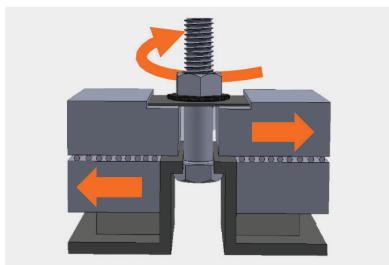


HYTORC J-WASHER REACTION WASHERS

The new HYTORC J-Washer improves upon the well-known HYTORC Washer by adding a serrated inner ring on the back side, which provides the locking functionality of a traditional lock washer. Research findings confirm that this new feature prevents joint loosening in vibrating and dynamically loaded applications as effectively as traditional lock washers available on the market. Additionally, the new reaction washer retains all the benefits of the standard HYTORC Washer, such as reaction-free operation and enhanced safety.



ANTI-LOOSENING



Over time, vibration can cause pre-tightened bolt joints to loosen. The serrations on the J-Washer, which press against both the nut and the contact surface, effectively lock the washer in place, preventing loosening. The locking feature has been tested using the Junkers vibration test, which measures the tensile force of the bolt to determine whether the connection loosens under vibration.

SAFETY



The geometric design of the J-Washer provides reaction force support for the torque wrench, eliminating the need for a separate reaction arm. Like the standard HYTORC Washer, the J-Washer also enhances workplace safety by significantly reducing the risk of finger injuries.

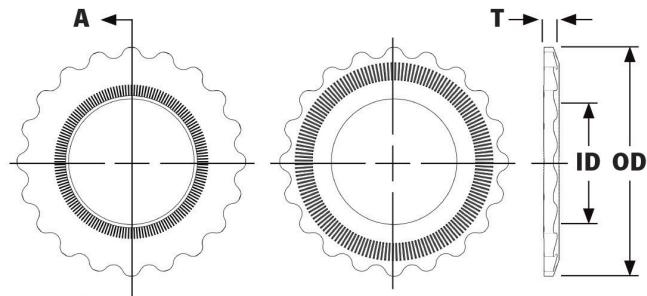
EFFICIENCY



The patented and reusable HYTORC J-Washer tightening system significantly improves work efficiency with torque wrenches. The system also reduces the likelihood of assembly errors, improves joint consistency, and ensures complete process safety.

J-WASHER DIMENSIONS

Bolt sizes	Item	ID mm	OD mm	T mm
M14	JRW-M14	15,0	28,40	3,1
M16	JRW-M16	17,0	30,96	3,1
M18	JRW-M18	19,0	36,37	3,3
M20	JRW-M20	21,0	37,00	3,3
M22	JRW-M22	23,0	40,64	3,3
M24	JRW-M24	25,0	47,37	4,1
M27	JRW-M27	28,0	52,25	4,1
M30	JRW-M30	31,0	58,60	4,8
M33	JRW-M33	34,0	63,30	4,8
M36	JRW-M36	37,0	69,65	4,8
M39	JRW-M39	40,0	74,37	4,8
M42	JRW-M42	43,0	80,75	6,4
M45	JRW-M45	46,0	85,22	6,4
M48	JRW-M48	50,0	91,87	6,4
M52	JRW-M52	54,0	96,19	6,4
M56	JRW-M56	58,0	107,71	7,4



STEALTH HOLDING PLATES

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
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

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

