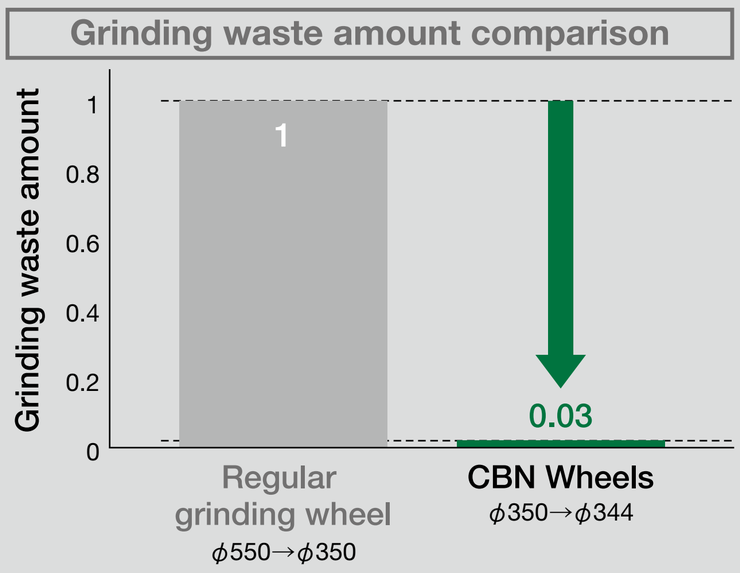
Solutions Matched to Waste Reduction in Grinding Process

SUSTAINABLE DEVELOPMENT GOALS

Would like to reduce grinding waste?

97% Reduction in Grinding Waste through the Use of Superabrasive Wheels



Concerned that adopting superabrasive wheels may increase initial and tooling costs?

For Customers with These Concerns

Adopting Superabrasive Wheels Significantly Improves Productivity

Performance Example

Shortens machining time	Reduces downtime	Shortens replacement time of grinding wheel
Machining Time Reduced to Two-Thirds / Productivity Increased by 1.5×	Truing Frequency Reduced to 1/50	Replacement Frequency Reduced to 1/4

By Adopting Our e-Flange and e-Wheel...

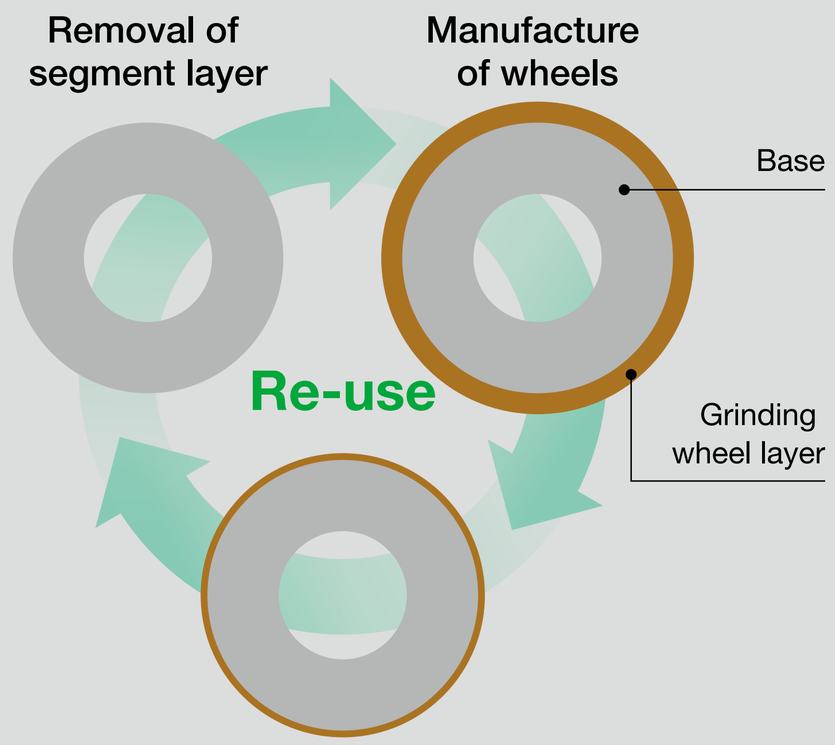
Performance Example Per grinding wheel replacement

Shortens replacement time of grinding wheel	Reduces runout and balancing	
Wheel Replacement Work Reduced by 36 Minutes	55 µm Reduction in Peripheral Runout Lowers the Frequency of Problems	Runout and balancing after replacement are not required

Would like to reduce discarded wheel bases?

Core Reuse

80% Reduction in Core Waste



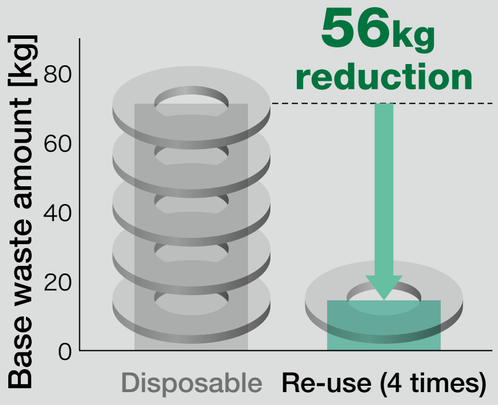
Used up to the minimum diameter

*Results Vary Depending on Operating Conditions

Performance Example

Steel Core

Vitrified CBN Wheel
(ϕ350D × 20T × ϕ40H)



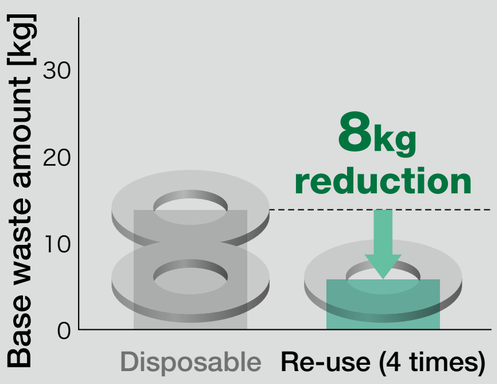
Using Five CBN Wheels Reduces Waste by 56 kg

11% Reduction in CO_2 Emissions per Product

Performance Example

Aluminum Core

Resin Wheel for Double-Disc Surface Grinding
(ϕ305D × 50T × 80H)



Using Two Resin Wheels Reduces Waste by 8 kg

10% Reduction in CO_2 Emissions per Product

JTEKT GRINDING TOOLS CORPORATION