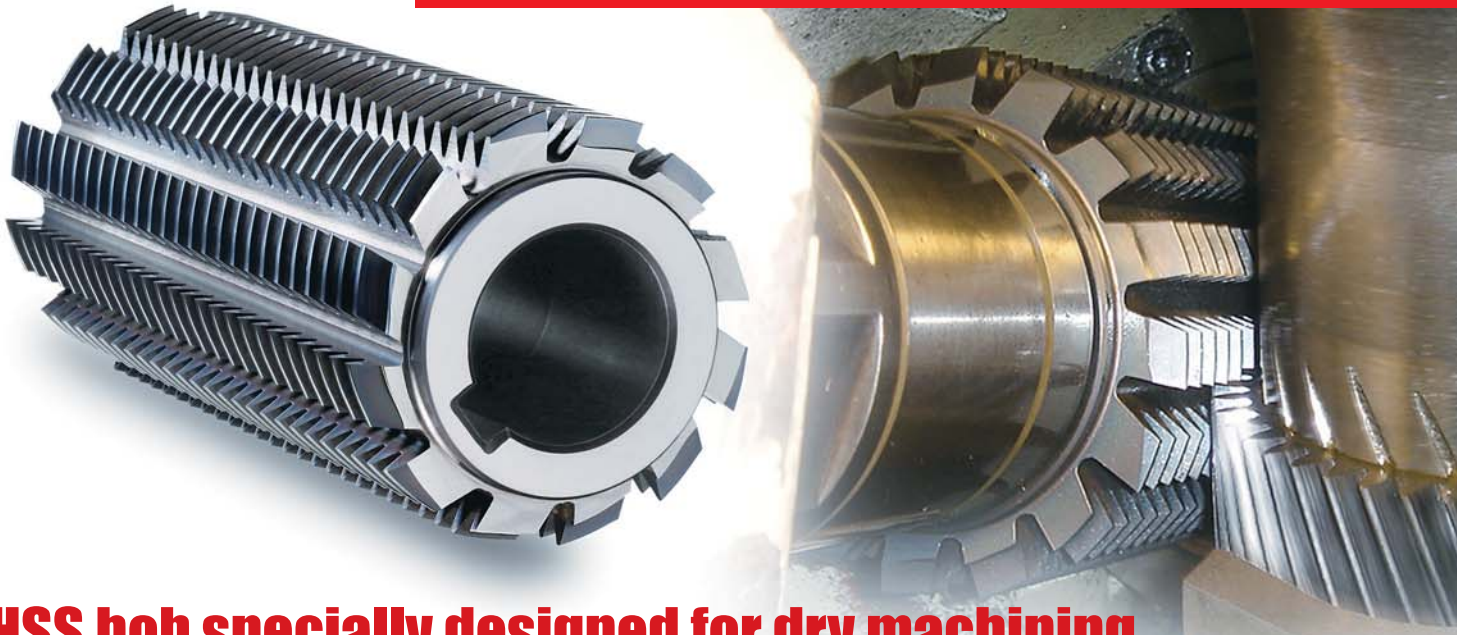


HSS hob for high-speed dry machining ***DP coated hob***



HSS hob specially designed for dry machining. Offers higher efficiency and longer tool life when high-speed dry machining.

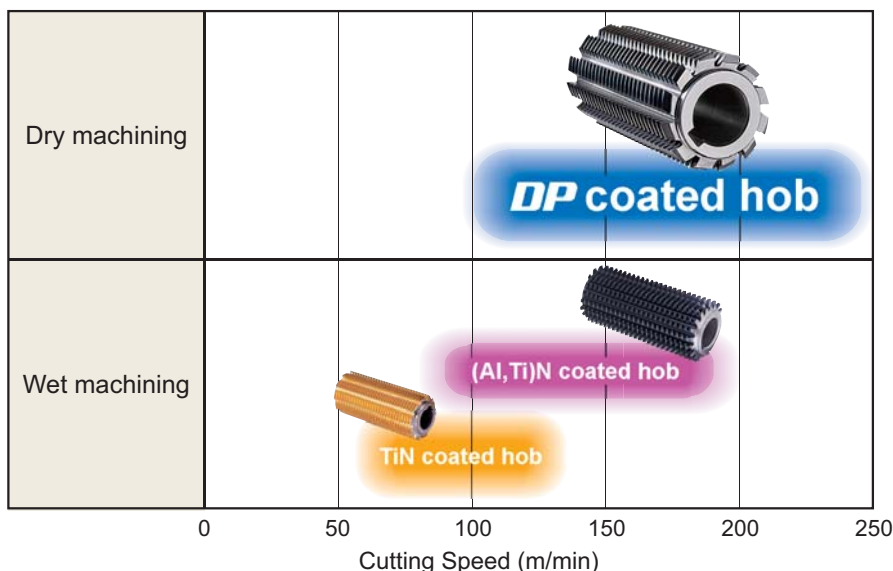
■ Features

- Newly developed DP coating*1 is applied. In comparison with the conventional (Al,Ti)N coating, heat and wear resistance has been improved, making it ideal for use in high-speed dry machining applications.

