

# ISO insert with wiper **TMV-WP**

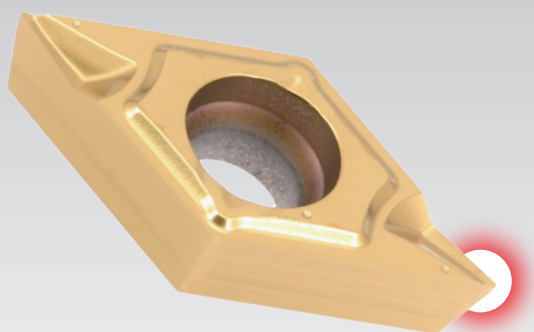
For External machining | CNC automatic lathes



**New**

## **TMV-WP**

Higher feed rates are possible compared to conventional inserts.



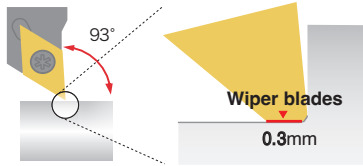
## **Double the Feed, Double the tool life**

Contributes to shorter machining time & extended tool life.

**CERtainly** [but not only] **CERamics**  
Outstanding solutions for demanding applications

## Performance

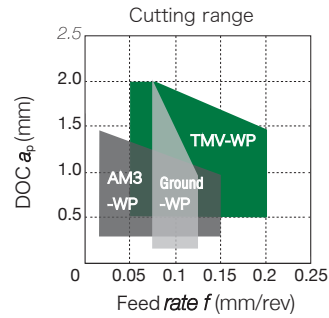
Achieves superior surface finish.  
Maintains good surface finish even at high feed rate, enhancing productivity for workpieces requiring high machining accuracy.



Please use 93 degree set angle toolholder.

\* The wiper function is effective when the cutting edge is parallel to the workpiece surface.

## Function range



Allows for a wider cutting range, higher feed and deeper cuts.

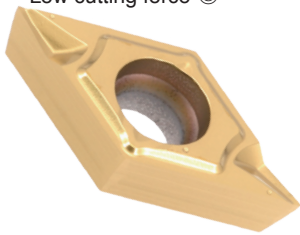
## Recommendation

Conventional: Mold chipbreaker AM3-WP	Conventional: Ground - Chipbreaker S/U-WP
Toughness◎	Sharpness◎

**New** 1st recommendation **TMV-WP**

Good chip control ◎  
Low cutting force ◎

Chipbreaker shape suitable for high feed rates achieves excellent chip control and low cutting force.



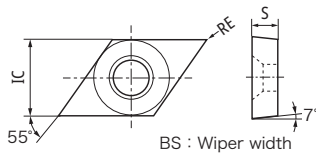
High feed rates allows  
Extend tool's life Reduce machine time



## Practical example

Insert	TMV-WP
Workpiece	SUS303
Cutting speed (m/min)	77
Feed rate (mm/rev)	0.06
DOC (mm)	1.7
Coolant	WET
Results	<p>Number of workpiece (pcs/corner)</p> <p>NTK Competitor</p> <p>Tool life 1.6 times</p> <p>Machining Time</p> <p>6.6 sec 9.5 sec</p> <p>2.9s reduced</p>

## Lineup



Recommended Grade : 1st ◆ 2nd ◆

	P Steel	M Stainless steel	N Nonferrous metals	S Heat-resistant alloys
1st	◆	◆	◆	◆
2nd	◆	◆	◆	◆

Shape	Item number	Dimensions				PVD Coated grade			
		IC	S	RE	BS	650	ST4	DM4	TM4
<b>New</b> TMV	DCGT11T301MRTMV-WP	9.525	3.97	0.08	(0.3)	●	●	○	○
	DCGT11T302MRTMV-WP			0.18		●	●	○	○

Above shows Right-handed insert

Standard item ● Made-to-order products ○

## TMV Chipbreaker centerline height

Item number	Centerline height from the reference surface (Blue)	Centerline height from the reference surface (Red)
DCGT11T301MRTMV-WP	0.51	0.08
DCGT11T302MRTMV-WP	0.53	0.10



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