WASHERS & NUTS

Superior Locking Through Geometry™

Outperforms Conventional Lock Washers & Nuts



-M6



Price Leader in Wedge Locking Technology



INTRODUCTION

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PROVEN APPLICATIONS

Huyett is a Minneapolis, KS, based ISO certified manufacturer and master distributor of industrial fasteners & components,



and premium lifting hardware. The Company is a leading innovator of products and services geared to support industrial distributors in the fastener and power transmission sectors.



Visit huyett.com for broad selection of hard-to-find parts in low minimums, at great prices, with easy ordering and the best service in the industry.



General Machinery Manufacturing

- In safety-critical environments, guaranteeing joints do not fail is paramount.
- Performing extensive maintenance and performance checks can be costly and inconvenient.



Agriculture & Construction Equipment

- Corrective maintenance can entail disassembly and reassembly of complex machinery.
- Machine down-time can greatly reduce work output.



Gas & Oil

- Safety-critical, harsh environments.
- Joints can fail in remote, hard-to-reach, locations and fixing joints can be dangerous and costly.



Power Generation

- Windy conditions; joints can experience severe vibration.
- Joints can be in hard-to-reach locations and down-time can be costly.

Disc-Lock & TEC Series products outperform conventional, split-ring, and other style washers in a wide variety of high stress, corrosive, and vibration-sensitive applications including:

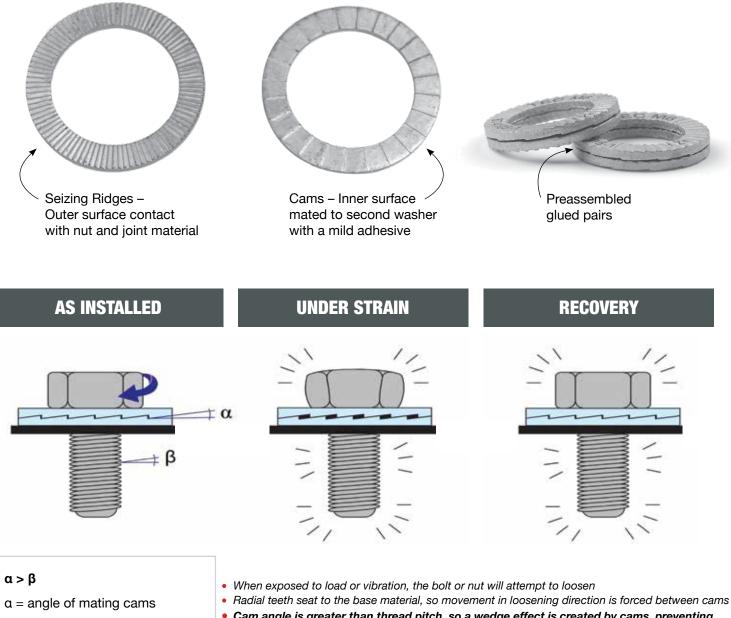
- Agriculture
- Automotive
- Construction
- Heavy Rail
- Logging
- Marine
- Military
- Mining
- Gas & Oil
- Solar
- Wind
- Waste Management





HOW WEDGE LOCKING WASHERS WORK

Disc-Lock™ & TEC Series™ Wedge Locking Washers consist of two washer-shaped pieces with seizing ridges on one side and cams on the other. The cam sides are mated together with a mild adhesive and then installed between the nut or bolt and the joint material to secure using tension, not friction like traditional washers.



- β = angle of the pitch on threads
- Cam angle is greater than thread pitch, so a wedge effect is created by cams, preventing bolt or nut from rotating loose

Wedge locking washers are NOT recommended for mating surfaces that are not locked in place, are harder than the washers, in soft base material, or in non-preloaded joints.

Superior Locking Through Geometry™

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WHY USE WEDGE LOCKING TECHNOLOGY



WHY IS TENSION SAFER?

Rely on tension to overcome loosening of joints

Superior Locking Through Geometry™

Standard industry options attempt to deliver locking through friction or adhesion. Disc-Lock[™] & TEC Series[™] products outperform conventional, split-ring, and other style washers by mechanically creating increased tension when the fastener tries to loosen. The result is a safe, highly effective product that offers superior locking protection in a wide variety of high stress, corrosive, and vibration-sensitive applications.







