

## MX-1 HOB

The resistance for the wear and the chipping get elevated to the next level.

### ● Characteristics

It combines the toughness of Powder HSS and the wear resistance of Dissolution HSS.

		<h3>MX-1</h3>
<p>Dissolution HSS</p>	<p>Powder HSS</p>	
<p>The carbide particle is bigger, so it has better wear resistance whereas the dropping off the particle leads the severe chipping.</p>	<p>The carbide particle is smaller and evenly placed, so it has lesser wear resistance whereas the dropping off the particle doesn't lead the severe chipping.</p>	<p>The carbides are uniformly dispersed, and the particle size is maintained almost same as the dissolution HSS.</p>

### ● Cutting result

**【Workpiece Dimensions】**

Module 2.25 PA 17.5°

NT 46 HA 23°

Material SCM415

**【Hob Dimensions】**

3 starts 16 flutes

MACH7 (HSS) / NEW MATERIAL MX-1

SuperDryIII PVD

(Coat on the cutting face and flank)

**【Cutting Conditions】**

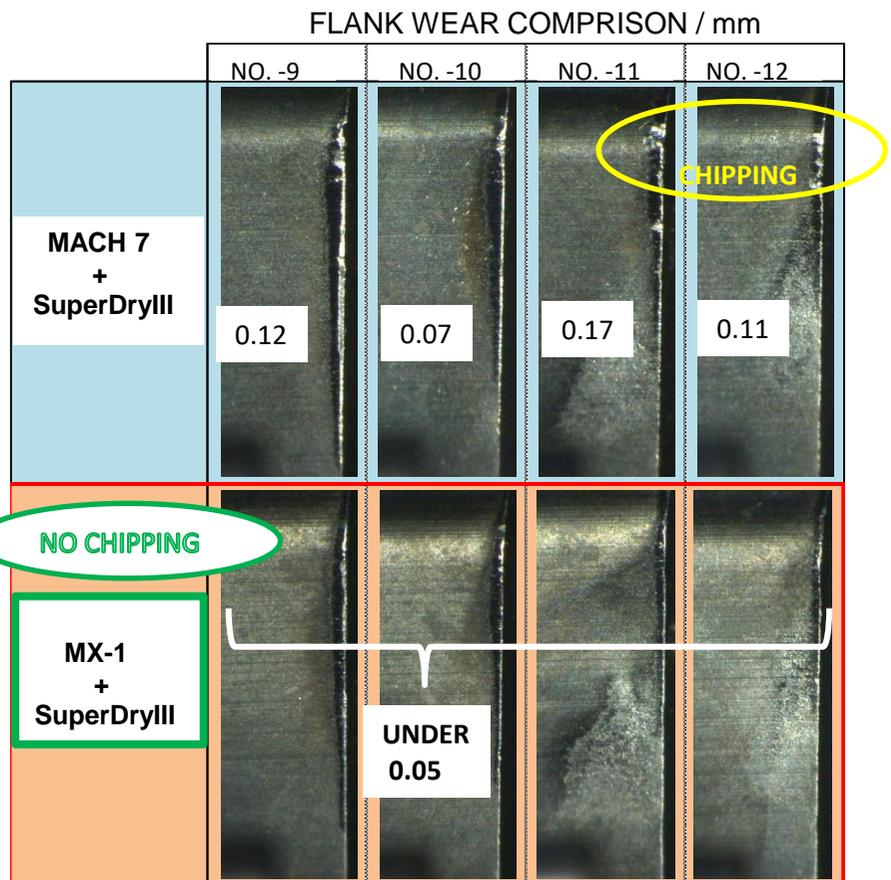
Dry cut

Cutting speed 250m/min

Axial feed 2.4mm/rev

Climb cut

Cutting length 80m ( No shift)



## NIDEC MACHINE TOOL CORPORATION