



Engine Block Mold: T-A GEN2

The customer is manufacturing engine block molds out of H13 tool steel for the automotive industry. They are using a Mazak 7550 VMC with 300 PSI (20.684 bar) through tool coolant to produce the parts.

The customer asked Allied Machine to find a way to reduce cycle time and decrease the cost of production.

The results were outstanding. The **T-A GEN2** completely eliminated regrinds and significantly lowered the overall cost of production.



		Measure	Competitor	T-A GEN2
Product:	T-A GEN2	RPM	1600	809
Objective:	(1) Decrease cycle time (2) Decrease cost of production	Feed Rate	0.0006 IPR (0.015 mm/rev)	0.007 IPR (0.178 mm/rev)
Industry:	Automotive	Cycle Time	14 min 34.8 sec	2 min 28.2 sec
Part:	Engine block mold	Tool Life	35 holes	35 holes
Material:	H13 tool steel	The T-A GEN2 offered 79.03% cost per hole savings over the competitor tooling.		



- ▶ T-A GEN2 insert
Item No. 450H-15
- ▶ T-A GEN2 holder
Item No. 29000S-075L



83% cycle time decrease

The T-A GEN2 provided:

- ✓ Decreased cost per hole
- ✓ Decreased cycle time
- ✓ Eliminated regrinds

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