

# Artus Shims and Gaskets

Dedicated to quality, committed to service

**ARTUS**

The Artus Corporation



You need exact precision when positioning or sealing your assemblies correctly. Give us your specifications and we will deliver precision-cut shim and gasket solutions. Artus has been providing shims and gaskets to every industry since 1941.










Experience and knowledge led us to become experts. Commitment to quality and service led us to our recognition. Now, our process is optimized to deliver the most efficient, consistent product. Give us your blueprint specifications, and we will deliver your custom shims and gaskets in **any shape and size, anywhere in the world**.

We help you save without compromising on quality. At Artus, we keep your costs to a minimum by using inexpensive steel rule dies and quality raw materials in large quantities, reducing material costs. Steel-rule dies can be produced in a matter of days, reducing lead times on initial orders for new shim or gasket designs. A single tooling charge lets you avoid hidden costs, and there are no set-up charges for subsequent orders.

For personalized customer service, call (201) 568-1000 or email at [shims@artusworld.com](mailto:shims@artusworld.com). Artus technical personnel can assist you with spec development, cost estimates, and delivery schedules for no additional charge. Get fast service and delivery, with orders shipped sooner in emergencies.

## The Color Tells the Thickness

Color-coded products are available in aluminum and plastic for your convenience. Each color represents a specific shim thickness, making distinguishing between thicknesses quick and easy. With variations in shim thickness being as little as 0.00025", differentiating by the color instead of measuring shims drastically saves time and reduces errors.

Artus Color Thickness Chart			
"The color tells the thickness"			
			
Silver 0.0005" - 0.01mm	Gold 0.00075" - 0.02mm	Amber 0.001" - 0.025mm	Purple 0.0015" - 0.04mm
			
Red 0.002" - 0.05mm	Green 0.003" - 0.08mm	Tan 0.004" - 0.1mm	Blue 0.005" - 0.125mm
			
Transmatte 0.0075" - 0.19mm	Brown 0.010" - 0.25mm	Black 0.0125" - 0.31mm	Pink 0.015" - 0.4mm
			
Yellow 0.020" - 0.5mm	White 0.025" - 0.6mm	Coral 0.030" - 0.75mm	
Thicknesses Available in:			
Clear plastic: • 0.0025" - 0.005mm • 0.040" - 1mm • 0.050" - 1.25mm • 0.060" - 1.5mm			
Natural Aluminum: • 0.001" - 0.025mm • 0.0015" - 0.04mm • 0.002" - 0.19mm • 0.012" - 0.30mm			
Plastic Only: • 0.005" - 0.01mm • 0.00075" - 0.02mm			
<a href="http://www.artusworld.com">www.artusworld.com</a>   <a href="mailto:shims@artusworld.com">shims@artusworld.com</a>   201.568.1000			
			

# Material Options

We offer five shim material and three gasket material options

## Color-Coded Plastic Shim Stock

Artus plastic shims are remarkably durable, pliable, economical, non-hygroscopic, and impervious to oil for the exact positioning of your machines and equipment. Plastic shims are color-coded by thickness for quick and easy identification. View the thickness chart to see the list of colors and sizes.

Custom dies can be made to cut plastic shims up to 42" in diameter in a single piece. Larger OD shims can be made in segments. Plastic Timken Shims are also available for cone-and-cup-adjusted tapered roller bearings (see Timken Chart).

## Color-Coded Aluminum Shims

Non-compressible, burr-free, rust-proof, and long-lasting, Artus aluminum shims are ideal in operating temperatures over 500° F (260° C). Aluminum shims are color-coded by thickness for quick and easy identification. View the thickness chart to see the list of colors and sizes.

Custom dies can be made to cut metal shims up to 24" in diameter in a single piece. Larger OD shims require segmented dies. Aluminum Timken Shims are also available for cone-and-cup-adjusted tapered roller bearings (see Timken Chart).

## Stainless Steel and Low Carbon Steel Shims

When you need shims to perform under extreme conditions, Artus stainless and low carbon steel shims do the job like no other. Our laser technology assures superior quality steel shims that stand up to extreme conditions and demanding applications.

Our stainless-steel shims use Stainless Steel 300 Series Alloy, making them non-corrosive and rust-proof. Our low carbon steel shims use Cold Rolled 1010 Steel, making them durable and economical. Aluminum shims are perfect for tool and die shops, machine repair, and bearing adjustments.

Custom dies can be made to cut metal shims up to 24" in diameter in a single piece. Larger OD shims can be made in segments.

