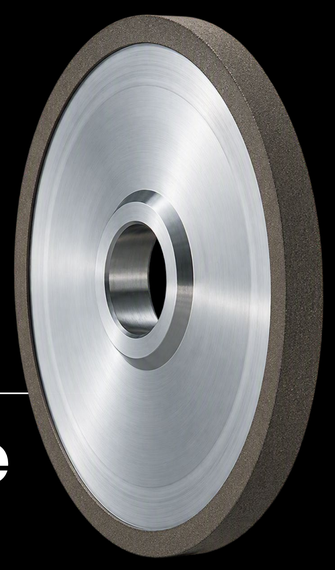
Solutions Matched to Die and Mold Grinding

Resin Diamond Wheel

Revomate



Challenges

Would like to shorten machining time while maintaining accuracy?

Solutions

Shorten Machining Time through High-Depth-of-Cut Grinding

Shorten Machining Time through a Higher Feed Rate

CORE TECHNOLOGY

Technical features

Newly Developed Bond / High-Toughness Abrasive Grains / Improved Abrasive Grain Distribution

Effects in grinding

Improved Cutting Ability / Improved Retention of Cutting Ability / Reduced Uneven Wear

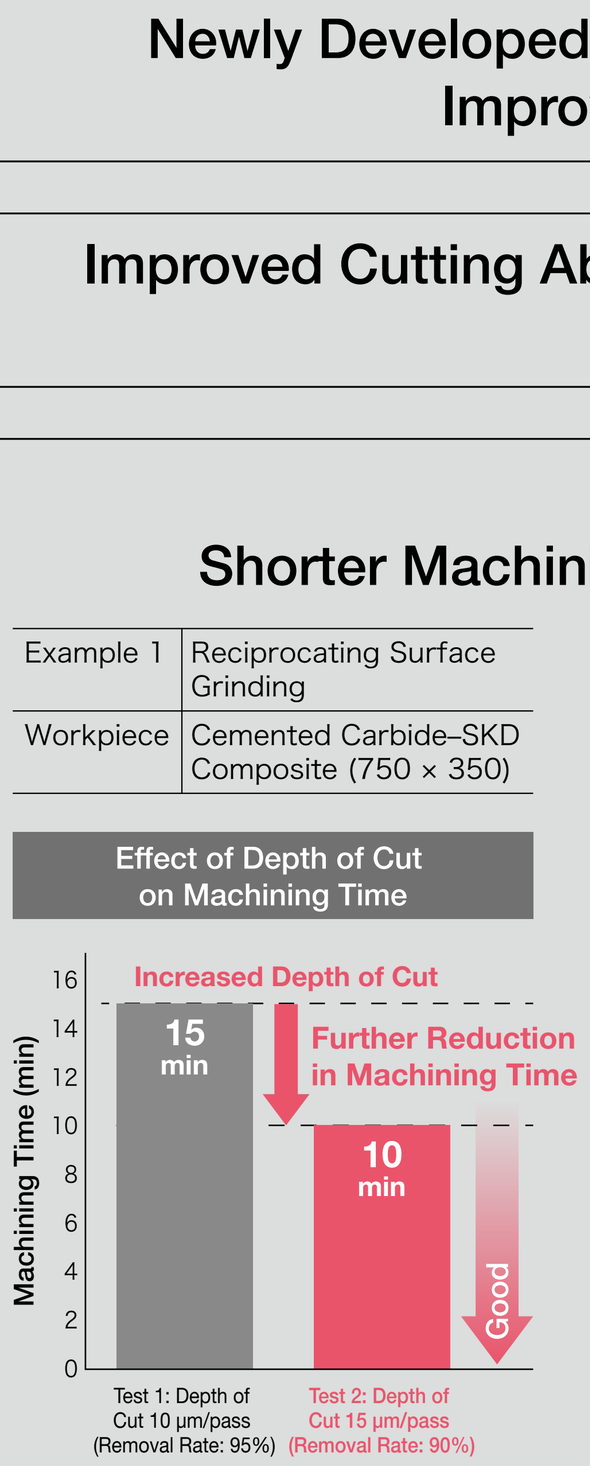
Performance data

