



We create customer value.



Catalogue

Welcome to the world
of RED Spring Units



We create customer value.



Welcome to the world of RED Spring Units

... a world created by high quality spring units designed to ensure good and healthy sleep, a world built on knowledge, prompt customer service, professionalism and loyalty. RED Springs is the largest bonnell and pocket spring units manufacturer in South-Eastern Europe. RED production facility was opened in 1995 in the city of Plovdiv, Bulgaria. Our philosophy has been driven by the following four fundamental principles, developed over the time and proven to be successful:

- We create value for our customers.
- We develop and maintain strong competitive and customized service for our partners.
- We focus on the continuous improvement of product quality.
- We constantly implement innovative and up-to-date technologies.

The company has expanded considerably for a short period of time - true evidence that the family of our customers is progressively growing, and this is due to our strong belief that trust, loyalty and the principles of the fair play are essential for business relations.

Today RED Springs is one of the most popular innerspring brand names in Europe and a market leader in the field of semi-finished products. The most important and valuable contribution to the company's success are our employees. Motivated employees are the most important asset and contribute to the company's success. Their "know-how", wealth of ideas and dedication are guarantee for good results and superior quality. This is why we place particular importance on both basic and further training. Over 100 people are on their way into the professional world. Quality training for good future results is an important corporate goal for RED Springs.

The deep understanding of our customers' needs enables us to develop services tailored to their individual requirements:

- Expert advice and service
- High product quality
- Flexible price
- Prompt delivery time
- Worldwide sales coverage

About us...



Steel Strip Wire

| Dimensions | Tolerance (± mm) | Tensile Strength (N/mm ² min-max) | Carbon grade (%) | Standard |
|------------|------------------|--|------------------|---------------------|
| 3x1.4 mm | ±0.02 | 1500 - 1550 | 0.55 | DIN 10132, EN 40140 |
| 8x1.4 mm | ±0.02 | 1500 - 1600 | 0.55 | DIN 10132, EN 40140 |
| 10x1.4 mm | ±0.02 | 1600 - 1650 | 0.55 | DIN 10132, EN 40140 |



Spring Steel Wire

| Wire Diameter Ø (mm) | Tolerance (± mm) | Tensile Strength (N/mm ² min-max) | Carbon grade percentage (min-max. %) | Torsion (min) | Standard |
|----------------------|------------------|--|--------------------------------------|---------------|---------------------|
| 1.20 | ±0.02 | 1870 - 2100 | 0.65 | 25 | TS2500-1 EN 10270-1 |
| 1.30 | ±0.02 | 1870 - 2130 | 0.45 - 0.65 | 25 | TS2500-1 EN 10270-1 |
| 1.40 | ±0.02 | 1850 - 2080 | 0.65 | 25 | TS2500-1 EN 10270-1 |
| 1.50 | ±0.01 | 1850 - 2080 | 0.65 | 25 | TS2500-1 EN 10270-1 |
| 1.60 | ±0.02 | 1810 - 2030 | 0.72 | 22 | TS2500-1 EN 10270-1 |
| 1.70 | ±0.025 | 1790 - 2010 | 0.72 | 22 | TS2500-1 EN 10270-1 |
| 1.80 | ±0.025 | 1770 - 1990 | 0.72 | 22 | TS2500-1 EN 10270-1 |
| 1.90 | ±0.025 | 1760 - 1970 | 0.65; 0.72 | 22 | TS2500-1 EN 10270-1 |
| 2.00 | ±0.025 | 1740 - 1960 | 0.65- 0.72 | 22 | TS2500-1 EN 10270-1 |
| 2.10 | ±0.025 | 1720 - 1990 | 0.65 | 22 | TS2500-1 EN 10270-1 |
| 2.20 | ±0.025 | 1700 - 1910 | 0.65 | 22 | TS2500-1 EN 10270-1 |
| 2.30 | ±0.025 | 1700 - 1910 | 0.65 | 22 | TS2500-1 EN 10270-1 |
| 2.40 | ±0.025 | 1690 - 1890 | 0.65 | 22 | TS2500-1 EN 10270-1 |
| 3.80 | ±0.025 | 1270 - 1370 | 0.68 | 18 | TS2500-1 EN 10270-1 |



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nanoSprings™

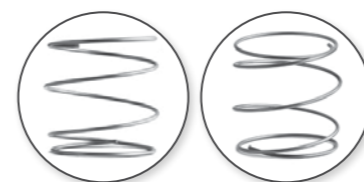
Innovation formula for success and products of NEW generation!

Nano Springs™ is the smallest member in the Pocket Springs family. These comfort layers consistently outperform expensive foams and other synthetic filling materials. Placed on the top of innerspring, topper systems, pillows, seats or just laid one on another, these sheets of **Nano Springs™** bring an enhanced level of luxury comfort.



What is nanoSprings™

After the great discoveries of Bonnell and Pocket Spring Systems that revolutionize the quality and perception of good sleep, **nanoSprings™** is the next big discovery that will leave a lasting mark and will radically change perceptions of sleep. Springs of tomorrow, the springs of the future, this world's technology combines the best of the knowledge of good sleep - it makes the smallest possible pocket spring unit, minimized to the least possible diameter, size and height.



