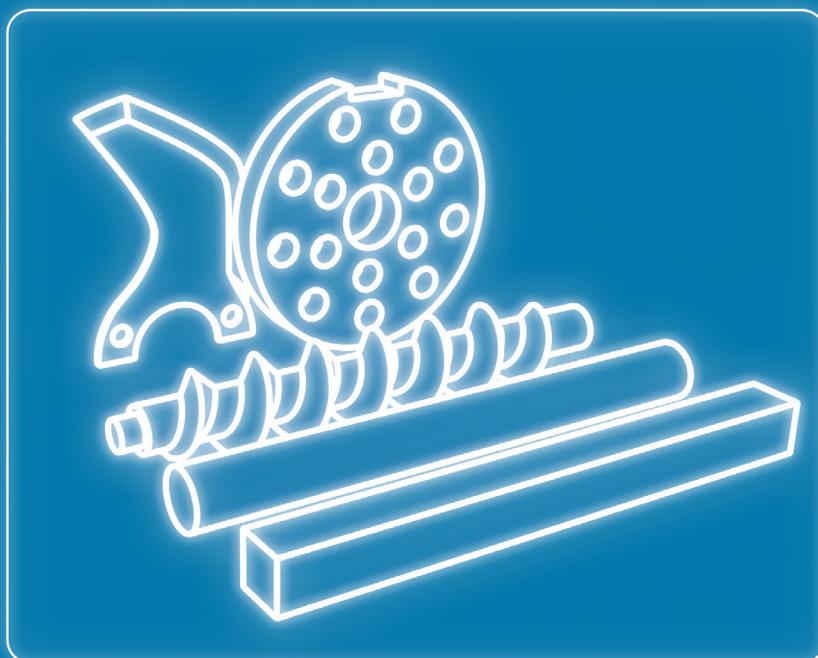
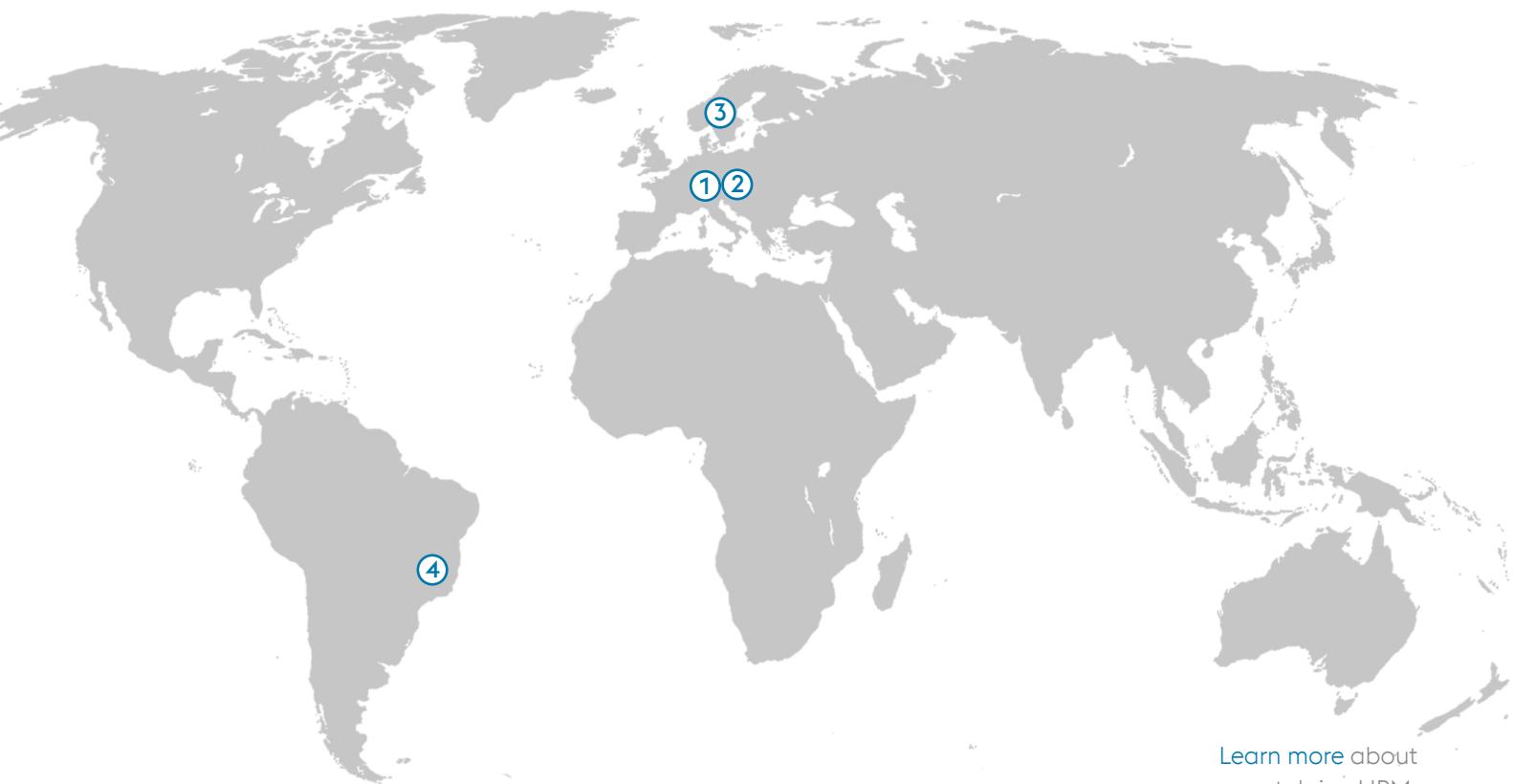