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Friction-Based Options

Thread Deformation (Prevailing Torque)

Adhesion-Based Options



Adhesives/ Epoxies



Patches on Threads

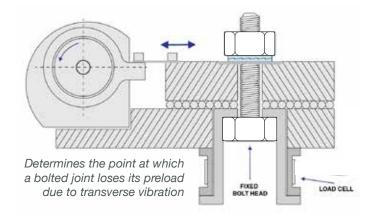




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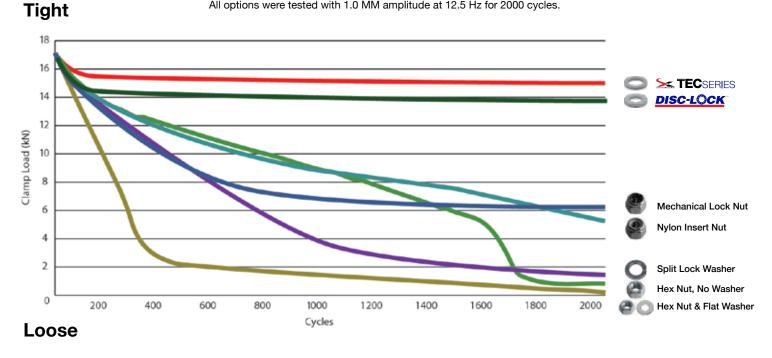
PROVEN RESULTS - JUNKER TESTING

Disc-Lock[™] & TEC Series[™] wedge locking washers and nuts have been tested on a Junker Vibration Machine. The Junker Test, considered the most severe vibration test for bolted joints, is used to determine the point at which a bolted joint loses its preload when subjected to shear loading due to transverse vibration. Disc-Lock Wedge Locking Washers and nuts have been tested in accordance with DIN 65151.



Junker Test Results: Wedge Locking Washers vs. Competing Alternatives

All options were tested with 1.0 MM amplitude at 12.5 Hz for 2000 cycles.



When comparing to alternatives, Disc-Lock & TEC Series washers outperform by creating a secure and reliable joint that is maintained under severe vibration conditions.

Superior Locking Through Geometry™

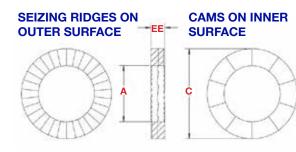
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Come standard as preassembled glued pairs for proper alignment and installation





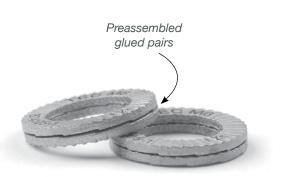
FEATURES AND BENEFITS

- Heavy duty, self-locking design
- For use with bolts up to Class 10.9, Grade 8
- Available in sizes from #5 (M3) to 5-1/8" (M130)
- Available in SCM435 Alloy Steel, 316L Stainless Steel, and 254 SMO Stainless Steel
- Provided in preassembled glued pairs
- · Easy to install with standard tools
- No retightening needed after installation
- Cost-effective for use in REUSABLE applications
- Vibration proof according to MIL-STD-1312-7

INSTALLATION

- To install the TEC Series Wedge Locking Washer, place the preassembled pair between the nut or bolt and the joint material. If application is in a through hole, two pairs of washers are required.
- As the nut or bolt is tightened, one half of the washer pair will be seated to the joint material and the other half will be seated to the nut or bolt.

- Install TEC Series Wedge Locking Washers using standard tools according to TEC Series Torque Guidelines. Retightening is not needed.
- The use of lubricants is highly recommended when installing TEC Series Wedge Locking Washers. A high quality lubricant designed to prevent seizing will reduce friction during installation and improve the consistency of clamp load in joints.



Same Great Quality – Lower Price

Than Other Brands in the Market



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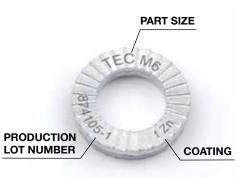


QUALITY AND TRACEABILITY

TEC Series Wedge Locking Washers are thoroughly tested in several stages of production to ensure a high level of quality customers have come to expect. Each washer is laser etched with a production lot number, part size, and coating to enable full traceability and easy identification.



TEC Series Wedge Locking Washers are manufactured in an ISO-certified facility and are RoHS compliant



REMOVAL AND REUSE

Removing TEC Series Wedge Locking Washers requires no special tools or procedure. Simply loosen the joint in the normal method and check the washer to ensure cam faces disengage.

While TEC Series Wedge Locking Washers are usually reusable, washers should always be inspected for deformation or excessive wear before reuse. If washers appear deformed or heavily worn, discard and use a new pair.

