



PRODUCTS INTRODUCE

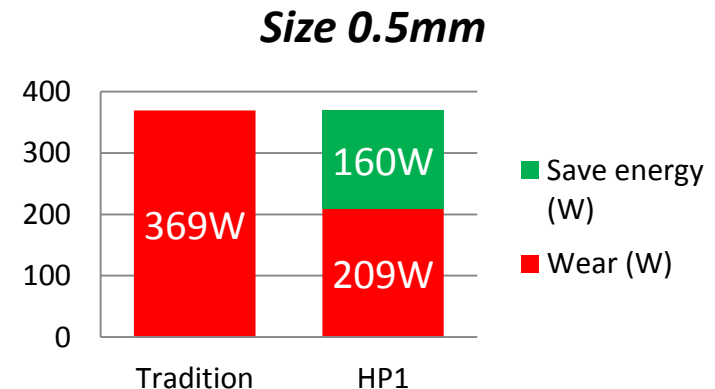
Innovative Features(1/4)

★ 6 Axis CNC Drilling EDM Features

HP1 / HP1+ (High Speed Discharge Circuit):



- Machining Speed **is faster 40% standard machine**
- Save 30% energy
- To meet aerospace requirement with high efficiency, high accuracy and Breakthrough function, and less re-casting layer.

Information	Time	
	New product HP1(Special liquid)	Japan (Special liquid)
Material : SAE4340 Size : Φ1.5 Thickness: 102mm	2' 5"	4'



Innovative Features(2/4)

▶ New product HP1 & Original/Japan product Comparison

Information	Time		Conclusion
	New generator HP1	Original	
Material : SAE4340 Size : Φ1.5 Thickness: 102mm	4' 8"	10' 30"	HP1 Speed ↑60% Wear ↓0% Save energy 28% 
Information	Time		Conclusion
	New generator HP1(Special liquid)	Japan (Special liquid)	
Material : SAE4340 Size : Φ1.5 Thickness: 102mm	2' 5"	4'	HP1 Speed ↑48% Wear ↓30% Save energy 28% 

Innovative Features(3/4)

► New Generator HP1 & HP1+ product Comparison

1. HP1+ Drill on tungsten carbide, all size, better than (HP1) 30~50%.

For example :

Information	Time	
	HP1	HP1+
Material : Carbide Dia. : 2.0mm Thickness : 89mm	1h30min	45min

2. HP1+Drilling on steel, under dia. 0.5mm better than (HP1) around 30%

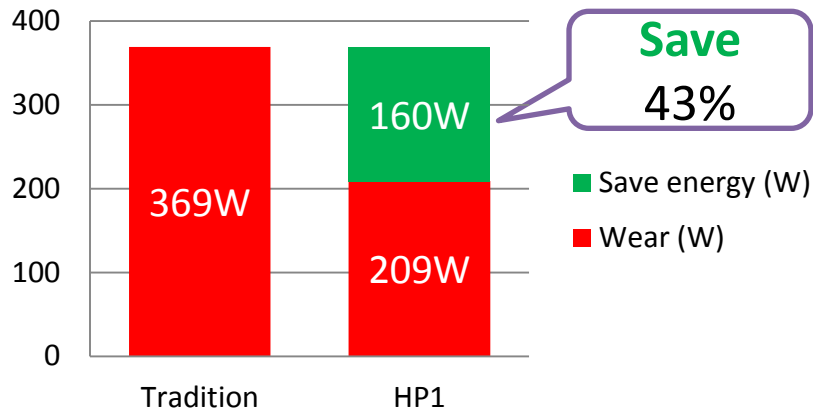
For example:

Information	Time	
	HP1	HP1+
Material : Steel Dia. : 0.3mm Thickness : 30mm	1'20"	50"

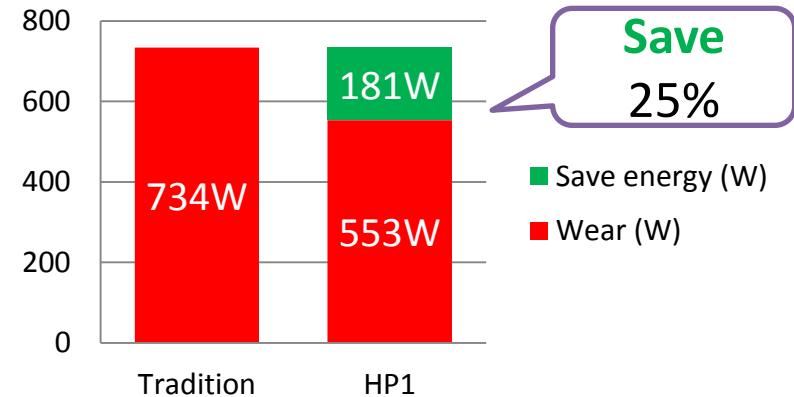
Innovative Features(4/4)

▶ New product HP1 & Standard type comparison – Save energy

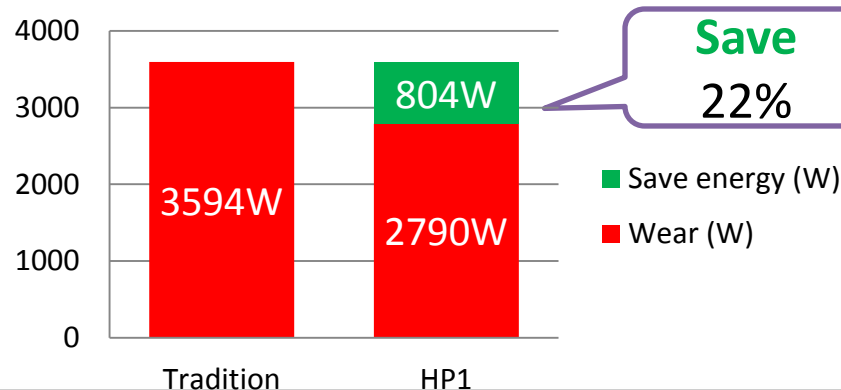
Size 0.5mm



Size 1.0mm



Size 3.0mm





THE END

THANK YOU~