## Brass Shims

Artus manufactures the highest quality standard and custom brass shims to satisfy your most exacting tolerances and specifications. Artus Brass Shims are burr-free, heavy-duty, and always uniform in thickness. Artus Brass Shims use 70/30 B36 Cartridge Brass, which has the highest brass ductility, great strength, and impressive corrosion resistance.

Custom dies can be made to cut metal shims up to 24" in diameter in a single piece. Larger OD shims can be made in segments.

## Gaskets

Artus manufactures custom gaskets in any size, shape, and quantity desired. Get the seal you need in a timely manner with our efficient and economical gasket cutting process. Our custom gaskets can be made in vegetable fiber, cork composition, and asbestos-substitute material. Contact us for help finding the material with characteristics best suited for your needs.

Custom gaskets are available in any required shape and quantity and in a variety of thicknesses from 0.0005" to 0.060".

Custom dies can be made to cut gaskets up to 42" in diameter in a single piece. Larger OD gaskets can be made in segments.



# Specifications

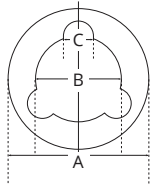
Thickness	Plastic (P)	Color-Coded Plastic Color	Aluminum (A)	Color-Coded Aluminum Color	Stainless Steel (SS)	Low Carbon Steel (LC)	Brass (B)
0.0005" (0.01mm)	P	Silver					
0.00075" (0.02mm)	P	Gold					
0.0015" (0.04mm)	P	Purple	A	Uncolored			
0.002" (0.05mm)	P	Red	A	Red	SS	LC	B
0.003" (0.08mm)	P	Green	A	Green	SS	LC	B
0.004" (0.1mm)	P	Tan	A	Tan	SS	LC	B
0.005" (0.125mm)	P	Blue	A	Blue	SS	LC	B
0.007" (0.18mm)			A	Natural	SS	LC	B
0.0075" (0.19mm)	P	Transmatte					
0.010" (0.25mm)	P	Brown	A	Brown	SS	LC	B
0.012" (0.3mm)			A	Uncolored	SS	LC	
0.0125" (0.31mm)	P	Black					B
0.015" (0.4mm)	P	Pink	A	Pink	SS	LC	B
0.020" (0.5mm)	P	Yellow	A	Yellow	SS	LC	B
0.025" (0.6mm)	P	White	A	White		LC	
0.030" (0.75mm)	P	Coral	A	Coral	SS	LC	B
0.040" (1mm)	P	Clear			SS	LC	
0.050" (1.25mm)	P	Clear					
0.060" (1.5mm)	P	Clear			SS	LC	
0.125" (3.18mm)						LC	

## Recommended Max Temperature Usage for Plastic Shims

Material	Available Thicknesses	Max Temp (in Fahrenheit)
Type-P (oriented polyester)	0.0005"-0.0125"	200° F
Type-G (PET-G)	0.015"-0.060"	140° F
Type-x (polycarbonate alloy)	0.015", 0.020", 0.030"	200° F



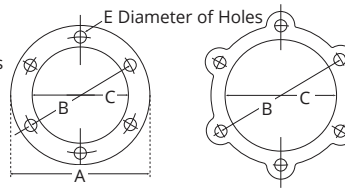
# Shims for Cone and Cup Adjusted Tapered Roller Bearings



Cone Shim

D Number of Holes

Cup Shim



Artus Shim Number	Shim Dimensions				Bolts	
	A	Thick-ness	B	C	No. of Bolts	Size of Bolts
A50605	2-3/8	.005	1-3/8	9/16	3	1/2
A50606		.0075				
A50607		.020				
A50608	2-7/8	.005	1-3/4	9/16	3	1/2
A50609		.0075				
ASO610		.020				
ASO611	3-3/8	.005	2-1/4	9/16	3	1/2
ASO612		.0075				
ASO613		.020				
A45882	4-1/16	.005	3	11/16	3	5/8
A50633		.0075				
A45884		.020				
A45885	4-5/8	.005	3-1/2	11/16	3	5/8
A50634		.0075				
A45887		.020				
A50614	4-7/8	.005	3-1/2	13/16	4	3/4
A50615		.0075				
A50616		.020				
A50617	5-3/8	.005	3-1/2	13/16	4	3/4
A50618		.0075				
A50619		.020				
A50620	5-7/8	.005	4	13/16	6	3/4
A50621		.0075				
A50622		.020				
A50623	6-7/8	.005	5	1-1/16	6	1
A50624		.0075				
A50625		.020				
A50626	7-7/8	.005	6	1-5/16	6	1-1/4
A50627		.0075				
A50628		.020				