DIMENSIONAL TOLERANCES

INCH									ME	TRIC					
INS	IDE DIAMETE	R (A)	OUT	SIDE DIAMETI	IETER (C) THICKNESS (EE)		ESS (EE)	IN	INSIDE DIAMETER (A) OUTSIDE D			TSIDE DIAME	TER (C)	THICKNESS (EE)	
M3 - M8	M10 - M42	M45 - M72	M3 - M24	M27 - M42	M45 - M72	M3 - M42	M45 - M72	M3 - M8	M10 - M42	M45 - M72	M3 - M24	M27 - M42	M45 - M72	M3 - M42	M45 - M72
±0.004"	±0.008"	+0.02/ -0"	±0.008"	±0.012"	+0/ -0.080"	±0.010"	±0.030"	±0.1 mm	±0.2 mm	+0.5/ -0 mm	±0.2 mm	±0.3 mm	+0/ -2.0 mm	±0.25 mm	±0.75 mm
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ALLOY STEEL WASHERS - ZINC FLAKE PLATING

 Material:
 SCM435 Alloy Steel, or equivalent

 Heat Treatment:
 Through Hardened

 Surface Coating:
 Delta Protekt® KL100 and VH302GZ

	BOL	T SIZE	STAND	ARD DIMENSIONS (INCH)	CROSS REFERENCE		
PART NUMBER	INCH	METRIC	INSIDE DIAMETER (A)	OUTSIDE DIAMETER (C)	THICKNESS (EE)	NORD-LOCK®	HEICO-LOCK [®]	
TEC-M3	#5	M3	.134"	.276"	.071"	NL3	HLS-3	
TEC-M3.5	#6	M3.5	.154"	.299"	.071"	NL3,5	HLS-3.5	
TEC-M4	#8	M4	.173"	.299"	.071"	HNL4	HLS-4	
TEC-M5	#10	M5	.213"	.354"	.071"	NL5	HLS-5	
TEC-M6	-	M6	.256"	.425"	.071"	HL6	HLS-6	
TEC-M8	5/16"	M8	.343"	.531"	.098"	NL8	HLS-8	
TEC-M10	_	M10	.421"	.654"	.098"	NL10	HLS-10	
TEC-M11	7/16"	M11	.449"	.728"	.098"	NL11	HLS-11	
TEC-M12	-	M12	.512"	.768"	.098"	NL12	HLS-12	
TEC-M14	9/16"	M14	.598"	.906"	.134"	NL14	HLS-14	
TEC-M16	5/8"	M16	.669"	1.000"	.134"	NL16	HLS-16	
TEC-M18	-	M18	.768"	1.142"	.134"	NL18	HLS-18	
TEC-M20	-	M20	.843"	1.209"	.134"	NL20	HLS-20	
TEC-M22	7/8"	M22	.921"	1.358"	.134"	NL22	HLS-22	
TEC-M24	-	M24	.996"	1.535"	.134"	NL24	HLS-24	
TEC-M27	-	M27	1.118"	1.654"	.228"	NL27	HLS-27	
TEC-M30	1-1/8"	M30	1.236"	1.850"	.228"	NL30	HLS-30	
TEC-M33	1-1/4"	M33	1.354"	1.909"	.228"	NL33	HLS-33	
TEC-M36	1-3/8"	M36	1.472"	2.165"	.228"	NL36	HLS-36	
TEC-M39	1-1/2"	M39	1.591"	2.303"	.228"	NL39	HLS-39	
TEC-M42	_	M42	1.701"	2.480"	.228"	NL42	HLS-42	
TEC-M45	1-3/4"	M45	1.819"	2.756"	.276"	NL45	HLS-45	
TEC-M48	_	M48	1.953"	2.953"	.276"	NL48	HLS-48	
TEC-M52	2"	M52	2.110"	3.150"	.276"	NL52	HLS-52	
TEC-M56	2-1/4"	M56	2.327"	3.346"	.276"	NL56	HLS-56	
TEC-M60	2-3/8"	M60	2.484"	3.543"	.276"	NL60	HLS-60	
TEC-M64	2-1/2"	M64	2.642"	3.740"	.276"	NL64	HLS-64	
TEC-M68	2-5/8"	M68	2.799"	3.937"	.374"	NL68	HLS-68	
TEC-M72	-	M72	2.957"	4.134"	.374"	NL72	HLS-72	
TEC-M76	3"	M76	3.114"	4.331"	.374"	NL76	HLS-76	
TEC-M80	3-1/8"	M80	3.272"	4.528"	.374"	NL80	HLS-80	
TEC-M85	-	M85	3.469"	4.724"	.374"	NL85	HLS-85	
TEC-M90	3-1/2"	M90	3.638"	5.118"	.374"	NL90	HLS-90	
TEC-M95	3-3/4"	M95	3.835"	5.315"	.374"	NL95	HLS-95	
TEC-M100	-	M100	4.071"	5.709"	.374"	NL100	HLS-100	
TEC-M105	4"	M105	4.268"	5.906"	.374"	NL105	HLS-105	
TEC-M110	-	M110	4.465"	6.102"	.374"	NL110	HLS-110	
TEC-M115	4-1/2"	M115	4.661"	6.496"	.374"	NL115	HLS-115	
TEC-M120	4-3/4"	M120	4.858"	6.693"	.374"	NL120	HLS-120	
TEC-M125	4-7/8"	M125	5.055"	6.811"	.374"	NL125	HLS-125	
TEC-M130	5-1/8"	M130	5.252"	7.008"	.374"	NL130	HLS-130	
TEO ASEA			INCH	450"	0000"			
TEC-0250	1/4"	-	.283"	.453"	.098"	NL1/4"	HLS-1/4"	
TEC-0375	3/8"	-	.406"	.654"	.098"	NL3/8"	HLS-3/8"	
TEC-0500	1/2"	-	.531"	.768"	.098"	NL1/2"	HLS-1/2"	
TEC-0750	3/4"	-	.787"	1.209"	.134"	NL3/4"	HLS-3/4"	
TEC-1000	1"	-	1.098"	1.535"	.134"	NL1"	HLS-1"	