Customer Case Study: Shorter Machining Time through Increased Depth of Cut

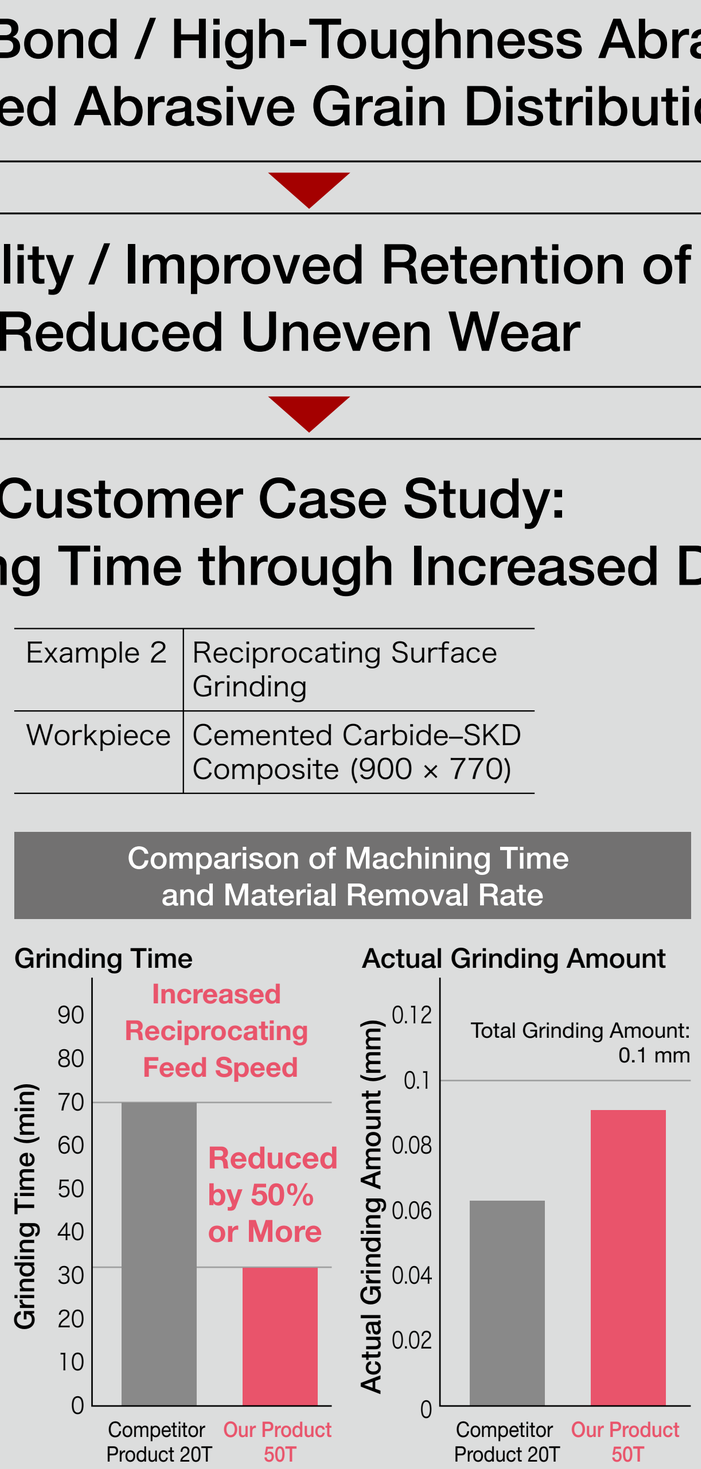
Example 1	Reciprocating Surface Grinding
Workpiece	Cemented Carbide–SKD Composite (750 × 350)

Example 2	Reciprocating Surface Grinding
Workpiece	Cemented Carbide–SKD Composite (900 × 770)

Effect of Depth of Cut on Machining Time



Comparison of Machining Time and Material Removal Rate



Workpiece Machining Quality

❶ No Beating Pattern

❷ No Micron-Level Step between Cemented Carbide and SKD

❸ Ra: 0.44–0.55 µm for Both Cemented Carbide and SKD Areas

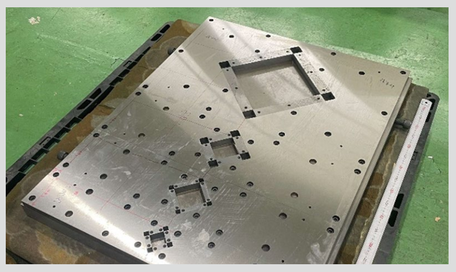


Photo provided by Sumitomo Heavy Industries Finetech, Ltd.