



## Transmission Component: ALVAN® Reamer

The customer is manufacturing automotive transmission components made from 9% silicon aluminum. They are using a Daewoo VMC running with a 1000 PSI (69 bar) ChipBlaster with through spindle coolant

In order to improve their production process, the customer needed to lower their cost of production while maintaining the existing hole quality.

The **ALVAN® Reamer** lowered the customer's cost of production while maintaining the previous hole quality.



<b>Product:</b> ALVAN® Cutting Ring Reamer <b>Objectives:</b> Decreased production cost <b>Industry:</b> Automotive <b>Part:</b> Transmission component <b>Material:</b> Silicon aluminum <b>Hole Ø:</b> 1.26" (32.004 mm) <b>Hole Depth:</b> 3.00" (76.2 mm)	Measure	Competitor Reamer	ALVAN® Reamer
	RPM	2425	2425
	Speed	800 SFM (243.84 M/min)	800 SFM (243.84 M/min)
	Feed Rate	0.025 IPR (0.635 mm/rev)	0.025 IPR (0.635 mm/rev)
	Penetration Rate	60.63 IPM (1540.002 mm/min)	60.63 IPM (1540.002 mm/min)
	Cycle Time	5 sec	5 sec
	Tool Life	10,000 holes	10,000 holes



▶ ALVAN® Cutting Ring Reamer  
Item No. 050120-3  
Ring: 050120-2

The ALVAN® Cutting Ring Reamer provided:

- ✓ Increased number of regrinds
- ✓ Superior chip control
- ✓ Decreased production costs