

Triangle Die & Tool Co. Ltd.

**FORGE TOOL
CNC MACHINING
TRIM TOOLING
RUBBER MOULD**

www.Triangledie.com

Hammer Components and Press Bolster

Triangle Die & Tool Co. Ltd. has increased its ability to handle larger items, such as sow blocks, hammer guides, tie plates and complete bolster assemblies

Sow



Bolster

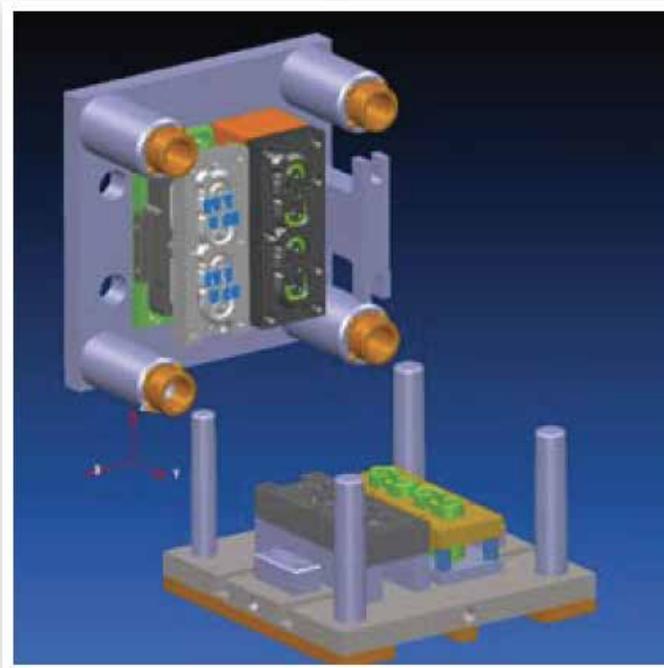


Trim Dies

Triangle Die & Tool Co. Ltd. manufactures trim dies for both the forging and the die cast industry.

There are many different configurations of trimmers for both types of manufacturing, so we make the effort to determine your exact needs on any particular project. Once that is established, we then design and build the trimmer to meet your specifications.

3-D CAD Model of Trimmer



Forge Tooling

Through years of experience serving a variety forging companies, Triangle Die & Tool Co. Ltd. has the ability to meet your strictest forge tooling requirements.

Whether it is automotive, aerospace, agriculture, defense, energy, safety or any other variety of forging, it would be quite unlikely that we have not had exposure to that industry. This diversity helps us in the design and manufacturing of forge tooling.

Triangle Die & Tool Co. Ltd. is capable of working with you on hammer, press or upsetter dies as per your requirements.

Welded Upsetter Dies



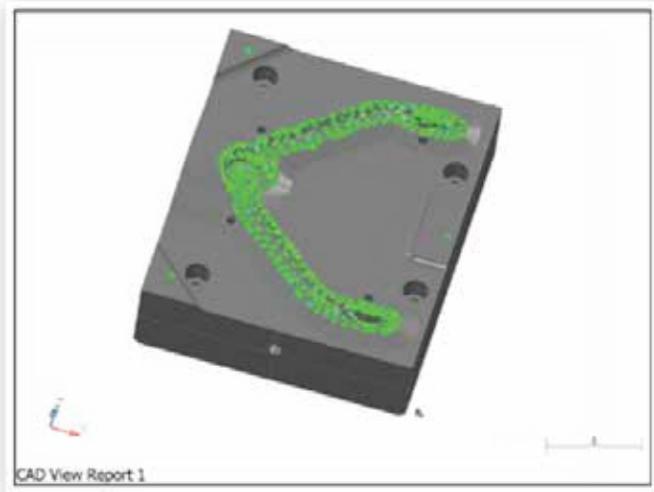
Remachined and Polished Dies



New Set of Die Blocks

Inspection

Triangle Die & Tool Co. Ltd. has the ability to perform CMM inspection of your forge tooling. We utilize a FARO portable inspection arm to take measurements that are compared directly to a solid model, thus ensuring the dies meet specifications.

