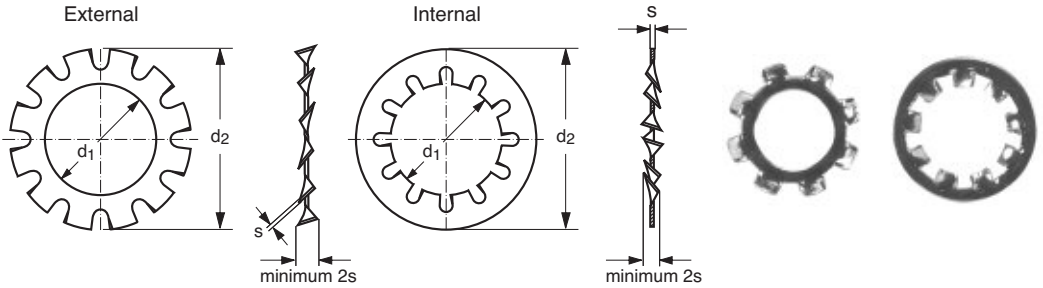


### Toothed Lock Washers

Rondanas de dientes

Rondelles dentées

A2
A4



Bolt Size	M2	M2.3	M2.5	M3	M4	M5*	M5	M6	M7	M8*	M8
d <sub>1</sub>	2.2	2.5	2.7	3.2	4.3	5.1	5.3	6.4	7.4	8.2	8.4
d <sub>2</sub>	4.5	5	5.5	6	8	9	10	11	12.5	14	15
s	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.8	0.8
W internal	.04	.025	.045	.045	.100	.15	.2	.25	.35	.45	.55
W external	.025	.03	.04	.045	.095	.14	.18	.22	.3	.4	.45

Bolt Size	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30
d <sub>1</sub>	10.5	12.5	14.5	16.5	19	21	23	25	28	31
d <sub>2</sub>	18	20.5	24	26	30	33	36	38	44	48
s	0.9	1	1	1.2	1.4	1.4	1.5	1.5	1.6	1.6
W internal	.90	1.3	2.0	2.5	3.7	4.1	6.0	6.5	8.5	9.5
W external	.80	1.1	1.7	2.1	3.5	3.8	5.0	6.0	8.0	9.0

\* For Hex Head Cap Screws only

(W ~ Weights of standard sizes in kilograms per 1000 pieces)