Infinity Sleep Support System™

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Newline Industrial Estate
Newline, Bacup, Lancashire
OL13 9RW England

T: +44 [0] 1706 878 558
F: +44 [0] 1706 878 288
E: info@infinitysleepsupportsystem.com
W: infinitysleepsupportsystem.com

Delivering comfort through design

Infinity Sleep Support System™





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Reducing costs by up to 45%

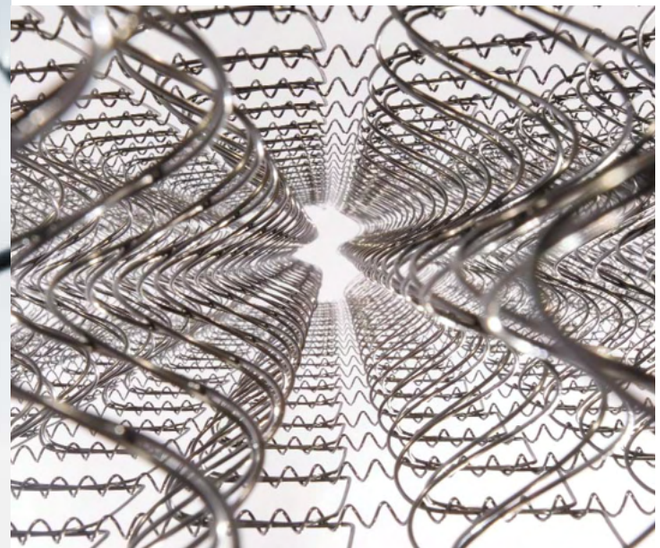
The Infinity Sleep Support System is a revolution in premium coil count spring unit manufacturing. Little surprise really, as it can offer a significant 45% reduction in unit manufacturing costs and an amazing 60% reduction on units purchased from external sources. An increasing number of manufacturers throughout the world are taking advantage of the low production costs, excellent productivity and premium spring unit options which Infinity offers.

Our unique system of Micro Gauge Wire Technology produces a remarkable Spring Unit that combines excellent durability and body conformity characteristics.

Excellent you might say, but how is the Infinity Unit produced? It's a process achieved in two stages, with production of the coil first, followed by assembly of the final unit. Simple, but effective. Both of these high quality, patented systems have been designed to offer flexible production with high levels of reliability.

See why bed manufacturers are choosing the power of the Infinity Sleep Support System:

- Material Savings in Excess of 45%
- Premium Coil Count Unit
- Increased Unit Height
- High Productivity
- Unit Zoning Options
- Excellent Point of Sale Marketing Advantages
- Niche Market Opportunities