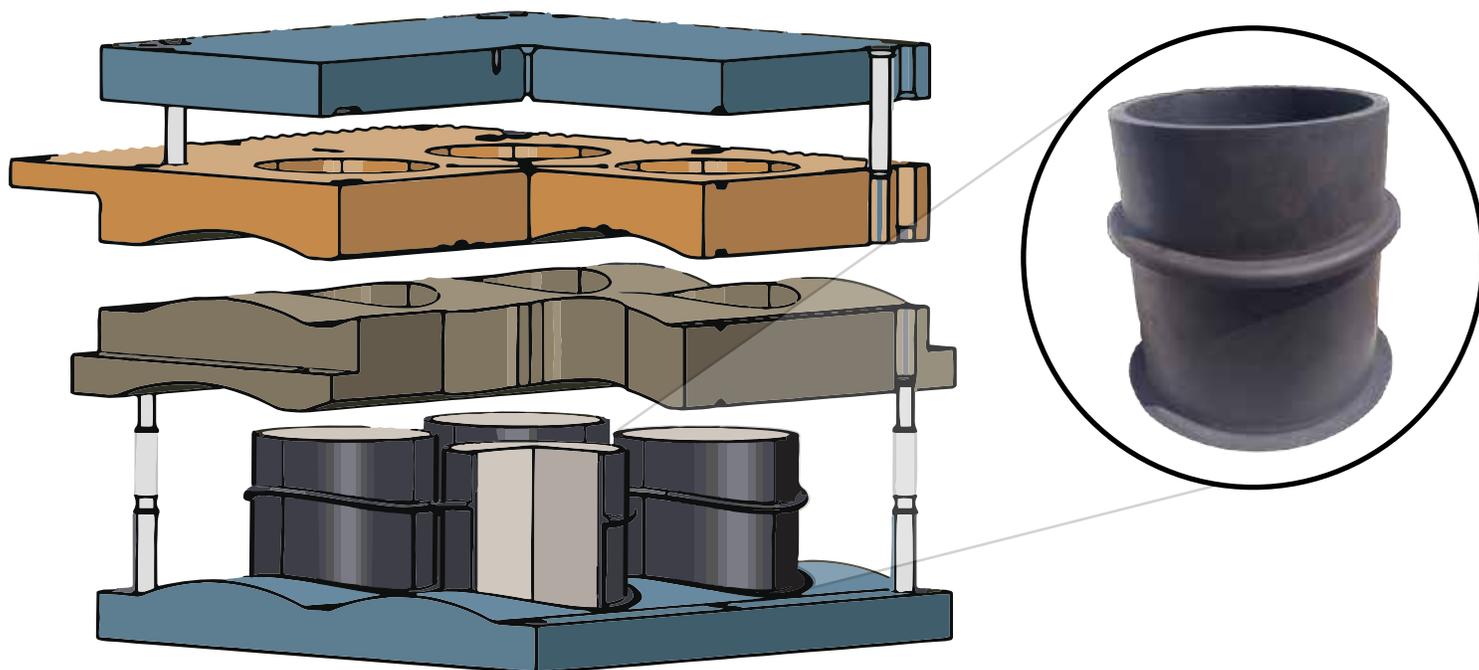


INJECTION MOLDING

1

PROBLEM

Design and build a rubber injection mold to enable the customer to produce a family of parts that vary in length.



SOLUTION

The rubber injection mold was designed to enable the required flexibility using interchangeable upper and lower mid molds and cores. The customer can simply exchange either or both mild molds, then replace the core with a core corresponding to the new thickness and begin producing parts once again. The overall savings of not requiring complete molds for each length was dramatic. Note that the split on the parts is not flat, requiring consistent match between each mid mold produced.



