

## CSS ULTRA

HIGH PERFORMANCE GRINDING TOOLS FOR EXTERNAL CYLINDRICAL GRINDING AND THREAD GRINDING



## **CSS ULTRA**

With the CSS ULTRA product line, TYROLIT has created a sustainable grinding wheel micro-architecture through the use of new, high-quality components and innovative sintering technology. In addition to thermal load, particularly high wearing forces affect the grain and bond during high performance grinding processes. Furthermore, the boundary layer between both components becomes heavily eroded due to the increased stock removal rate. Thanks to the innovative bond system, a significant increase in grinding performance is possible.

**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 away prematurely.
- Cool grinding (no burning): The high-strength bond system enables specifications with reduced bond content and therefore less friction in the grinding process.



- + Shorter grinding time/higher productivity: With CSS ULTRA, the stock removal rate can be increased without impairment of workpiece quality.
- Approved up to 125 m/s: Highstrength bond system is ideally suited for high speed grinding. With CSS ULTRA, peripheral speeds of up to 125 m/s can be achieved.

## **Example of application**

## **Typical components**