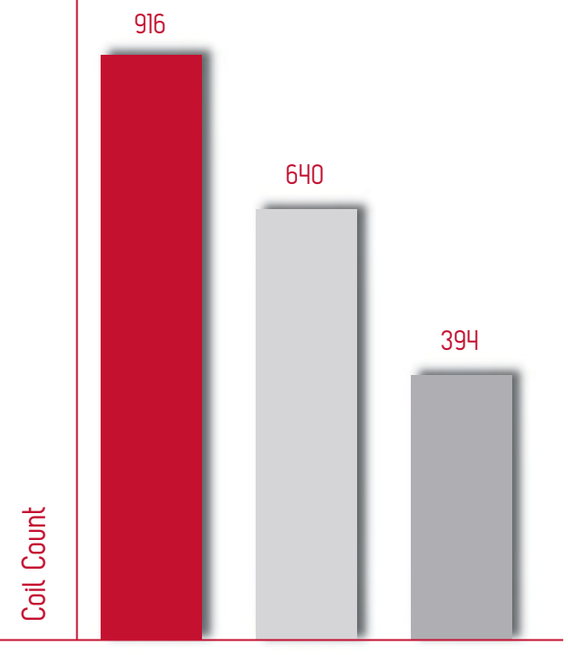


Premium technology with low cost manufacturing

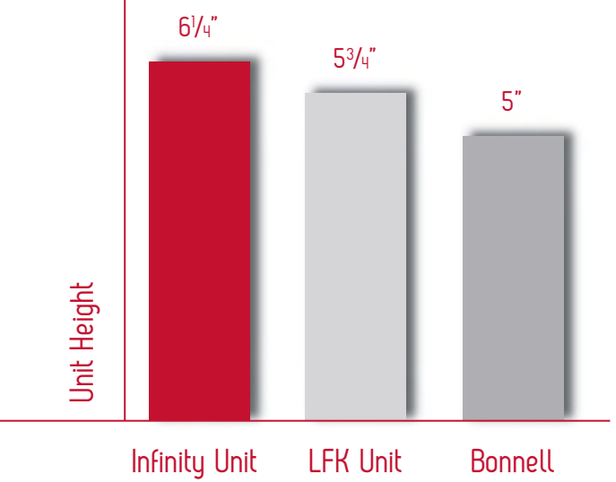
It has been widely accepted within the industry that high coil count Spring Units carry increased production costs. Not good news for the manufacturer or the consumer.

The Infinity Sleep Support System sets a new industry standard formula for premium Spring Unit production. Thanks to our Micro Gauge Wire Technology, every Infinity Unit has a high concentration of coils with a significant reduction in material content, while enhancing unit firmness and comfort.

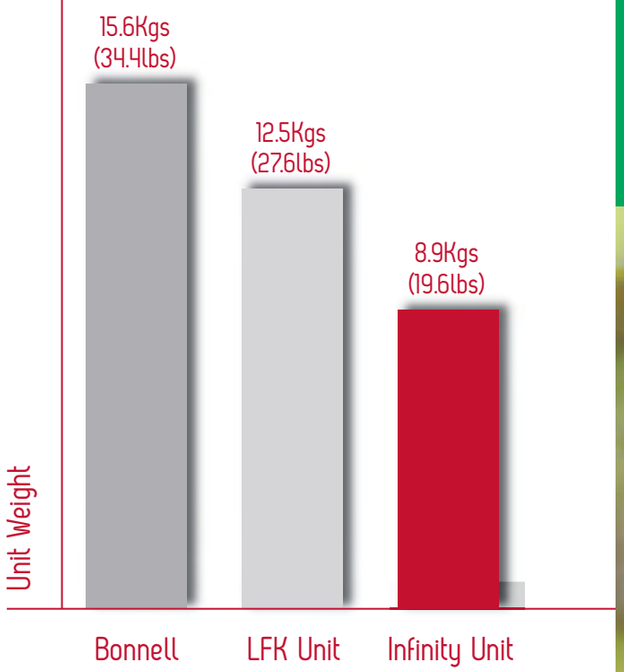
150% More Coils



25% Taller Unit



45% Saving on Materials





Helping to reduce your carbon footprint by up to 58%

The world is a precious place and the Infinity Sleep Support System is helping to preserve our planet with environmentally driven carbon efficiencies. For every ton of steel produced, the equivalent amount of CO_2 emissions are pumped into our planet's atmosphere.