Breathing technology

| Specification | Product range |
|------------------------------|--|
| Diameter Ø | 35 – 45 mm |
| Height | 25 – 40 mm |
| Wire diameter Ø | 1.20 mm – 1.60 mm |
| Dimension | On request |
| Pocket spring unit packaging | Roll packed |
| Heat-treated | No |
| Nonwoven | Spun bond (PP –100%) Needle Punch (PP –90%, Polyester –10%) |



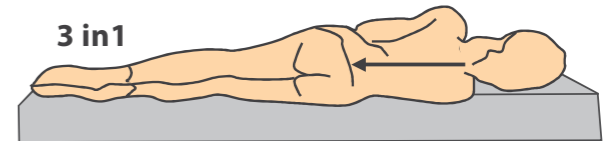
Touch the softness of the brand NEW technology. 3 in 1

3 in1 is a pocket spring which have a distinctive design that is actually three springs in one.

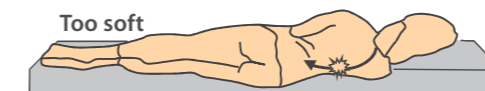
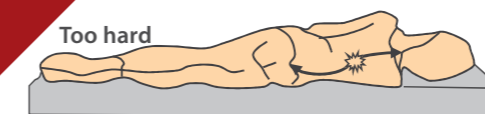
- The top and bottom of the coil are wider, which give initial soft and luxurious feeling.
- The center of the spring is more tightly formed, giving a firmer and supportive response, when is required.
- The final effect is initial softness and comfort followed by good responsive support as more pressure is applied. This unique design responds quickly to the shape and movement of individual bodies as they change sleeping position.
 - Each **3 in1** coil responds independently, which reduce the discomfort of the sleeping partner.

3 in1 responds effectively to varying body weights, providing support where it is needed most, without being too hard or too soft.

3 in1 allows the muscles to relax in a more natural sleep position. The springs adjust instantly to the sleep movements, comforting and supporting your body actively.



| Specification | Product range |
|--------------------------------------|--|
| Head diameter Ø | 59 mm |
| 1 st two turns diameter Ø | 62 mm |
| Middle 3 turns diameter Ø | 50 mm |
| Height | 150 – 180 mm |
| Wire diameter Ø | 1.60 mm; 1,70 mm, 1.80 mm; 1.90 mm |
| Coils per m ² | 220 – 250 |
| Pocket spring unit packaging | Roll packed (5 – 10 units in a roll) |
| Bonding | Centrally glued; on the top and bottom fleece of Nonwoven materials; or both of them |
| Nonwoven | Spun bond (PP – 100%) Needle Punch (PP – 90%, Polyester – 10%) |





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RED Standard Pocket Spring Units

RED Standard Pocket Spring is an innerspring technology where all springs are separately packed in non-woven material - spunbond (it is widely used in textile, medical and other industries for manufacture of diapers, surgery equipment, etc.). The pocket is closed by means of ultrasound and it forms a spring sleeve - along or along the width of the mattress. After that, sleeve by sleeve, they are glued together under pressure. This allows them to move independently in the spring pack thus guaranteeing softness and total comfort of the mattress.

- A durable spring system – all pocket springs are extra heat-treated; Independence of every single coil
- Excellent spring characteristics
- Great range of spring unit sizes
- Excellent ergonomic comfort
- Best price/quality combination
- Scientifically proven healthy and ecological interior for your bed and upholstery products
- We can offer you the perfect match for your needs.

