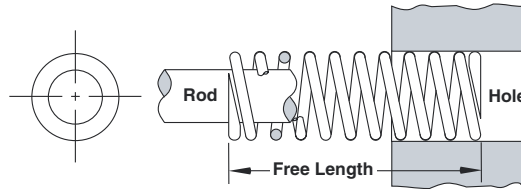
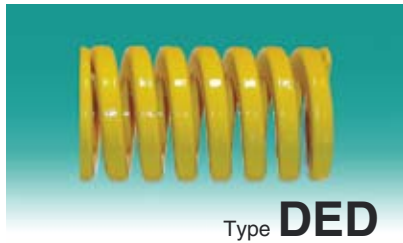


Extra Heavy Duty

Inch-ISO Colors



HOW TO ORDER

Specify:	Qty.	Catalog #
Example:	18	DED100-450
	24	DED125-500

Note: Efficient Operating Range is 15% to 25% of the free length. (Maximum deflection = 25%; long life = 20%; and optimum life = 15%.) "Travel to Solid" is for reference only. Deflection beyond the Efficient Operating Range could create a safety hazard, and result in premature spring failure.

Hole Dia.	Rod Dia.	Free Length	Catalog Number	LOAD DEFLECTION TABLE							Load @ .1" Deflection (lbs)
				25% Deflection		20% Deflection		15% Deflection		Travel to Solid	
				Load (lbs)	Deflection (in)	Load (lbs)	Deflection (in)	Load (lbs)	Deflection (in)	Deflection (in)	
3/8	3/16	1	DED37-100	56	.250	45	.200	34	.150	.289	22.5
		1.25	DED37-125	58	.313	46	.250	35	.188	.356	18.5
		1.5	DED37-150	57	.375	46	.300	34	.225	.505	15.3
		1.75	DED37-175	50	.438	40	.350	30	.263	.599	11.4
		2	DED37-200	50	.500	40	.400	30	.300	.700	10.0
		2.5	DED37-250	50	.625	40	.500	30	.375	.913	8.0
		3	DED37-300	60	.750	48	.600	36	.450	1.077	8.0
		12	DED37-1200	60	3.000	48	2.400	36	1.800	4.585	2.0
1/2	9/32	1	DED50-100	91	.250	73	.200	55	.150	.371	36.5
		1.25	DED50-125	94	.313	75	.250	56	.188	.439	30.0
		1.5	DED50-150	93	.375	74	.300	56	.225	.471	24.8
		1.75	DED50-175	97	.438	77	.350	58	.263	.651	22.1
		2	DED50-200	95	.500	76	.400	57	.300	.747	19.0
		2.5	DED50-250	90	.625	72	.500	54	.375	.916	14.4
		3	DED50-300	84	.750	67	.600	50	.450	1.094	11.2
		3.5	DED50-350	83	.875	67	.700	50	.525	1.211	9.5
12	DED50-1200	84	3.000	67	2.400	50	1.800	4.888	2.8		
5/8	11/32	1	DED62-100	173	.250	138	.200	104	.150	.281	69.0
		1.25	DED62-125	160	.313	128	.250	96	.188	.375	51.0
		1.5	DED62-150	151	.375	121	.300	91	.225	.441	40.3
		1.75	DED62-175	162	.438	130	.350	97	.263	.578	37.0
		2	DED62-200	153	.500	122	.400	92	.300	.605	30.5
		2.5	DED62-250	158	.625	126	.500	95	.375	.786	25.2
		3	DED62-300	147	.750	118	.600	88	.450	.956	19.6
		3.5	DED62-350	152	.875	122	.700	91	.525	1.191	17.4
4	DED62-400	147	1.000	118	.800	88	.600	1.373	14.7		
12	DED62-1200	150	3.000	120	2.400	90	1.800	4.388	5.0		
3/4	3/8	1	DED75-100	363	.250	290	.200	218	.150	.263	145.0
		1.25	DED75-125	398	.313	318	.250	239	.188	.341	127.0
		1.5	DED75-150	324	.375	260	.300	195	.225	.466	86.5
		1.75	DED75-175	369	.438	295	.350	221	.263	.573	84.2
		2	DED75-200	362	.500	289	.400	217	.300	.668	72.3
		2.5	DED75-250	316	.625	253	.500	190	.375	.850	50.6
		3	DED75-300	311	.750	249	.600	187	.450	1.014	41.5
		3.5	DED75-350	332	.875	265	.700	199	.525	1.158	37.9
		4	DED75-400	300	1.000	240	.800	180	.600	1.399	30.0
		4.5	DED75-450	341	1.125	273	.900	205	.675	1.602	30.3
		5	DED75-500	344	1.250	275	1.000	206	.750	1.722	27.5
		5.5	DED75-550	303	1.375	242	1.100	182	.825	1.976	22.0
6	DED75-600	332	1.500	265	1.200	199	.900	2.111	22.1		
12	DED75-1200	336	3.000	269	2.400	202	1.800	4.432	11.2		

