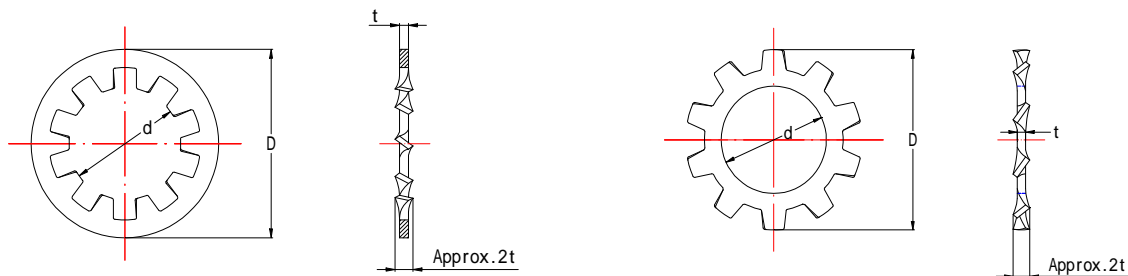




# Toothed Lock Washers

(JIS B 1255)  
JAPANESE INDUSTRIAL STANDARD  
External type

Internal type



Unit: mm

Size-No.		Screw size		d		D		t		Nos. of Teeth	
Internal	External	mm	Inch	Max.	Min.	Max.	Min.	Max.	Min.	Internal	External
AW - 2	B W - 2	2	-	2.4	2.2	4.8	4.5	0.325	0.275	7	8
2.3	2.3	2.3	-	2.7	2.5	5.3	5	0.325	0.275	7	8
2.5	2.5	2.5(2.6)	-	2.9	2.7	5.7	5.4	0.325	0.275	7	8
3	3	3	-	3.4	3.2	6.5	6.1	0.485	0.415	7	8
3.5	3.5	3.5	-	3.9	3.7	7.5	7.1	0.485	0.415	8	8
4	4	4	-	4.5	4.3	8.5	8.1	0.485	0.415	8	8
4.5	4.5	4.5	-	5	4.8	9.5	9.1	0.535	0.465	8	8
5	5	5	-	5.5	5.3	10	9.6	0.64	0.56	8	10
6	6	6	-	6.7	6.4	11	10.5	0.64	0.56	9	12
7	-	7	-	7.7	7.4	13	12.5	0.85	0.75	10	-
8	8	8	-	8.7	8.4	15	14.5	0.85	0.75	9	12
3/8	3/8	-	3/8	10.1	9.8	17.5	17	0.95	0.85	9	12
10	10	10	-	10.9	10.5	18	17.5	0.95	0.85	9	12
7/16	7/16	-	7/16	11.8	11.4	19.5	18.9	0.95	0.85	10	12
12	12	12	-	12.9	12.5	21	20.4	1.055	0.945	10	12
1/2	1/2	-	1/2	13.4	13	22.5	21.9	1.055	0.945	10	12
14	14	14	-	14.9	14.5	23	22.4	1.055	0.945	10	12
16	16	16	5/8	16.9	16.5	26	25.4	1.265	1.135	12	14
18	18	18	-	19.5	19	29	28.4	1.265	1.135	12	14
3/4	3/4	-	3/4	20.1	19.6	32	31.2	1.265	1.135	12	14
20	20	20	-	21.5	21	32	31.2	1.47	1.33	12	14
22	22	22	7/8	23.5	23	35	34.2	1.47	1.33	14	16
24	24	24	-	25.5	25	38	37.2	1.68	1.52	14	16
1"	1"	-	1"	26.5	26	41	40.2	1.68	1.52	14	16

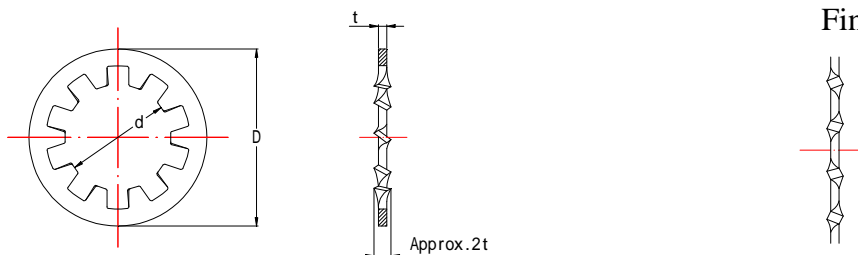
Material=Carbon spring steel. Hardness=HRC40~50. Finish=Zn plating, Chromate dip.

# Toothed Lock Washers

Internal type

Teeth Design

Fin 1.



Unit: mm

Size-No.		d		D		t		Nos. Of Teeth	Design Variation
		Max.	Min.	Max.	Min.	Max.	Min.		
AW-	1811	2.1	1.9	4.6	4.4	0.275	0.225	6	
	6301	6.75	6.45	10.4	10	0.53	0.47	9	
	9101	9.4	9.1	16.5	16.1	0.95	0.85	9	
	9102	9.4	9.1	14.8	14.3	0.53	0.47	16	
	9103	9.55	9.25	13.05	12.75	0.53	0.47	16	
	9501	10.2	9.7	17.5	16.8	0.95	0.85	10	
	12002	12.4	12.1	15.7	15.2	0.53	0.47	12	
	13001	13.3	12.9	16.55	16.05	0.64	0.56	20	Fig 1
	28601	30.1	29.1	46.5	45.7	1.67	1.53	16	

Material=Carbon spring steel. Hardness = HRC40~50. Finish= Zn plating, Chromate dip.

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