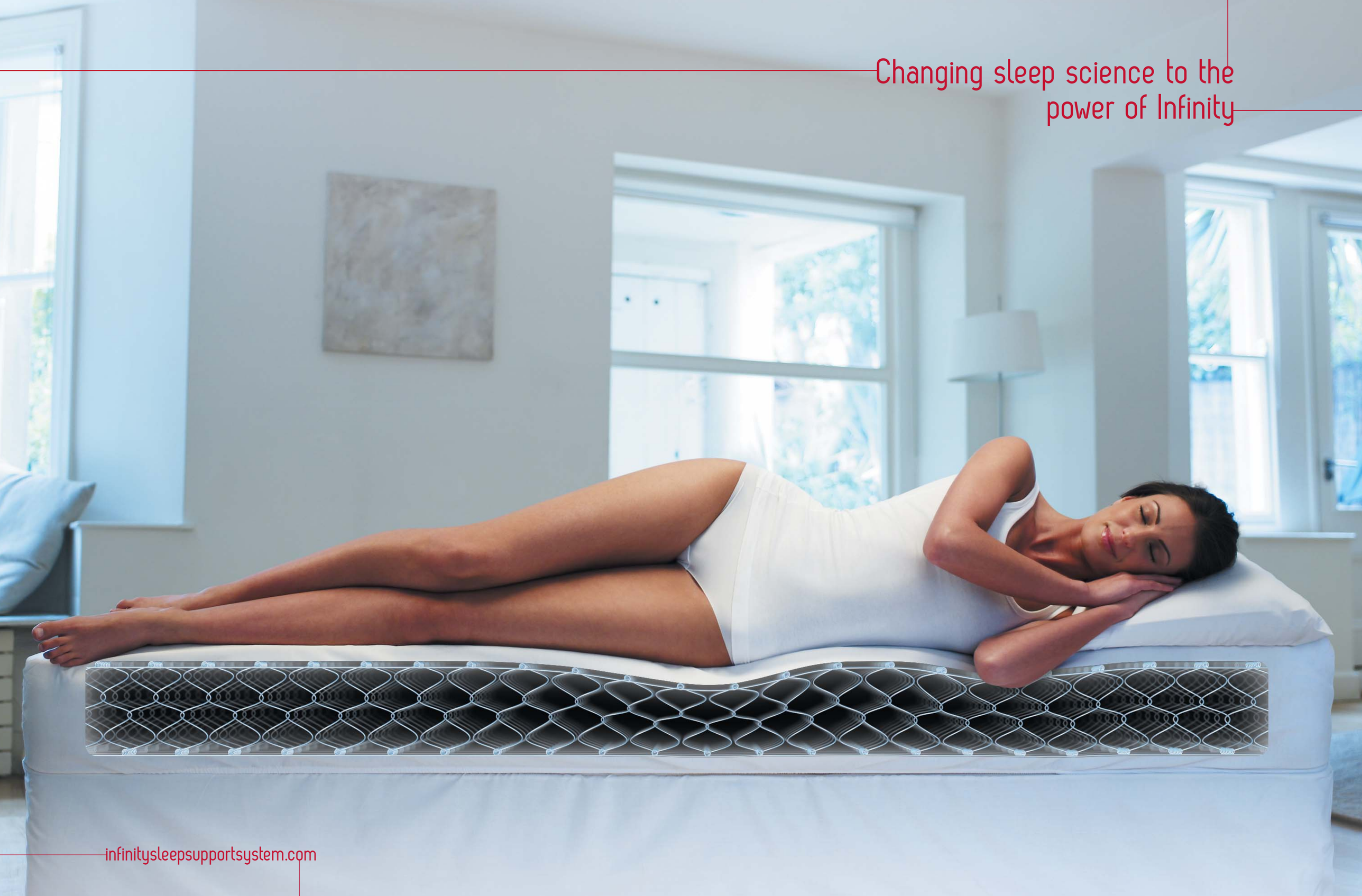
Thanks to our economical design and increased unit height, less filling is required, and with our Micro Gauge Wire Technology, it ensures that for every ton of wire purchased you increase your unit/per ton production ratio and in turn reduce your business's carbon footprint.

This reduced unit weight also means improved fuel efficiency during product distribution. These carbon efficiency savings are passed right through the wire supplier chain. Infinity really can help your business move towards a more carbon neutral business model, saving the planet while also saving your business money.