FDS[®]
FIRM DELIVERY SCHEDULE
1 Day

Extra Heavy Duty

Inch-ISO Colors

Hole Dia.	Rod Dia.	Free Length	Catalog Number	LOAD DEFLECTION TABLE							Load @ .1" Deflection (lbs)
				25% Deflection		20% Deflection		15% Deflection		Travel to Solid	
				Load (lbs)	Deflection (in)	Load (lbs)	Deflection (in)	Load (lbs)	Deflection (in)	Deflection (in)	
1	1/2	1.25	DED100-125	631	.313	505	.250	379	.188	.400	202.0
		1.5	DED100-150	666	.375	533	.300	399	.225	.480	177.5
		1.75	DED100-175	578	.438	462	.350	347	.263	.570	132.0
		2	DED100-200	615	.500	492	.400	369	.300	.609	123.0
		2.5	DED100-250	606	.625	485	.500	364	.375	.787	97.0
		3	DED100-300	600	.750	480	.600	360	.450	.936	80.0
		3.5	DED100-350	613	.875	490	.700	368	.525	1.160	70.0
		4	DED100-400	570	1.000	456	.800	342	.600	1.320	57.0
		4.5	DED100-450	585	1.125	468	.900	351	.675	1.493	52.0
		5	DED100-500	651	1.250	521	1.000	391	.750	1.704	52.1
		5.5	DED100-550	523	1.375	418	1.100	314	.82	1.910	38.0
		6	DED100-600	648	1.500	518	1.200	389	.900	2.013	43.2
1 1/4	5/8	7	DED100-700	513	1.750	410	1.400	308	1.05	2.48	29.3
		8	DED100-800	510	2.000	408	1.600	306	1.20	2.84	25.5
		12	DED100-1200	642	3.000	514	2.400	385	1.800	4.366	21.4
		1.5	DED125-150	1046	.375	837	.300	628	.225	.440	279.0
		1.75	DED125-175	1011	.438	809	.350	606	.263	.530	231.0
		2	DED125-200	975	.500	780	.400	585	.300	.542	195.0
		2.5	DED125-250	1058	.625	846	.500	635	.375	.818	169.2
		3	DED125-300	1027	.750	821	.600	616	.450	.983	136.9
		3.5	DED125-350	910	.875	728	.700	546	.525	1.148	104.0
		4	DED125-400	875	1.000	700	.800	525	.600	1.310	87.5
		4.5	DED125-450	872	1.125	698	.900	523	.675	1.524	77.5
		5	DED125-500	881	1.250	705	1.000	529	.750	1.718	70.5
1 1/2	3/4	5.5	DED125-550	880	1.375	704	1.100	528	.820	1.850	64.0
		6	DED125-600	863	1.500	690	1.200	518	.900	2.078	57.5
		7	DED125-700	858	1.750	686	1.400	515	1.05	2.33	49.0
		8	DED125-800	986	2.000	789	1.600	592	1.200	2.749	49.3
		10	DED125-1000	948	2.500	758	2.000	569	1.500	3.383	37.9
		12	DED125-1200	825	3.000	660	2.400	495	1.800	4.047	27.5
		2	DED150-200	—	—	1416	.400	1062	.300	.440	354.0
		2.5	DED150-250	1672	.625	1338	.500	1003	.375	.633	267.5
		3	DED150-300	—	—	1320	.600	990	.450	.735	220.0
		3.5	DED150-350	1641	.875	1313	.700	984	.525	.933	187.5
		4	DED150-400	1650	1.000	1320	.800	990	.600	1.237	165.0
		4.5	DED150-450	1592	1.125	1274	.900	955	.675	1.312	141.5
2	1	5	DED150-500	1625	1.250	1300	1.000	975	.750	1.514	130.0
		5.5	DED150-550	1348	1.375	1078	1.100	809	.820	1.810	98.0
		6	DED150-600	1575	1.500	1260	1.200	945	.900	1.857	105.0
		7	DED150-700	1314	1.750	1051	1.400	789	1.05	2.310	75.1
		8	DED150-800	1740	2.000	1392	1.600	1044	1.200	2.690	87.0
		10	DED150-1000	1680	2.500	1344	2.000	1008	1.500	3.470	67.2
		12	DED150-1200	1560	3.000	1248	2.400	936	1.800	4.260	52.0
		2.5	DED200-250	—	—	—	—	1538	.375	.480	410.0
		3	DED200-300	—	—	1740	.600	1305	.450	.650	290.0
		3.5	DED200-350	—	—	1925	.700	1444	.525	.800	275.0
		4	DED200-400	2400	1.000	1920	.800	1440	.600	1.010	240.0
		4.5	DED200-450	2447	1.125	1958	.900	1468	.675	1.230	217.5
		5	DED200-500	2250	1.250	1800	1.000	1350	.750	1.410	180.0
		5.5	DED200-550	2214	1.375	1771	1.100	1328	.820	1.750	161.0
		6	DED200-600	2310	1.500	1848	1.200	1386	.900	1.770	154.0
		7	DED200-700	2153	1.750	1722	1.400	1292	1.05	2.210	123.0
		8	DED200-800	2370	2.000	1896	1.600	1422	1.200	2.480	118.5
		10	DED200-1000	2200	2.500	1760	2.000	1320	1.500	3.190	88.0
		12	DED200-1200	2598	3.000	2078	2.400	1559	1.800	3.900	86.6

