Keyed Rotary Shafts

A keyway milled into the length of the shaft prevents slippage between the shaft and the rotating machine element. Used in high-load applications such as hoists or precision applications such as robotics. **Carbon Steel** material is durable and wear resistant in applications where corrosion is not a concern. **Aluminum** is lightweight and resistant to chemicals, corrosion, high temperatures, and moisture. **304 Stainless Steel** offers corrosion resistance and strength, and maintains its properties in extreme temperatures. **316 Stainless Steel** is highly corrosion-resistant and commonly used in marine or other corrosive environments.

Dia. (in)	Keyway Width (in)	Keyway Depth (in)	Dia. Tolerance (in)	Overall Length 3 in Item No.	6 in Item No.	9 in Item No.	12 in Item No.	18 in Item No.	24 in Item No.	36 in Item No.	48 in Item No.	60 in Item No.	72 in Item No.
Carbon Steel													
5/8	3/16	3/32	±0.0025	797C09	797C19	797C25	797AZ7	797AZ8	797C03	797C06	797C12	797C15	797C22
3/4	3/16	3/32	±0.0025	797C40	797C50	797C56	797C29	797C30	797C34	797C37	797C43	797C46	797C53
7/8	3/16	3/32	±0.0025	797C61	797C64	797C66	797C57	797C58	797C59	797C60	797C62	797C63	797C65
15/16	1/4	1/8	±0.0025	797C71	797C74	797C76	797C67	797C68	797C69	797C70	797C72	797C73	797C75
1	1/4	1/8	±0.0025	797A64	797A85	797A91	797A65	797A66	797A70	797A73	797A78	797A81	797A88
1 1/8	1/4	1/8	±0.0025	797A96	797A99	797AA1	797A92	797A93	797A94	797A95	797A97	797A98	797AA0
1 3/16	1/4	1/8	±0.0025	797AA9	797AC4	797AC7	797AA3	797AA4	797AA6	797AA8	797AC1	797AC3	797AC6
1 1/4	1/4	1/8	±0.0030	797AD9	797AE8	797AF4	797AD0	797AD1	797AD3	797AD6	797AE2	797AE5	797AF1
1 3/8	5/16	5/32	±0.0030	797AF9	797AG2	797AG4	797AF5	797AF6	797AF7	797AF8	797AG0	797AG1	797AG3
1 7/16	3/8	3/16	±0.0030	797AH3	797AH6	797AH9	797AG6	797AG7	797AH0	797AH2	797AH4	797AH5	797AH8
1 1/2	3/8	3/16	±0.0030	797AJ8	797AK4	797AK8	797AJ1	797AJ2	797AJ4	797AJ6	797AK0	797AK2	797AK6
1 5/8	3/8	3/16	±0.0030	797AL3	797AL6	797AL8	797AK9	797AL0	797AL1	797AL2	797AL4	797AL5	797AL7
1 3/4	3/8	3/16	±0.0030	797AM3	797AM6	797AM8	797AL9	797AM0	797AM1	797AM2	797AM4	797AM5	797AM7
1 15/16	1/2	1/4	±0.0035	797AN3	797AN6	797AN8	797AM9	797AN0	797AN1	797AN2	797AN4	797AN5	797AN7
2	1/2	1/4	±0.0035	797AP8	797AP7	797AR7	797AP0	797AP1	797AP3	797AP5	797AR0	797AR2	797AR5
2 3/16	1/2	1/4	±0.0035	797AT2	797AT4	797AT6	797AR8	797AR9	797AT0	797AT1	—	797AT3	797AT5
2 3/16	5/8	5/16	±0.0035	—	—	—	—	—	—	—	797AU7	—	—
2 7/16	5/8	5/16	±0.0035	797AU5	797AV2	797AV6	797AT8	797AT9	797AU1	797AU3	797AU8	797AV0	797AV4
2 1/2	5/8	5/16	±0.0035	797AW1	797AW4	797AW6	797AV7	797AV8	797AV9	797AW0	797AW2	797AW3	797AW5
Aluminum													
5/16	3/32	3/64	±0.0025	—	797AW9	—	797AW7	—	797AW8	—	—	—	—
3/8	3/32	3/64	±0.0025	—	797AX9	—	797AX1	—	797AX3	—	—	—	—
1/2	1/8	1/16	±0.0025	—	797AZ1	—	797AY3	—	797AY5	—	—	—	—
5/8	3/16	3/32	±0.0025	—	797C18	—	797AZ6	—	797C02	—	—	—	—
3/4	3/16	3/32	±0.0025	—	797C49	—	797C28	—	797C33	—	—	—	—
1	1/4	1/8	±0.0025	—	797A84	—	797A63	—	797A69	—	—	—	—
304 Stainless Steel													
3/8	3/32	3/64	±0.0025	797AX5	797AX8	797AY1	797AX0	—	797AX2	797AX4	797AX6	797AX7	797AY0
1/2	1/8	1/16	±0.0025	797AY7	797AZ0	797AZ3	797AY2	—	797AY4	797AY6	797AY8	797AY9	797AZ2
5/8	3/16	3/32	±0.0025	797C07	797C16	797C23	797AZ4	—	797AZ9	797C04	797C10	797C13	797C20
3/4	3/16	3/32	±0.0025	797C38	797C47	797C54	797C26	—	797C31	797C35	797C41	797C44	797C51
1	1/4	1/8	±0.0025	797A74	797A82	797A89	797A61	—	797A67	797A71	797A76	797A79	797A86
1 3/16	1/4	1/8	±0.0025	—	—	—	797AA2	—	797AA5	797AA7	797AC0	797AC2	797AC5
1 1/4	1/4	1/8	±0.0030	797AD7	797AE6	797AF2	797AC8	—	—	797AD4	797AE0	797AE3	797AE9
1 7/16	3/8	3/16	±0.0030	—	—	—	797AG5	—	797AG8	—	—	—	797AH7
1 7/16	3/8	3/16	±0.0030	—	—	—	—	—	797AG9	—	—	—	—
1 1/2	3/8	3/16	±0.0030	797AJ7	797AK3	797AK7	797AJ0	—	797AJ3	797AJ5	797AJ9	—	797AK5
2 7/16	5/8	5/16	±0.0035	797AU4	—	797AV5	797AT7	—	797AU0	797AU2	797AU6	797AU9	797AV3
316 Stainless Steel													
5/8	3/16	3/32	±0.0025	797C08	797C17	797C24	797AZ5	—	797C01	797C05	797C11	797C14	797C21
3/4	3/16	3/32	±0.0025	797C39	797C48	797C55	797C27	—	—	797C36	797C42	797C45	—
1	1/4	1/8	±0.0025	797A75	797A83	797A90	797A62	—	797A68	797A72	797A77	797A80	797A87
1 1/4	1/4	1/8	±0.0030	797AD8	797AE7	797AF3	797AC9	—	797AD2	797AD5	797AE1	797AE4	797AF0
2	1/2	1/4	±0.0035	797AP6	797AR3	797AR6	797AN9	—	797AP2	797AP4	797AP9	797AR1	797AR4

