

Compact Positive Pick-Up Pilots

VERSATILE & PRESS FIT — Metric



Dayton Versatile & Press Fit 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

a MISUMI Group Company

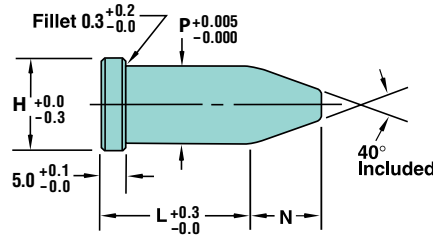
www.daytonlamina.com

Versatile

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	●	●	●	●	●	●	●

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

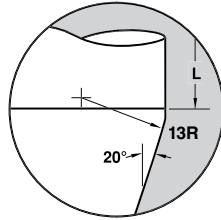
DUAC Straight



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	●	●	●	●	●	●	●

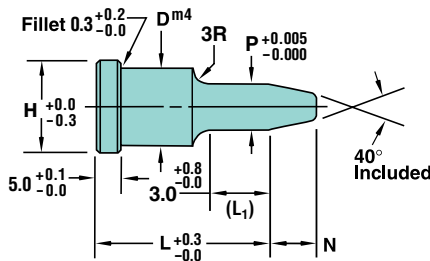
N=3.35+ [(P-1.45)/.728]

* 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 Ⓢ



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.



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 (XCXN)—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:

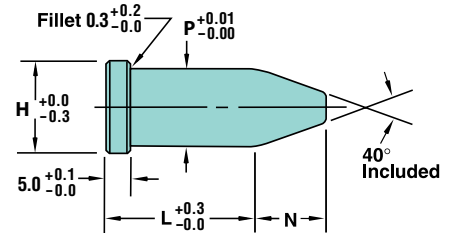
- XP**— P dimension smaller than standard
- XBR**— L_1 other than standard
- XL**— "L" shortened
- XT**— Thinner head than standard
- TT**— Precision head thickness
- XH**— Reduced head diameter
- XD**— Reduced shank diameter

Press Fit

Type	Head H	Range P	N	*L						
				16	20	22	25	28	32	35
AUAC 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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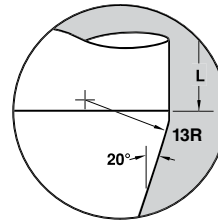
AUAC Straight



AUAC and APAC

Material

Steel: A2, M2, RC 60-63



Surface Coatings

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

HOW TO ORDER

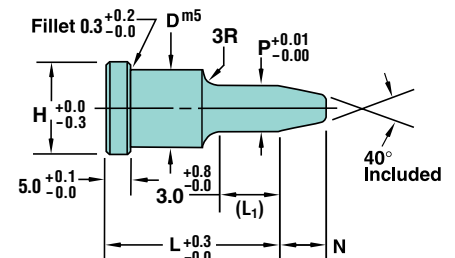
Specify:	Qty.	Type	D Code	L	P Dimension	Alt.	Steel
Example:	10	AUAC	—	20	8.70	—	M2
	22	APAC	10	32	9.90	XL 31.3	A2

Type	Shank D	Code	Head H	Min. XP	Range P	Max. N	*L						
							16	20	22	25	28	32	35
APAC 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	●	●	●	●	●	●	●

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

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APAC Pointed



P to D

Commitment to Quality & Customer Satisfaction

Dayton Lamina is a leading manufacturer of tool, die and mold components for the metal-working and plastics industries. As a customer-focused, world-class supplier of choice, we provide the brands, product breadth, distribution network and technical support for all your metal forming needs.

Our goal is to give our customers the most innovative and value-added products and services.



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