FOOD & BEVERAGE



BUILT
FOR FOOD
SAFETY

**High performance metals
and solutions
for the food industry**



Learn more about
voestalpine HPM:



OUR COMPANY GLOBAL AVAILABILITY

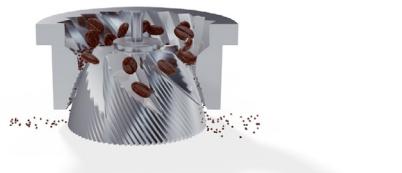
At voestalpine High Performance Metals, we deliver premium steel and non-ferrous alloys from a unified global network. With multiple production sites and over 130 sales and service locations worldwide, we ensure consistent quality and customer satisfaction across every product, service, and delivery. All our steel mills operate under the highest international standards, guaranteeing reliable, safe, and certified materials for the most demanding applications in the food and beverage industry.

- 1 **voestalpine Böhler Edelstahl – Kapfenberg, Austria:** One of the world's leading suppliers of high-speed steels, tool steels & specialty material.
- 2 **voestalpine Böhler Bleche – Mürzzuschlag, Austria:** Delivers cross-rolled sheets and plates as well as products with exceptional uniformity in mechanical and physical properties.
- 3 **Uddeholm – Hagfors, Sweden:** Is one of the world's leading producers of tool steels for industrial applications, with over 300 years of metallurgical expertise.
- 4 **Villares Metals Brazil – Sumaré, Brazil:** Specializes in steel and specialty alloys that combine reliability, strength and customization.

FOOD & BEVERAGE APPLICATIONS

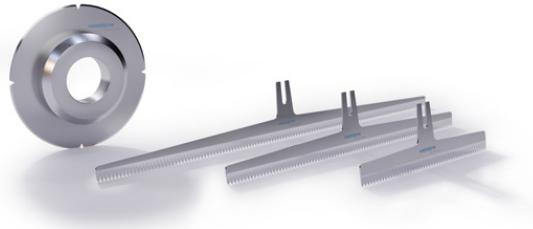
GRINDING

Outstanding wear resistance, surface integrity, and corrosion protection make our steels perfect for grinding components. They ensure dimensional accuracy and durability under abrasive conditions in hygienic environments.



PACKAGING

Engineered to meet hygiene and mechanical demands, our steels offer excellent formability, corrosion resistance, and surface quality, ideal for cutting edges in automated packaging lines.



MACHINED COMPONENTS

Designed for precision, we provide superior machinability, dimensional stability, and resistance to wear and corrosion. They ensure reliability and compliance with strict hygiene standards.



CUTTING

These materials deliver exceptional edge retention, corrosion resistance, and food-grade purity, ideal for blades and slicers in food processing. They maintain sharpness and withstand aggressive cleaning, ensuring reliable performance and long service life.



EXTRUSION

Combining high strength, superior wear resistance, and excellent corrosion protection, these alloys excel in food extrusion applications. They withstand high pressure and abrasive materials, guaranteeing consistent output and long-term reliability.



