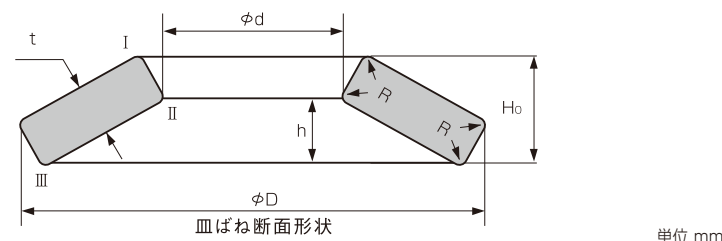


# MDS 皿ばね

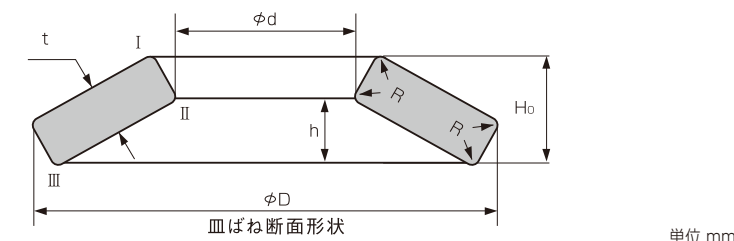


MDS

呼び	基準寸法						荷重 (N)				応力 (MPa)		
	内径	外径	板厚	有効高さ	自由高さ	有効高さ/板厚	たわみ25%	たわみ50%	たわみ75%	たわみ100% (密着)	σ II または σ III		
	d	D	t	h	Ho	h/t	δ=0.25h	δ=0.50h	δ=0.75h	δ=h	δ=0.50h	δ=0.75h	δ=h
12 - 1	12.2	25.0	0.90	0.70	1.60	0.78	402.0	690.0	929.0	1120.0	736	1040	1279
12 - 2		25.0	1.60	0.55	2.15	0.34	1360.0	2640.0	3770.0	4960.0	1005	1540	2165
12 - 3		28.0	0.90	0.97	1.87	1.08	511.0	844.0	1040.0	1170.0	865	1186	1441
12 - 4		28.0	1.60	0.70	2.30	0.44	1370.0	2540.0	3690.0	4740.0	943	1524	2134
14 - 1	14.2	28.0	1.00	0.80	1.80	0.80	507.0	886.0	1180.0	1430.0	781	1094	1354
14 - 2		28.0	1.60	0.65	2.25	0.41	1300.0	2560.0	3680.0	4760.0	892	1404	1970
14 - 3	14.3	34.0	1.00	1.15	2.15	1.15	593.0	948.0	1140.0	1260.0	777	1060	1288
14 - 4		34.0	1.60	1.00	2.60	0.63	1410.0	2580.0	3580.0	4490.0	830	1283	1882
16 - 1	16.3	31.5	1.20	0.90	2.10	0.75	771.0	1340.0	1810.0	2210.0	829	1711	1446
16 - 2		31.5	1.80	0.70	2.50	0.39	1640.0	3070.0	4490.0	5800.0	852	1368	1904
16 - 3		40.0	1.20	1.40	2.60	1.17	894.0	1430.0	1720.0	1890.0	804	1105	1339
16 - 4		40.0	1.80	1.10	2.90	0.61	1580.0	2850.0	3990.0	5010.0	722	1183	1716
18 - 1	18.3	35.5	1.20	1.00	2.20	0.83	698.0	1210.0	1590.0	1920.0	753	1053	1301
18 - 2		35.5	2.00	0.80	2.80	0.40	1960.0	3770.0	5460.0	7100.0	843	1342	1892
18 - 3		45.0	1.20	1.46	2.66	1.22	772.0	1210.0	1430.0	1550.0	676	930	1121
18 - 4		45.0	2.00	1.24	3.24	0.62	1910.0	3490.0	4850.0	6090.0	717	1154	1691
