SHAFTS

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SHAFT FEATURES

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A shaft is part of an assembly used to transmit power from one part to another. Keyed shafts have a key way milled axially along the full length of the shaft that holds key stock or machine keys to assembled components in a non-permanent manner. Partial key ways and other materials are available, including turned and polished and medium carbon steel (suitable to heat treat).



Prices, materials, dimensions, tolerances, designs, and grades subject to change without notice. © 2016 G.L. Huyett



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SHAFT TYPES



QUICK REFERENCE GUIDE

	COMMON NAMES	APPLICABLE STANDARDS	FABRICATION	HOW TO	COMMON USES	COMMENTS
KEYED	Pre-keyed Shaft; Keyed Shaft	ANSI B17.1; BS 4235	Shafts are formed by hot rolling and finished to size by cold drawing or turning and grinding. Key ways are machined into the shaft.	Diameter × length. The shaft diameter can be equal to or marginally less than nominal size.	Shafts, paired with key stock or machine keys, are used to transmit power from one part to another.	Depending on application, the shaft and key should be of comparable hardness.

MACHINING KEY WAYS

Key ways can be cut on a horizontal or vertical mill, a key seater, a vertical slotting machine, or a broach.