Superior Locking Through Geometry™

Weight and thickness of pairs will vary slightly with gauge of metal

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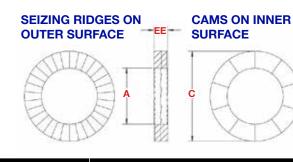


MARINE GRADE 316 STAINLESS STEEL WASHERS

 Material:
 316L Stainless Steel, or equivalent

 Heat Treatment:
 Surface Hardened

 Surface Coating:
 Plain



PART NUMBER	BOLT	SIZE	STAND	ARD DIMENSIONS	CROSS REFERENCE		
PART NUMBER	INCH	METRIC	INSIDE DIAMETER (A)	OUTSIDE DIAMETER (C)	THICKNESS (EE)	NORD-LOCK [®]	HEICO-LOCK [®]
TEC-M3SS	#5	M3	.134"	.276"	.087"	NL3SS	HLS-3SS
TEC-M3.5SS	#6	M3.5	.154"	.299"	.087"	NL3.5SS	HLS-3.5SS
TEC-M4SS	#8	M4	.173"	.299"	.087"	NL4SS	HLS-4SS
TEC-M5SS	#10	M5	.213"	.354"	.087"	NL5SS	HLS-5SS
TEC-M6SS	-	M6	.256"	.425"	.087"	NL6SS	HLS-6SS
TEC-M8SS	5/16"	M8	.343"	.531"	.079"	NL8SS	HLS-8SS
TEC-M10SS	-	M10	.421"	.654'	.079"	NL10SS	HLS-10SS
TEC-M11SS	7/16"	M11	.449"	.728"	.087"	NL11SS	HLS-11SS
TEC-M12SS	-	M12	.512"	.768"	.079"	NL12SS	HLS-12SS
TEC-M14SS	9/16"	M14	.598"	.906'	.118"	NL14SS	HLS-14SS
TEC-M16SS	5/8"	M16	.669"	1.000"	.118"	NL16SS	HLS-16SS
TEC-M18SS	-	M18	.768"	1.142"	.126"	NL18SS	HLS-18SS
TEC-M20SS	-	M20	.843"	1.209"	.118"	NL20SS	HLS-20SS
TEC-M22SS	7/8"	M22	.921"	1.358"	.126"	NL22SS	HLS-22SS
TEC-M24SS	-	M24	.996"	1.535"	.126"	NL24SS	HLS-24SS
TEC-M27SS	-	M27	1.118"	1.654'	.268"	NL27SS	HLS-27SS
TEC-M30SS	1-1/8"	M30	1.236"	1.850"	.268"	NL30SS	HLS-30SS
TEC-M33SS	1-1/4"	M33	1.354"	1.909"	.268"	NL33SS	HLS-33SS
TEC-M36SS	1-3/8"	M36	1.472"	2.165"	.268"	NL36SS	HLS-36SS
TEC-M39SS	1-1/2"	M39	1.591"	2.303"	.268"	NL39SS	HLS-39SS
TEC-M42SS	-	M42	1.701"	2.480"	.268"	NL42SS	HLS-42SS
TEC-M45SS	1-3/4"	M45	1.819"	2.756"	.268"	NL45SS	HLS-45SS
TEC-M48SS	1-7/8"	M48	1.953"	2.953"	.268"	NL48SS	HLS-48SS
TEC-M52SS	2"	M52	2.110"	3.150"	.354"	NL52SS	HLS-52SS
TEC-M56SS	2-1/4"	M56	2.327"	3.346"	.354"	NL56SS	HLS-56SS
TEC-M60SS	2-3/8"	M60	2.484"	3.543"	.354"	NL60SS	HLS-60SS
TEC-M64SS	2-1/2"	M64	2.642"	3.740"	.354"	NL64SS	HLS-64SS
TEC-M68SS	2-5/8"	M68	2.799"	3.937"	.354"	NL68SS	HLS-68SS
TEC-M72SS	-	M72	2.957"	4.134"	.354"	NL72SS	HLS-72SS
TEC-M76SS	3"	M76	3.114"	4.331"	.354"	NL76SS	HLS-76SS
TEC-M80SS	3-1/8"	M80	3.272"	4.528"	.354"	NL80SS	HLS-80SS
			INCH				
TEC-0250SS	1/4"	-	.283"	.453"	.087"	NL1/4"SS	HLS-1/4"SS
TEC-0375SS	3/8"	-	.406"	.654"	.079"	NL3/8"SS	HLS-3/8"SS
TEC-0500SS	1/2"	_	.531"	.768"	.079"	NL1/2"SS	HLS-1/2"SS
TEC-0750SS	3/4"	-	.787"	1.209"	.126"	NL3/4"SS	HLS-3/4"SS
TEC-1000SS	1"	_	1.098"	1.535"	.126"	NL1"SS	HLS-1"SS



