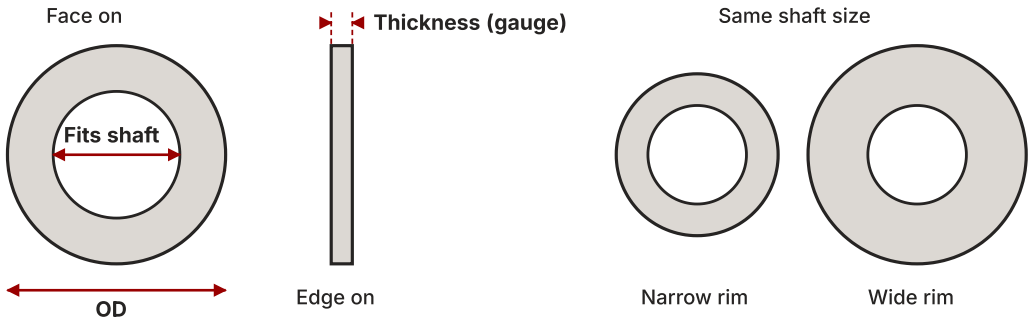
Machine Bushing Sizes

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J & E Supply & FASTENER CO.

Machine (machinery) bushings by shaft size: the outside diameter of narrow rim and wide rim bushings, and the thickness of 10, 14 and 18 gauge.

A **machine bushing** is a precise flat steel washer that slips over a shaft. It is used to take up end play, to space sprockets, pulleys and gears accurately on a shaft, and to keep moving parts from wearing on each other. A bushing is sized by the **shaft it fits** (its nominal inside diameter), its **outside diameter** — narrow rim or wide rim — and its **gauge** (thickness).



The labels match the table columns. Not to scale.

Machine bushing gauge thickness

GAUGE	CLASS	THICKNESS (MIN)	THICKNESS (MAX)
10 ga	heavy	.126	.142
14 ga	medium	.068	.082
18 ga	light	.042	.054

Inches, the same for narrow and wide rim. As Fastener Mart and UFA (Dynaline machinery bushings) both print it; a dash would mean they differ.

Narrow rim machine bushings — OD by shaft size

FITS SHAFT	OD
1/2″	7/8″
9/16″	—
5/8″	—
3/4″	1-1/4″
7/8″	1-3/8″
1″	1-1/2″
1-1/8″	1-3/4″
1-1/4″	1-7/8″
1-3/8″	2-1/8″
1-1/2″	2-1/4″
1-5/8″	2-3/8″
1-3/4″	2-1/2″
1-7/8″	2-7/8″
2″	3″
2-1/8″	3-1/8″
2-1/4″	3-1/4″
2-1/2″	3-1/2″

Inches. The shaft size is the bushing's nominal inside diameter. Printed where the Fastener Mart and SMA Link bushing lists give the same OD; a dash: they differ for that size, or one lists two ODs — give us a call.

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Wide rim machine bushings — OD by shaft size

FITS SHAFT	OD
5/8″	1-1/4″
3/4″	1-1/2″
1″	2″
1-1/8″	2-1/8″
1-1/4″	2-1/4″
1-3/8″	2-1/2″
1-1/2″	3″
1-5/8″	3-1/8″
1-3/4″	3-1/4″
2″	3-1/2″

Inches. The shaft size is the bushing's nominal inside diameter. Printed where the Fastener Mart and SMA Link bushing lists give the same OD; a dash: they differ for that size, or one lists two ODs — give us a call.

Good to know

Gauge is the thickness, not the shaft size: 10 gauge is the heaviest and 18 gauge the lightest. Stack bushings of different gauges to reach the spacing you need.

Narrow or wide rim is the outside diameter: the same shaft size comes in both, and the wide rim covers more face.

Spacing and wear: machine bushings take up end play, set accurate spacing on a shaft and keep moving parts from wearing on each other or marring a finish.

Not on this chart: sizes only one of our sources lists (narrow rim 2-3/8; wide rim 7/8, 15/16, 1-7/8, 2-1/8, 2-1/4, 2-1/2, 3) and quick repair washers. Their TECH DATA sheets give the part's listed size.

Quick answers

How thick is a 14 gauge machine bushing?

A 14 gauge (medium) machine bushing is **.068–.082″** thick; 18 gauge (light) is .042–.054″ and 10 gauge (heavy) .126–.142″.

What is the OD of a 1 inch machine bushing?

A 1″ narrow rim machine bushing is **1-1/2″** OD; a 1″ wide rim bushing is **2″** OD.

What is the difference between a narrow rim and a wide rim machine bushing?

Both fit the same shaft size and come in the same gauges; a wide rim bushing has a larger outside diameter, so it covers more face (at 1″: 1-1/2″ narrow, 2″ wide).

Which machine bushing gauge is the thickest?

10 gauge (heavy), .126–.142″ thick. The bigger the gauge number, the thinner the bushing.

Reference values drawn from the governing standards. For critical applications, confirm against the standard and the manufacturer's published data. Technical information disclaimer →