

Compact Positive Pick-Up Pilots

VERSATILE — Inch & Metric



Dayton Versatile Compact Positive Pick-Up Pilots—mounted in a guided stripper—provide exceptional resistance to lateral deflection. A typical *longer* pilot can have several inches of exposed, unsupported surface and be susceptible to added sideways movement, stress, and wear. Dayton Compact Pilots are rigid during use; last longer; and are ideally suited for high-demand manufacturing applications.

Stronger! Not Longer

*Rigid,
Long-Lasting*
Positive Pick-Up
Pilots

Compacts



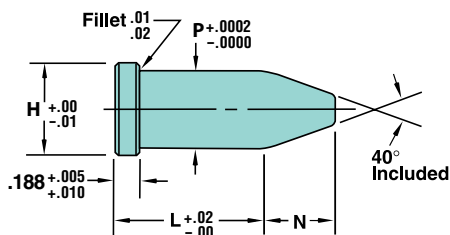
Global leader in
providing fabrication
and stamping solutions

www.daytonprogress.com

Type	Head H	Range P	N	*L						
				.625	.750	.875	1.00	1.125	1.250	1.375
VUAC Straight	.375	.1865 - .2500	.25	62	75	87	100	112	125	137
	.438	.2501 - .3130	.31							
	.500	.3131 - .3750	.37							
	.562	.3751 - .4380	.43							
	.625	.4381 - .5000	.50							
	.750	.5001 - .6250	.62							
	.875	.6251 - .7500	.75							
	1.000	.7501 - .8750	.87							
	1.125	.8751 - 1.0000	1.00							

*Any length is available within catalog range. Specify "XL" and length.

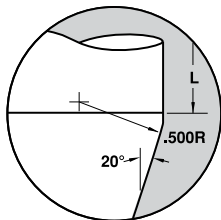
VUAC
Straight



VUAC and VPAC

Material

Steel: A2, M2, RC 60-63, PS, RC 63-65



Surface Coatings

Code / Added Delivery		Material
XNT —DayTiN®	+ 2 days	M2, PS
XCN —TiCN	+ 2 days	M2, PS
XAN —DayTAN® (TiAIN)	+ 4 days	M2, PS

HOW TO ORDER

Specify:	Qty.	Type	D Code	L	P Dimension	Alt.	Steel
Example:	25	VUAC	—	75	.4380	XL.695	A2
	11	VPAC	62	100	.5500	—	A2



Designer's Choice

In specifying die set components, designers have typically chosen so-called "standard" length pilots for most high-demand applications. In recent years, however, they have begun specifying shorter length pilots—especially in larger die set configurations. Longer pilots have two or more inches of unsupported surface that is susceptible to deflection. As bending or forming takes place, this lateral deflection can create excessive forces on the pilot. Often, the strength of the pilot—as well as the function of the other die set components—is compromised.

Dayton Compact Pilots

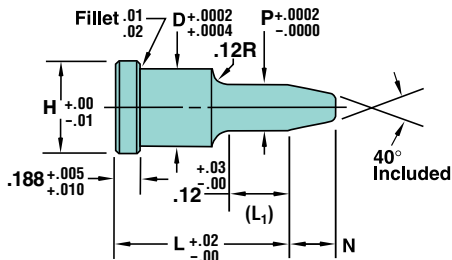
Dayton Compact Pilots provide virtually no unsupported surface that is susceptible to sideways movement, stress, or wear. Pilots—which are mounted in a guided stripper—always maintain the proper extension, and there is no need to move or adjust the pilot during regrinding.

Type	Shank D	Code	Head H	Min. XP	Range P	Max. N	*L						
							.625	.750	.875	1.00	1.125	1.250	1.375
VPAC Pointed	.2500	25	.375	.092	.1500 - .2499	.25	62	75	87	100	112	125	137
	.3125	31	.438	.092	.1870 - .3124	.31							
	.3750	37	.500	.092	.2250 - .3749	.37							
	.4375	43	.562	.092	.2650 - .4374	.43							
	.5000	50	.625	.124	.3000 - .4999	.50							
	.6250	62	.750	.234	.3750 - .6249	.62							
	.7500	75	.875	.299	.4500 - .7499	.75							
	.8750	87	1.000	.349	.5250 - .8749	.87							
	1.0000	100	1.125	.399	.6000 - .9999	1.00							

N = .132+ [(P-.057)/.728]

* Any length is available within catalog range. Specify "XL" and length. The point length is maintained. For other than standard point length use alteration code "XBR" (0.060 min.)