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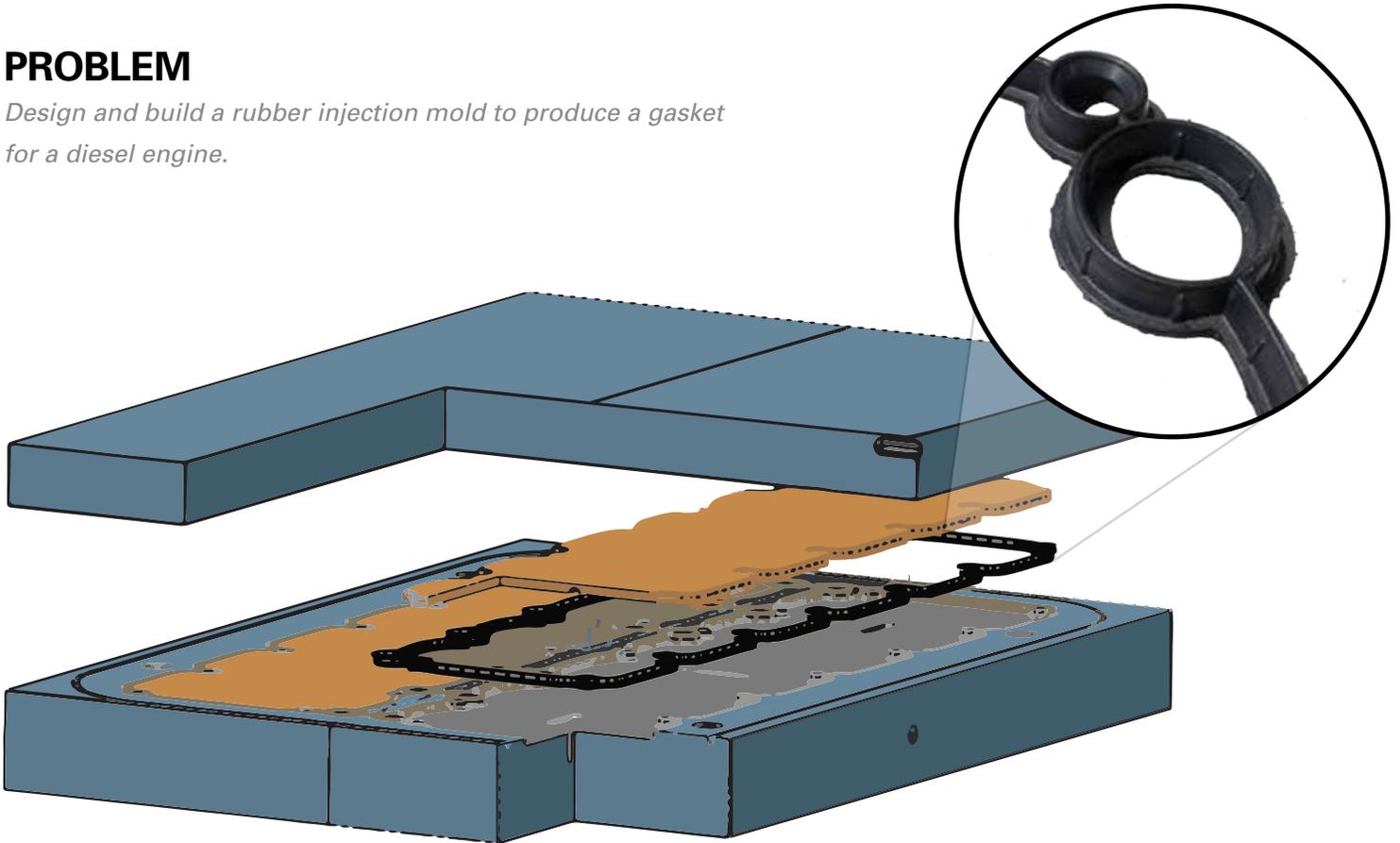
Fax: 905-685-3897
Phone: 905-685-8171

INJECTION MOLDING

2

PROBLEM

Design and build a rubber injection mold to produce a gasket for a diesel engine.



SOLUTION

The rubber injection mold was designed and constructed to produce the gasket using a cold runner system. Undercut details are produced without the requirement of 5-axis machines due to the in-house ability to produce specialty-cutting tools in our tool and cutter manufacturing facility. The mold was designed with a dual mid plate to take advantage of the shuttle style press for higher productivity.

