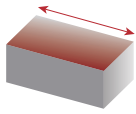
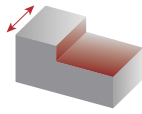


High-Performance Face Milling



Facing



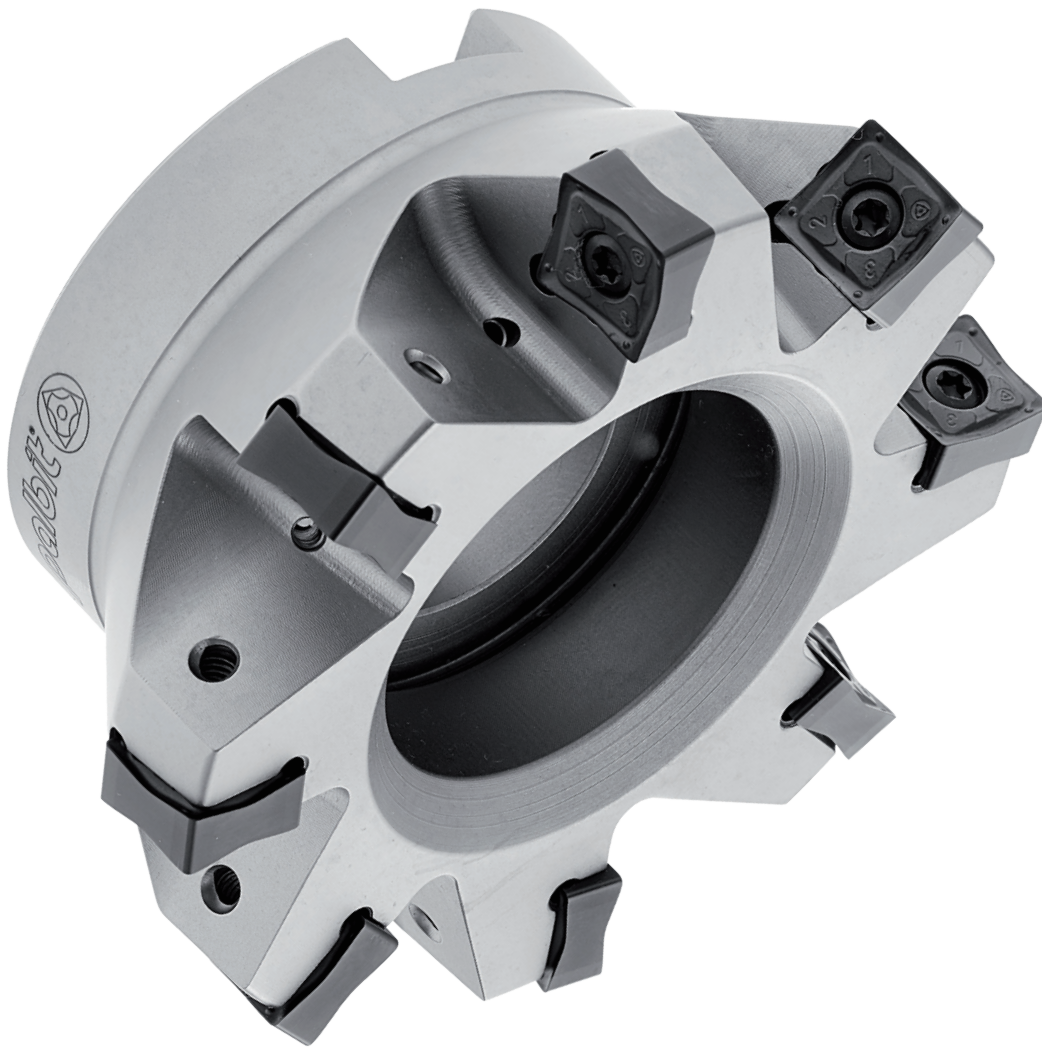
Shouldering

palbit[®]
TOOLING SOLUTIONS EXPERTS
SINCE 1916

PalbitUSA.com

PILOT
Precision Products

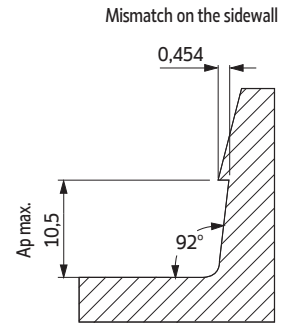
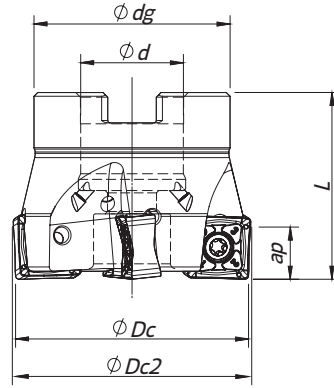
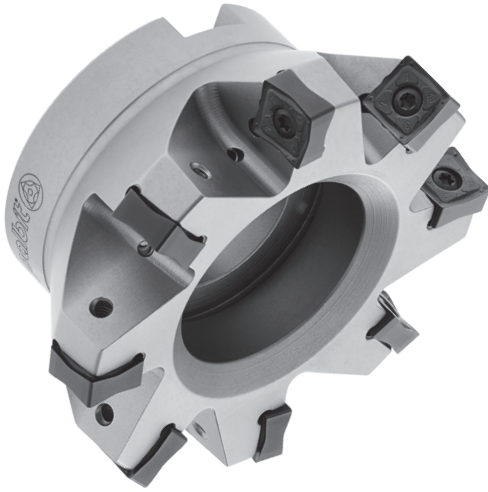
PLUS
SN88-12