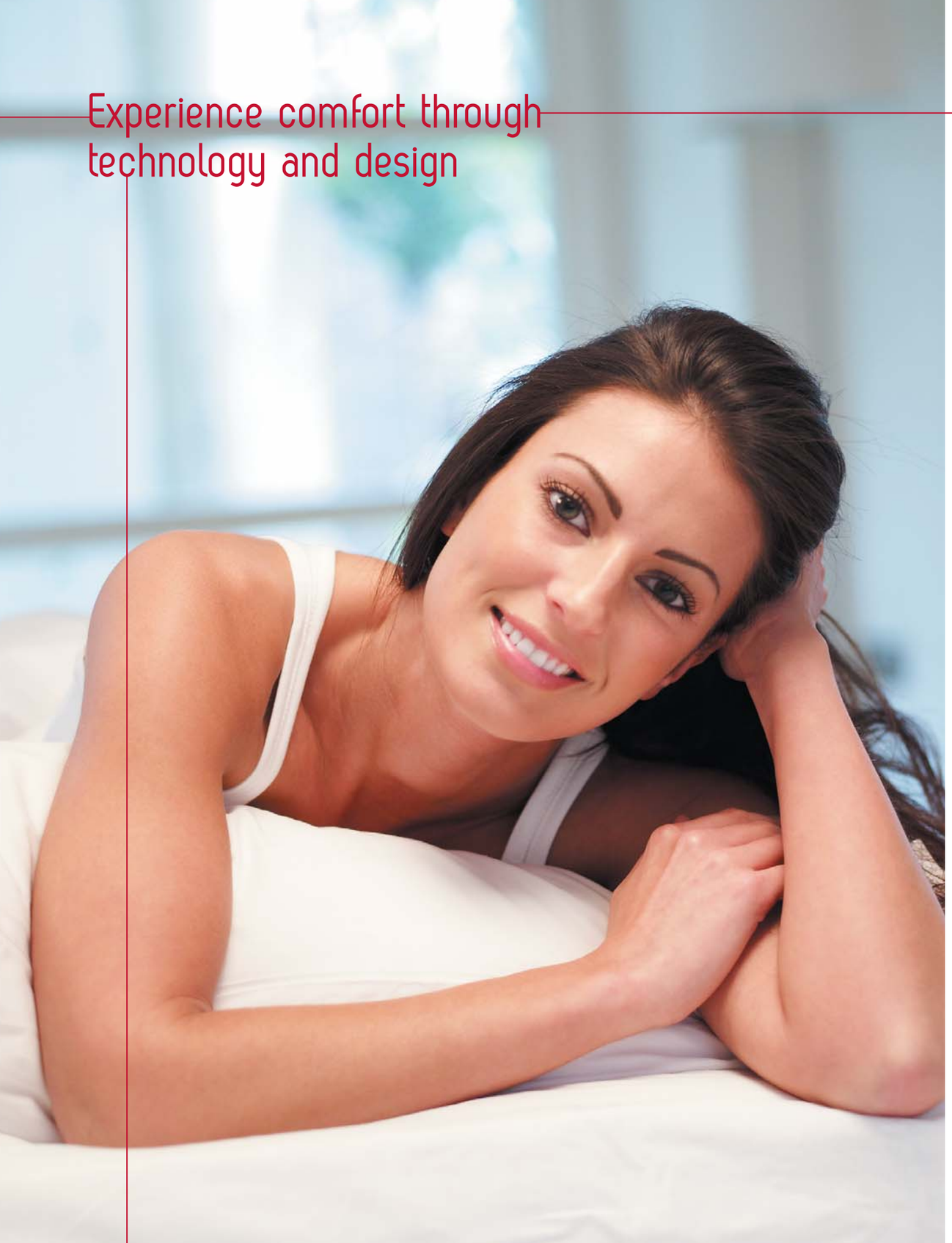


Changing sleep science to the power of Infinity

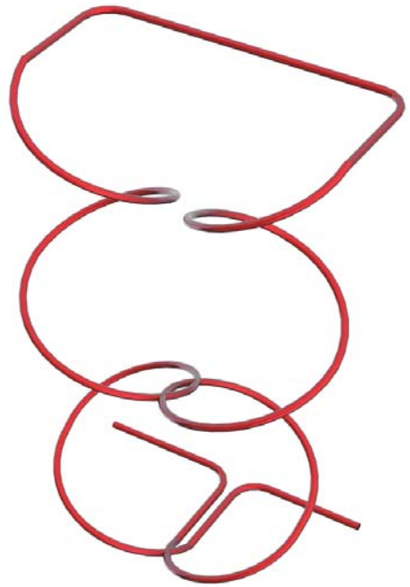


infinitysleepsupportsystem.com

Experience comfort through technology and design



Innovative design for maximum comfort



Every Infinity Spring Unit has been designed to offer you a perfect night's sleep without exception. With a complete range of zoned unit options, Infinity has taken sleep science to the next stage in Spring Unit evolution.

Infinity Micro Gauge Wire Technology allows you to create a diverse range of Spring Unit features and sleep options which are able to meet the demands from a broad range of customer requirements.