20 - 1	20.4	40.0	1.60	1.15	2.75	0.72	1370.0	2440.0	3290.0	4070.0	856	1192	1487
20 - 2		40.0	2.00	1.10	3.10	0.55	2320.0	4230.0	6000.0	7600.0	926	1324	1882
20 - 3		50.0	1.60	1.70	3.30	1.06	1520.0	2460.0	3060.0	3460.0	796	1103	1339
20 - 4		50.0	2.00	1.50	3.50	0.75	2060.0	3610.0	4880.0	5960.0	755	1062	1530
22 - 1	22.4	45.0	1.80	1.30	3.10	0.72	1730.0	3030.0	4130.0	5080.0	836	1179	1461
22 - 2		45.0	2.50	1.00	3.50	0.40	2890.0	5540.0	8040.0	10500.0	821	1306	1840
22 - 3		56.0	1.80	1.90	3.70	1.06	1900.0	3090.0	3840.0	4350.0	786	1089	1323
22 - 4		56.0	2.50	1.50	4.00	0.60	2880.0	5230.0	7320.0	9210.0	697	1160	1681
25 - 1	25.4	50.0	2.00	1.40	3.40	0.70	2090.0	3740.0	5110.0	6330.0	816	1149	1432
25 - 2		50.0	3.00	1.10	4.10	0.37	4800.0	9110.0	13400.0	17300.0	904	1438	2002
25 - 3	25.5	60.0	2.00	1.95	3.95	0.98	2260.0	3770.0	4770.0	5540.0	786	1083	1327
25 - 4		60.0	3.00	1.65	4.65	0.55	4820.0	9060.0	12700.0	16200.0	828	1350	1946
28 - 1	28.5	56.0	2.00	1.60	3.60	0.80	2030.0	3550.0	4730.0	5730.0	784	1098	1359
28 - 2		56.0	3.00	1.30	4.30	0.43	4610.0	8660.0	12500.0	16200.0	801	1291	1819
28 - 3		70.0	2.00	2.41	4.41	1.21	2400.0	3820.0	4540.0	4930.0	768	1051	1271
28 - 4		70.0	3.00	2.10	5.10	0.70	4920.0	8740.0	12000.0	14800.0	787	1139	1692
30 - 1	31.0	63.0	2.50	1.75	4.25	0.70	3160.0	5660.0	7680.0	9530.0	783	1095	1380
30 - 2		63.0	3.50	1.40	4.90	0.40	5920.0	11400.0	16500.0	21500.0	822	1307	1842
30 - 3		80.0	2.50	2.80	5.30	1.12	3870.0	6240.0	7610.0	8490.0	797	1097	1332
30 - 4		80.0	3.50	2.30	5.80	0.66	6280.0	11300.0	15600.0	19400.0	730	1180	1734