MaxLife Die Springs

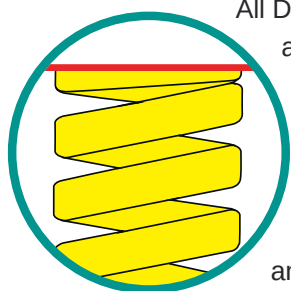
Product Applications

Dayton MaxLife® Die Springs are designed to the highest quality standards, and manufactured to outperform and outlast other major brands. All Dayton die springs are available in a wide range of lengths, diameters, and load classifications in both inch and metric sizes. In addition, all springs are color-coded for easy identification of load range.

Corrosion-resistant Dayton die springs are made from pre-tempered chrome silicon wire to improve dimensional accuracy, minimize high-stress cracking, optimize the working life of press and mold dies, and help reduce downtime. Many manufacturers specify Dayton die springs to ensure optimum operation in heavy industry applications, including: automotive; aircraft; appliance; electrical; and electronic.

Quality & Performance

From the incoming raw material (tested for tensile strength, dimensional accuracy, and surface quality) to the finished product, every Dayton die spring undergoes continuous quality control to ensure optimum product performance. In comparison testing, Dayton die springs consistently outperform and outlast other major brands.



All Dayton die springs are stress relieved after coiling, then compressed to solid to enhance fatigue life. Further, they are ground square at both ends (see insert), then shot-peened. (Shot-peening supplements compressive strength to reduce stress and extend spring life.) Finally, all

finished springs are electro-statically coated with a durable, anti-corrosive vinyl, and color-coded for easy identification of load ranges.



Ordering Information

Dayton die springs are ordered according to: the amount of pressure applied to the spring (see “Load Deflection Table”); the hole diameter (which determines the rod diameter); and, the free length of the spring (see drawing on usage category page). On each order, please specify quantity and “Catalog Number.”

In the example below, the first “Catalog Number” is DMD37-100. “DMD” refers to Medium Duty Inch. “37” refers to a $\frac{3}{8}$ hole diameter and $\frac{3}{16}$ rod diameter. The “100” designation further defines the product with a free length of 1. The “Load Deflection Table” on each catalog page provides percentage of deflection, travel to solid, and load @ 1" or 1mm deflection to help determine the exact spring to select. The second product code shown is for an extra heavy duty metric spring.

The “Efficient Operating Range” of any spring should not be exceeded. For safe operation, when changing from another manufacturer to a Dayton die spring, verify that the travel of both springs is the same.

HOW TO ORDER

Specify:	Qty.	Catalog Number
Example:	16	DMD37-1200

Worldwide Distribution, On-time Delivery

Dayton maintains a large inventory of Dayton MaxLife® Die Springs in all standard categories throughout our system. There are no minimum size orders, and on-time delivery is a top priority. A Firm Delivery Schedule (FDS) is provided in each catalog section.

Industry Standards

All Dayton MaxLife® Die Springs are designed to meet or exceed technical specifications and other criteria as established by industry guidelines. Designated springs are manufactured to meet or exceed The International Organization for Standardization (ISO) and/or Japanese Industrial Standards (JIS).