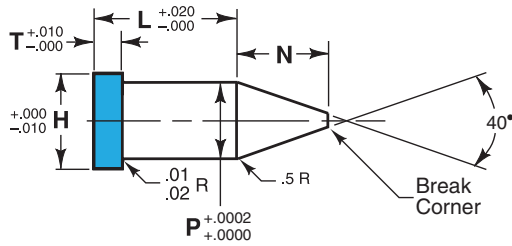


# PORTER Ultra Precision Sur-Align Pilots (PAP-)

## Sur-Align Straight (PAPQ)

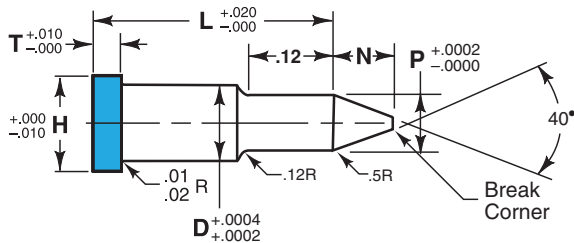


Ordering Example: Qty Steel Type LP Dim. Alt.  
10 M2 PAPQ 0.87 .270 RL.725

Steel: A2, M2 Rc 60-63  
PM4 Rc 63-65  
© .0003 P to D

Type	Range P	Max N	Head		Lengths L						
			T	H	0.625	0.750	0.875	1.000	1.125	1.250	1.375
PAPQ	.1865-.2500	.25	.188	.375	●	●	●	●	●	●	●
PAPQ	.2501-.3125	.31	.188	.438	●	●	●	●	●	●	●
PAPQ	.3126-.3750	.37	.188	.500	●	●	●	●	●	●	●
PAPQ	.3751-.4375	.43	.188	.562	●	●	●	●	●	●	●
PAPQ	.4376-.5000	.50	.188	.625	●	●	●	●	●	●	●
PAPQ	.5001-.6250	.62	.188	.750	●	●	●	●	●	●	●
PAPQ	.6251-.7500	.75	.188	.875	●	●	●	●	●	●	●
PAPQ	.7501-.8750	.87	.188	1.000	●	●	●	●	●	●	●
PAPQ	.8751-1.000	1.00	.188	1.125	●	●	●	●	●	●	●

## Sur-Align Nibbed (PAPN)



Ordering Example: Qty Steel Type D Code L P Dim.  
20 PM4 PAPN 75 1.37 .630

Steel: A2, M2 Rc 60-63  
PM4 Rc 63-65  
© .0003 P to D

Type	Shank D	Code	Min P	Range P	Max N	Head		Lengths L						
						T	H	0.625	0.750	0.875	1.000	1.125	1.250	1.375
PAPN 25	.2500	25	.092	.165-.2499	.25	.188	.375	●	●	●	●	●	●	●
PAPN 31	.3125	31	.092	.210-.3124	.31	.188	.438	●	●	●	●	●	●	●
PAPN 37	.3750	37	.092	.255-.3749	.37	.188	.500	●	●	●	●	●	●	●
PAPN 43	.4375	43	.092	.300-.4374	.43	.188	.562	●	●	●	●	●	●	●
PAPN 50	.5000	50	.124	.345-.4999	.50	.188	.625	●	●	●	●	●	●	●
PAPN 62	.6250	62	.234	.440-.6249	.62	.188	.750	●	●	●	●	●	●	●
PAPN 75	.7500	75	.299	.530-.7499	.75	.188	.875	●	●	●	●	●	●	●
PAPN 87	.8750	87	.349	.620-.8749	.87	.188	1.000	●	●	●	●	●	●	●
PAPN 100	1.0000	100	.399	.710-.9999	1.00	.188	1.250	●	●	●	●	●	●	●

Porter Ultra Precision Sur-Align Pilots (whether straight or nibbed) allow the die designer/builder to pilot in a much shorter area. By using Sur-Align Pilots in a guided stripper, much less deflection will occur

and the overall die life will be improved.

If additional wear ability is desired Porter offers various coatings to provide additional lubricity and life.