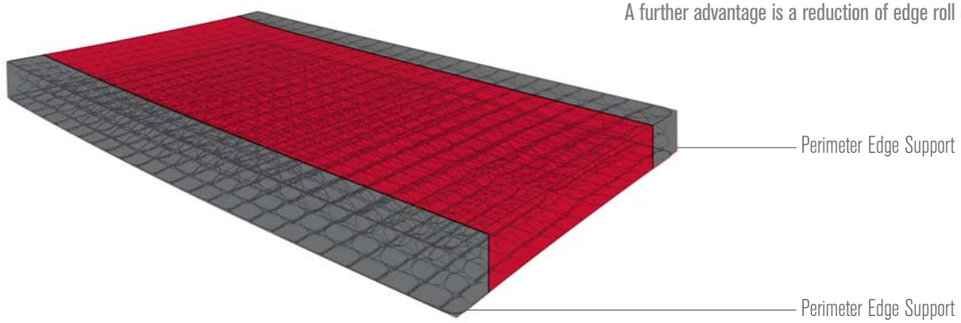
Infinity Sleep Science Features:

- Perfect Sleep Posture
- Five Firmness Levels
- Perimeter Edge Support
- Unit Zoning Options
- No Roll Together Units
- Head To Toe Helical Option

Zoning Possibilities

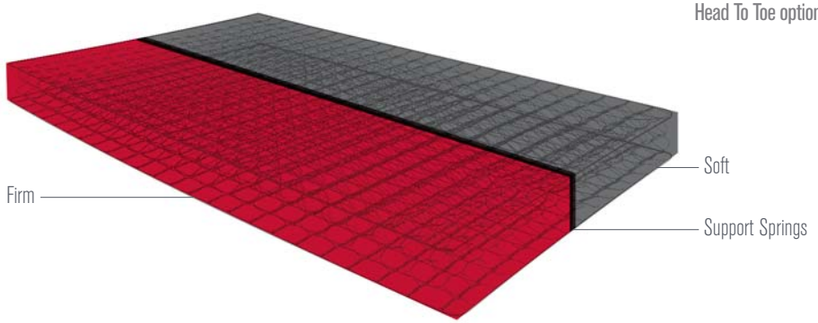
Perimeter Edge Zone

Perimeter edge support gives a firm edge feel to the mattress and helps to reduce perimeter sagging of the mattress. A further advantage is a reduction of edge roll during sleep.



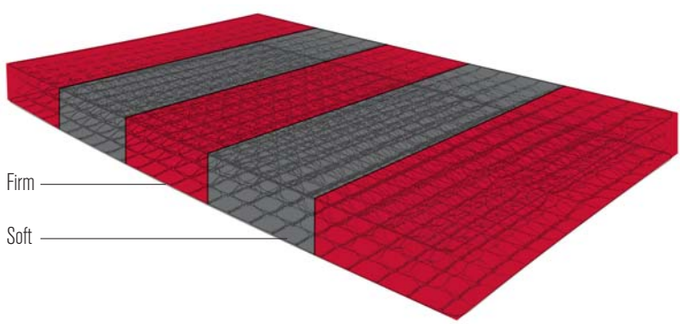
Head To Toe

The Infinity Head To Toe configuration offers two independent levels of firmness and comfort tailored to independent sleepers. Head To Toe options also avoid the need for zip and link products.



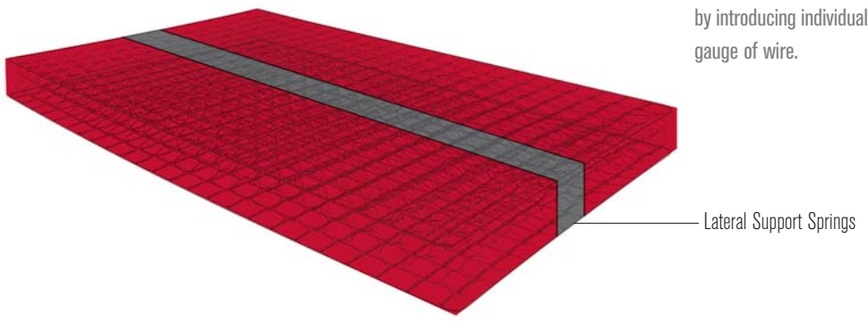
Shoulder To Shoulder

Areas of the Infinity Spring Unit are zoned to offer the correct levels of support over the length of the mattress, ensuring a perfect sleep posture is maintained. Product comfort and pressure relief is further enhanced with up to seven zoning possibilities.