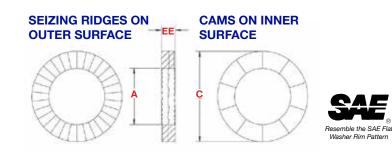


WIDE RIM ALLOY STEEL WASHERS - ZINC FLAKE PLATING

 Material:
 SCM435 Alloy Steel, or equivalent

 Heat Treatment:
 Through Hardened

 Surface Coating:
 Delta Protekt® KL100 and VH302GZ



PART NUMBER	BOL	T SIZE	STAND	ARD DIMENSIONS (CROSS REFERENCE		
PART NUMBER	INCH	METRIC	INSIDE DIAMETER (A)	OUTSIDE DIAMETER (C)	THICKNESS (EE)	NORD-LOCK®	HEICO-LOCK®
TEC-M3.5LD	#6	M3.5	.154"	.354"	.071"	NL3,5SP	HLB-3.5
TEC-M4LD	#8	M4	.173"	.354"	.071"	NL4SP	HLB-4
TEC-M5LD	#10	M5	.213"	.425"	.071"	NL5SP	HLB-5
TEC-M6LD	-	M6	.256"	.531"	.098"	NL6SP	HLB-6
TEC-M8LD	5/16"	M8	.343"	.654"	.098"	NL8SP	HLB-8
TEC-M10LD	-	M10	.421"	.827"	.098"	NL10SP	HLB-10
TEC-M12LD	-	M12	.512"	1.000"	.134"	NL12SP	HLB-12
TEC-M14LD	9/16"	M14	.598"	1.209"	.134"	NL14SP	HLB-14
TEC-M16LD	5/8"	M16	.669"	1.209"	.134"	NL16SP	HLB-16
TEC-M18LD	-	M18	.768"	1.358"	.134"	NL18SP	HLB-18
TEC-M20LD	-	M20	.843"	1.535"	.134"	NL20SP	HLB-20
TEC-M22LD	7/8"	M22	.921"	1.654"	.181"	NL22SP	HLB-22
TEC-M24LD	-	M24	.996"	1.909"	.181"	NL24SP	HLB-24
TEC-M27LD	-	M27	1.118"	1.909"	.228"	NL27SP	HLB-27
TEC-M30LD	1-1/8"	M30	1.236"	2.303"	.260"	ML30SP	HLB-30
TEC-M33LD	1-1/4"	M33	1.354"	2.303"	.260"	NL33SP	HLB-33
TEC-M36LD	1-3/8"	M36	1.472"	2.480"	.260"	NL36SP	HLB-36
			INCH		·		
TEC-0250LD	1/4"	-	.283"	.531"	.098"	NL1/4"SP	HLB-1/4"
TEC-0375LD	3/8"	-	.406"	.827"	.098"	NL3/8"SP	HLB-3/8"
TEC-0500LD	1/2"	-	.531"	1.000"	.134"	NL1/2"SP	HLB-1/2"
TEC-0750LD	3/4"	-	.787"	1.535"	.134"	NL3/4"SP	HLB-3/4"
TEC-1000LD	1"	_	1.098"	1.909"	.181"	NL1"SP	HLB-1"



