

## Extend Tool Life with Penta HD

Dormer Pramet adds to the Pramet indexable offer with the Penta HD, a highly productive milling cutter for heavy duty roughing.

The Penta HD allows operators to utilize the full power of machines, as well as safely perform heavy roughing operations including full depth-of-cut machining.

An innovative clamping system allows changing of the insert without removing the screw. The Penta HD is a hard working product with depth-of-cut capability of 0.394 inches, suitable for demanding applications.

Available in diameters of 4" - 12"

### Your Benefits

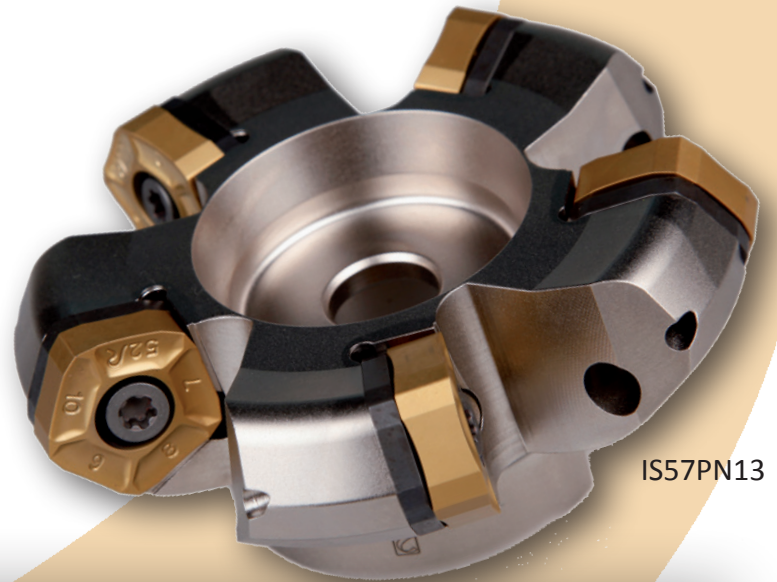
- Increased metal removal due to double-sided insert design with 10 cutting edges
- No cool down period required before indexing, allowing for more machine uptime



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IS57PN13

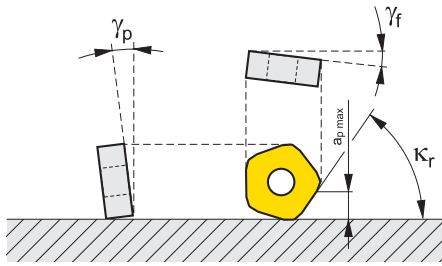
### Want to learn more?

Ask for our technical handbook or sign up for eLearning online.

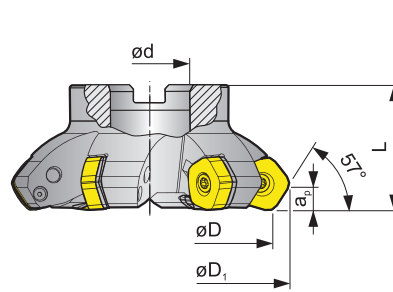
**Your one-stop manufacturer** - Ask about our Solid Carbide End Mills

# Penta HD

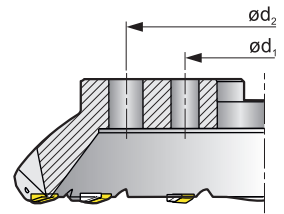
## Negative Face Milling Cutters



$\gamma_p$	-4°	$\kappa_r$	57°
$\gamma_f$	-8° - -5°	$a_{p,max}$	.394 in



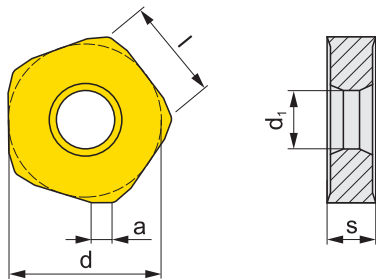
$\varnothing 4.000 - 6.000$  in



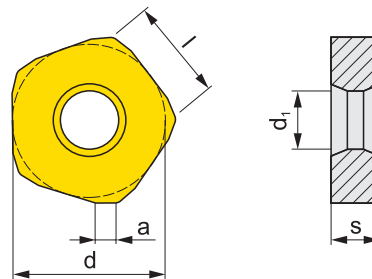
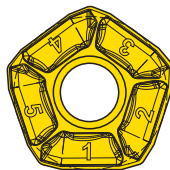
$\varnothing 8.000 - 12.000$  in

Designation	Availability	Dimensions							lbs
		D	$D_1$	d	$d_1$	$d_2$	L	No of teeth	
400A05R-IS57PN13	Standard	4.000	4.629	1.500	—	—	1.969	5	2.63
500B06R-IS57PN13	Standard	5.000	5.629	1.500	2.205	—	2.480	6	5.03
600B08R-IS57PN13	Standard	6.000	6.628	2.000	3.465	—	2.480	8	7.04
800C10R-IS57PN13	Standard	8.000	8.627	2.500	4.000	—	2.480	10	14.73
1000C12R-IS57PN13	Non-standard	10.000	10.627	2.500	4.000	—	2.480	12	27.54
1200C14R-IS57PN13	Non-standard	12.000	12.627	2.500	4.000	7.000	3.150	14	45.52

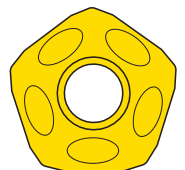
## Inserts for Negative Face Milling Cutters



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Designation	Grades				Dimensions				
					l	d	s	$d_1$	a
PNMU 1308DNSR-M	M9340	M8345	8215	8230	.512	.961	.313	.394	.118
PNMQ 1308DNSN	M9340	M8345		8230	.512	.961	.313	.394	.118