

Technical Information

Wire Products - Chiltern Springs

Chiltern Springs

The Product

The Chiltern Springs business is focused on the supply and manufacture of all types of upholstery springs, developed specifically to meet the individual requirements of the upholstered furniture trade and other end users including the automotive and leisure industries.

The range includes tension springs and serpentine springs (known also as zig-zags). Both of which can be supplied as individual items or ready-assembled into units for ease of fitting. Double cone and single cone springs plus associated fixing products complete the range.

Chiltern Springs concentrates on providing the total package for the upholstery trade, offering both standard, off-the-shelf products and individual items requiring bespoke manufacture, such as sprung edge units and tension spring assemblies.

The Service

The company has built up an excellent reputation for customer service, with a significant proportion of the total product range available ex-stock for immediate delivery.

With qualified specialists on hand to make expert recommendations on both product and spring content, the Chiltern Springs service is tailored to meet the requirements of today's upholstery manufacturer.

Operating from a modern production unit on a busy industrial estate, Chiltern Springs enjoys easy access to the motorway network for fast and reliable deliveries of quality goods.

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Product Range

Serpentine Springs - Specifications Available

Product Format

Standard Z-Z (seats and backs) (zz).

Loop size 48mm x 19mm pitch.

Length - most popular lengths available ex stock (20-28" in ½" increments).

Arc style - Flat, D'Arc, Full Arc.

Coils 100 feet (30 metres) ex stock.

Gauges - 13 to 8 gauge (2.32mm to 4.06mm).

X-L Medium Loop (seats and backs) (XL).

Loop size 51mm x 31mm pitch.

Length - most popular lengths available to order.

Arc style - Large Arc, Full Arc.

Coils 100 feet (30 metres) to order.

Gauges - 9 to 8.5 (3.66mm to 3.86mm).

Superloop (backs only) (SL).

Loop size 76mm x 55mm pitch.

Length - most popular lengths available ex stock.

Arc style - D'Arc.

Coils 100 feet (30 metres) to order.

Gauges - 11,10, 9 gauge (2.95mm, 3.25mm, and 3.66mm).

All the above can be supplied in ready-assembled unit form, if required.

Recommendations for Serpentine Spring Seating

Inside Seat Dimension Back to Front		Recommended Wire Size		Length of Spring Required		Inside Seat Dimension Side to Side		Number of Strands
Inches	Cm	Gauge	mm	Inches	Cm	Inches	Cm	
12	30.4	11	2.95	11.5	29.2	21	53.3	5
14	35.5	11	2.95	13.5	34.3	23	58.4	5
16	40.6	10	3.25	15.5	39.4	25	63.5	6
18	45.7	10	3.25	17.5	44.5	42	106.7	11
20	50.8	9	3.66	19.5	49.5	46	116.7	12
22	55.9	9	3.66	21.5	54.6	50	127.0	13
24	61.0	9	3.66	23.5	59.7	60	152.4	15
26	66.0	9/8.5	3.66/3.86	25.5	64.8	66	167.6	16
28	71.1	9/8.5	3.66/3.86	27.5	69.8	70	177.8	18

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Tension Springs

Standard lengths available - 2" (5.1cm) up to 24" (61cm) (other sizes available on request).

Wire Size - 18 gauge to 14 gauge (1.19mm to 2.02mm)

Finish - Plain or Galvanised (depending on wire size).

Additional Option - Plastic Sleeve Covered.

Spring Diameter - 0.3" (7.6mm) to 0.5" (12.7mm) (depending on gauge).

Tension Spring Assemblies (Spider Units)

Manufactured to customer requirements.

Double Cone Upholstery Spring

Sizes available (Height) - From 3" (76mm) to 12" (305mm).

Wire Size - From 14.5 gauge (1.93mm) to 8 gauge (4.06mm), depending on height.

Finish - Plain or Coppered.

End Coil Diameters - to customer requirements.

Single Cone Upholstery Springs

Sizes available (Height) - From 3" (76mm) to 6" (152mm).

Wire Size - From 12 gauge (2.65mm) to 9 gauge (3.66mm).

Finish - Plain, Coppered, or Galvanised.

End Coil and Ring Base Diameters - to customer requirements.