No Central Roll Together

The Infinity's revolutionary Central Firm Zone is designed to avoid roll together during sleep. The central zone is achieved by introducing individual rows of springs from a slightly firmer gauge of wire.



Delivering comfort through design

Point Of Sale

Thanks to the varied Spring Unit features and sleeping options available, the Infinity Sleep Support System products offer fantastic Point of Sale opportunities for manufacturers and retailers alike. It's a revolutionary product. And we think it's well worth shouting about.



Territory Licensing



Wherever you are in the world, we want to ensure your business gets a positive edge over the competition. That's why we can offer Exclusivity Licensing. To find out more about how we can help you, simply speak to your Infinity Sleep Support Representative today.

Market Licensing

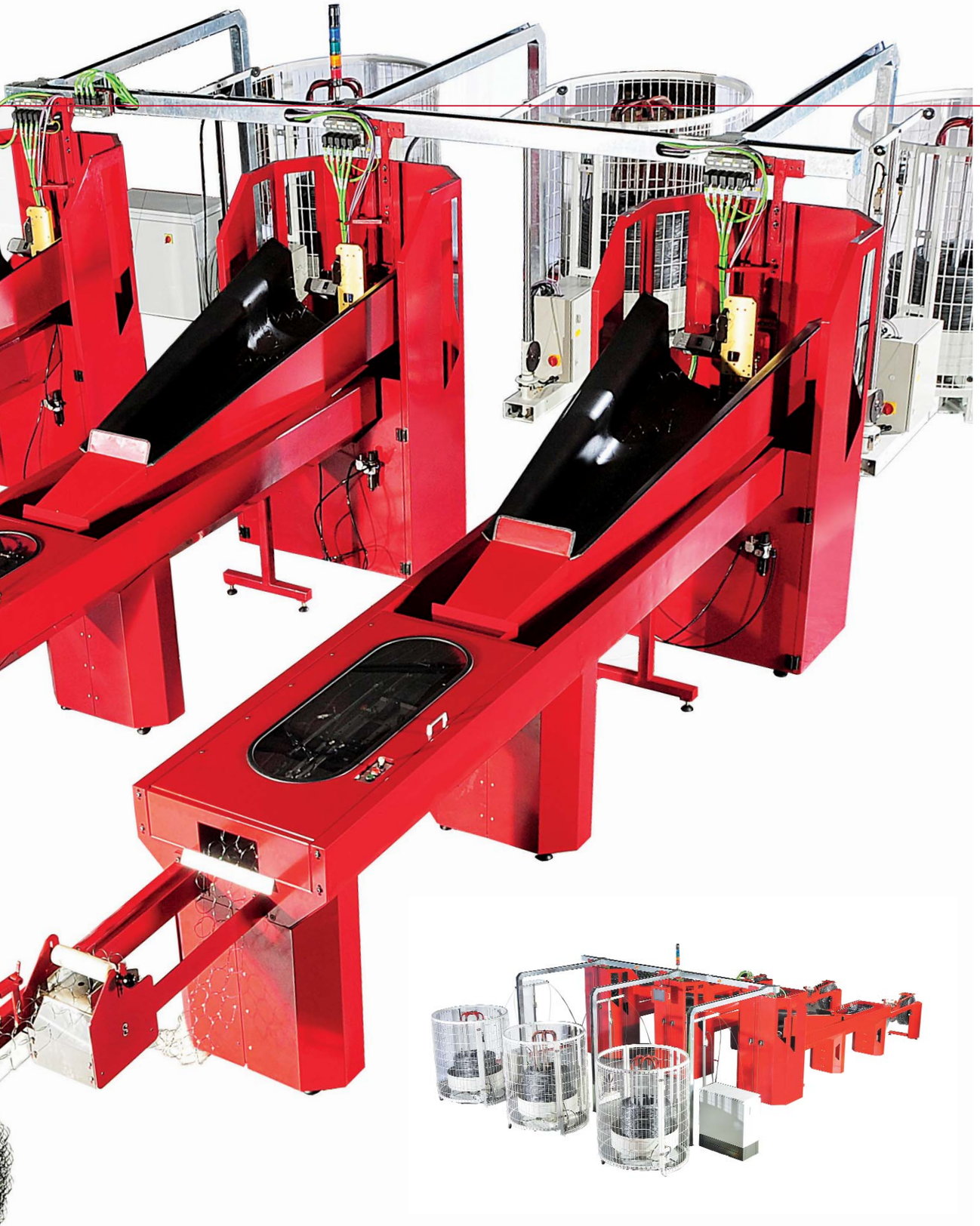
The Infinity Sleep Support System offers its very own 'off the shelf' point of sale marketing material. Whether you're a manufacturer in your own right, or you want point of sale material for your retailers to use, we can provide varied POS and website material pre-produced and ready for use on your products.