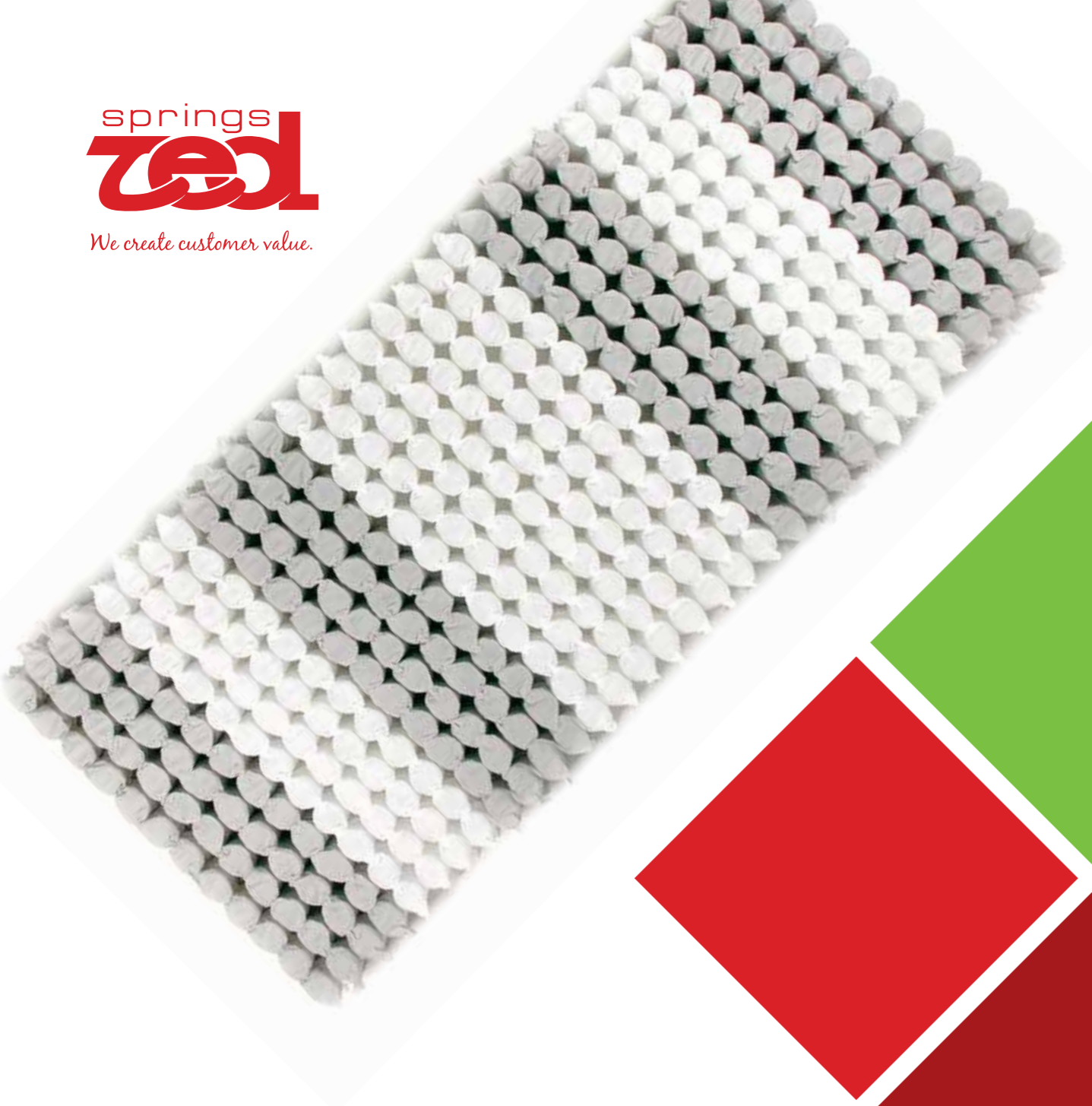
RED Standard Pocket Spring Units



| Specification | Product range |
|--|--|
| Pocket spring diameter Ø | 52 – 65 mm |
| Pocket spring height | 90 – 220 mm |
| Pocket spring wire diameter Ø | 1.50 mm – 2.0 mm |
| Coils per m ² | 200 – 250 |
| Pocket spring unit Frame specification | 3x1.4 mm; 8x1.4 mm; 10x1.4 mm |
| | Top; Top/Bottom; Middle |
| | Available without frame |
| Pocket spring unit packaging | Roll packed (5 – 10 units in a roll) |
| Bonding | Centrally glued; on the top and bottom fleece of Nonwoven materials; or both of them |
| Nonwoven | Spun bond (PP – 100%) Needle Punch (PP – 90%, Polyester – 10%) |



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RED Zoned Pocket Spring Units

RED Zoned Pocket springs consist of comfort zones for the different parts of the body. They are organized according to the specific pressure they exert on the mattress surface. They are especially reinforced in the areas of the neck, shoulders, backside, seat and knees.

- Precise distribution of the body weight, which guarantees ideal maintenance of the proper shape of the spine during relaxation and sleep.
- Long life and ideal mattress that will not lose its orthopedic qualities and comfort for years.

Choose RED Zoned Pocket Spring Units and you obtain:

- A durable spring system – all pocket springs are extra heat-treated
- Independence of every single coil
 - Excellent comfort
 - Zones of different wire types for maximum ergonomic ease
 - Best price/quality combination
- Scientifically proven healthy and ecological interior for your bed and upholstery products

RED Zoned Pocket Spring Units



| Specification | Product range |
|---|--|
| Pocket spring diameter Ø | 52 – 65 mm |
| Pocket spring height | 90 – 200 mm |
| Pocket spring wire diameter Ø | 1.50 mm – 2.0 mm |
| Coils per m ² | 220 – 250 |
| Pocket spring unit Frame specification | 3x1.4 mm; 8x1.4 mm; 10x1.4 mm |
| | Top; Top/Bottom; Middle |
| | Available without frame |
| Pocket spring unit packaging | Roll packed (5 – 10 units in a roll) |
| Bonding | Centrally glued; on the top and bottom fleece of Nonwoven materials; or both of them |
| Nonwoven | Spun bond (PP – 100%) Needle Punch (PP – 90%, Polyester – 10%) |



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RED Multi Pocket Spring Units – Standard

RED Multi Pocket Spring Unit-Standard

- Multi Pocket is the last development in the area of orthopedic properties of the mattresses. Numerous springs ideally reflect the contours of your body.
- Precise distribution of the body weight, which guarantee ideal maintenance of proper shape of the spine during relaxation and sleep for you and your partner.
- Long life and ideal mattresses that will not lose its orthopedic qualities and comfort for years.
- This is the best solution, that can cover all of your precise needs.

