



Hybrid  
TECHNOLOGY



# CSS ROLL STAR 2.0 HYBRID

High Performance

Premium grinding tools since 1919  
[www.tyrolit.com](http://www.tyrolit.com)



# CSS ROLL STAR 2.0 HYBRID

More than one hundred years of experience in development of grinding solutions of the highest quality make TYROLIT to a valued partner in the in roll grinding. In the hot rolling mill TYROLIT Hybrid can boost the already excellent performance once again.

**Application:**  
Repair grinding roller



**+ Hybrid Technology:**  
Innovative bonding matrix of synthetic resin and ceramic

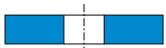
**+ Highest Performance:**  
Highest cutting performance and extra long lifetime through Hybrid Technology



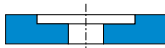
**+ Universal use:**  
suitable for all common roller materials

**+ Customer solutions:**  
Due to our many years of experience we offer the best technical support

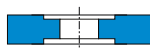
## Sortiment



**Shape 1**  
straight grinding wheel



**Shape 5**  
grinding wheel with recess one sided



**Shape 7**  
grinding wheel with recess on both sides

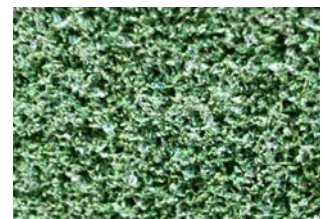
**Diameter:** 600 – 1100mm  
**Disc thickness:** 60 – 152mm

**Bore size:** 127 – 508mm  
**Grit size:** 20 - 54 Mesh



### Advantages of the HYBRID technology

- + The increased bonding strength enables improved utilization of the grain with optimum process parameters
- + Improved chip removal performance due to very open structures with fewer friction surfaces and larger chip spaces
- + damping properties despite high bonding strength
- + TYROLIT grain with new geometry and quality



CSS RS 2.0 Hybrid grinding wheel structure

When grinding 50% HSS and ICDP work rolls in the hot rolling mill, the following performance was determined

Increase of the G-ratio by **80%**



Increase of the cutting performance by **30%**

