

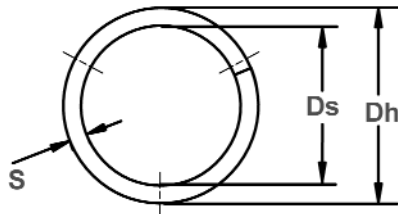
# Single Turn, Metric

Ideal for short deflection applications with low to medium forces. Offered in a number of waves and material thicknesses. Designed for a wide range of bore and rod diameters.

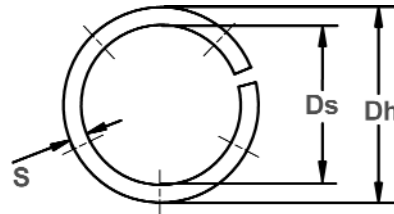
# MST Wave Springs



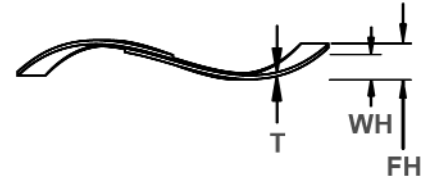
## Wave Spring Measurements



Overlap: Sizes -63 to -374  
\*Multiple Waves  
(see table)



Gap: Sizes -394 & up  
\*Multiple Waves  
(see table)



WAVE SPRING NO.	HOUSING DIAMETER		SHAFT DIAMETER CLEARANCE		LOAD (N)	WORK HEIGHT		FREE HEIGHT Ref.		NO. OF WAVES*	THICKNESS	SECTION	SPRING RATE Ref. N/mm
	Dh	Ds	WH	FH		T	S						
MST-63	16.0	11.28	44.5	1.57	2.29	3	.25	1.98	65				
MST-75	19.0	14.28	53.4	1.57	3.05	3	.25	1.98	35				
MST-87	22.0	16.46	62.3	1.57	2.79	3	.30	2.39	48				
MST-95	24.0	18.46	66.7	1.57	3.56	3	.30	2.39	35				
MST-102	26.0	18.22	71.2	1.98	2.54	3	.41	3.38	111				
MST-110	28.0	20.22	75.6	1.98	2.79	3	.41	3.38	85				
MST-118	30.0	22.22	84.5	1.98	3.30	3	.41	3.38	66				
MST-126	32.0	24.22	89.0	1.98	3.81	3	.41	3.38	52				
MST-138	35.0	27.22	97.9	1.98	4.57	3	.41	3.38	38				
MST-146	37.0	28.72	102.3	1.98	3.81	3	.46	3.63	58				
MST-158	40.0	31.72	111.2	1.98	5.08	3	.46	3.63	37				
MST-165	42.0	33.72	115.7	1.98	3.05	4	.46	3.63	99				
MST-185	47.0	38.72	129.0	1.98	3.81	4	.46	3.63	68				
MST-205	52.0	43.11	142.4	2.36	3.56	4	.61	3.81	121				
MST-217	55.0	46.11	151.3	2.36	3.81	4	.61	3.81	100				
MST-244	62.0	51.69	169.1	2.36	4.32	4	.61	4.52	85				
MST-268	68.0	57.17	186.9	2.77	4.32	4	.76	4.78	131				
MST-276	70.0	59.17	191.3	2.77	4.32	4	.76	4.78	119				
MST-284	72.0	61.17	195.8	2.77	4.57	4	.76	4.78	108				
MST-295	75.0	64.17	204.7	2.77	5.08	4	.76	4.78	94				
MST-315	80.0	68.66	218.0	2.77	5.59	4	.76	4.78	76				
MST-335	85.0	71.38	231.4	2.77	5.59	4	.76	5.92	83				
MST-354	90.0	76.38	249.2	2.77	6.35	4	.76	5.92	68				
MST-374	95.0	81.38	262.5	2.77	7.37	4	.76	5.92	57				
MST-394	100.0	86.38	275.9	2.77	4.57	5	.76	5.92	157				
MST-413	105.0	91.38	289.2	2.77	5.08	5	.76	5.92	134				
MST-433	110.0	96.38	302.6	2.77	5.33	5	.76	5.92	115				
MST-453	115.0	101.38	315.9	3.18	6.35	5	.76	5.92	99				
MST-472	120.0	106.38	329.3	3.18	7.11	5	.76	5.92	86				
MST-492	125.0	111.38	342.6	3.18	7.62	5	.76	5.92	76				
MST-512	130.0	116.38	356.0	3.18	8.64	5	.76	5.92	67				
MST-532	135.0	121.38	369.3	3.18	9.40	5	.76	5.92	59				
MST-551	140.0	126.38	382.7	3.18	6.86	6	.76	5.92	108				
MST-571	145.0	131.38	396.0	3.18	7.37	6	.76	5.92	97				
MST-591	150.0	136.38	404.9	3.18	7.87	6	.76	5.92	87				
MST-630	160.0	146.38	440.5	3.18	9.40	6	.76	5.92	71				
MST-650	165.0	151.38	453.9	3.18	10.41	6	.76	5.92	64				
MST-669	170.0	156.38	467.2	3.18	11.18	6	.76	5.92	58				

ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE STATED.

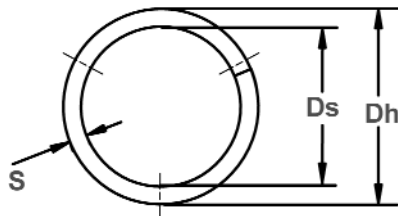




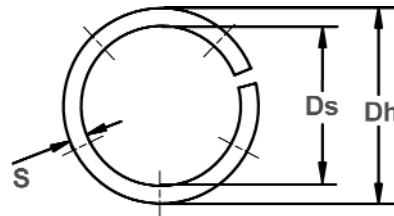
# MST Wave Springs

**Single Turn, Metric**  
 Ideal for short deflection applications with low to medium forces. Offered in a number of waves and material thicknesses. Designed for a wide range of bore and rod diameters.

## Wave Spring Measurements



Overlap: Sizes -63 to -374  
 \*Multiple Waves  
 (see table)



Gap: Sizes -394 & up  
 \*Multiple Waves  
 (see table)



WAVE SPRING NO.	HOUSING DIAMETER		SHAFT DIAMETER CLEARANCE	LOAD (N)	WORK HEIGHT	FREE HEIGHT Ref.	NO. OF WAVES*	THICKNESS		SECTION	SPRING RATE Ref. N/mm
	Dh	Ds						T	S		
MST-689	175.0	154.16	480.6	3.96	8.13	6	.81	9.53	116		
MST-709	180.0	159.16	493.9	3.96	8.64	6	.81	9.53	105		
MST-728	185.0	164.16	507.3	3.96	9.14	6	.81	9.53	97		
MST-748	190.0	169.16	520.6	3.96	9.91	6	.81	9.53	88		
MST-787	200.0	179.16	547.3	3.96	7.11	7	.81	9.53	174		
MST-807	205.0	184.16	560.7	3.96	7.37	7	.81	9.53	161		
MST-827	210.0	189.16	578.5	3.96	7.87	7	.81	9.53	149		
MST-847	215.0	194.16	591.8	3.96	8.38	7	.81	9.53	138		
MST-866	220.0	199.16	605.2	3.96	8.64	7	.81	9.53	128		
MST-886	225.0	204.16	618.5	3.96	7.11	8	.81	9.53	203		
MST-906	230.0	209.16	631.9	3.96	6.10	9	.81	9.53	303		
MST-925	235.0	214.16	645.2	3.96	6.35	9	.81	9.53	283		
MST-945	240.0	219.16	658.6	3.96	6.35	9	.81	9.53	265		
MST-984	250.0	229.16	685.3	3.96	6.86	9	.81	9.53	232		
MST-1024	260.0	239.16	712.0	3.96	7.37	9	.81	9.53	205		
MST-1043	265.0	244.16	725.3	3.96	7.62	9	.81	9.53	193		
MST-1063	270.0	249.16	743.1	3.96	8.13	9	.81	9.53	182		
MST-1102	280.0	259.16	769.8	3.96	8.64	9	.81	9.53	162		