FILLING

Our steels meet the stringent requirements of filling nozzles, offering excellent corrosion resistance, wear protection, and surface quality. Ideal for components exposed to liquids and cleaning agents, they ensure precision, hygiene, and long-lasting performance.



OUR SOLUTIONS

voestalpine Grades**			Standards		
Corrosion Resistant	BÖHLER	Uddeholm	Villares	DIN / AISI NUMBER	max. HRC
	A903*	-	N4462	1.4462 / 318 LN	min. 34
	A911SA	-	-	1.4501 / F55	min. 34
	M333 ISOPLAST	Mirrax ESR*	VP420IM	1.2083 / 420	50
	M303*	-	-	-1.2316	35
	M340 ISOPLAST*	-	-	-	58
	M368 MICROCLEAN	-	-	-	56
	M380 ISOPLAST*	-	-	1.4018	60
	M390 MICROCLEAN*	Elmax SuperClean*	-	-	60
	M789 AMPO*	-	-	-	53
	N540	-	VC150	1.4034	55
	N678	-	-	1.1453	60
	N679	-	-	1.4153.03	60
	N680*	-	-	-	58
	N685	-	-	1.4112 / 440B	59
	N690*	-	-	1.4528	60
	N695	-	V44BC	1.4125 / 440C	60
	N700*	-	V630	1.4542 / 630 (17-4 PH)	46
	N701	-	-	1.4545 / 15-5 PH	44
	-	ROYALLOY*	-	-	330 HB
	-	Corrax*	-	-	50
	-	Tyrax ESR*	-	-	60
	-	Stavax ESR*	VP420IM	1.2083 / 420	54
	-	Vanax SuperClean*	-	-	60
	-	-	VIMCOR	-1.2085 / 420 FM	32
	-	-	VP80	-	50
	K110	Sverker 21*	VD2	1.2379 / D2	65
Non-Corrosion Resistant	K340 ISODUR*	Sleipner*	-	-	63
	K490 MICROCLEAN	Vanadis 4E SuperClean*	-	-	64
	K888 MATRIX	-	-	-	64
	K890 MICROCLEAN	-	-	-	64
	W302 ISOBLOC	Orvar Supreme*	VH13IM	1.2344 / H13	55
	W360 ISOBLOC*	Unimax*	-	-	57
	S390 MICROCLEAN	Vanadis23 SuperClean	-	-	69
	-	Caldie*	-	-	60
	-	Vanadis 8 SuperClean5*	-	-	64
	-	Vanadis 60 SuperClean	-	1.3292	58
	-	-	VECTOR 280	-	32
	-	-	VF800AT	A18	61

*European Food Certificate readily available. Others can be provided upon request

