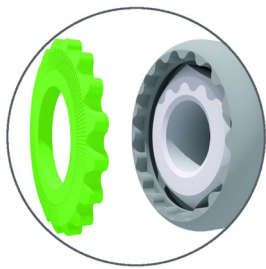


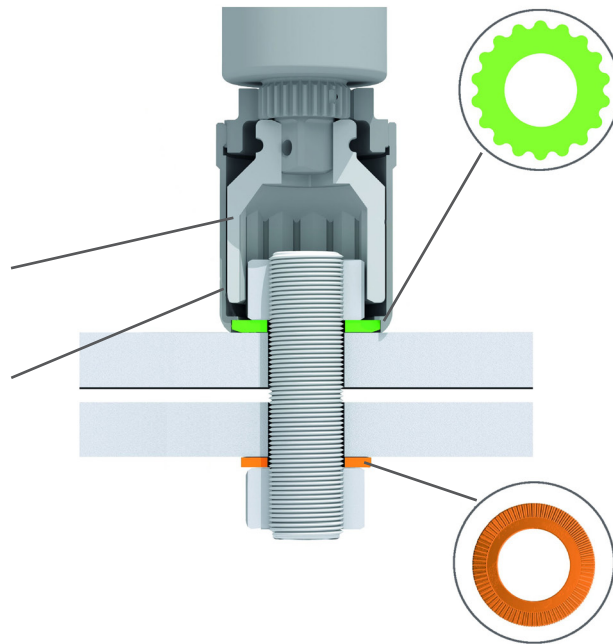
HYTORC WASHER

HYTORC Washers take the counterforce directly from the washer, eliminating the need for counterforce legs. This makes the work safer by reducing or completely eliminating the risk of pinch point injuries. To get support from the washer, you need a HYTORC Washer Driver, which consists of two nested sockets. Together, they increase the accuracy and safety of tightening and loosening bolt connections without a reaction arm.



The inner socket functions like a traditional power socket.

The outer socket supports itself at one end against the wrench body and at the other end against the toothed outer edge of the Washer fastener.



HYTORC WASHER

- Reusable
- Only a small additional cost
- Smooth surface enhances accuracy by eliminating friction variations
- Protects flange surfaces
- Available in sizes M16-M150

BACKUP WASHER

- Anti-rotation grooves on both sides of the washer
- Available in sizes M16-M150

Since there is no need for an interchangeable reaction arm between different applications, the same tool can be used in multiple locations. Working without a reaction arm also eliminates the risk of pinch points, improving workplace safety. Additionally, using the washer for reaction force enhances the lifespan of the tools being used. Washers can be implemented in almost any setup without requiring the replacement of existing nuts or bolts.

Washer fasteners are compatible with MXTP, AVANTI, ICE, STEALTH, jGun, LITHIUM, and LION wrenches.

SAFETY

- Reaction force is taken directly from the washer - no need to search for a reaction point, reducing the risk of hand injuries or another dangerous slipping incidents.

EASY OF USE

- No need for bolt heating or lubrication-based pre-treatment.

ACCURACY

- No need lateral forces, unknown friction effects, or inaccuracies caused by them.

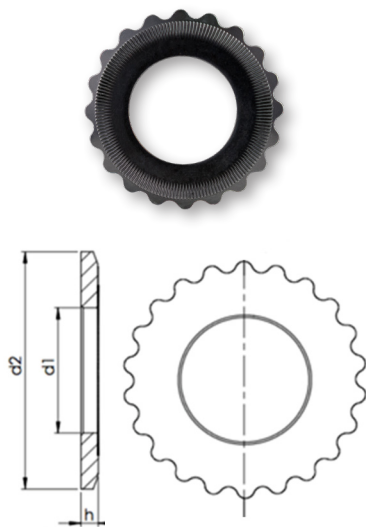
SPEED

- No surprises or prolonged maintenance times. Tightening and loosening bolt connections is easy and up to 50% faster than other methods.