Equivalent number In Standard Cup Shims			Artus Shim Number	A	Artus Shim Number	B	C	D	E
0.005" Blue	0.0075" Transp. Matte	0.020" Yellow							
K-20605	K-20607	K-20620	A FB 6	2-3/8	A 6	1-7/8	1-13/32	4	9/32
K-20705	K-20707	K-20720	A FB 7	2-3/4	A 7	2-1/4	1-25/32	4	9/32
K-20805	K-20807	K-20820	A FB 8	3-1/2	A 8	2-3/4	2-1/32	4	13/32
K-20905	K-20907	K-20920	A FB 9	3-3/4	A 9	3	2-11/32	4	13/32
K-21005	K-21007	K-21020	A FB 10	4	A 10	3-1/4	2-19/32	4	13/32
K-21105	K-21107	K-21120	A FB 11	4-1/4	A 11	3-1/2	2-25/32	4	13/32
K-21205	K-21207	K-21220	A FB 12	4-1/2	A 12	3-3/4	3-1/32	4	13/32
K-21405	K-21407	K-21420	A FB 14	5	A 14	4-1/4	3-17/32	4	13/32
K-21505	K-21507	K-21520	A FB 15	5-1/4	A 15	4-1/2	3-25/32	4	13/32
K-21605	K-21607	K-21620	A FB 16	6	A 16	5	4-1/32	4	17/32
K-21705	K-21707	K-21720	A FB 17	6-1/4	A 17	5-1/4	4-9/32	4	17/32
K-21805	K-21807	K-21820	A FB 18	6-1/2	A 18	5-1/2	4-17/32	4	17/32
K-21905	K-21907	K-21920	A FB 19	6-3/4	A 19	5-3/4	4-25/32	6	17/32
K-22005	K-22007	K-22020	A FB 20	7	A 20	6	5-1/32	6	17/32
K-22205	K-22207	K-22220	A FB 22	7-1/2	A 22	6-1/2	5-17/32	6	17/32
K-22405	K-22407	K-22420	A FB 24	8	A 24	7	6-1/32	6	17/32
K-22505	K-22507	K-22520	A FB 25	8-3/4	A 25	7-1/2	6-9/32	6	21/32
K-22605	K-22607	K-22620	A FB 26	9	A 26	7-3/4	6-17/32	6	21/32
K-22705	K-22707	K-22720	A FB 27	9-1/4	A 27	8	6-25/32	6	21/32
K-22905	K-22907	K-22920	A FB 29	9-3/4	A 29	8-1/2	7-9/32	6	21/32
K-23005	K-23007	K-23020	A FB 30	10	A 30	8-3/4	7-17/32	6	21/32
K-23205	K-23207	K-23220	A FB 32	10-1/2	A 32	9-1/4	8-1/32	6	21/32
K-23405	K-23407	K-23420	A FB 34	11	A 34	9-3/4	8-17/32	6	21/32
K-23605	K-23607	K-23620	A FB 36	11-1/2	A 36	10-1/4	9-1/32	6	21/32
K-23805	K-23807	K-23820	A FB 38	12	A 38	10-3/4	9-17/32	6	21/32
K-24005	K-24007	K-24020	A FB 40	13	A 40	11-1/2	10-1/32	6	25/32
K-24105	K-24107	K-24120	A FB 41	13-1/2	A 41	12	10-17/32	8	25/32
K-24205	K-24207	K-24220	A FB 42	14-5/8	A 42	13-1/8	11-21/32	8	25/32
K-24405	K-24407	K-24420	A FB 44	15-1/2	A 44	14	12-17/32	8	25/32
K-24605	K-24607	K-24620	A FB 46	17	A 46	15-1/4	13-17/32	8	15/16
K-24805	K-24807	K-24820	A FB 48	18	A 48	16-1/4	14-17/32	8	15/16
K-25005	K-25007	K-25020	A FB 50	19-1/2	A 50	17-1/2	15-17/32	8	11/16
K-25205	K-25207	K-25220	A FB 52	20-1/2	A 52	18-1/2	16-17/32	8	11/16

**ARTUS**

**The Artus Corporation**

201 South Dean Street Englewood, NJ 07631 USA

Phone: +1 201.568.1000 | Fax: +1 201.568.8865 | Hours: Mon-Fri : 9am-6pm | Email: [shims@artusworld.com](mailto:shims@artusworld.com)