

# TruKey® Shafting



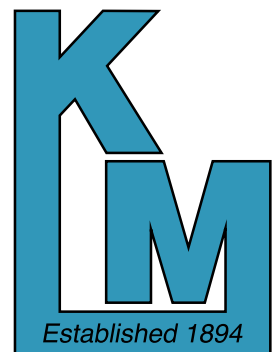
TruKey® Shafting from Keystone is designed to provide the straightest, most accurate keyed shafting in the industry. We stock TruKey® shafting in the most common diameters with standard keyways, and can provide it cut to any length up to 20'. TruKey® shafting is available in turned ground and polished carbon steel for an accurate diameter as well as 1018 cold finished steel and turned, ground and polished stainless steel.

All Trukey® Shafting has chamfered ends for easy installation.

***Keystone now stocks METRIC shafting!***

## Keystone Manufacturing

P.O. Box 270 • 668 Cleveland Street • Rochester, PA 15074  
ph: 724.775.2227 • 1.800.446.7205 • fax: 724.775.2739  
email: [sales@trukey.com](mailto:sales@trukey.com) • web: [www.trukey.com](http://www.trukey.com)



# TruKey® Shafting

## Sizes available

TruKey® shafting is available in lengths up to 20 feet and diameters ranging from 1/2" to 4 1/2". Tolerances on shaft diameters are +0.000, -0.002 inches. Keystone now stocks metric shafting.

## Unkeyed Shafting

Keystone Manufacturing can provide plain, unkeyed shafting in the sizes and materials listed above.

Material Specifications							
Material	Tensile Strength mpa	Tensile Strength psi	Yield Strength mpa	Yield Strength psi	Elongation in 2"	Reduction in Area	Brinell Hardness
1018	590	85,000	485	70,000	28%	55%	167
1045 TGP	690	100,000	590	85,000	19%	32%	223
1144 TGP	793	115,000	690	100,000	8%	25%	260
T-303 SS	515	75,000	205	30,000	40%	50%	160

ANSI Standard Keyways			
Shaft Diameter		Keyway	
Over	To (Incl.)	Width	Depth
7/16	9/16	1/8	1/16
9/16	7/8	3/16	3/32
7/8	1 1/4	1/4	1/8
1 1/4	1 3/8	5/16	5/32
1 3/8	1 3/4	3/8	3/16
1 3/4	2 1/4	1/2	1/4
2 1/4	2 3/4	5/8	5/16
2 3/4	3 1/4	3/4	3/8
3 1/4	3 3/4	7/8	7/16
3 3/4	4 1/2	1	1/2

Diameter	Weight (lbs.per ft.)	Diameter	Weight (lbs.per ft.)	Diameter	Weight (lbs.per ft.)	Diameter	Weight (lbs.per ft.)
1/2	0.67	1 1/2	6.10	2 1/2	16.69	3 1/2	32.71
9/16	0.85	1 9/16	6.52	2 9/16	17.53	3 9/16	33.89
5/8	1.04	1 5/8	7.05	2 5/8	18.40	3 5/8	35.09
11/16	1.26	1 11/16	7.60	2 11/16	19.28	3 11/16	36.31
3/4	1.50	1 3/4	8.18	2 3/4	20.19	3 3/4	37.55
13/16	1.76	1 13/16	8.77	2 13/16	21.12	3 13/16	38.81
7/8	2.04	1 7/8	9.39	2 7/8	22.07	3 7/8	40.09
15/16	2.35	1 15/16	10.02	2 15/16	23.04	3 15/16	41.40
1	2.67	2	10.68	3	24.03	4	42.72
1 1/16	3.01	2 1/16	11.36	3 1/16	25.04	4 1/16	44.07
1 1/8	3.38	2 1/8	12.06	3 1/8	26.07	4 1/8	45.43
1 3/16	3.77	2 3/16	12.78	3 3/16	27.13	4 3/16	46.82
1 1/4	4.17	2 1/4	13.52	3 1/4	28.20	4 1/4	48.23
1 5/16	4.60	2 5/16	14.28	3 5/16	29.30	4 5/16	49.66
1 3/8	5.05	2 3/8	15.06	3 3/8	30.41	4 3/8	51.11
1 7/16	5.52	2 7/16	15.86	3 7/16	31.55	4 7/16	52.58
						4 1/2	54.07

All sizes contained within these charts are in inches.

## Materials

- 1045 turned, ground and polished carbon steel (can be 1144 Stressproof)
- 1018 Carbon Steel, cold finished
- Stainless Steel, turned ground and polished

## Keystock

Keystone Manufacturing can also provide square keystock. All keystock will be ANSI standard as shown in the table below

Chemistry							
Material	Carbon C	Manganese Mn	Phosphorus P	Sulphur S	Silicon Si	Chromium Cr	Nickel Ni
1018	.15-.20	.60-.90	.04 max	.05 max.			
1045 TGP	.43-.50	.60-.90	.04 max	.05 max.			
1144 TGP	.4-.48	1.35-1.65	.04 max	.24-.33			
T-303 SS	.08 max	2.00 max	.045	.03	1.0 max	18.00-20.00	8.00-10.50

## Keyways

All TruKey® shafts have ANSI standard parallel keyways milled the entire length of the shaft.

ANSI Standard Fits for Square, Parallel Keys						
Key Width		Width Tolerance		Depth Tolerance		
Over	To (Incl.)	Key	Shaft Keyseat	Key	Shaft Keyseat	Hub Keyseat
-	1/2	+0.000	+0.002	+0.000	+0.000	+0.010
		-0.002	-0.000	-0.002	-0.015	-0.000
1/2	3/4	+0.000	+0.003	+0.000	+0.000	+0.010
		-0.002	-0.000	-0.002	-0.015	-0.000
3/4	1	+0.000	+0.003	+0.000	+0.000	+0.010
		-0.003	-0.000	-0.003	-0.015	-0.000

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