RED Multi Pocket Spring Units – Standard

Choose RED Multi Pocket Spring Unit and you obtain:

- A durable spring system-all pocket springs are extra heat treated
- Independence of every single coil
- Low range of used wire, which brings a softness of the product
- Increase of the performance while sleeping
- Best price/quality combination
- Scientifically proven healthy and ecological interior for your bed and upholstered products



| Specification | Product range | |
|--|--|----------------|
| Pocket spring diameter Ø | 39 – 44 mm | 44 – 50 mm |
| Pocket spring height | 120 – 200 mm | 120 – 200 mm |
| Pocket spring wire diameter Ø | 1.30 – 1.60 mm 1.20 on request | 1.30 – 1.80 mm |
| Coils per m ² | 460 – 630 | 300 – 460 |
| Pocket spring unit Frame specification | 3x1.4 mm; 8x1.4 mm; 10x1.4 mm | |
| | Top; Top/Bottom; Middle | |
| | Available without frame | |
| Pocket spring unit packaging | Roll packed (5 – 7 units in a roll) | |
| Bonding | Centrally glued; on the top and bottom fleece of Nonwoven materials; or both of them | |
| Nonwoven | Spun bond (PP –100%) Needle Punch (PP – 90%, Polyester –10%) | |



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RED Multi

Pocket Spring Units – Zoned

RED Multi Pocket Spring Unit-Zoned

- Multi Pocket is a cutting-edge technology that goes beyond all the others.
- Precise distribution of the body weight, which guarantees ideal maintenance of proper shape of the spine during relaxation and sleep for you and your partner.
- It allows variety of the coil diameter, shape, and height featuring a higher coil count and different configuration of the zones.
 - This is the best solution, that can cover all if your precise needs.

RED Multi Pocket Spring Units – Zoned

Choose RED Multi Pocket Spring Unit and you obtain:

- A durable spring system-all pocket springs are extra heat treated
- Independence of every single coil
- Excellent comfort
- Zones of different wire types for maximum ergonomic case
- Best price/quality combination
- Scientifically proven healthy and ecological interior for your bed and upholstered products



| Specification | Product range | |
|--|--|----------------|
| Pocket spring diameter Ø | 39 – 44 mm | 44 – 50 mm |
| Pocket spring height | 120 – 180 mm | 120 – 180 mm |
| Pocket spring wire diameter Ø | 1.30 – 1.60 mm 1.20 on request | 1.30 – 1.80 mm |
| Coils per m ² | 460 – 630 | 300 – 460 |
| Pocket spring unit Frame specification | 3x1.4 mm; 8x1.4 mm; 10x1.4 mm | |
| | Top; Top/Bottom; Middle | |
| | Available without frame | |
| Pocket spring unit packaging | Roll packed (5 – 7 units in a roll) | |
| Bonding | Centrally glued; on the top and bottom fleece of Nonwoven materials; or both of them | |
| Nonwoven | Spun bond (PP –100%) Needle Punch (PP – 90%, Polyester –10%) | |



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RED Micro Pocket Spring Units

RED Micro Pocket springs are separately packed, which allows them to move independently in the spring pack. Due to its compact size, but the same independent feeling as in standard pocket springs, this type is exceptionally well suited for the manufacture of soft furniture, seats, sofas, chairs and thin mattresses that are used in caravans, yachts, etc.

Choose RED Micro Pocket Spring Units and you obtain:

- A durable spring system – all pocket springs are extra heat-treated
 - Independence of every single micro coil
 - Excellent ergonomic comfort
 - Great range of spring unit sizes
 - Best price/quality combination
 - Scientifically proven healthy and ecological interior for your mattress toppers, pillows, seats and sofas.



| Specification | Product range |
|--|--|
| Pocket spring diameter Ø | 52 – 65 mm |
| Pocket spring height | 60 – 100 mm |
| Pocket spring wire diameter Ø | 1.30 – 1.80 mm 2.00 mm on request |
| Coils per m ² | 260 – 360 |
| Pocket spring unit Frame specification | 3x1.4 mm; 8x1.4 mm; 10x1.4 mm |
| | Top; Top/Bottom; Middle |
| | Available without frame |
| Pocket spring unit packaging | Roll packed (5 – 10 units in a roll) |
| Bonding | Centrally glued; on the top and bottom fleece of Nonwoven materials; or both of them |
| Nonwoven | Spun bond (PP –100%) Needle Punch (PP – 90%, Polyester –10%) |



springs
RED

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RED Standard Bonnell Springs Units

RED Standard Bonnell Spring Units are the most widely used spring interior for mattresses in the world. RED Springs manufactures a wide variety of options. All Standard Bonnell Spring Units are heat-treated under controlled conditions for better resistance and durability. This ensures that each component part of the unit - helicals as well as springs are stress-relieved and strengthened, thereby eliminating sag or set of the springs. Units can be supplied unframed fitted with a frame options, hardened and tempered flat steel strip.