MST-1142	290.0	269.16	796.5	3.96	9.40	9	.81	9.53	144		
MST-1181	300.0	279.16	823.2	3.96	10.41	9	.81	9.53	129		
MST-1221	310.0	289.16	849.9	3.96	7.11	9	1.07	9.53	264		
MST-1260	320.0	299.16	876.6	3.96	7.62	9	1.07	9.53	239		
MST-1339	340.0	319.16	934.5	3.96	8.64	9	1.07	9.53	198		
MST-1378	350.0	329.16	961.1	3.96	9.40	9	1.07	9.53	180		
MST-1417	360.0	339.16	987.9	3.96	7.62	10	1.07	9.53	271		
MST-1457	370.0	349.16	1014.6	3.96	8.13	10	1.07	9.53	249		
MST-1496	380.0	359.16	1041.3	3.96	8.64	10	1.07	9.53	229		
MST-1535	390.0	369.16	1072.4	3.96	9.14	10	1.07	9.53	211		
MST-1575	400.0	379.16	1099.1	3.96	9.65	10	1.07	9.53	196		
MST-1614	410.0	382.82	1125.8	3.96	8.38	10	1.07	12.70	251		
MST-1654	420.0	392.82	1152.5	3.96	8.89	10	1.07	12.70	233		
MST-1693	430.0	402.82	1179.2	3.96	7.62	11	1.07	12.70	317		
MST-1732	440.0	412.82	1205.9	3.96	8.13	11	1.07	12.70	295		
MST-1811	460.0	432.82	1263.7	3.96	8.89	11	1.07	12.70	256		
MST-1890	480.0	452.82	1317.1	3.96	8.13	12	1.07	12.70	318		
MST-1969	500.0	472.82	1370.5	3.96	8.89	12	1.07	12.70	280		
MST-2126	540.0	512.82	1481.8	3.96	8.89	13	1.07	12.70	303		
MST-2284	580.0	552.82	1593.0	3.96	8.89	14	1.07	12.70	327		

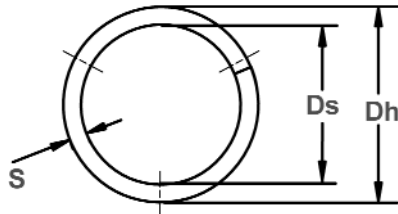
ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE STATED.

# Bearing Interchange Chart

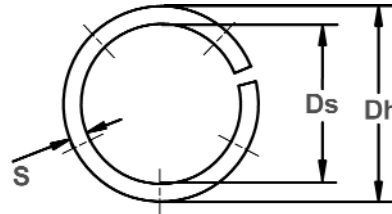
This chart pairs metric single turn wave springs with the appropriate standard bearing number.



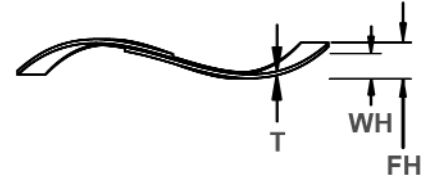
## Wave Spring Measurements



Overlap: Sizes -63 to -374  
\*Multiple Waves  
(see table)



Gap: Sizes -394 & up  
\*Multiple Waves  
(see table)



