile will be carried out within a few seconds.

Motorcycle cylinder heads, the smallest valve seats around and to come (downsizing, at the heart of all the new engine development programs) can be machined with utmost ease and the optimum precision of competition engines...





The NEWEN machines allow each engine rebuilder to position himself as a specialist in the machining of all types of engines. The precision that is achieved systematically when using FIXED-TURNING® machines applies to all the engine types, one no longer has to refuse to become involved in such or such machining on such or such cylinder head type, all the difficult machining operations become a source of additional and significant profits.



The high performance market, the mechanical leisure market, are within the reach of any engine rebuilder equipped with a FIXED-TURNING® machine.

All the precisions required in Formula 1 or any other demanding high performance mechanical sports can be attained automatically and systematically. Perfection is guaranteed.

High-Performance is a growing market, lucrative, the prestige of the high-level professional who gets involved in this specialty is reflected on his/her entire company.



Machine with precision all types of valve guides (cast irons, powdered metals, bronze, any allovs...).

Ream valve guides with

utmost precision, combined with valve seat machining, or alone as a separate operation.



accelerate the speed of gases.



Machine all high-precision valve seat counterbores with one same cutting tool.

To prepare valve seat housings in all types of cylinder heads, cast iron or aluminum, a precise and profitable job for all the FIXED-TURNING® professionals.





a New World of Opportunities...



To machine the seats of

valves, "it's child's play".

Mercedes Actros

decompressor

The COGENERATION, also known as "Combined Heat and Power (CHP)", the transformation of engines to natural gas and bio-fuels (ethanol) require rapid and precise machining operations of valve seat counter-bores and very hard valve seats.

The principles of cogeneration have long been known and put to use in a wide variety of applications.

Today, advances in ultra clean natural gas fired reciprocating engine technology, heat exchangers and system controls, make cogeneration both practical and economical for applications in varying size range.

One aspect of power production that has influenced these advances is the ever increasing need for cleaner energy. Emissions control strategies that allow natural gas fueled internal combustion engines to be applied for CHP & ICHM applications at levels equal to or less than current large power plant standards have further made Cogeneration more practical, economic and accessible for a broader range of commerical

and industrial applications.

FIXED-TURNING® is the ideal tool for these services which become easy, fast, precise and very profitable.





This type of result is threatening your future as a professional.

By integrating FIXED-TURNING®, an advanced numerically controlled technology, your company will transform itself and shall attain a higher level of success.

The precision of the numerical control must be demanded without delay. A one way street, no possible back-tracking.

The FIXED-TURNING® and its numerical control, it is the possibility to achieve the impossible in a profitable and repetitive fashion. **A technology for all.**



Opt for FIXED-TURNING® Perfection,

all the cam bucket

oversize dimension in

order to insert sleeves

in the housings is a

simple operation, precise and profitable with FIXED-TURNING®.

bore housings to

a technology for all and gain access to endless business opportunitites...

Your assurance of success!

KOMATSU Natural Gas Cylinder Head Valve Seat Hardness: 56/58HRC (573HB+ / 610HV50+) Cutter used: CNTR-FBN-1 • Cutting Speed: 180 m/min Machining Mode: Dry Cut • Cutting Cycle: 28 sec per seat Circularity: 1µ to 2.40µ • Surface Finish: 0.20Ra

FIXED-TURNING

the new standard in valve seat machining™

The **NEWEN** offer



NEWEN FIXED-TURNING®, your access to progress and development:

- A key piece of equipment, efficient, the source of new profits, a final investment.
- A training to modern conversational numerical techniques, the only positive answer to the good management of one's company.
- An immediate access to modern shop management in not to fall so far behind that it would be irretrievable. Like for any new phase in the life of a company, an early stepping into action ensures a harmonious and well assimilated development.





Contact

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FIXED-TURNING.

Who is best able to guaranty the 2011 OEM quality requirements on the following operations	NEWEN FIXED-TURNING⊚ machines		The best Form-Tool seat & guide machines in the market	
	YES	NO	YES	NO
Machine the hardest valve seats with a 100% guaranteed precision and, of course, chatter free				X
Machine round and concentric valve seats 100% of the time regardless of the material to machine	V			X
Machine round and concentric valve seats for a 100% seal regardless of the diameter of the seat ranging from 14 to 240mm (.55" to 9.45")	V			X
Machine perfectly round & square valve seat housings within a 0.005mm (.0002") circularity tolerance and perpendicularity of the resting face (OEM tolerance)	V			X
Machine valve guides with "H7" (OEM Tolerance) automatically				X
Carry out all the machining operations in automatic with depth tolerances within a few hundredths of mm regardless of the diameters of the valve seats and their hardness	V			X
Guaranty optimum quality with an operator who only has a few days of training				X
Guaranty the same quality for decades to come regardless of the materials and precision levels required	V			X
Guaranty the machining of all the shapes and profiles with one standard single point cutting tool	V			X
Guaranty an inventory of the most complex profiles and make them available at any moment with a few simple touches on the screen	V			X
Guaranty the capacity to machine all types of cylinder heads that may exist, including the ones featuring venturi type shapes (back cuts) below the seats	V			X