DISCOVER

Wedge Locking Washer

Wide Rim Wedge Locking Washer Resemble the SAE Flat Washer Rim Pattern

Superior Locking Through Geometry™



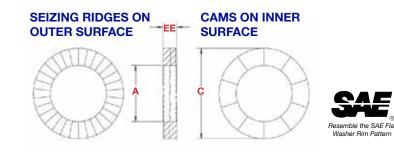
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WIDE RIM MARINE GRADE 316 STAINLESS STEEL WASHERS

Material: Surface Coating: Plain

316L Stainless Steel, or equivalent Heat Treatment: Surface Hardened



PART NUMBER	BOL	T SIZE	STAND	ARD DIMENSIONS (CROSS REFERENCE		
PANT NUMBEN	INCH	METRIC	INSIDE DIAMETER (A)	OUTSIDE DIAMETER (C)	THICKNESS (EE)	NORD-LOCK [®]	HEICO-LOCK®
TEC-M3.5LDSS	#6	M3.5	.154"	.354"	.087"	NL3.5SPSS	HLB-3.5SS
TEC-M4LDSS	#8	M4	.173"	.354"	.087"	NL4SPSS	HLB-4SS
TEC-M5LDSS	#10	M5	.213"	.425"	.087"	NL5SPSS	HLB-5SS
TEC-M6LDSS	-	M6	.256"	.531"	.079"	NL6SPSS	HLB-6SS
TEC-M8LDSS	5/16"	M8	.343"	.654"	.079"	NL8SPSS	HLB-8SS
TEC-M10LDSS	-	M10	.421"	.827"	.079"	NL10SPSS	HLB-10SS
TEC-M12LDSS	-	M12	.512"	1.000"	.118"	NL12SPSS	HLB-12SS
TEC-M14LDSS	9/16"	M14	.598"	1.209"	.126"	NL14SPSS	HLB-14SS
TEC-M16LDSS	5/8"	M16	.669"	1.209"	.126"	NL16SPSS	HLB-16SS
TEC-M18LDSS	-	M18	.768"	1.358"	.126"	NL18SPSS	HLB-18SS
TEC-M20LDSS	-	M20	.843"	1.535"	.126"	NL20SPSS	HLB-20SS
TEC-M22LDSS	7/8"	M22	.921"	1.654"	.126"	NL22SPSS	HLB-22SS
TEC-M24LDSS	-	M24	.996"	1.909"	.126"	NL24SPSS	HLB-24SS
TEC-M27LDSS	-	M27	1.118"	1.909"	.268"	NL27SPSS	HLB-27SS
TEC-M30LDSS	-	M30	1.236"	2.303"	.268"	NL30SPSS	HLB-30SS
			INCH				
TEC-0250LDSS	1/4"	-	.283"	.531"	.087"	NL1/4"SPSS	HLB-1/4"SS
TEC-0375LDSS	3/8"	-	.406"	.827"	.079"	NL3/8"SPSS	HLB-3/8"SS
TEC-0500LDSS	1/2"	-	.531"	1.000"	.126"	NL1/2"SPSS	HLB-1/2"SS
TEC-0750LDSS	3/4"	-	.787"	1.535"	.126"	NL3/4"SPSS	HLB-3/4"SS
TEC-1000LDSS	1"	-	1.098"	1.909"	.126"	NL1"SPSS	HLB-1"SS



TEC Series Wide Rim Washers have a larger outside diameter and are ideal for use in large or slotted hole applications, with soft or painted surfaces, and with flanged bolts and nuts.

Superior Locking Through Geometry™



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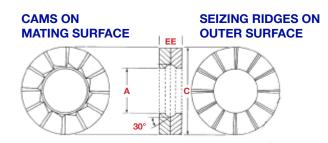
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STANDARD DUTY WEDGE LOCKING WASHERS



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Come standard as preassembled glued pairs for proper alignment and installation



Very Cost Effective for

Permanent Applications



Economy line for SINGLE-USE

FEATURES AND BENEFITS

- Standard duty, self-locking design
- For use with bolts up to Class 10.9, Grade 8
- Available in sizes from #6 (M3) to 1-1/2" (M38) Other sizes available by special order.
- Available in 1010 Carbon Steel and 316L Stainless Steel
- Carbon Steel washers are case hardened and coated with RoHS-compliant Delta Protekt[®]
- Provided in preassembled glued pairs
- Easy to install with standard tools. No retightening needed once installed
- Vibration proof according to MIL-STD-1312-7

INSTALLATION

- To install the Disc-Lock Wedge Locking Washer, place the preassembled pair of washers between the nut or bolt and the joint material. If application is in a through hole, two pairs of washers are required.
- As the nut is tightened, one half of the wedge locking washer is seated to the joint material and the other to the nut or bolt.
- Wedge locking washers should only be used against flat, relatively smooth metal surfaces.
- If the joint material is not metal, the wedge locking washer may be used by securing the metal plate to the joint material in such a manner that the metal plate will not rotate.
- A torque wrench is not required to install Disc-Lock Wedge Locking Washers.
- An air-gun can be used when installing and removing Disc-Lock Wedge Locking Washers.
- If installed correctly, the wedge locking washer will ensure that the fastener remains secure, and will not require any retightening.