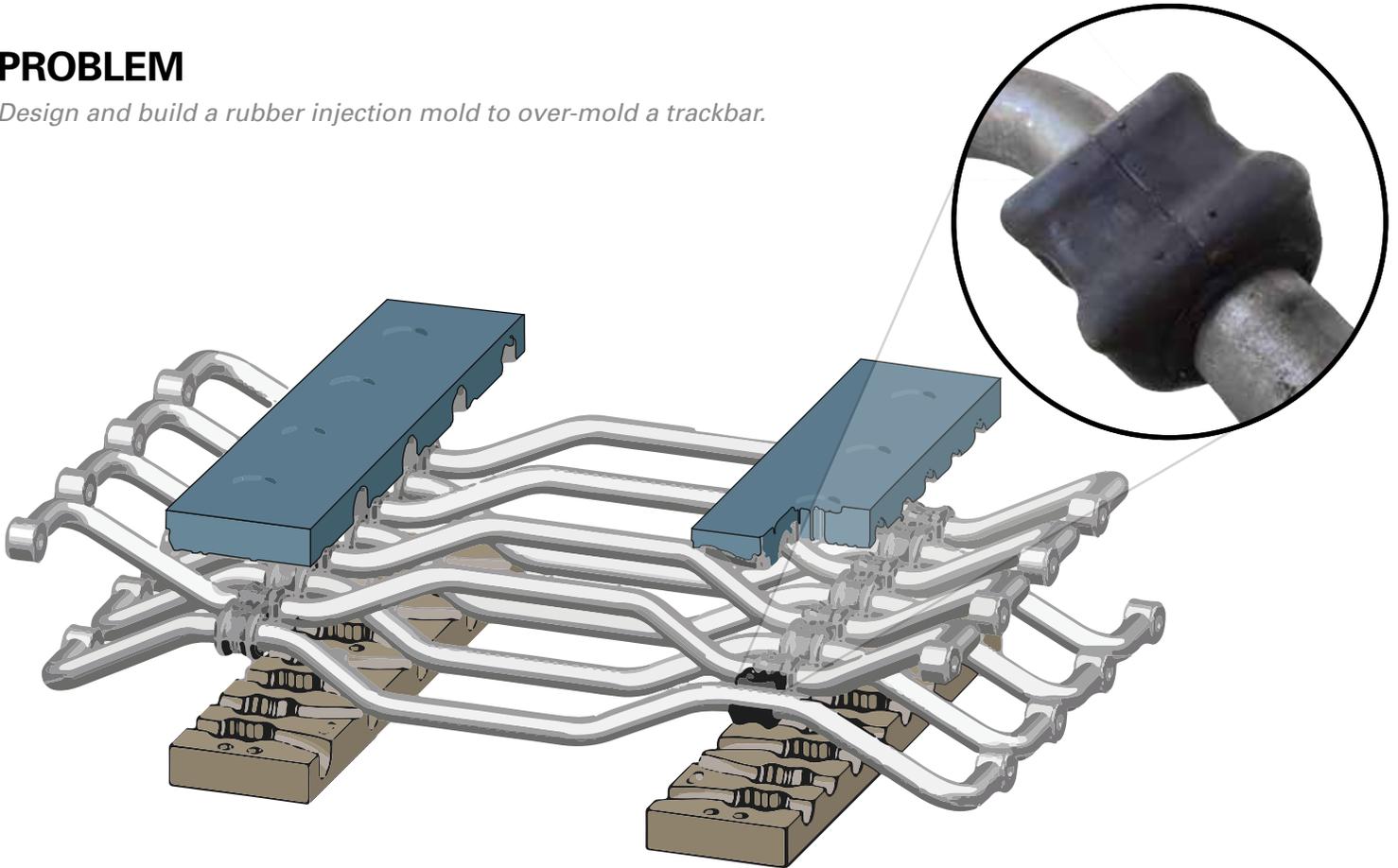


OVER-MOLDING

3

PROBLEM

Design and build a rubber injection mold to over-mold a trackbar.



SOLUTION

The rubber injection mold was designed to over-mold 8 cavities simultaneously. Due to the nature of over-molding a forging, a larger tear trim was incorporated. The molds were designed to match up to the existing cold runner system, which is proprietary to the customer and not shown. This was a high volume application and ran 24/7 for the life of the project.



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