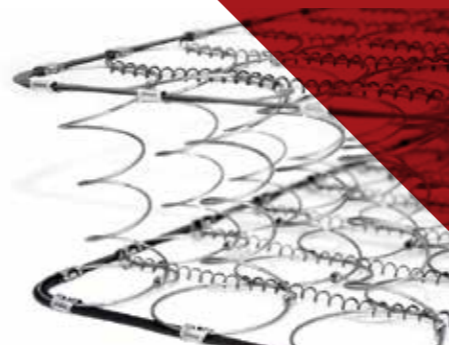
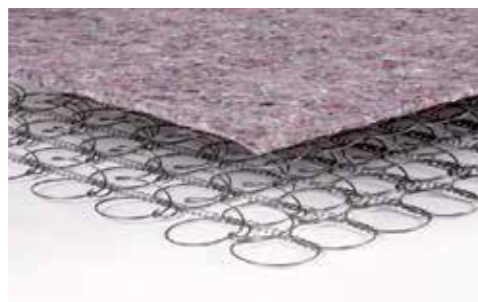
Standard Bonnell Spring Units are also available in variety of specifications for use as box springs.

Choose RED Standard Bonnell Spring Units and you obtain:

- A durable spring system
- Best price/quality combination
- The most widely used interior for mattresses
- Scientifically proven healthy and ecological interior for your bed and upholstery products

We can offer you the perfect match for your specific needs.

RED Standard Bonnell Springs Units



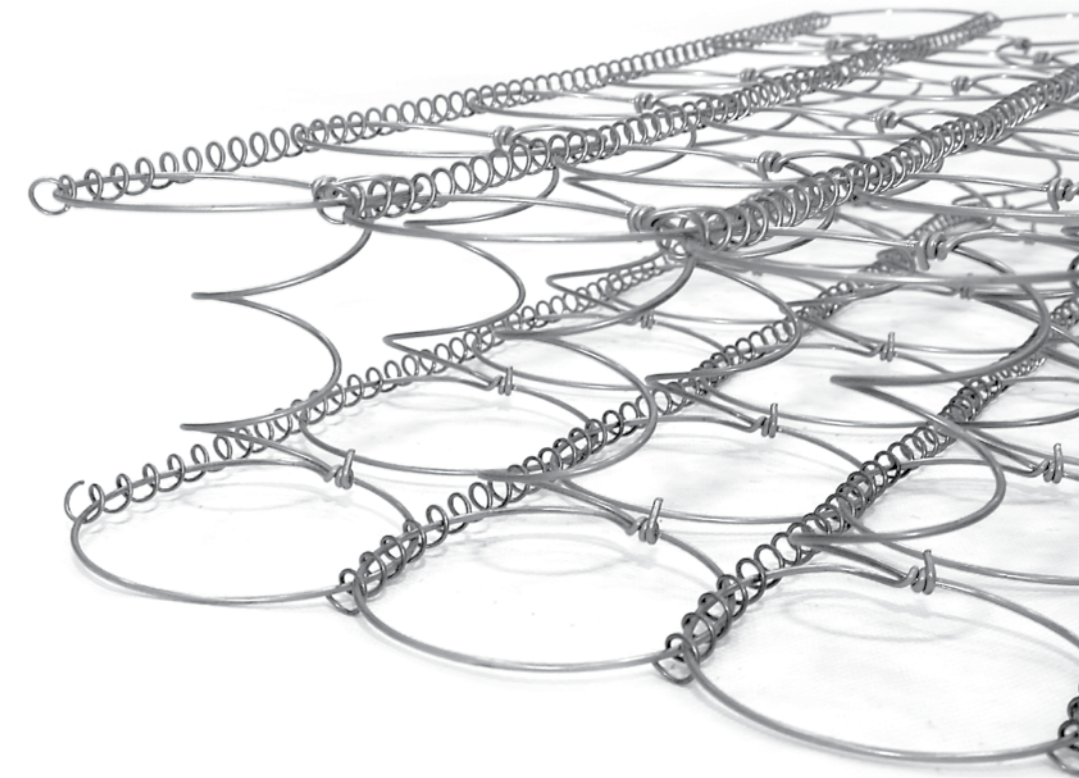
| Specification | Product range | Wire |
|--|--|--|
| Bonnell spring diameter Ø | 82 – 94 mm | 2.10 – 2.20 mm |
| Bonnell spring diameter Ø | 83 – 94 mm | 2.30 mm |
| Bonnell spring diameter Ø | 83 – 94mm | 2.40 mm |
| Bonnell spring height 4 turns | 85 – 110 mm | 2.10 mm / 2.20 mm 2.30 mm / 2.40 mm |
| Bonnell spring height 5 turns | 125 – 140 mm | 2.10 – 2.20 mm |
| Bonnell spring height 5 turns | 125 – 135 mm | 2.30 mm / 2.40 mm |
| Bonnell spring unit Frame specification | 8x1.4 mm; 10x1.4 mm | |
| | Top; Top/Bottom; Available without frame | |
| Bonnell spring unit packaging | Roll packed (5 – 10 units in a roll) | |
| Helical wire Ø | 1.30 mm | |
| Coils per m ² | 100 – 120 | |
| Felt - optional | 500 gr ² – 600 gr ² – 800 gr ² | |



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RED Low Height Bonnell Spring Units

RED Low-Height Bonnell Spring Units are innovative product developed as a result of detailed marketing studies of the demands and requirements of upholstery furniture industry. It is specially designed for soft furniture manufacturing, e.g. sofas, armchairs as well as mattresses for clic-clac extensible mechanisms, motor beds, etc.