Disc-Lock Wedge Locking Washers are manufactured in an ISO-certified facility and are RoHS compliant







Superior Locking Through Geometry™



CARBON STEEL WASHERS - ZINC FLAKE PLATING

Material: 1010 Carbon Steel, or equivalent Heat Treatment: Case Hardened Surface Coating: Delta Protekt® KL100 and VH302GZ

	BOLT	SIZE	STANDA	RD DIMENSION	IS (INCH)	METRIC DIMENSIONS (MILLIMETERS)		
PART NUMBER	INCH	METRIC	INSIDE DIAMETER (A)	OUTSIDE DIAMETER (C)	THICKNESS (EE)	INSIDE DIAMETER (A)	OUTSIDE DIAMETER (C)	THICKNESS (EE)
DL-M3-0136	#6	M3	.150"	.340"	.080"	3.81 mm	8.64 mm	2.03 mm
DL-M4-0164	#8	M4	.175"	.340"	.080"	4.45 mm	8.64 mm	2.03 mm
DL-M5-0187	3/16"	M5	.203"	.401"	.080"	5.15 mm	10.18 mm	2.03 mm
DL-M6-0250	1/4"	M6	.262"	.495"	.127"	6.66 mm	12.57 mm	3.22 mm
DL-M8-0312	5/16"	M8	.326"	.628"	.142"	8.28 mm	15.95 mm	3.60 mm
DL-M10-0375	3/8"	M10	.409"	.705"	.160"	10.38 mm	17.90 mm	4.06 mm
DL-M11-0437	7/16"	M11	.450"	.880"	.153"	11.43 mm	22.35 mm	3.89 mm
DL-M12-0500	1/2"	M12	.510"	.937"	.166"	12.95 mm	23.82 mm	4.22 mm
DL-M14-0562	9/16"	M14	.572"	1.128"	.175"	14.53 mm	28.65 mm	4.45 mm
DL-M16-0625	5/8"	M16	.651"	1.247"	.188"	16.53 mm	31.67 mm	4.79 mm
DL-M20-0750	3/4"	M20	.820"	1.381"	.242"	20.82 mm	35.08 mm	6.15 mm
DL-M22-0875	7/8"	M22	.883"	1.470"	.268"	22.44 mm	37.34 mm	6.80 mm
DL-M24-1000	1"	M24	1.015"	1.626"	.256"	25.78 mm	41.30 mm	6.50 mm
DL-M27-1125	1-1/8"	M27	1.140"	1.715"	.240"	28.96 mm	43.56 mm	6.10 mm
DL-M30-1250	1-1/4"	M30	1.275"	1.875"	.265"	32.39 mm	47.63 mm	6.73 mm
DL-M36-1375	1-3/8"	M36	1.430"	2.196"	.230"	36.32 mm	55.78 mm	5.84 mm
DL-M38-1500	1-1/2"	M38	1.523"	2.196"	.230"	38.68 mm	55.78 mm	5.84 mm

Weight and thickness of pairs will vary slightly with gauge of metal

MARINE GRADE 316 STAINLESS STEEL WASHERS

Material: Surface Coating: Plain

316L Stainless Steel, or equivalent Heat Treatment: Surface Hardened

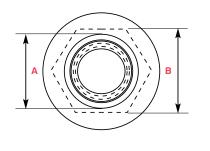
	BOLT	SIZE	STANDA	RD DIMENSION	IS (INCH)	METRIC DIMENSIONS (MILLIMETERS)			
PART NUMBER	INCH	METRIC	INSIDE DIAMETER (A)	OUTSIDE DIAMETER (C)	THICKNESS (EE)	INSIDE DIAMETER (A)	OUTSIDE DIAMETER (C)	THICKNESS (EE)	
DL-M6-0250SS	1/4"	M6	.262"	.495"	.101"	6.66 mm	12.57 mm	2.56 mm	
DL-M8-0312SS	5/16"	M8	.326"	.628"	.119"	8.28 mm	15.95 mm	3.02 mm	
DL-M10-0375SS	3/8"	M10	.409"	.705"	.135"	10.38 mm	17.90 mm	3.40 mm	
DL-M11-0437SS	7/16"	M11	.450"	.880"	.135"	11.43 mm	22.35 mm	3.33 mm	
DL-M12-0500SS	1/2"	M12	.510"	.937"	.136"	12.95 mm	23.82 mm	3.45 mm	
DL-M14-0562SS	9/16"	M14	.572"	1.128"	.127"	14.53 mm	28.65 mm	3.23 mm	
DL-M16-0625SS	5/8"	M16	.651"	1.247"	.134"	16.53 mm	31.67 mm	3.40 mm	
DL-M20-0750SS	3/4"	M20	.820"	1.381"	.183"	20.82 mm	35.08 mm	4.65 mm	
DL-M22-0875SS	7/8"	M22	.883"	1.470"	.240"	22.44 mm	37.34 mm	6.10 mm	
DL-M24-1000SS	1"	M24	1.015"	1.626"	.240"	25.78 mm	41.30 mm	6.10 mm	

