

Extension Springs — DIN 2097

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Extension Springs to DIN 2097. Full dimensional table, materials, finishes and quotation. 12 sizes listed.



Technical Drawing

Customize the parameters below — every spec field is editable, and the drawing redraws to match the values you choose.

Changing the size will snap the other fields to that size's standard values; you can then override any individual value.

Sends the selected values to the quote form below.

Request a Quotation for Extension Springs

Tell us the size, material, finish and quantity you need for Extension Springs (DIN 2097) and our team will respond within one business day. Click "Request this configuration" on the drawing above to send the parameters you just chose straight into this

form.

Category Type Standard Thread size Material Finish

Dimensions & Specifications (DIN 2097)

Every row below is a starting point for the customizer above — pick any size and the drawing will redraw to that row.

Wire dia d (mm)	Inner diameter Di (mm)	Outer diameter De (mm)	Free length Lo (mm)	Active coils n	Initial tension Fi (N)	Rate k (N/mm)	Material	Reference standard
0.5	3.5	4.5	20	12	10	0.7	Spring steel	DIN 2097 / EN 15800
0.6	4.5	5.7	25	12	15	1.2	Spring steel	DIN 2097 / EN 15800
0.8	5.5	7.1	30	12	30	2.5	Spring steel	DIN 2097 / EN 15800
1.0	7.0	9.0	40	15	45	3.5	Spring steel	DIN 2097 / EN 15800
1.2	8.5	10.9	50	15	70	6.0	Spring steel	DIN 2097 / EN 15800
1.5	11.0	14.0	60	15	100	8.0	Spring steel	DIN 2097 / EN 15800
2.0	13.0	17.0	80	15	200	16.0	Spring steel	DIN 2097 / EN 15800
2.5	17.0	22.0	100	15	380	30.0	Spring steel	DIN 2097 / EN 15800
3.0	22.0	28.0	120	15	680	55.0	Spring steel	DIN 2097 / EN 15800
4.0	28.0	36.0	160	15	1500	120.0	Spring steel	DIN 2097 / EN 15800
5.0	36.0	46.0	200	15	2900	210.0	Spring steel	DIN 2097 / EN 15800
6.0	46.0	58.0	250	15	5200	380.0	Spring steel	DIN 2097 / EN 15800

Extension Springs (DIN 2097) are a type of springs used across industrial assembly. Below is the complete size table together with material, standard and application guidance.

What Are Extension Springs?

Extension Springs are springs defined by DIN 2097. They are selected by thread size and the dimensional characteristics shown below, and are available in a range of materials and finishes to suit the application and environment.

Materials & Finishes

Common materials include carbon steel (typically zinc plated or hot-dip galvanized), alloy steel in property classes 8.8, 10.9 and 12.9, and stainless steel A2 (304) or A4 (316) for corrosion resistance. Specify the material, property class and surface finish appropriate to your load and environment.

Typical Applications

Energy storage and return in mechanisms, valves, tools and assemblies. [Read the full application guide for Extension Springs →](#)

Related Fasteners

- [Compression Spring — ISO / DIN \(Series 145\) — ISO / DIN](#)
- [Compression Spring — ISO / DIN \(Series 146\) — ISO / DIN](#)
- [Compression Spring — ISO / DIN \(Series 144\) — ISO / DIN](#)
- [Compression Spring — ISO / DIN \(Series 142\) — ISO / DIN](#)
- [Compression Spring — ISO / DIN \(Series 141\) — ISO / DIN](#)

Pricing

Extension Springs are stocked and supplied to order. Pricing starts from approximately US\$0.18 per piece for standard sizes in carbon steel; final pricing depends on size, material, finish and order quantity (MOQ applies). Submit your exact configuration with the quote form above.

Frequently Asked Questions

What is the controlling standard for Extension Springs, and what drive do they take?

Extension Springs are manufactured to DIN 2097 and use the standard drive for this product family. The dimensional values on this page follow that standard.

What is the size range of Extension Springs?

The table on this page lists 12 sizes for Extension Springs, ranging from 0.5 to 6.0. Sizes outside the table can be quoted on request.

In which materials are Extension Springs supplied?

Extension Springs are supplied in spring steel SH/DH and stainless, with finishes including zinc plating, hot-dip galvanizing and black oxide. Choose material and finish to suit the load and the service environment for Extension Springs.

How do I request a quotation?

Use the parametric drawing on this page to set the exact configuration (size, material, finish) and click "Request this configuration" — a specialist from engineeringhardware.com will respond within one business day.

More Springs

[← Previous](#)[Compression SpringsDIN 2098](#)[Next →](#)[Torsion SpringsDIN 2089](#)