VPAC
Pointed



P to D .0003



Surface Coatings

Dayton Compact Pilots can be treated to increase hardness, improve wear, etc. The available coatings and added delivery times are shown in the charts on the appropriate product pages.

DayTiN® (XNT)—a hard-as-carbide (Vickers 2300) PVD coating that provides excellent lubricity when used with a lubricant.

TiCN (XCN)—a harder-than-carbide (Vickers 3000), very thin PVD film that provides superior hardness and extraordinary abrasive wear resistance.

DayTAN® (TiAlN)—an ultra-hard (Vickers 3400), high-aluminum PVD coating that absorbs shear stress and provides high-temperature toughness.

Standard Alterations

The following are standard alterations available on all Dayton Compact Pilots:

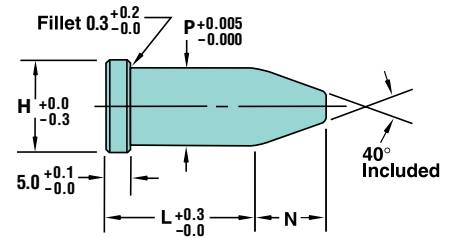
- XP**— P dimension smaller than standard
- XBR**— L_1 other than standard
- XL**— "L" shortened
- XT**— Thinner head than standard
- TT**— Precision head thickness
- XH**— Reduced head diameter
- XD**— Reduced shank diameter



Type	Head H	Range P	N	*L						
				16	20	22	25	28	32	35
DUAC Straight	7	3.00 - 4.00	4	●	●	●	●	●	●	●
	8	4.01 - 5.00	5	●	●	●	●	●	●	●
	9	5.01 - 6.00	6	●	●	●	●	●	●	●
	11	6.01 - 8.00	7	●	●	●	●	●	●	●
	13	8.01 - 10.00	8	●	●	●	●	●	●	●
	16	10.01 - 13.00	10	●	●	●	●	●	●	●
	19	13.01 - 16.00	15	●	●	●	●	●	●	●
23	16.01 - 20.00	20	●	●	●	●	●	●	●	

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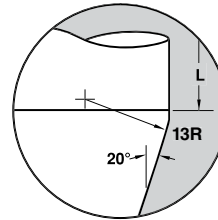
DUAC Straight



DUAC and DPAC

Material

Steel: A2, M2, RC 60-63, PS, RC 63-65



Surface Coatings

Code / Added Delivery	Material
XNT —DayTiN® + 2 days	M2, PS
XCN —TiCN + 2 days	M2, PS
XAN —DayTAN® (TiAlN) + 4 days	M2, PS

HOW TO ORDER

Specify:	Qty.	Type	D Code	L	P Dimension	Alt.	Steel
Example:	10	DUAC	—	22	7.50		A2
	25	DPAC	16	35	11.60	XL33.5	A2

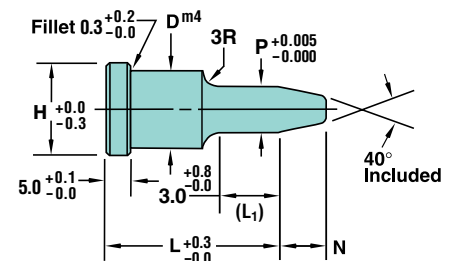


Type	Shank D	Code	Head H	Min. XP	Range P	Max. N	*L						
							16	20	22	25	28	32	35
DPAC Pointed	4.0	04	7	1.55	1.95 - 3.99	4	●	●	●	●	●	●	
	5.0	05	8	1.55	2.65 - 4.99	5	●	●	●	●	●	●	
	6.0	06	9	2.10	3.40 - 5.99	6	●	●	●	●	●	●	
	8.0	08	11	2.10	4.10 - 7.99	7	●	●	●	●	●	●	
	10.0	10	13	2.10	4.85 - 9.99	8	●	●	●	●	●	●	
	13.0	13	16	3.15	6.30 - 12.99	10	●	●	●	●	●	●	
	16.0	16	19	5.95	9.95 - 15.99	15	●	●	●	●	●	●	
	20.0	20	23	5.95	13.60 - 19.99	20	●	●	●	●	●	●	
	25.0	25	28	7.95	17.25 - 24.99	25	●	●	●	●	●	●	
	32.0	32	35	9.95	20.85 - 31.99	30	●	●	●	●	●	●	

$N=3.35+[(P-1.45)/.728]$

* Any length is available within catalog range. Specify "XL" and length. The point length is maintained. For other than standard point length use alteration code "XBR" (1.5 min.)

DPAC Pointed



P to D 0.008

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