**Steel grades are comparable but do not have identical chemical compositions

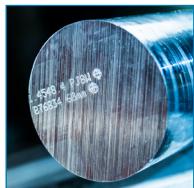
Application

Cutting	Grinding	Filling	Packaging	Extrusion	Components	Sample Applications***
-	-	●	-	-	●	Pump blocks, dairy
-	-	●	-	-	●	Dairy
●	●	●	-	●	-	Knives (horn & hock, cheese), extrusion die, dairy, pelletizing
-	-	-	-	●	-	Extrusion die
●	●	-	●	●	-	Coffee grinding, extrusion die, packaging knives
-	●	-	●	●	-	Coffee grinding, extrusion die, packaging knives
●	●	-	●	●	●	Knives (frozen goods, portioning, packaging), extrusion die
●	●	-	●	●	-	Knives (slicer, bowl cutter, dough, fruit & veg), extrusion screw
-	-	●	-	●	●	Extrusion screw
●	-	-	●	-	-	Meat grinding, knives (portioning, packaging)
●	-	-	●	-	-	Knives (bowl cutter, rotary trimmer, horn & hock)
●	-	-	●	-	-	Knives (bowl cutter, slicer, rotary trimmer)
●	-	-	●	-	-	Knives (bowl cutter, circular, slicer, packaging, horn & hock)
●	-	-	●	-	-	Knives (bowl cutter, packaging, fish, poultry, slicer)
●	●	-	-	-	-	Hammer mills, fish grinding, knives (fish, fruit & veg)
●	-	-	-	-	●	Knives (bowl cutter, poultry, slicer, fish)
-	-	●	-	-	●	Dairy
-	-	-	-	-	●	Pistons & liners, parts for food machinery
-	-	-	-	-	●	Parts for food machinery
-	-	●	-	-	-	Dairy
●	●	-	-	●	-	Meat grinding, bowl cutter knives, pelletizing
●	-	●	-	●	-	Cheese knives, dairy, pelletizing, extrusion die
●	●	●	●	●	-	Cereal, dairy, extrusion die, knives (packaging, circular)
-	-	●	-	-	●	Parts for food machinery, dairy
-	-	●	-	-	-	Dairy
●	●	-	●	●	-	Knives (fruit & veg, poultry, slicer, packaging), grinding (coffee, cacao), extrusion die
●	●	-	●	●	-	Knives (packaging, tobacco), extrusion die, grinding (coffee, cacao)
●	●	-	●	●	●	Cereal, can closing, meat grinding, coffee grinding, packaging knives
-	●	-	-	-	-	Cereal, coffee grinding
-	-	-	-	●	-	Extrusion of puffed products
-	●	-	-	-	-	Cereal
●	●	-	-	●	-	Meat grinding, coffee grinding, cereal, extrusion die
-	-	-	●	-	-	Packaging knives
●	●	-	-	-	-	Cereal
●	●	-	-	●	-	Meat grinding, cacao grinding, extrusion die
-	●	-	-	-	-	Coffee grinding
-	-	●	-	-	-	Dairy
-	●	-	-	●	-	Grinding (coffee, cacao), extrusion die

***For our full application portfolio, visit our website

PRODUCT VERSIONS AND DELIVERY SIZES

ROUND BAR



- » Ø 12.5 – 130mm*
- » production length
- » in special lengths

*larger sizes upon request

FLAT BAR



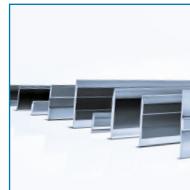
- » hot rolled
- » blasted
- » pickled
- » surfaces/ edges ground
- » dimensions on request

PLATES/ SHEETS



- » thickness 0.8 – 100mm
- » pickled
- » retail sizes
- » customized
- » in various executions (sawn, ground, 6-side-machined, etc.)

SHAPED PROFILES - ROLLED/ DRAWN



- » on coils
- » in rings
- » straightened in bars

WIRE ROD



- » Ø 5 – 15 mm
- » pickled/ on coils
- » blasted and pickled
- » hot rolled
- » in various executions

ENGINEERED PRODUCTS



- » tailor-made solutions
- » assembled or pre-machined
- » tight tolerances and functional integration
- » ready to use

HEAT TREATMENT



- » vacuum & controlled atmosphere processes
- » optimized hardness and microstructure
- » stress relieving and annealing
- » in various executions (sawn, ground, 6-side machined, etc.)

SPECIALTY COATINGS



- » reduce abrasive wear and friction
- » hard coatings based on ionized metal vapor
- » certified for biocompatibility

SUSTAINABILITY AND CIRCULAR ECONOMY

THE LATEST TECHNOLOGY AND NEWEST ENVIRONMENTAL STANDARDS

At all our production sites, we set new standards for production quality, process reproducibility, and environmental impact. In addition to using resources responsibly, we are constantly implementing new measures for environmentally friendly processes and production.

The most important raw material is metal scrap. Therefore, establishing closed material loops internally and with customers is essential to ensure a sustainable supply chain, reduce our usage of primary raw materials and improve our carbon footprint.

With our integration of products, services and technical advisory, we drive meaningful change across our business sectors.

CIRCULAR ECONOMY

Through our unique, integrated service network, we create long-lasting performance that meets the needs of our planet and future generations.

We collaborate closely with our customers on their demanding applications. Leading by example, we enable them to engage in sustainable initiatives like the reuse of their own scrap and thereby enabling the production of more sustainable products.

Together, we inspire the change in our industries by always thinking and walking one step ahead.



Reducing **CO₂ emissions**
by 50 % in our operations
by 2029



Using **over 90% of recycled**
scrap and secondary raw
materials in our production
processes by 2030



Contributing to the voestalpine
group target of reducing **CO₂**
emissions by 25% in our supply
chain by 2029



[Learn more](#) about
inSPire, our sustain-
ability initiative:



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voestalpine
ONE STEP AHEAD.