

# 2020 ACTION BOOK



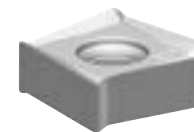
EXPERIENCE INNOVATION AND RELIABILITY ENABLED BY DIGITAL SOLUTIONS

# VSM890™-12

VSM890-12  
90 Degree Shoulder Mills



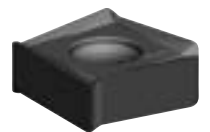
-ALP



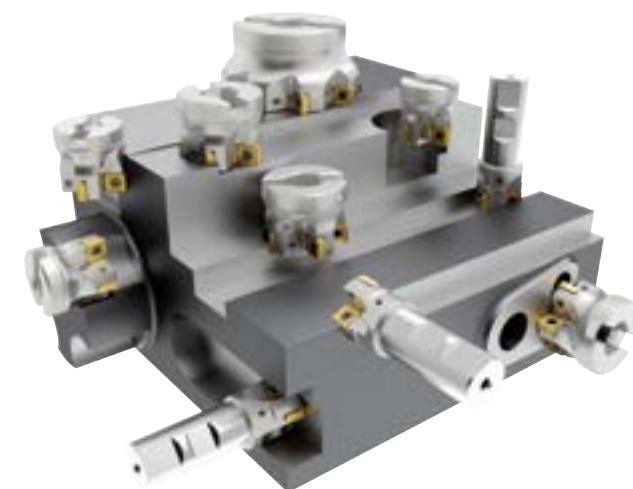
-ML



-MM



Applications



**WIDIA** 

**WIDIA** 



**VSM490-10, -12**  
90 Degree Shoulder Mills

# VSM490™-10, -15



**-ALP**



**-ML**



**-MM**



**-MH**



**Applications**



**WIDIA** 

**WIDIA** 





# VXF™

## VXF

High-Feed Mills • VXF-07, VXF-09, VXF-12, and VXF-16



-MM



-MH



-MM



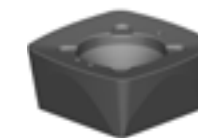
-MH



-MM



-MH

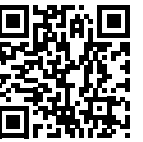


-MM



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## M1200 Face Mills

# M1200



**WIDIA** 

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# TDMX™

## TDMX Modular Drills



**PK(M)**



**FP(E)**



The combination of an extra stable pocket seat design, reinforced cutting corners, and a through grade, ensures increased process reliability and consequently longer tool life associated, with better hole quality.

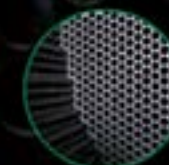
The WP40PD grade provides the right toughness to face even the most unstable cutting conditions while also suitable for MQL applications.

The PK(M) point geometry is designed to operate high feed rates and provide the right guidance for improved hole straightness.

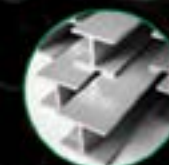
The FPE(M) flat bottom geometry is the solution to address the most challenging operations such as thin stack plate drilling, half holes, and any other applications where the standard 140° shows limits. FPE(M) can also be used as pilot for deep-hole drills.



Baffles



Tube Sheets



I-Beams



Valves



Cable Tensioner  
- Post Tension System



Axles



Track Drive  
Components



TDM1  
Modular Drills

TDM1™




UP(M)