WAVE SPRING NO.	BEARING O.D. (mm)	BEARING NUMBERS						
		EXTRA SMALL	EXTREMELY LIGHT	EXTRA LIGHT	NARROW	LIGHT	MEDIUM	HEAVY
MST-63	16	34	-	-	-	-	-	-
MST-75	19	35,36	-	-	-	-	-	-
MST-87	22	37,38	00	-	-	-	-	-
MST-95	24	38KV	01	-	-	-	-	-
MST-102	26	39	-	100	-	-	-	-
MST-110	28	-	02	101	-	-	-	-
MST-118	30	-	03	-	-	200	-	-
MST-126	32	-	-	102	02	201	-	-
MST-138	35	-	-	103	-	202	300	-
MST-146	37	-	04	-	03	-	301	-
MST-158	40	-	-	-	-	203	-	-
MST-165	42	-	05	104	04	-	302	-
MST-185	47	-	06	105	-	204	303	-
MST-205	52	-	-	-	05	205	304	-
MST-217	55	-	07	106	-	-	-	-
MST-244	62	-	08	107	06	206	305	403
MST-268	68	-	09	108	-	-	-	-
MST-276	70	-	-	-	07	-	-	-
MST-284	72	-	10	-	-	207	306	404
MST-295	75	-	-	109	-	-	-	-
MST-315	80	-	11	110	08	208	307	405
MST-335	85	-	12	-	09	209	-	-
MST-354	90	-	13	111	10	210	308	406
MST-374	95	-	-	112	-	-	-	-
MST-394	100	-	14	113	11	211	309	407
MST-413	105	-	15	-	12	-	-	-
MST-433	110	-	16	114	-	212	310	408
MST-453	115	-	-	115	13	-	-	-
MST-472	120	-	17	-	14	213	311	409
MST-492	125	-	18	116	-	214	-	-
MST-512	130	-	19	117	15	215	312	410
MST-532	135	-	-	-	16	-	-	-
MST-551	140	-	20	118	-	216	313	411
MST-571	145	-	21	119	17	-	-	-
MST-591	150	-	22	120	18	217	314	412
MST-630	160	-	-	121	19	218	315	413
MST-650	165	-	24	-	20	-	-	-
MST-669	170	-	-	122	-	219	316	-

WAVE SPRING NO.	BEARING O.D. (mm)	BEARING NUMBERS						
		EXTRA SMALL	EXTREMELY LIGHT	EXTRA LIGHT	NARROW	LIGHT	MEDIUM	HEAVY
MST-689	175	-	-	-	22	-	-	-
MST-709	180	-	26	124	21	220	317	414
MST-728	185	-	-	-	22	-	-	-
MST-748	190	-	28	-	24	221	318	415
MST-787	200	-	-	126	-	222	319	416
MST-807	205	-	-	-	26	-	-	-
MST-827	210	-	30	128	-	-	-	417
MST-847	215	-	-	-	-	224	320	-
MST-866	220	-	32	-	28	-	-	-
MST-886	225	-	-	130	-	-	321	418
MST-906	230	-	34	-	-	226	-	-
MST-925	235	-	-	-	30	-	-	-
MST-945	240	-	-	132	-	-	322	-
MST-984	250	-	36	-	32	228	-	419
MST-1024	260	-	38	134	-	-	324	-
MST-1043	265	-	-	-	34	-	-	420
MST-1063	270	-	-	-	-	230	-	-
MST-1102	280	-	40	136	36	-	326	-
MST-1142	290	-	-	138	-	232	-	421
MST-1181	300	-	-	-	38	-	328	-
MST-1221	310	-	-	140	-	234	-	-
MST-1260	320	-	-	-	40	236	330	422
MST-1339	340	-	-	144	42	238	332	-
MST-1378	350	-	-	-	44	-	-	-
MST-1417	360	-	-	148	-	240	334	-
MST-1457	370	-	-	-	46	-	-	-
MST-1496	380	-	-	-	-	-	336	-
MST-1535	390	-	-	-	48	-	-	-
MST-1575	400	-	-	152	-	244	338	-
MST-1614	410	-	-	-	50	-	-	-
MST-1654	420	-	-	156	-	-	340	-
MST-1693	430	-	-	-	52	-	-	-
MST-1732	440	-	-	-	-	248	342	-
MST-1811	460	-	-	160	56	-	344	-
MST-1890	480	-	-	164	-	252	-	-
MST-1969	500	-	-	-	64	256	348	-
MST-2126	540	-	-	-	-	260	352	-
MST-2284	580	-	-	-	-	264	356	-

