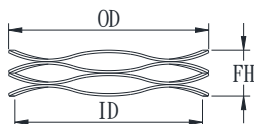




TECH SPRING MANUFACTURING CORP.



TSMS41 series Wave spring (Mechanical seals)

Raw Material: SUS316L

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Part No.	OD Outer diameter		ID Inner diameter		FH Free Height*		WH Work height		Load		Spring rate*		Unit weight	
	mm	in	mm	in	mm	in	mm	in	Kg	N	Kg/mm	N/mm	g/pcs	N/Kpcs
TSMS41-14	22.3	0.878	17.5	0.690	5.45	0.2146	2	0.0787	5.09	50	1.47	14.5	0.92	9.0
TSMS41-16	24.2	0.953	19.4	0.765	6.6	0.2598	2	0.0787	5.05	50	1.10	10.8	1.01	9.9
TSMS41-18	25.9	1.020	21.1	0.831	8.5	0.3346	2	0.0787	5.61	55	0.86	8.5	1.10	10.8
TSMS41-20	28.3	1.114	23.5	0.926	9	0.3543	3	0.1181	6.15	60	1.03	10.1	2.18	21.4
TSMS41-22	30.3	1.193	25.5	1.005	10.2	0.4016	3	0.1181	6.62	65	0.92	9.0	2.46	24.1
TSMS41-24	32	1.260	27.2	1.072	13	0.5118	3.7	0.1457	7.09	70	0.76	7.5	2.63	25.8
TSMS41-25	33.2	1.307	26.3	1.037	10.5	0.4134	3	0.1181	7.62	75	1.02	10.0	3.60	35.3
TSMS41-26	34.2	1.346	27.3	1.076	11.4	0.4488	3	0.1181	7.67	75	0.91	9.0	3.73	36.6
TSMS41-28	35.9	1.413	29.0	1.143	14.1	0.5551	3.5	0.1378	8.14	80	0.77	7.5	3.97	39.0
TSMS41-29	36.9	1.453	30.0	1.183	14.5	0.5709	3.5	0.1378	7.67	75	0.70	6.8	4.10	40.2
TSMS41-30	37.6	1.480	30.7	1.210	16.8	0.6614	3.5	0.1378	8.67	85	0.65	6.4	4.22	41.4
TSMS41-32	40.1	1.579	32.6	1.283	12	0.4724	3.5	0.1378	9.17	90	1.08	10.6	5.86	57.4
TSMS41-33	42.1	1.657	34.6	1.361	14.7	0.5787	4	0.1575	9.73	95	0.91	8.9	6.22	61.0
TSMS41-35	43.7	1.720	36.2	1.424	16.8	0.6614	4	0.1575	10.21	100	0.80	7.8	6.51	63.8
TSMS41-38	47.3	1.862	39.3	1.546	13.2	0.5197	4	0.1575	10.66	105	1.16	11.4	5.78	56.7
TSMS41-40	50	1.969	42.0	1.653	15.2	0.5984	3.5	0.1378	11.18	110	0.96	9.4	6.18	60.6
TSMS41-42	49.2	1.937	42.3	1.667	13.8	0.5433	3.5	0.1378	10.20	100	0.99	9.7	5.59	54.8
TSMS41-43	51.9	2.043	43.9	1.728	16.4	0.6457	5	0.1969	11.73	115	1.03	10.1	6.90	67.7
TSMS41-45	53.7	2.114	45.7	1.798	18.6	0.7323	5.2	0.2047	12.27	120	0.92	9.0	7.21	70.7
TSMS41-48	57.6	2.268	49.6	1.952	16.6	0.6535	5	0.1969	12.80	125	1.10	10.8	8.83	86.6
TSMS41-50	59.4	2.339	51.4	2.023	16.3	0.6417	5	0.1969	13.25	130	1.17	11.5	9.62	94.3
TSMS41-52	60.4	2.378	52.4	2.062	17	0.6693	5	0.1969	13.30	130	1.11	10.9	9.8	96.2
TSMS41-53	62.7	2.469	54.7	2.153	19.1	0.7520	5	0.1969	13.79	135	0.98	9.6	10.3	100.6
TSMS41-55	63.7	2.508	55.7	2.192	19.9	0.7835	4.5	0.1772	14.28	140	0.93	9.1	10.4	102.5
TSMS41-58	66.3	2.610	58.3	2.294	21.8	0.8583	4.5	0.1772	20.95	205	1.21	11.9	12.5	122.6
TSMS41-60	68.9	2.713	60.9	2.397	21.3	0.8366	4.5	0.1772	21.41	210	1.28	12.5	13.8	135.0
TSMS41-63	73.2	2.882	65.2	2.566	22.9	0.9016	4.5	0.1772	21.92	215	1.19	11.7	15.3	150.4
TSMS41-65	76	2.992	65.9	2.596	17.9	0.7047	5	0.1969	22.48	220	1.74	17.1	20.8	204.2
TSMS41-68	79.4	3.126	68.8	2.710	19.3	0.7598	5	0.1969	22.98	225	1.61	15.8	22.9	224.2
TSMS41-70	81.1	3.193	71.0	2.797	21.7	0.8543	5	0.1969	23.41	230	1.40	13.7	22.4	220.1
TSMS41-75	87.6	3.449	77.4	3.049	18.2	0.7165	5.5	0.2165	23.96	235	1.89	18.5	29.1	285.7
TSMS41-80	91.3	3.594	81.1	3.194	20.9	0.8228	6	0.2362	24.51	240	1.65	16.1	30.5	299.5
TSMS41-85	96.8	3.811	86.6	3.411	22.2	0.8720	6	0.2362	26.54	260	1.64	16.1	34.6	339.6
TSMS41-90	102.9	4.051	91.8	3.615	21.6	0.8504	6	0.2362	28.54	280	1.83	17.9	40.6	398.4
TSMS41-95	108.8	4.283	97.2	3.828	24	0.9449	6.5	0.2559	30.57	300	1.75	17.1	46.2	453.2
TSMS41-100	113.4	4.465	101.8	4.009	27.9	1.0984	6.5	0.2559	32.63	320	1.52	15.0	48.5	475.3

Free height* & spring rate* are theoretical dimensions.

MADE IN TAIWAN