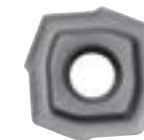


## Top Cut 4 Indexable Drills

# Top Cut 4™



-V34



-V36



-V36  
WN10PH



-V38



**WIDIA** 

**WIDIA** 



# WGC

**WGC**  
Grooving and Cut-Off



 **ALL-STAR**



## Grooving

Precision Moulded  
and Ground



**P M N S**

PT-Positive Rake

Precision Moulded



**P M K H**

PN-Negative Rake

## Cut-Off

Precision Moulded  
and Ground



**P M N S**

F-Fine

Precision Moulded



**P K**

M-Medium



**P M**

R-Rough

## Profiling

Precision Ground



**P M N S**

PC-Full Radius

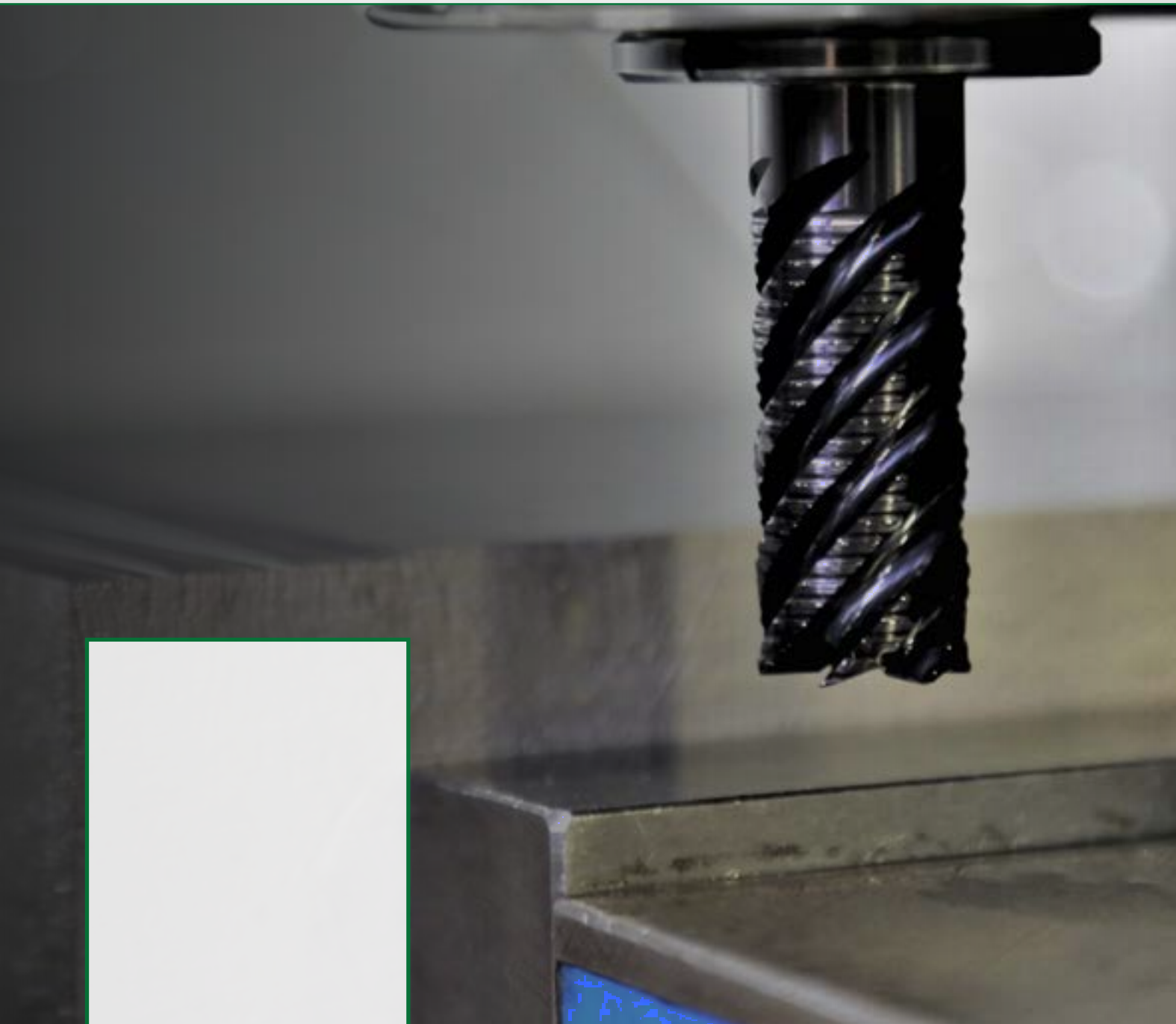
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**WIDIA** 



