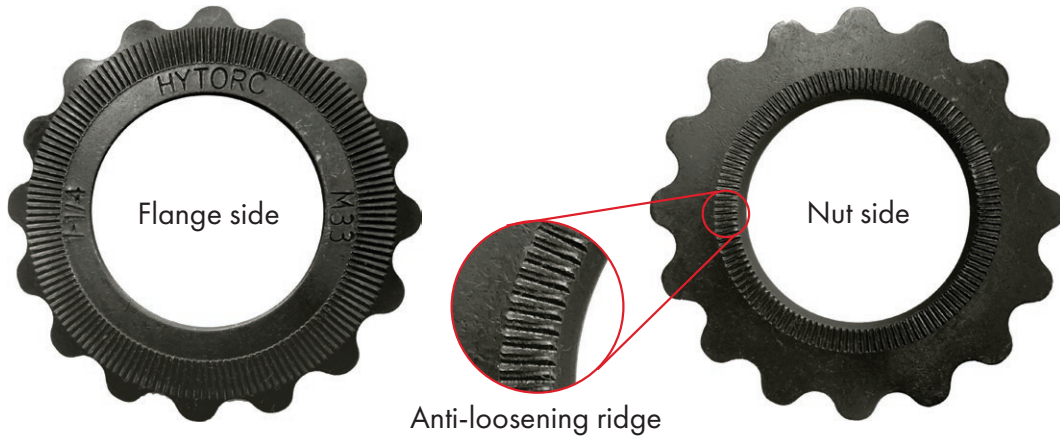


HYTORC J-Washer

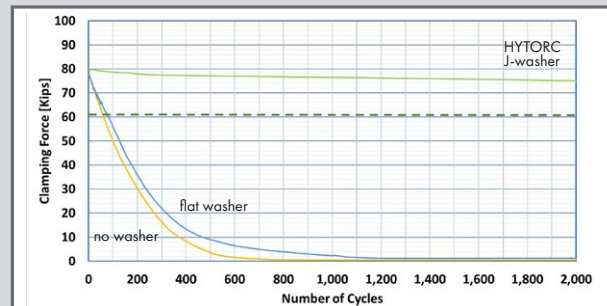
the new **one-piece** washer that prevents nutloosening



All the benefits of the HYTORC Washer, plus anti-loosening feature

The HYTORC J-Washer takes the HYTORC Reaction Washer to an entirely new level by adding a locking feature that minimizes loosening to keep bolts tight under dynamic loads. With the strategic placement of a ridge band on the surface, the new reaction washer prevents loosening of preloaded fasteners while providing all the benefits of the traditional HYTORC Reaction Washer including safety, speed and tool longevity.

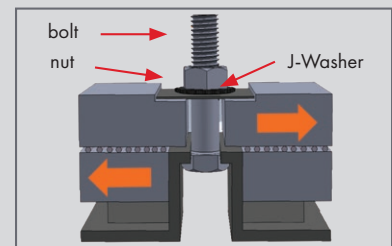
Industry standard Junker test DIN 25201 -4



The J-Washer eliminates the need for a separate reaction arm, eliminating pinch points and significantly reducing the risk of hand injury.



HYTORC J-Washer on slewing ring application.