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The Infinity Sleep Support System

The Infinity manufacturing process is a two-stage operation, starting with coil production followed by unit assembly. The unit consists of individual rows of springs, made from one continuous length of micro gauge wire. Servo controls are used to produce the coils' unique shape. Once formed, the springs are interlinked with one another to form the continuous Infinity Spring.

Springs are loaded onto the rear of the Assembly system, which are interlaced with helical wire to form a complete unit. During this process, the unit is automatically measured and cut to the required length. The final process is the automated separation of the interlocked springs.



Technical specification

Infinity Coiler System Features:

- Variable Speed Servo Controlled Coil Production
- Maximum Speed 65 Coils Per Minute
- Uses Micro Gauge Wire
- Full Servo Control
- De-skilled Operation
- Minimal Maintenance Costs

Coiler Technical Data (Standard Machine):

- Wire Diameter Range: 1.40 mm to 1.80 mm
- Spring Height: 150 mm to 160mm
- Coiling Speed: 60 – 65 coils per minute

Swift Cage:

- Designed For Swifts Weights Up To 1200kgs
- Fitted With Over-Feed Sensors

Machine Voltages:

- 220v – 480 Volts 3 Phases + Neutral
- 50 – 60 Hertz

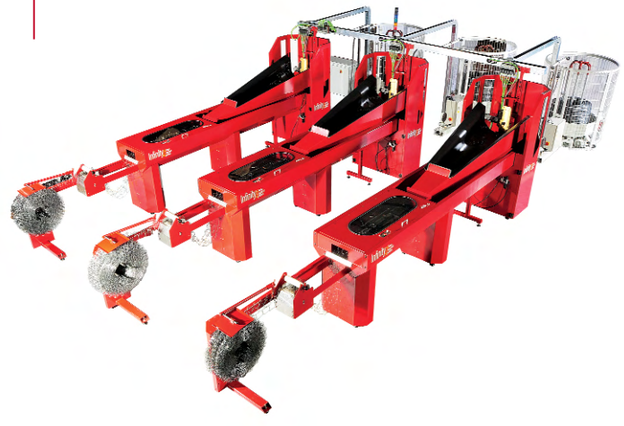
Air Requirements:

- Single Feed Per Coiler 100 psi

The Infinity Coilers

The Infinity Coilers are a revolution in spring unit manufacturing. State-of-the-art processes utilise servo control coil formation. Thanks to the coilers' innovative design, maintenance of the system and costly parts usage is reduced to an absolute minimum. No specialist operators are required - previously a major issue with Spring Unit manufacturing.

The Touch Screen Interface allows for simple adjustments to virtually every part of the spring. This means that mechanical adjustments to the system are virtually eliminated. It's also possible to store multiple spring configurations within the system memory. These can then be easily accessed at the touch of a button when required.