**70NS, 4U80, 4U50**  
High-Performance Solid Carbide End Mills

# 70NS, 4U50, 4U80



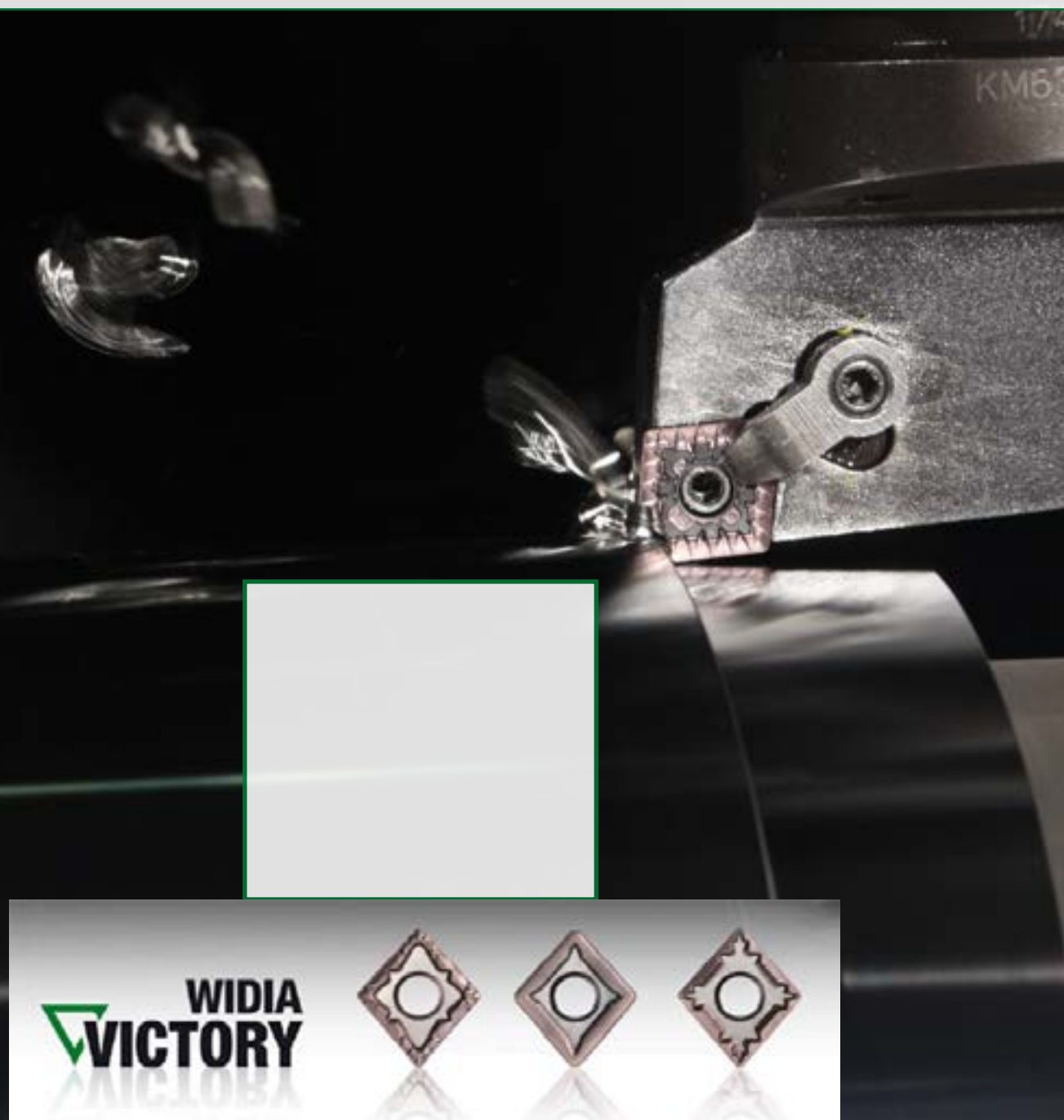
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# ISO TURNING

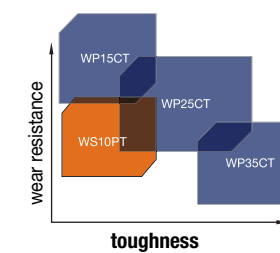
**WIDIA™ Victory™**  
A complete high-performance turning portfolio



**WIDIA  
VICTORY**

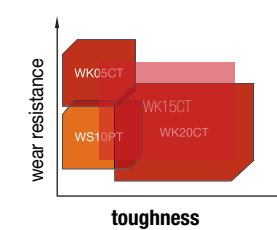


## Victory Toughness/Wear Resistance



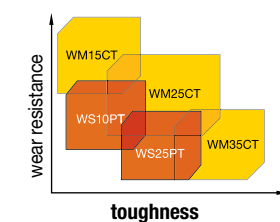
### WP Grades for Steel

- Three grades and seven primary geometries for use in roughing to finishing operations.
- Increase cutting speed and/or feed rate to gain productivity.



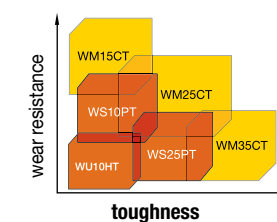
### WK Grades for Cast Iron

- Two grades to cover all of your cast iron turning operations.
- Very good balance of wear resistance and toughness for long predictable tool life. Flat top geometry for machining cast iron. For finishing to roughing applications.
- New grade WK15CT



### WM Grades for Stainless Steel

- Three grades across 12 geometries for use in roughing to finishing operations.
- Increase cutting speed and/or feed rate by up to 30% over similar competitive grades.



### WS Grades for High-Temp Alloys

- Two grades for use in roughing to finishing operations.
- Very good wear resistance for longer tool life.
- One uncoated grade for use in titanium.

**WIDIA**

**WIDIA**