LONG ALIGNING PUNCH

- Application: to align holes in two or more pieces of metal through which a bolt or screw is to be inserted.
- One-piece design for strength and durability.
- Reverse taper to help prevent binding.

Product #	Tip Width (in) (A)	Shank Width (in) (B)	Overall Length (in) (L)	Weight (lbs)
J155/8S2	3/16	5/8	16	0.90

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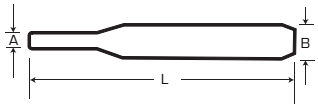

STARTING PUNCHES

- Similar to drift punches, but with wider points and heavier, shorter body.
- Application: to align holes in two or more pieces of metal through which a bolt or screw is to be inserted.
- Application: for installing and removing pins and shafts.
- One-piece design for strength and durability.
- Reverse taper to help prevent binding.

Product #	Tip Width (in) (A)	Shank Width (in) (B)	Overall Length (in) (L)	Weight (lbs)
J503/16S2	1/16	1/4	4-1/8	0.03
J501/4S2	3/32	1/4	5	0.06
J505/16S2	1/8	5/16	5-1/8	0.10
J503/8S2	3/16	3/8	5-5/8	0.17
J507/16S2	7/32	7/16	6	0.24
J501/2S2	1/4	1/2	6-1/2	0.33

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CENTER PUNCHES

- Application: metal working layout. Provides a broad dent in marking intersecting center lines, hole locations, and pilot drill starting point.
- One-piece design for strength and durability.

Product #	Shank Width (in) (B)	Overall Length (in) (L)	Weight (lbs)
J411/4S2	1/4	4-3/4	0.05
J415/16S2	5/16	4-5/8	0.09
J413/8S2	3/8	4-7/8	0.14
J417/16S2	7/16	5-1/4	0.19
J411/2S2	1/2	5-5/8	0.29
J415/8S2	5/8	6-1/4	0.45

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PRICK PUNCHES

- Application: sheet metal work for scribing and for punching starting holes for sheet metal screws.
- One-piece design for strength and durability.
- Reverse taper to help prevent binding.

Product #	Shank Width (in) (B)	Overall Length (in) (L)	Weight (lbs)
J441/4S2	1/4	4-3/4	0.06
J445/16S2	5/16	5	0.09
J443/8S2	3/8	5-1/4	0.14

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