INSERT SIZE
12 SN...
1206



SINCE 1916



Arbor Mounting
 $K_r=88^\circ$ | $\gamma_p=-6^\circ$

Order code	Reference		Dimensions (in)					lbs	Specifications		Insert	Stock
			ϕDc	$\phi Dc2$	ϕd	ϕdg	L		Arbor Type	Ap max (in)		
181103400	SN88 D2.00-A.750/1.75-04-12	4	2.000	2.035	0.750	1.772	1.750	0.92	A	0.413	SN... 1206...	
181103500	SN88 D2.00-A.750/1.75-05-12	5	2.000	2.035	0.750	1.772	1.750	0.88	A	0.413	SN... 1206...	
181103600	SN88 D2.50-A1.00/1.75-05-12	5	2.500	2.535	1.000	2.205	1.750	1.14	A	0.413	SN... 1206...	
181103700	SN88 D2.50-A1.00/1.75-06-12	6	2.500	2.535	1.000	2.205	1.750	1.10	A	0.413	SN... 1206...	
181103800	SN88 D3.00-A1.00/2.00-07-12	7	3.000	3.035	1.000	2.205	2.000	2.20	A	0.413	SN... 1206...	
181103900	SN88 D3.00-A1.00/2.00-09-12	9	3.000	3.035	1.000	2.205	2.000	2.12	A	0.413	SN... 1206...	
181139100	SN88 D4.00-A1.50/2.50-08-12	8	4.000	4.035	1.500	2.874	2.500	3.52	A	0.413	SN... 1206...	
181139200	SN88 D4.00-A1.50/2.50-11-12	11	4.000	4.035	1.500	2.874	2.500	3.30	A	0.413	SN... 1206...	
181104000	SN88 D4.00-A1.25/2.00-08-12	8	4.000	4.035	1.250	2.874	2.000	3.52	A	0.413	SN... 1206...	
NEW 181104100	SN88 D4.00-A1.25/2.00-11-12	11	4.000	4.035	1.250	2.874	2.000	3.30	A	0.413	SN... 1206...	
181104200	SN88 D5.00-A1.50/2.50-12-12	12	5.000	5.035	1.500	3.386	2.500	6.83	A	0.413	SN... 1206...	
181104300	SN88 D6.00-A2.00/2.50U-18-12	18	6.000	6.035	2.000	4.882	2.500	7.71	B	0.413	SN... 1206...	
181104400	SN88 D8.00-A2.50/2.50U-14-12	14	8.000	8.035	2.500	5.512	2.500	13.90	C	0.413	SN... 1206...	
181104500	SN88 D10.0-A2.50/2.50U-22-12	22	10.000	10.035	2.500	7.087	2.500	15.87	C	0.413	SN... 1206...	

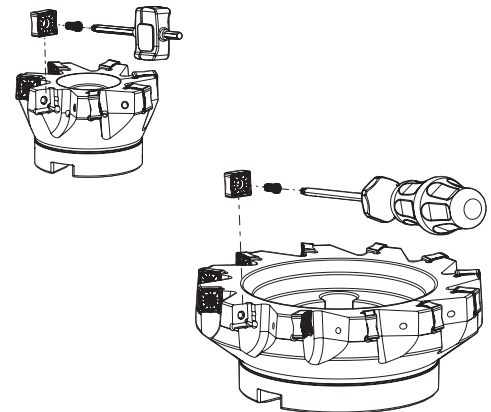
Stock item

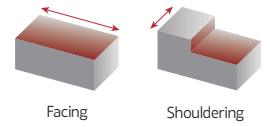
Available Upon Request (see page A-10)

Inventory maintained. To be replaced by new item.