Grooved Shaft

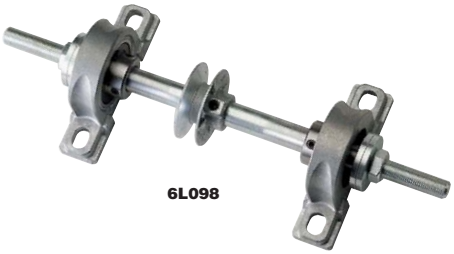
Retaining Ring & Spacers Set

Grooved Rotary Shafts

- Shaft length tolerance: ±0.02"

Feature two retaining ring grooves on one end spaced for common ball bearing sizes and multiple grooves on the other end to provide options for positioning components as needed. Corrosion-resistant 303 stainless steel material; chamfered ends. Used to position and align gears, sprockets, and other mechanical components and as drive shafts or axles in industrial machinery applications. **Retaining Ring and Spacers Sets** fit grooved rotary shafts for securely positioning components.

Dia.	Diameter Tolerance	Groove Spacing	3 in Length Item No.	6 in Length Item No.	12 in Length Item No.	Retaining Ring & Spacer Set Item No.
Inch Rotary Shafts with Retaining Ring Grooves						
1/4 in	-0.0002 in	1/4 in	802YU1	802YU2	802YU0	802YU3
3/8 in	-0.0002 in	3/8 in	802YU6	802YU7	802YU5	802YU8
1/2 in	-0.0002 in	437/1000 in	802YV1	802YV2	802YV0	802YV3
5/8 in	-0.0004 in	1/2 in	802YV6	802YV7	802YV5	802YV8
3/4 in	-0.0004 in	281/500 in	802YW1	802YW2	802YW0	802YW3
1 in	-0.0004 in	281/500 in	802YT6	802YT7	802YT5	802YT8



6L098

Dayton®

Ball Bearing Mandrels

- Max. speed: 3000 RPM
- Overall length: 12"
- Pulley dia.: 2" (O.D.)

Models are the rotating mechanism found in benchtop buffing and finishing tools. They are supported by prelubricated set-screw-type ball-bearing pillow blocks. Corrosion resistant. Compatible with Type A V-belts and can accept up to 1½"-thick buffing/finishing wheels. Include a hex nut and two machined flange washers (1½" O.D.) for each end.

Left Hand Thread Size	Right Hand Thread Size	Shaft Dia.	Item No.
½"-20	½"-20	5/8 in	6L098
5/8"-11	5/8"-11	3/4 in	6L099