



## MINING & ROCK HANDLING

# voestalpine MINING & ROCK HANDLING PUMPING APPLICATIONS

### WHEN PERFORMANCE MATTERS

The mining industry is one of the most demanding industry sectors when it comes to component corrosion, wear and abrasive damage. Premature failure of critical pumping components can result in significant asset downtime and negative impacts to productivity.

voestalpine High Performance tool steels have demonstrated exceptional performance in a wide range of pump components, such as sleeves, casings, and wear rings. The resulting increase in service life and reduction in maintenance downtime make these materials a compelling solution for demanding fluid handling environments.

voestalpine tool steels are highly suitable for pumping components due to their corrosion and abrasive wear resistance. These properties ensure that the pumping components can withstand operation in abrasive slurry pumping applications, maintaining their structural integrity and performance over longer periods of time.

### CHARACTERISTICS:

- » Excellent resistance to both corrosion and abrasive wear
- » High hardness (up to 60 HRC)
- » High strength & excellent ductility
- » High degree of purity and cleanliness thanks to the production remelting processes
- » High work-hardening potential
- » Sustainable production (up to 97% recycled content)

### STRONG. SAFE. SUSTAINABLE.

## VOESTALPINE PREMIUM MATERIAL GRADES

BÖHLER	Uddeholm / ASSAB	Villares	W.N.R (EN/SEL)	MAX. (HRC/HB/HV)
M333 ISOPLAST	Mirrax ESR	-	-	50
M310 ISOPLAST	Stavax ESR	VP420IM	1.2083	52
M303 HH	Mirrax 40	V2316MOD	1.2316	40
M315	RoyAlloy	-	PATENT	310 HB
M340 ISOPLAST	-	-	PATENT	55
M368 MICROCLEAN	-	-	PATENT	56
M390 MICROCLEAN	Elmax SuperClean	-	PATENT	60
N690	-	-	1.4528	61
-	Corrax	V630IM	-	50
-	Tyrax ESR	-	PATENT	58
-	Vanax SuperClean	-	PATENT	60

## PERFORMANCE IS IN OUR DNA

voestalpine High Performance Metals is the global market leader in the production of tool steels and one of the world's leading suppliers of high-speed steels, valve steels, special steels, powder metallurgy steels, and nickel-based alloys. We also manufacture die-forged components and large castings from nickel-based alloys and high, medium and low alloy steels.

Customers rely on our key brands of Bohler, Uddeholm and Villares, to set the highest standards of innovation, quality and service across a wide range of industries including automotive, aerospace, consumer electronics and oil & gas. We are fully integrated from steel production through to local customer sales, ensuring we keep our customers One Step Ahead.

## EXPLORE WHAT IS POSSIBLE.