SPARE PARTS

Cutter ϕDc	Order separately			
	Insert Screw	Key (Torx)	Key (Torx - lbf/in)	Torque Value
SN88-A-12 - 2.00-3.00				26.6
SN88-A-12 - 4.00-10.00				26.6



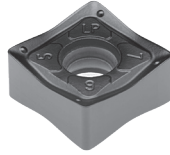


SNH(K)U 1206

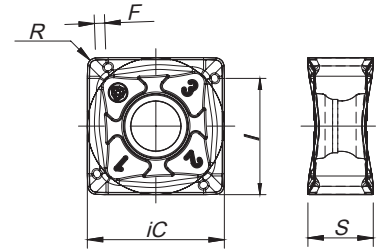
SNHU-LP
(PHP grade)



SNKU-LP
(PHP grade)



SNH(K)U-LP



Geometry code	ISO Reference	P						M			K						Dimensions (in)							
		CVD		PVD				PVD			CVD			PVD										
		T9	G4	T1	P3	P4	G6	P3	X9	G6	L5	L6	L9	T9	G4	T1						P3	P4	G6
1112020	SNHU 120608 ZNER-LP			⊗		⊗	⊗			⊗	⊗					⊗	⊗	⊗	⊗	0.524	1/4	0.457	0.031	0.039
1112278	SNKU 120608 ZNER-LP	⊗	⊗	⊗	⊗		⊗	⊗		⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	0.524	1/4	0.457	0.031	0.039

⊗ First choice
⊗ Stock Items

⊗ Stock available until sold out
○ Available Upon Request (see page A-11)

Insert Order Code: ⁽¹⁾ Geometry code + ⁽²⁾ Grade code

GRADES SELECTION GUIDE

ISO	PSM	Material	HB (Brinell)	Grades									
				← Wear Resistance						Toughness →			
				PH5705	PH5320	PHP920	PH7920	PHP930	PH7930	PHH930	PH5740	PHS740	PH7740
P	1	Unalloyed Steel	125-220			✓	✓	✓	✓			✓	✓
	2	Low-Alloyed Steel	220-280			✓	✓	✓	✓			✓	✓
	3	High-Alloyed Steel	280-380			✓	✓	✓	✓			✓	✓
M	4	SS - Ferritic / Martensitic	200-330					✓	✓	✓			✓
	5	SS - Austenitic	200-330					✓	✓	✓			✓
	6	SS - Austenitic-ferritic (Duplex)	230-260					✓	✓	✓			✓
K	7	Malleable Cast Iron	130-230	✓	✓	✓	✓	✓	✓		✓		✓
	8	Grey Cast Iron	180-245	✓	✓	✓	✓	✓	✓		✓		✓
	9	Nodular Cast iron	160-250	✓	✓	✓	✓	✓	✓		✓		✓

● Good Conditions

● Average Conditions

● Difficult Conditions

RECOMMENDED CUTTING CONDITIONS

ISO	PSM	Material	HB (Brinell)	Vc (sfm)		
				← Wear Resistance		Toughness →
				PH5705	PH7920	PH7930
P	1	Unalloyed Steel	125-220	-	590-787	525-722
	2	Low-Alloyed Steel	220-280	-	525-722	459-656
	3	High-Alloyed Steel	280-380	-	459-689	394-623
M	4	SS - Ferritic / Martensitic	200-330	-	459-722	459-656
	5	SS - Austenitic / Duplex	200-330	-	426-590	394-525
	6	SS - Duplex	230-260	-	394-525	328-459
K	7	Malleable Cast Iron	130-230	525-951	525-853	492-787
	8	Grey Cast Iron	180-245	558-1050	459-787	459-754
	9	Nodular Cast iron	160-250	459-656	394-656	328-623

← Wear Resistance		Vc (sfm)	Toughness →	Feed fz (in/t)
PH5740	PH7740	SNH(K)U 1206...		
-	459-656	0.004-0.014		
-	426-590	0.004-0.014		
-	328-558	0.004-0.014		
-	426-590	0.004-0.014		
-	361-525	0.004-0.014		
-	-	0.004-0.014		
525-853	459-722	0.004-0.014		
459-787	394-689	0.004-0.014		
394-656	328-623	0.004-0.014		

(Note 1) The above table indicates the cutting conditions of 70% of the tool engagement.

(Note 2) With low workspace clamping rigidity or long overhang of the tool, adjust cutting speed and feed to 70 or 80% of the recommended conditions above

(Note 3) Surface finishing is determined by speed/feed used.

(Note 4) PH5... can be used wet or dry. PH7... use only air.

Selection Example:

ISO	PSM	Material	HB (brinell)	Vc (sfm)		Feed fz (in/t)
				← Wear Resistance	Toughness →	
				PH5705	PH5740	SNHU 1206... SNKU 1206...
K	7	Malleable cast iron	130-230	525 (591) 968	460 (525) 820	0.004 (0.010) 0.014
	8	Grey cast iron	180-245	558 (886) 1 116	476 (591) 919	0.004 (0.010) 0.014
	9	Nodular cast iron	160-250	394 (492) 656	345 (492) 558	0.004 (0.010) 0.014

This example shows the recommended starting cutting conditions, indicated in Bold type.



PLUS
SN88-12

U.S. Partner:



15 Merrigan Way | South Deerfield, MA 01373

413-350-5200 | PilotPrecision.com

ISO 9001:2015