	DP coating	(Al,Ti)N coating	TiN coating
Hardness (HV)	3300	2800	1900
Oxidation temperature (C°)	1250	840	620

*1 PAT. pending

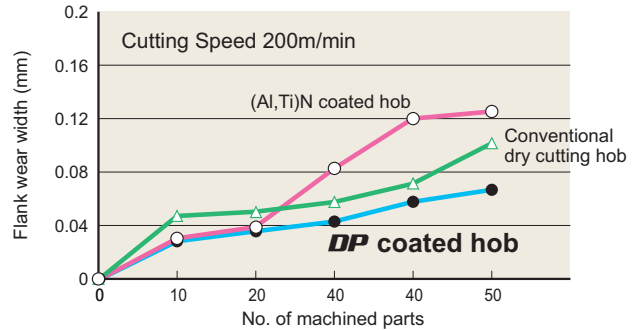
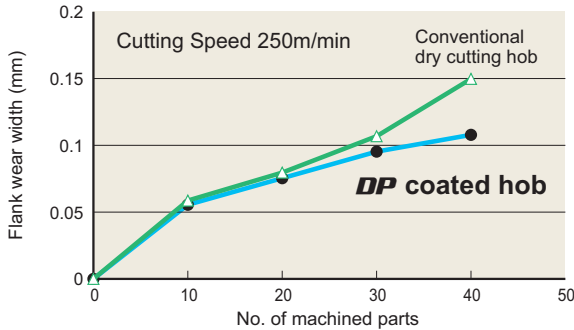
- The special tool design for dry machining and the smooth surface treatment enables longer tool life even when high-speed machining (cutting speed over 200m/min).



DP coated hob

Machining Example

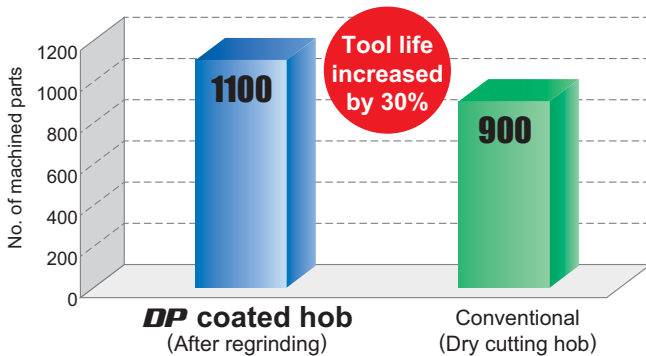
Excellent wear resistance in comparison with the conventional hob even when high-speed machining (cutting speed over 200m/min).



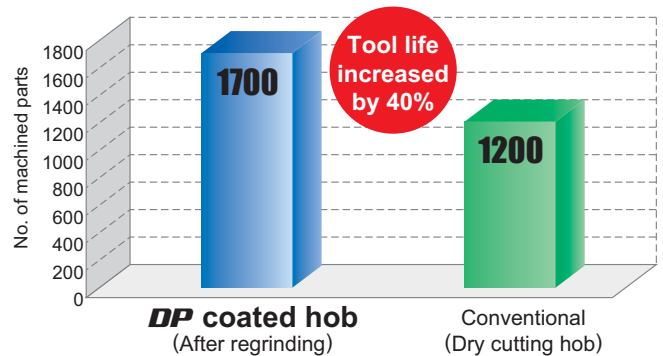
Hob	φ85 x 100 With a coated rake
Gear specifications	m1.75 PA17.5° NT48 Left helix 25° Tooth width 50mm SCr420H
Cutting conditions	vc=200 / 250m/min Dry cutting (air blow)

Performance report

Higher machining performance than the conventional hob even when dry machining with a non-coated rake.



Hob	With a non-coated rake
Gear specifications	m2 PA20° NT78 Auto parts SCr420H
Cutting conditions	vc=130m/min Dry cutting (air blow)



Hob	With a non-coated rake
Gear specifications	m2.7 PA18.5° NT18 Auto parts SCr420H
Cutting conditions	vc=130m/min Dry cutting (air blow)

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(Tools specifications subject to change without notice.)