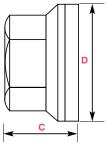


WEDGE LOCKING SAFETY WHEEL NUTS









FEATURES AND BENEFITS

- Patented heavy duty, self-locking design
- Can be used with bolts up to Class 8.8, Grade 5
- One-piece assembly
- No washer required
- Coated in RoHS compliant GEOMET[®] 321, providing protection of 720 hours in salt spray testing
- Easy to install with standard tools
- Easy to remove
- No retightening needed once installed
- Vibration proof according to MIL-STD-1312-7

PROVEN RESULTS - JUNKER TESTING

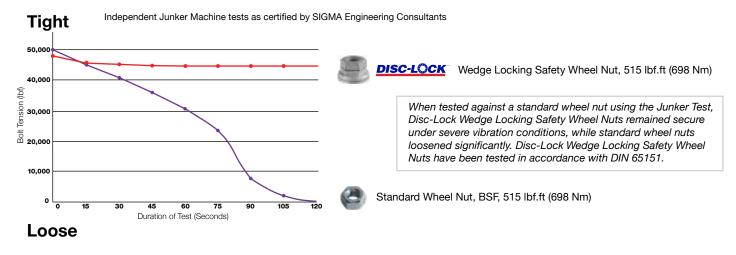
Junker Test Results: Disc-Lock Wedge Locking Nuts

Same Great Quality – Lower Price Than Other Brands in the Market



Disc-Lock Wedge Locking Nuts are manufactured in an ISO-certified facility and are RoHS compliant





Superior Locking Through Geometry™



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WEDGE LOCKING SAFETY WHEEL NUTS

THREE-PIECE WEDGE LOCKING SAFETY WHEEL NUT

-			SI	CROSS REFERENCE			
	PART NUMBER	THREAD (A)	WIDTH ACROSS FLATS (B)	HEIGHT (C)	FLANGE DIAMETER (D)	NORD-LOCK [®]	HEICO-LOCK®
-	DL-LN-SW-M22X1.5G	M22	38 mm	34 mm	52.0 mm	1632	HLM-22×1.5
	Coated in GEOMET® 321						

SAFETY WHEEL NUT



Disc-Lock's Three-Piece Wedge Locking Nut in size M22 – our **Safety Wheel Nut** – is specifically designed to prevent wheel loss from commercial vehicles such as trucks, trailers and buses. They have been proven to provide better joint protection than that of standard wheel nuts. The combination of lateral, bending forces on wheels due to cornering, and torsional forces due to braking and acceleration cause Disc-Lock Safety Wheel Nuts to lock, maintaining clamp force.

Disc-Lock's Safety Wheel Nut consistently performs with Class 8.8, Grade 5 bolts. It is easy to install and remove. It is installed in exactly the same way as a standard wheel nut. Place the socket over the aligned faces of the hexagon nut and hexagon flanged washer and tighten or loosen.



To install or remove push socket on to fully cover both hexes of nut and flanged washer

Refer to axle manufacturer's specifications for torque settings.

THREE-PIECE LOCKING NUTS



The Disc-Lock Three-Piece Wedge Locking Safety Wheel Nut consists of three components:

1) Nut

- 2) Hexagon-flanged Washer
- 3) Flat-faced Cup Washer



The top two sections (1 & 2) are a hexagonal nut and a hexagonal flanged washer with interlocking cams. When subjected to shock or vibration, the interlocking cams of the Disc-Lock Wedge Locking Safety Wheel Nut attempt to rise against each other.

Because the angle of the cam is greater than the pitch angle of the thread on the stud, a wedging action takes place and the Disc-Lock Wedge Locking Safety Wheel Nut locks and will not come loose, maintaining clamp load and protecting the joint.





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