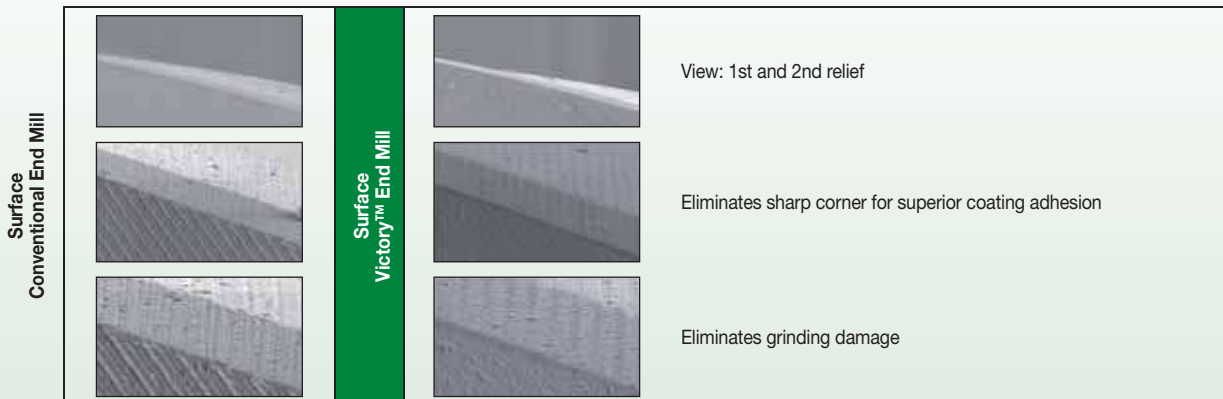


Innovative Advantage of Victory™ Grades



<p>WP15PE™ W = WIDIA™ P = Steels 15 = Application Range (Medium to Roughing) P = Carbide + PVD E = Solid End Mills</p>	<p>WS15PE™ W = WIDIA™ S = High-Temp Alloys 15 = Application Range (Medium to Roughing) P = Carbide + PVD E = Solid End Mills</p>
Primary Materials	Primary Materials
P0 through P4 Steels M1 through M3 Austenitic Stainless Steels K1 through K3 Cast Irons H1 Hardened Steels	S1 through S4 High-Temp Alloys P5 through P6 Ferritic and Martensitic Stainless Steels H1 Hardened Steels
Secondary Materials	Secondary Materials
S1 through S4 High-Temp Alloys H2 Hardened Steels	M1 through M3 Austenitic Stainless Steels H2 Hardened Steels

The new Victory grades are spread across the high-performance offering, including high-performance roughers, high-performance finishers, and select VariMill™ platforms.

Metric	series	Victory Grade		● first choice ○ alternate choice					
		WP15PE	WS15PE	P	M	K	N	S	H
VariMill I™	477, 47N0	✓		●	●	●		○	○
VariMill II™	577C	✓		●	●	●		○	○
VariMill II™	57NC		✓	○	○			●	○
VariMill II™ ER	577E, 57NE		✓	○	○			●	○
HP Roughers	DQ13, 4976, 4U40, 4U70	✓		●	●	●		○	○
HP Finishers	4001JJ, 4503JJ, D507, D518	✓		●	●	●		○	○