RED Low Height Bonnell Spring Units

Choose RED Low Height Bonnell Spring Units and you obtain:

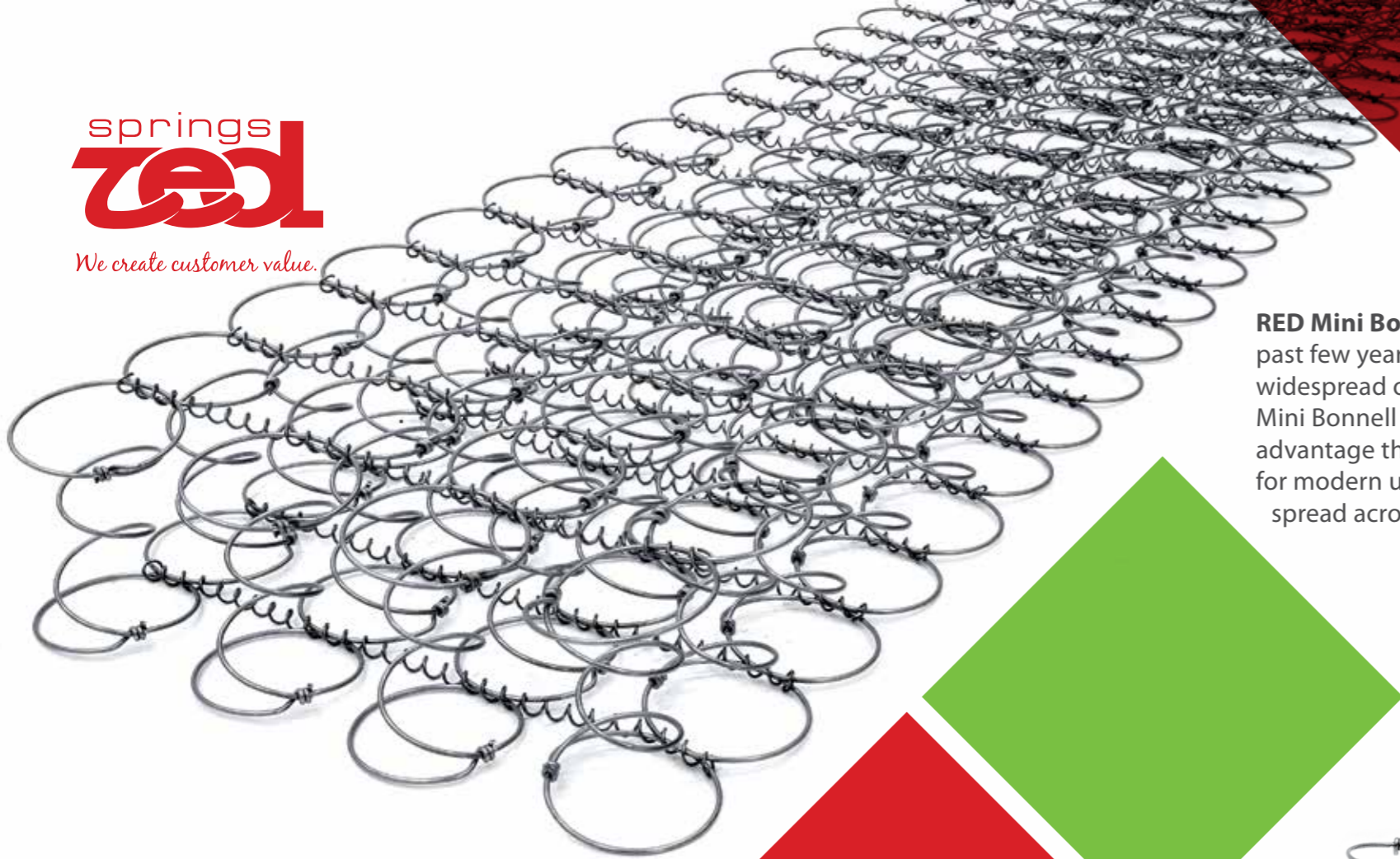
- The most innovative product especially designed for the upholstery industry
- Best price/quality combination
- A durable spring system

We can offer you the perfect match for your specific needs.

| Specification | Product range |
|---|---|
| Low Height Bonnell spring diameter Ø | 82 – 85 mm |
| Low Height Bonnell spring height 4 turns | 65 – 75 mm |
| Low Height Bonnell Spring Wire Ø | 1.90 – 2.20 mm |
| Low Height Bonnell spring unit packaging | Roll packed (5 – 10 units in a roll) |
| Helical wire Ø | 1.30 mm |
| Coils per m ² | 100 – 120 |



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RED Mini Bonnell Spring Units

RED Mini Bonnell Spring Units are mostly used in the upholstery industry. Over the past few years the company has achieved good sales of this product. The product is widespread on the market and its growth is continuing. Mini Bonnell spring units didn't stepback to the traditional bonnell spring units. The advantage they have is the compact size, which is suitable for children's beds, and also for modern upholstery furniture. Another advantage is the smaller diameter of wire, that spread across a considerably higher number of springs.



