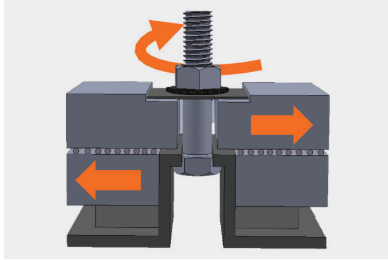


TRUE-LOCK WASHER

The HYTORC True-Lock Washer improves the performance of the familiar HYTORC Washer by adding an internal threaded ring to the back of the washer, which acts as a locking washer. Based on research results, the knurling prevents joints from loosening in vibrating and dynamically loaded applications as effectively as traditional lock washers available on the market. At the same time, the design of the True-Lock Washer also takes into account all the benefits of the traditional HYTORC Washer, such as reaction arm free operation and other occupational safety factors.

ANTI-LOOSENING



Standard pre-loaded fasteners can loosen as a result of relative motion between surfaces due to vibration. The J-Washer's knurled surface locks the nut when torque is applied so that no loosening occurs. The locking design has been verified by the industry standard Junker test, which simulates the transverse forces that loosen the assembly.

SAFETY



The J-Washer provides outer reaction lobes that safely engage with a socket driver or reaction plate to brace the reaction forces during torque operations. Consistent with the standard HYTORC Reaction Washer, the new J-Washer eliminates the need for a separate reaction arm, eliminating pinch points and significantly reducing the risk of hand injury.

EFFICIENCY



The J-Washer's unique design locks the fastener assembly during tightening. When used in combination with a HYTORC Torque Tool, the J-Washer provides unmatched efficiency in bolting operations and reduced job time.

TRUE-LOCK WASHER

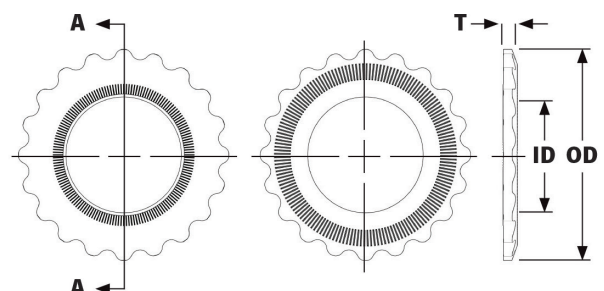
Bolt Size	Item	ID (mm)	OD (mm)	T (mm)
M14	JRW-M14	15	28,40	3,1
M16	JRW-M16	17	30,96	3,1
M18	JRW-M18	19	36,37	3,3
M20	JRW-M20	21	37,00	3,3
M22	JRW-M22	23	40,64	3,3
M24	JRW-M24	25	47,37	4,1
M27	JRW-M27	28	52,25	4,1
M30	JRW-M30	31	58,60	4,8
M33	JRW-M33	34	63,30	4,8
M36	JRW-M36	37	69,65	4,8
M39	JRW-M39	40	74,37	4,8
M42	JRW-M42	43	80,75	6,4
M45	JRW-M45	46	85,22	6,4
M48	JRW-M48	50	91,87	6,4
M52	JRW-M52	54	96,19	6,4
M56	JRW-M56	58	107,71	7,4



