

CSS ULTRA

HIGH PERFORMANCE GRINDING WHEELS FOR EXTERNAL CYLINDRICAL GRINDING AND THREAD GRINDING



CSS ULTRA

With the CSS ULTRA product line, TYROLIT has engineered a new wheel formulation combining the latest high-quality components and innovative bonding technology. High performance grinding is possible with these specifications because they minimize the heat generated and the forces imposed on both the tool and workpiece. Thanks to the innovative bond system of CSS ULTRA, a significant increase in grinding performance is achievable.

Application: External cylindrical grinding of automotive components.



- Long lifetime/good profile retention: Due to the high-strength bond system, the abrasive grain can withstand much greater loads during use without breaking down prematurely.
- Cool grinding (no burning): The high strength bond system allows for a reduction of bond content, which helps decrease friction for a cooler grind.



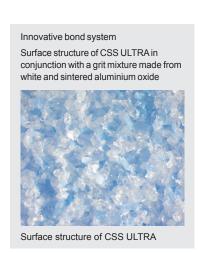
fuel injection components

 Shorter grinding time/higher productivity: With CSS ULTRA, the stock removal rate can be increased while maintaining part quality.

 Approved up to 80 m/s: Highstrength bond system is ideally suited for high speed grinding. With CSS ULTRA, peripheral speeds of up to 80 m/s can be achieved.

Example of application Typical components inner ring Bearing industry: Grooved ball bearing inner ring 6206 - grinding of race outer ring spherical roller Reduction of grinding time by 30% cylindrical roller **CSS ULTRA** STANDARD 6.0 s Tool manufacturing industry: Taps - thread grinding tap CSS ULTRA 1GEW 400x25x160 CS33A240HH3VB1 80 thread former Reduction of dressing amount by 30% **CSS ULTRA** 70% STANDARD 100% Automotive industry: Crankshaft - grinding of bearing journal crankshaft CSS ULTRA 1KN 1065x40x305 CS33A541KK6VB1 50 camshaft gear shaft Increase in lifetime by 50%

150%



CSS ULTRA

STANDARD