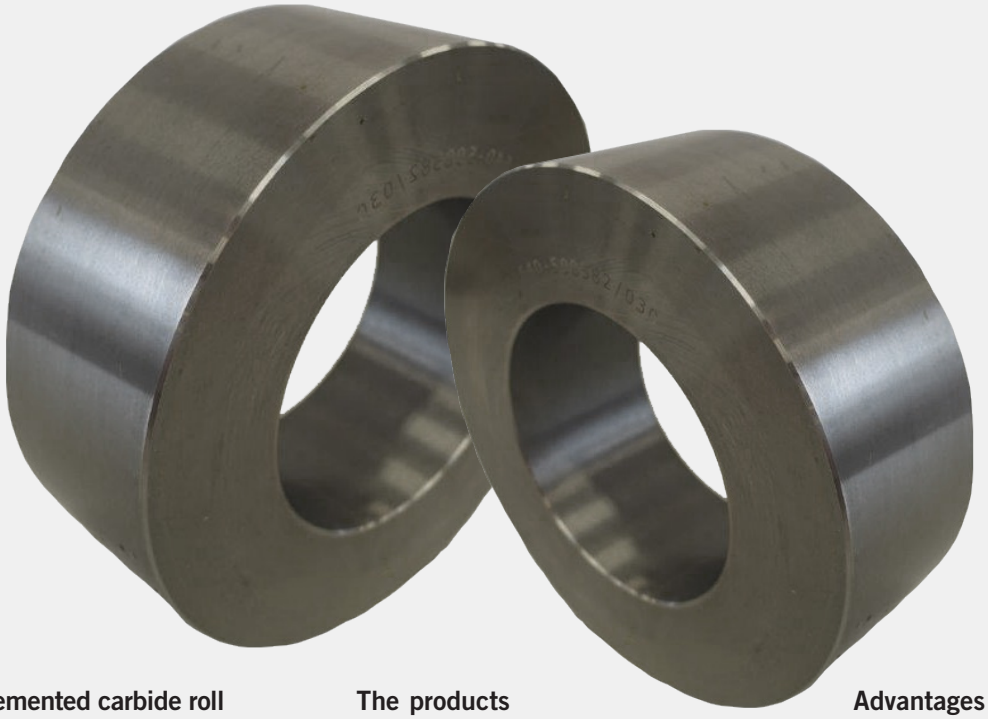
CARBIDE ROLLING RINGS

Danieli develop its own know-how in define and provide the Customer with the best solution of WC Rolling Rings for hot product rolling mills

WC-DRR
>rolling rings<



Cemented carbide roll rings is a kind of tool material which consists of tungsten carbide and cobalt with high hardness and wear resistance. Danieli roll rings (DRR) for high speed rolling of steel bars has a higher resistance to impact and thermal fatigue and very high wear resistance as well.

The products
Rolling rings for rolling smooth or ribbed metal wire are available in the following types:

— As sintered rough material with standard sintering tolerance
— With all sides ground without grooves
— Ready for fixing, with ground ribbed grooves

Advantages
— Danieli experience able to provide rings for hot and cold rolling for all type of mill
— Improved transversal rupture strength
— Improved compression resistance
— Excellent wear resistant
— Low specific weight
— Resistance to oxidation
— Impact resistant
— Toughness

Danieli grade	Co+Ni+Cr (%)	WC (%)	Minimum hardness	Minimum density	Recommended applications	Recommended use
DRR103	15	85	83.0	13.8	Good toughness, wear resistance, corrosion resistance and thermal crack resistance	The middle and rear stands of finishing mills
DRR104	18	82	82.0	13.5	Good toughness and thermal crack resistance, good for general purposes	The most of the finishing mills and the rear stands of common mills
DRR105	20	80	80.5	13.4	Good toughness and thermal crack resistance	In the front stands of finishing mills
DRR106	25	75	79.0	12.9	Good impact resistance	The stands of pre-finishing rolling mills for hot rolling ribbed steel bars and they can be machined with turning and milling
DRR107	30	70	78.5	12.6	Good impact resistance	Hot rolling ribbed steel bars and in the first and second stands of pre-finishing mills

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