●材質：S60C~S70C、SK85、SUP10 ●硬さ：42~48HRC ●受注生産 ※表面処理と防錆処理は5ページ〔表3〕参照

# MDS 皿ばね



MDS

呼び	基準寸法						荷重 (N)				応力 (MPa)		
	内径	外径	板厚	有効高さ	自由高さ	有効高さ/板厚	たわみ25%	たわみ50%	たわみ75%	たわみ100% (密着)	σ II または σ III		
	d	D	t	h	Ho	h/t	δ=0.25h	δ=0.50h	δ=0.75h	δ=h	δ=0.50h	δ=0.75h	δ=h
35 - 1	36.0	71.0	2.50	2.00	4.50	0.80	3080.0	5380.0	7160.0	8670.0	759	1063	1316
35 - 2		71.0	4.00	1.60	5.60	0.40	8130.0	15600.0	22600.0	29400.0	844	1342	1891
35 - 3		80.0	2.50	2.60	5.10	1.04	3540.0	5820.0	7260.0	8280.0	787	1088	1328
35 - 4		80.0	4.00	2.20	6.20	0.55	8830.0	16400.0	23100.0	29500.0	830	1323	1915
40 - 1	41.0	80.0	3.00	2.30	5.30	0.77	4790.0	8380.0	11300.0	13700.0	820	1153	1428
40 - 2		80.0	5.00	1.70	6.70	0.34	13300.0	25600.0	37500.0	49000.0	930	1470	2043
40 - 3		100.0	3.00	3.35	6.35	1.12	5190.0	8370.0	10200.0	11400.0	758	1041	1265
40 - 4		100.0	5.00	2.75	7.75	0.55	13300.0	24800.0	34800.0	44400.0	837	1362	1970
45 - 1	46.0	90.0	3.50	2.50	6.00	0.71	6290.0	11200.0	15200.0	18700.0	798	1125	1397
45 - 2		90.0	5.00	2.00	7.00	0.40	12400.0	23800.0	34500.0	44900.0	820	1305	1839
45 - 3		115.0	3.50	3.80	7.30	1.09	6830.0	11100.0	13700.0	15400.0	735	1014	1233
45 - 4		115.0	5.00	3.10	8.10	0.62	11700.0	21300.0	29700.0	37200.0	679	1116	1629
50 - 1	51.0	100.0	3.50	2.80	6.30	0.80	5980.0	10500.0	13900.0	16900.0	755	1057	1308
50 - 2		100.0	6.00	2.20	8.20	0.37	18900.0	36500.0	53300.0	69500.0	904	1428	2002
50 - 3		125.0	3.50	4.00	7.50	1.14	6390.0	10300.0	12400.0	13800.0	680	935	1135
50 - 4		125.0	6.00	3.40	9.40	0.57	18300.0	33900.0	47600.0	60400.0	780	1281	1856
56 - 1	57.0	112.0	4.00	3.20	7.20	0.80	8140.0	14200.0	18900.0	22900.0	784	1098	1359
56 - 2		112.0	6.00	2.50	8.50	0.42	17500.0	33100.0	48100.0	62200.0	782	1253	1765
56 - 3		135.0	4.00	4.60	8.60	1.15	9580.0	15300.0	18600.0	20500.0	785	1080	1311
56 - 4		135.0	6.00	3.60	9.60	0.60	17100.0	31400.0	43800.0	55300.0	703	1119	1633
60 - 1	61.0	125.0	5.00	4.00	9.00	0.80	15600.0	27300.0	36300.0	44100.0	946	1324	1638
60 - 2		125.0	6.00	3.60	9.60	0.60	21400.0	39400.0	55000.0	69400.0	919	1301	1843
60 - 3		150.0	5.00	5.30	10.30	1.06	16200.0	26400.0	32800.0	37100.0	859	1188	1446
60 - 4		150.0	6.00	4.80	10.80	0.80	20800.0	36300.0	48300.0	58600.0	825	1153	1583
63 - 1	64.0	125.0	5.00	3.50	8.50	0.70	13200.0	23500.0	32100.0	39700.0	823	1160	1443
63 - 2		125.0	8.00	2.60	10.60	0.33	33700.0	65400.0	96000.0	126000.0	945	1482	2064
63 - 3		150.0	5.00	5.10	10.10	1.02	15300.0	25200.0	31700.0	36300.0	838	1160	1416
63 - 4		150.0	8.00	4.00	12.00	0.50	34800.0	65500.0	93300.0	120000.0	892	1444	2066
65 - 1	66.0	125.0	5.50	3.40	8.90	0.62	16500.0	30200.0	42100.0	52900.0	868	1229	1573
65 - 2		125.0	8.00	2.50	10.50	0.31	33200.0	64300.0	94700.0	124000.0	919	1444	2000
65 - 3		150.0	5.50	4.80	10.30	0.87	17300.0	29700.0	38800.0	46200.0	827	1152	1419
65 - 4		150.0	8.00	4.00	12.00	0.50	35300.0	66300.0	94500.0	121000.0	883	1430	2048
70 - 1	71.0	125.0	6.00	3.30	9.30	0.55	21600.0	39900.0	56400.0	71600.0	964	1373	1755
70 - 2		125.0	8.00	2.40	10.40	0.30	33700.0	65900.0	96900.0	127000.0	902	1412	1959
70 - 3		150.0	6.00	4.80	10.80	0.80	22100.0	38700.0	51500.0	62400.0	921	1289	1595
70 - 4		150.0	8.00	4.00	12.00	0.50	36600.0	68700.0	98000.0	126000.0	869	1407	2017

●材質：S60C~S70C、SK85、SUP10 ●硬さ：42~48HRC ●受注生産 ※表面処理と防錆処理は5ページ〔表3〕参照