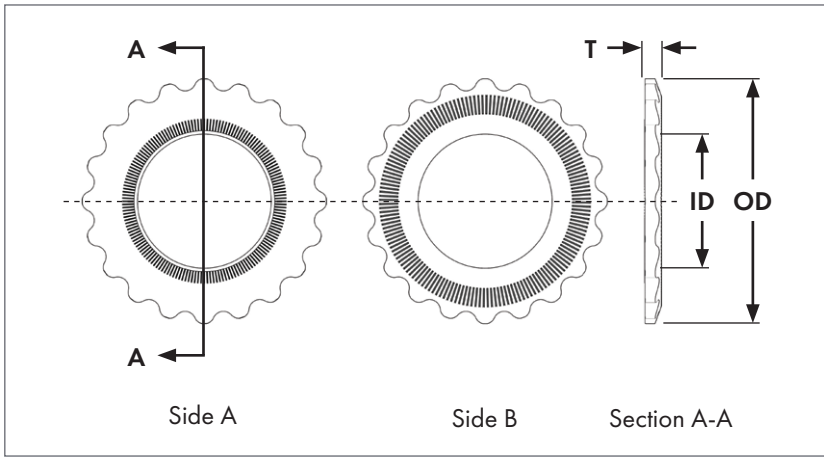


Standard preloaded fasteners can loosen as a result of relative motion between surfaces due to vibration. In 1969 G. Junkers developed a test setup to reproduce that movement. The Junker test has become the norm and the J-Washer is named after it.

HYTORC
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Part designation

JRW-XXX-YY-Z

Part number

Finish code*

Material code*

* Are used when alternative coatings and materials are specified

Legend: **OD** = Outside diameter, **ID** = Inside diameter, **T** = Thickness

HYTORC J-Washers are manufactured from AISI 4140 low alloy steel, hardened and tempered for superior strength, and finished with black oxide for corrosion protection. HYTORC J-Washers meet ASTM F3394/F3394M standard specifications for hardened (backup) washers and are suitable for harsh structural and industrial applications.

J-Washers are friendly priced and easy to use.

For standard washers use the part number from the tables below. Finish code and material code shall be omitted from standard washer part numbers.

Additional coatings and materials are available upon request. Please contact HYTORC to specify the part number, finish code and material code for alternative coatings and materials.

Dimensions (imperial)

Bolt size	Part number	ID	OD	T
1/2"	JRW-008	0.531"	1.118"	0.123"
9/16"	JRW-009	0.625"	1.219"	0.123"
5/8"	JRW-010	0.688"	1.432"	0.130"
3/4"	JRW-012	0.813"	1.600"	0.152"
7/8"	JRW-014	0.938"	1.865"	0.152"
1"	JRW-100	1.063"	2.057"	0.158"
1-1/8"	JRW-102	1.241"	2.307"	0.190"
1-1/4"	JRW-104	1.346"	2.492"	0.190"
1-3/8"	JRW-106	1.497"	2.742"	0.190"
1-1/2"	JRW-108	1.592"	2.928"	0.190"
1-5/8"	JRW-110	1.703"	3.179"	0.245"
1-3/4"	JRW-112	1.823"	3.355"	0.245"
1-7/8"	JRW-114	1.977"	3.617"	0.245"
2"	JRW-200	2.135"	3.787"	0.245"
2-1/4"	JRW-204	2.341"	4.280"	0.298"

Example

JRW-102

J-Washer, bolt size 1-1/8", AISI 4140, Black Oxide

Dimensions (metric)

Bolt size	Part number	ID	OD	T
M14	JRW-M14	15 mm	28 mm	3 mm
M16	JRW-M16	17 mm	31 mm	3 mm
M18	JRW-M18	19 mm	36 mm	3 mm
M20	JRW-M20	21 mm	37 mm	3 mm
M22	JRW-M22	23 mm	41 mm	3 mm
M24	JRW-M24	25 mm	47 mm	4 mm
M27	JRW-M27	28 mm	52 mm	4 mm
M30	JRW-M30	31 mm	59 mm	5 mm
M33	JRW-M33	34 mm	63 mm	5 mm
M36	JRW-M36	37 mm	70 mm	5 mm
M39	JRW-M39	40 mm	74 mm	5 mm
M42	JRW-M42	43 mm	81 mm	6 mm
M45	JRW-M45	46 mm	85 mm	6 mm
M48	JRW-M48	50 mm	92 mm	6 mm
M52	JRW-M52	54 mm	96 mm	6 mm
M56	JRW-M56	58 mm	109 mm	8 mm

Example

JRW-M30

J-Washer, bolt size M30, AISI 4140, Black Oxide