



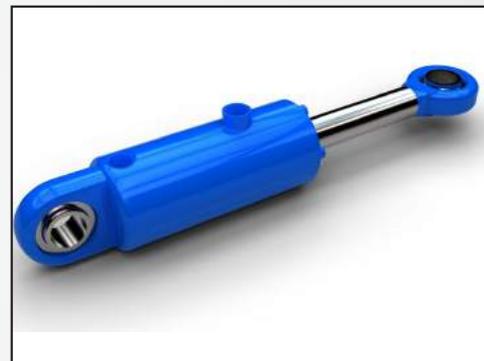
# ALVAN® Cutting Ring Reamer

## Hydraulic Transmission Component: ALVAN® Reamer

The customer is manufacturing components for recreational and industrial vehicles such as motorcycles, utility vehicles, all-terrain vehicles, and snowmobiles. They are using an Okuma Horizontal Machining Center with 200 PSI (14 bar) water soluble flood coolant to machine a hydraulic transmission component made out of grey cast iron.

Wishing to improve their production, the End-user wanted to increase tool life and lower their costs.

The **ALVAN® Reamer** lowered cycle time and increased tool life.



		Measure	Competitor Reamer	ALVAN® Reamer
<b>Product:</b>	ALVAN® Cutting Ring Reamer	RPM	1937	1475
<b>Objectives:</b>	(1) Increase tool life (2) Decrease costs	Speed	381 SFM (116.129 M/min)	290 SFM (88.392 M/min)
<b>Industry:</b>	General machining	Feed Rate	0.0079 IPR (0.201 mm/rev)	0.023 IPR (0.584 mm/rev)
<b>Part:</b>	Hydraulic transmission component	Penetration Rate	15.30 IPM (388.62 mm/min)	33.93 IPM (861.822 mm/min)
<b>Material:</b>	Grey cast iron	Cycle Time	9.4 sec	2.1 sec
<b>Hole Ø:</b>	1.20" (30.48 mm)	Tool Life	75 parts	3354 parts
<b>Hole Depth:</b>	0.7515" (19.088 mm)			

▶ ALVAN® Cutting Ring Reamer  
Item No. 92440 P01



77% cycle time decrease

The ALVAN® Cutting Ring Reamer provided:

- ✓ Increased tool life
- ✓ Decreased cycle time
- ✓ Decreased production costs

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