Coil wire diameters range from 1.40mm to 1.80mm

Technical specification

The Infinity Assembly Machine Features:

- Machine Speed 160 – 200+ Units Per 8 Hours
- Auto-Helical Insertion
- Full Cut And Clench For Left And Right Helical
- Quick changeover times between unit sizes
- Left & Right Handed Helical
- Full PLC Control With Touch Screen User Interface
- Standard Operational Width 2.1 Meters
- Unit Zoning Options As Standard

Assembler Technical Data (Standard Machine):

- Coil Wire Diameter: 1.40 mm to 1.80 mm
- Helical Wire Diameter: 1.32mm
- Spring Height: 150 mm to 160mm
- Helical Pitch: 10.88mm
- Helical Diameter: 8.32mm
- Anti-Tangle Wire In-feed Guides

Machine Voltages:

- 220v – 480 Volts 3 Phases + Neutral
- 50 – 60 Hertz

Air Requirements:

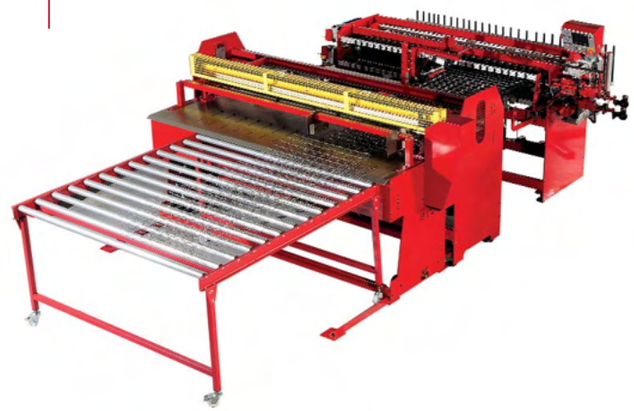
- Single Feed 100 psi

The Infinity Assembly Machine

To ensure maximum output, at minimum cost, high unit productivity is top of our list. Output of up to 200 units per single shift makes the Infinity one of the fastest assembly systems in the world today.

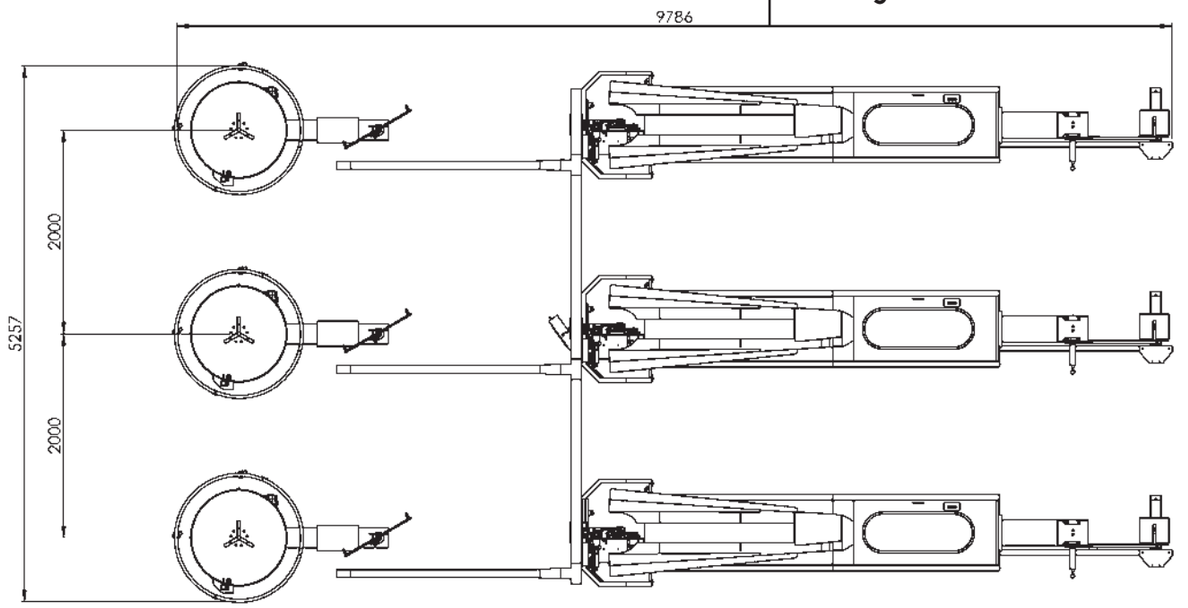
To ensure maximum productivity, the Infinity Assembler is engineered to the highest standards. This not only offers speed of production but most importantly, reliability - essential to production efficiency. High quality carbide tooling is used for helical formation.

System usability is further enhanced with our touch screen display, providing productivity data and easy adjustment of machinery operation.



Benefits to the power of Infinity

The Infinity Coilers



The Infinity Assembly Machine

