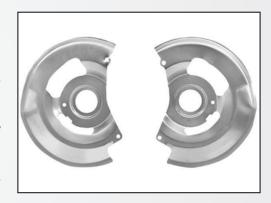
Mold Backing Plates: Revolution Drill® / Opening Drill®

The customer is machining A36 mold backing plates using a DOOSAN DB 130CX Horizontal Boring Mill with 200 PSI through tool coolant.

Competing with off-shore mold makers, the customer was looking for a way to speed up this job. Allied was asked if they had a solution.

The difference was amazing as Allied was able to reduce the operation time from hours to just minutes. Completion of 6 holes using **Revolution Drill®** took less than 3 minutes, while the **Opening Drill®** opened 3 holes from 2" to 3.6" in under 2 minutes, outperforming the competitive tooling by over 4 hours!



Product:	Revolution Drill®	Measure	Competitor Tools	Revolution Drill®	Opening Drill®
Objective:	Decrease cycle time	RPM	Tools used in process:	2,200	1,200
Industry: Part:	Tool, mold, & die Mold backing plates	Feed Rate	(1) - Center drill (2) - Standard twist drill	0.0055 IPR	0.0055 IPR
Material: Hole Ø:	A36 (1) 2.0" - x3	Penetration Rate	(3) - Circular interpolation tool	12.1 IPM	6.6 IPM
Hole Depth:	(2) 3.6" - x3 (1) 3.5" - x3 (2) 4.0" - x3	Cycle Time	4-8 hours	under 5 min	