Frontside

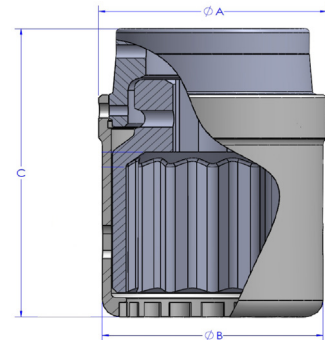


Backside



HYTORC WASHER DRIVER

Bolt Size	A/F (mm)	Washer Driver number	ØA (mm)	ØB (mm)	C (mm)
MXTP-01, ICE-1, jGUN-1/P5/P25, LST-0700/1200, LION-.7, LGX-1000 [3/4" drive]					
M16	24	DZAK-009-015X	-	-	-
M20	30	DZAK-M20-M30X-NHP	58,5	48,5	76,0
M22	32	DZAK-012-104X	58,5	51,8	80,6
M24	36	DZAK-014-107X	58,5	56,0	78,5
M27	41	DZAK-100-110X	63,5	61,0	88,9
M30	46	DZAK-102-113X	71,3	68,7	93,9
M33	50	DZAK-104-200X	78,5	76,0	95,8
M36	55	DZAK-106-203X	84,5	82,0	104,6
M39	60	DZAK-108-206X	90,0	87,0	105,7
MXTP-03, ICE-3, jGUN-2/3 LST-2000/3000, LGX-3000 [1" drive]					
M27	41	DZAL-100-110X	71,2	63,5	95,2
M30	46	DZAL-102-113X	71,2	69,9	99,8
M33	50	DZAL-104-200X	78,5	76,0	110,0
M36	55	DZAL-106-203X	85,0	82,0	106,8
M39	60	DZAL-108-206X	89,5	87,3	116,8
M42	65	DZAL-110-209X	99,3	94,0	132,3
M45	70	DZAL-112-212X	103,7	99,1	133,6
M48	75	DZAL-114-215X	112,9	107,0	134,5
M52	80	DZAL-200-302X	116,2	113,0	143,9
MXTP-05, ICE-5, LST-5000 [1 1/2" drive]					
M39	60	DZAM-108-206X	105,2	88,9	132,7
M42	65	DZAM-110-209X	101,6	101,6	136,0
M45	70	DZAM-112-212X	107,1	107,1	135,3
M48	75	DZAM-114-215X	112,0	112,0	138,9
M52	80	DZAM-200-302X	121,0	121,0	146,1
M56	85	DZAM-204-308X	133,0	133,0	151,1
M64	95	DZAM-208-314X	144,0	144,0	164,7
M72	105	DZAM-212-402X	155,0	155,0	172,4
M80	115	DZAM-300-410X	166,0	166,0	183,6
MXTP-10 [1 1/2" drive]					
M56	85	DZAP-204-308X	133,0	133,0	155,0
M64	95	DZAP-208-314X	144,0	144,0	169,8
M72	105	DZAP-212-402X	155,0	155,0	177,5
M80	115	DZAP-300-410X	166,0	166,0	188,7



STEALTH WASHER PLATE

Bolt Size	A/F (mm)	Item
STEALTH-2		
M20	30	ST02-RP-M20X
M22	32	ST02-RP012-M22X
M24	36	ST02-RP014-M24X
M27	41	ST02-RP100-M27X
M30	46	ST02-RP102-M30X
M33	50	ST02-RP104-M33X
M36	55	ST02-RP106-M36X
M39	60	ST02-RP108-M39X
M42	65	ST02-RP110-M42X
M45	70	ST02-RP112-M45X
STEALTH-4		
M30	46	ST04-RP102-M30X
M33	50	ST04-RP104-M33X
M36	55	ST04-RP106-M36X
M39	60	ST04-RP108-M39X
M42	65	ST04-RP110-M42X
M45	70	ST04-RP112-M45X
M48	75	ST04-RP114-M48X
M52	80	ST04-RP200-M52X

Bolt Size	A/F (mm)	Item
STEALTH-8		
M36	55	ST08-RP106-M36
M39	60	ST08-RP108-M39X
M42	65	ST08-RP110-M42X
M45	70	ST08-RP112-M45X
M48	75	ST08-RP114-M48X
M52	80	ST08-RP200-M52X
M56/M60	90	ST08-RP204-M60
M64/M68	95	ST08-RP208-M64X
STEALTH-14		
M39	60	ST14-RP108-M39
M45	70	ST14-RP112-M45
M48	75	ST14-RP114-M48
M60	90	ST14-RP204-M60
M64/M68	95	ST14-RP208-M64X
M64/M68	105	ST14-RP212-M72X
M80	115	ST14-RP300-M80
STEALTH-22		
M72/M76	105/110	ST22-RP212-M72X
M80	115	ST22-RP300-M80X

Bolt Size	A/F (mm)	Item
STEALTH-36		
M85	120	ST36-RP304-M85
M90	130	ST36-RP308-M90