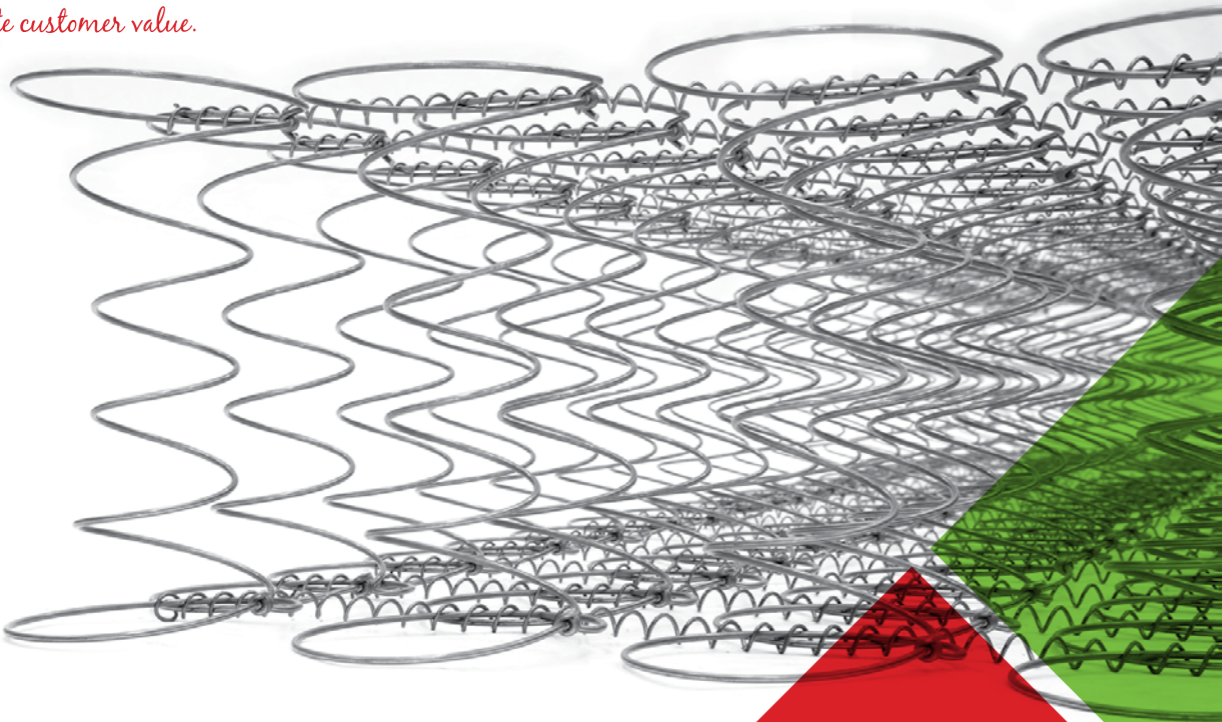
RED Mini Bonnell Spring Units

Choose strength RED Mini Bonnell Spring Units and you obtain:

- More strength and durability due to the increased number of springs per sq.m.
- Best price/quality combination
- Scientifically proven healthy and ecological interior for your bed and upholstery products

We can offer you the perfect match for your specific needs.

| Specification | Product range | Wire |
|---------------------------------------|---|--------------------|
| Mini Bonnell spring diameter Ø | 69 – 73 mm | |
| Mini Bonnell spring height 4 turns | 75 – 85 mm | 1.90 mm 2.00 mm |
| Mini Bonnell spring height 5 turns | 110 – 125 mm | 2.10 mm 2.20 mm |
| Mini Bonnell spring unit packaging | Roll packed (5 – 15 units in a roll) | |
| Helical wire Ø | 1.30 mm | |
| Coils per m ² | 120 – 180 | |
| Felt – optional | 500 gr ² – 600 gr ² – 800 gr ² | |



RED 6-Turn Bonnell Spring Units

RED 6-Turn Bonnell Spring Units are designed for mattress and soft furniture manufacture worldwide. All spring units are heat treated under controlled conditions for better resistance and durability. This ensures that each component part of the unit - helicals as well as springs are stress relieved and strengthened, thereby eliminating sag or set of the springs. RED 6-Turn Bonnell Spring Units are suitable for the production of higher mattresses and soft furniture. It adds to the feeling of comfort because initially, upon mild pressure, the springs feel soft which afterwards turns to harder.