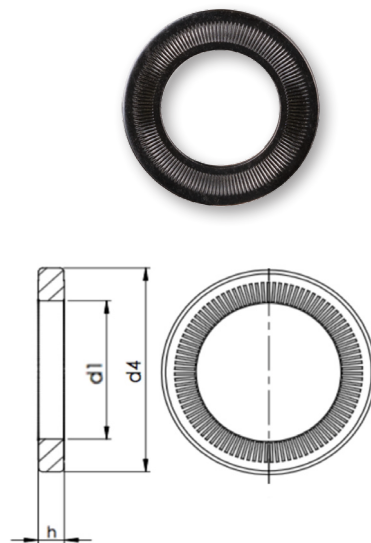


WASHER AND BACKUP WASHER

Bolt Size	A/F (mm)	Washer number	Backup Washer number	d1 (mm)	d2 (mm)	h (mm)	d4 (mm)
MXTP-01, ICE-1, jGUN-1/P5/P25, LST-0700/1200, LION-.7, LGX-1000 [3/4" drive]							
M14	22	ZRW-M14	ZBW-M14	15,0	28,4	3,1	25,5
M16	24	ZRW-M16	ZBW-M16	17,0	31,0	3,1	27,6
M18	27	ZRW-M18	ZBW-M18	19,2	36,4	3,3	31,2
M20	30	ZRW-M20	ZBW-M20	21,1	37,0	3,3	34,6
M22	32	ZRW-M22	ZBW-M22	23,1	40,6	3,3	36,8
M24	36	ZRW-M24	ZBW-M24	25,3	47,4	4,0	41,9
M27	41	ZRW-M27	ZBW-M27	28,7	52,2	4,0	47,5
M30	46	ZRW102-M30	ZBW102-M30	31,4	58,6	4,8	53,1
M33	50	ZRW104-M33	ZBW104-M33	34,2	63,3	4,8	58,6
M36	55	ZRW106-M36	ZBW106-M36	37,9	69,6	4,8	64,2
M39	60	ZRW108-M39	ZBW108-M39	40,4	74,4	4,8	69,6
MXTP-03, ICE-3, jGUN-2/3 LST-2000/3000, LGX-3000 [1" drive]							
M27	41	ZRW-M27	ZBW-M27	28,7	52,2	4,0	47,5
M30	46	ZRW102-M30	ZBW102-M30	31,4	58,6	4,8	53,1
M33	50	ZRW104-M33	ZBW104-M33	34,2	63,3	4,8	58,6
M36	55	ZRW106-M36	ZBW106-M36	37,9	69,6	4,8	64,2
M39	60	ZRW108-M39	ZBW108-M39	40,4	74,4	4,8	69,6
M42	65	ZRW110-M42	ZBW110-M42	43,3	80,7	6,2	75,2
M45	70	ZRW112-M45	ZBW112-M45	46,2	85,2	6,2	80,6
M48	75	ZRW114-M48	ZBW114-M48	50,1	91,9	6,2	86,2
M52	80	ZRW200-M52	ZBW200-M52	54,1	96,2	6,2	91,6
MXTP-05, ICE-5, LST-5000 [1 1/2" drive]							
M39	60	ZRW108-M39	ZBW108-M39	40,4	74,4	4,8	69,6
M42	65	ZRW110-M42	ZBW110-M42	43,3	80,7	6,2	75,2
M45	70	ZRW112-M45	ZBW112-M45	46,2	85,2	6,2	80,6
M48	75	ZRW114-M48	ZBW114-M48	50,1	91,9	6,2	86,2
M52	80	ZRW200-M52	ZBW200-M52	54,1	96,2	6,2	91,6
M56	85	ZRW-M56	ZBW204-M56	59,3	108,7	7,6	104,6
M64	95	ZRW208-M64	ZBW208-M64	67,5	121,1	8,5	114,3
M72	105	ZRW-M72	ZBW-M72	74,0	133,7	8,5	125,0
M80	115	ZRW-M80	ZBW-M80	82,0	142,1	10,3	133,4
MXTP-10 [1 1/2" drive]							
M56	85	ZRW-M56	ZBW204-M56	59,3	108,7	7,6	104,6
M64	95	ZRW208-M64	ZBW208-M64	67,5	121,1	8,5	114,3
M72	105	ZRW-M72	ZBW-M72	74,0	133,7	8,5	125,0
M80	115	ZRW-M80	ZBW-M80	82,0	142,1	10,3	133,4



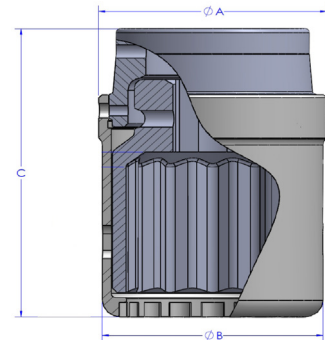
Washer



Backup Washer

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

