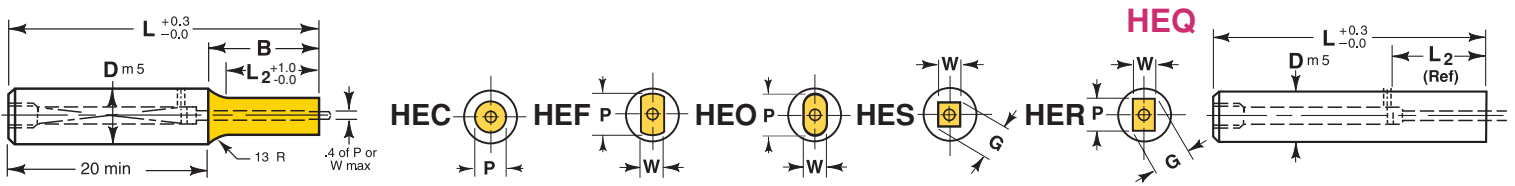


PORTER Standard Headless Retracto Punches & Blanks



Ordering Example:

Qty Steel Type Code L₂/L W P
15 M2 HEO 020 1963 10.25 x 19.99



Optional Locating Methods for details and options see page 38.

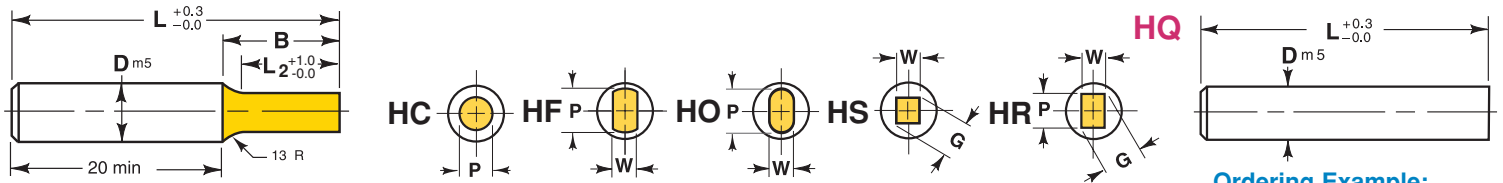
Ordering Example:

Qty Steel Type Code L₂/L
10 M2 HEQ 25 1970

Shank		L ₂		Lengths L									Point		Replacement Retracto Kit
D mm	Code No.	Std.	Alt.	45	50	56	60	63	70	71	80	90	100	Round Range P	
5	005	13	19	◆	●	●	●	●	●	●	●	●	●	1.60 – 4.99	1.60 5.00
6	006	13	19	◆	●	●	●	●	●	●	●	●	●	2.40 – 5.99	2.40 6.00
8	008	19	25		◆	●	●	●	●	●	●	●	●	3.20 – 7.99	3.20 8.00
10	010	19	25		◆	●	●	●	●	●	●	●	●	4.50 – 9.99	4.50 10.00
13	013	19	25		◆	●	●	●	●	●	●	●	●	6.00 – 12.99	6.00 13.00
16	016	19	25		◆	●	●	●	●	●	●	●	●	8.00 – 15.99	7.20 16.00
20	020	19	25		◆	●	●	●	●	●	●	●	●	10.00 – 19.99	8.00 20.00
25	025	19	25		◆	●	●	●	●	●	●	●	●	12.00 – 24.99	9.00 25.00

◆ Only available in Standard Point Length. * Retracto Kits available see page 36 for details. 5mm Ø = no side hole.

PORTER Standard Headless Punches & Blanks



Ordering Example: Qty Steel Type Code L₂/L P
25 M2 HC 13 2580 6.00

Ordering Example: Qty Steel Type Code L
12 M2 HQ 50 100

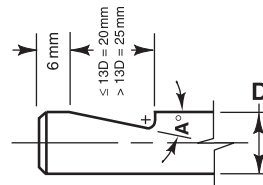
Shank		L ₂		Lengths L									Point		
D mm	Code No.	Std.	Alt.	45	50	56	60	63	70	71	80	90	100	Round Range P	Shape Min W Max P/G
5	005	13	19	◆	●	●	●	●	●	●	●	●	●	1.60 – 4.99	1.60 5.00
6	006	13	19	◆	●	●	●	●	●	●	●	●	●	1.60 – 5.99	1.60 6.00
8	008	19	25		◆	●	●	●	●	●	●	●	●	2.50 – 7.99	2.50 8.00
10	010	19	25		◆	●	●	●	●	●	●	●	●	3.20 – 9.99	3.20 10.00
13	013	19	25		◆	●	●	●	●	●	●	●	●	5.00 – 12.99	4.50 13.00
16	016	19	25		◆	●	●	●	●	●	●	●	●	8.00 – 15.99	6.00 16.00
20	020	19	25		◆	●	●	●	●	●	●	●	●	10.00 – 19.99	8.00 20.00
25	025	19	25		◆	●	●	●	●	●	●	●	●	12.00 – 24.99	9.00 25.00

◆ Only available in Standard Point Length.

STD LM-7	
D	A°
≤10mm	5°
13mm	7.5°
≥16mm	10°

Standard Alterations are changes that are beyond the ranges listed in the catalog that can be altered for a minimal charge. See page 37.

Steel: D2, M2 Rc 60-63
TOLERANCES
Round P $\begin{matrix} +0.01 \\ -0.00 \end{matrix}$ © 0.01 P to D
Shape P, W ± 0.01 © 0.02 P,W to D
Manufactured to ISO and NAPMA standards where applicable.
Back Draft 0.1/100mm L₂ max.



For Shape and Form Headless Punches Specify LM7 relation to shape. Standard location is at 0°. Alternate angles are available Specify LM7-12°.