RED 6-Turn Bonnell Spring Units

Choose RED 6-Turn Bonnell Spring Units and you obtain:

- A durable spring system
- Best price/quality combination
- The most widely used interior for mattresses
- Scientifically proven healthy and ecological interior for your bed and upholstery products

We can offer you the perfect match for your specific needs.

| RED 6-Turns Bonnell spring unit specification | Product range |
|---|---|
| 6-Turn Bonnell spring diameter Ø | 83 – 93 mm |
| 6-Turn Bonnell spring height 6turns | 145 – 150 mm 150 mm > on request |
| 6-Turn Bonnell spring wire Ø | 2.20 mm / 2.30 mm / 2.40 mm |
| 6-Turn Bonnell spring unit Frame specification | 8x1.4 mm; 10x1.4 mm |
| | Top; Top/Bottom; |
| | Available without frame |
| 6-Turn Bonnell spring unit packaging | Roll packed (5 units in a roll) |
| Helical wire Ø | 1.30 mm |
| Coils per m ² | 120 – 120 |
| Felt – optional | 500 gr ² – 600 gr ² – 800 gr ² |



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Roll – Pack

All RED innerspring units are suitably delivered in a roll package, on customer's request. All RED spring units are compressed under high pressure. After unpacking the spring units acquire their original shape and position without losing their height and elasticity.

Why choose roll-packed spring units?

- Less transport costs. The freight charges are significantly reduced.
- Less labor costs. No machine is required to unpack the rolls.
- Less warehousing costs. Roll-packed units need less space for storage. They can be unloaded without forklift truck.
 - Minimum safety risks.

We are here to help your business success.





We create customer value.

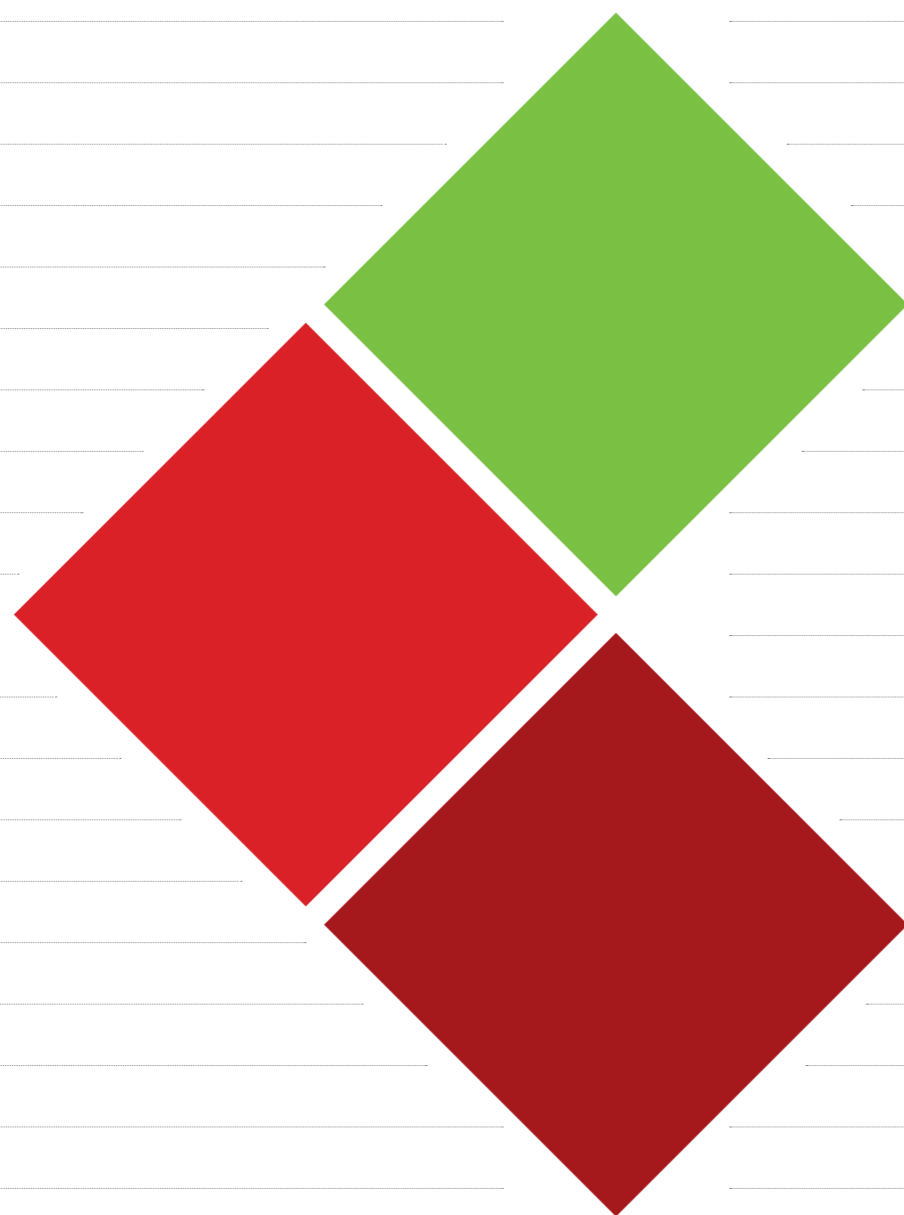


CERTIFICATES



We create customer value.

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