



JONAS WOODHEAD & SONS (1) LTD

Since 1963

WOODHEAD

WOODHEAD

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**Unyielding Performance,
Built to Spring Forward**

Multi-Leaf & Parabolic Springs

Since 1963, Jonas Woodhead (JW) has been the preferred partner of choice for Multi-Leaf, Parabolic and Air Suspension Springs for all types of commercial vehicles - trucks, trailers, tractors, buses and jeeps for Original Equipment Manufacturers, mining, agricultural, construction, military and various Aftermarket segments in over 35 countries.

Originally set up in collaboration with Jonas Woodhead United Kingdom, today it is a globally recognized company headquartered in Chennai, India with a distribution and sales & support network across the world. As an ISO/TS 16949 certified company, it has consistently remained at the forefront of quality, technology and efficiency, delivering safety and lasting services in almost every market place in the world.

Combining progressive design and engineering, world class manufacturing processes, supply chain functions and outstanding service support the company today produces over 10,000 part numbers for various vehicle applications in multiple sizes. In addition to manufacturing air suspension Z links for OEMs and parts trade for – U-Bolts, Centre Bolts and Bushes, Jonas Woodhead is fast emerging as the one stop shop for the automotive suspension industry.

So, if nothing but the best will do for your vehicle, look no further. With Jonas, you are always in safe hands.

JW Assurance

The right raw material quality and dimensions are just as vital for a long-lasting product as the precision of the process. JW experts follow comprehensive plans throughout the life cycle of the product to ensure that they are compliant with the best industry standards and meet all the prescribed performance benchmarks.

The Management Team

The JW management team provides supportive leadership to encourage a client-centered culture through one global network. The team comprises of industry leaders, engineers and experts who network and collaborate effectively to deliver 100% customer satisfaction.



Manufacturing Facility

The state-of-the-art machinery can produce 20,000 tons of high quality Multi-Leaf, Parabolic and Air Suspension Springs per annum. The JW manufacturing facility comes fully equipped with 100% forging capabilities, extensive heat treating and stress peening capabilities to guarantee repetitive precision and flexibility. The automated production process comprises of:

1 High precision pneumatic machines to ensure close tolerance levels

2 Our entire energy systems use natural gas fired furnaces and electric tempering to ensure reduced carbon footprints.

3 Mechanized Parabolic Rolling and Heat Treatment ensuring faster and precise quality

4 Improved fatigue strength and longer lifetime through stress peening

5 Better structural design through in-house R&D (Autocad, Solidworks & Ansys)

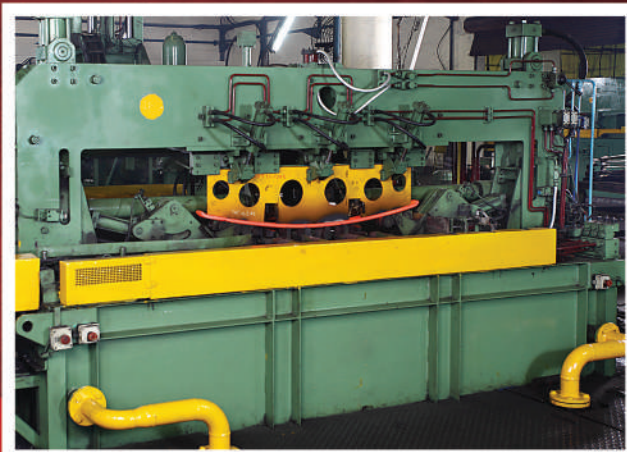
6 Reduced weight in the product leading to added value for the end user

7 Customer specific stock planning and warehousing

8 Improved corrosion protection

9 Right design & optimum hardness for a longer life

Every JW tool is a customized solution which is made to measure.



Raw Material

The grades of RM used are as per BS, JIS, SAE, DIN & IS Standards. The most commonly used grades are 55 Si7/60Si7/65Si7, SUP 9/SUP 9A / EN 45/ EN 45A/ EN 47, SAE 5160/5160H/51B60/51B60H, 50 CrV4/60 Si Cr 7/51CrMoV4 etc. Any other grades are offered based on customer requirement.

JW sources its raw material from the largest spring steel plants in the world to ensure the highest quality standards are achieved for all our customers.

Product Range	Min.	Max.
Thickness	5 mm	80 mm
Width	40 mm	160 mm
Length	100 mm	2700 mm
Eye Diameter	10 mm	85 mm
Z Bending height	10 mm	600 mm

In-house Testing

All the products at JW starting from the Raw material undergo rigorous testing to ensure uniform hardness in the desired range besides dimensional tests to make sure they are well within the prescribed tolerance levels. The finished product, after stress peening is tested for its load rate and endurance characteristics at the company's in-house fatigue testing facility.

ERP Software

Keeping on top of the various activities and processes involved in production, finance, sales, inventory, HR and distribution can be a tremendous challenge. JW works with a customized Enterprise Resource Planning software to leverage advanced features and functionalities – from sourcing and procurement, through production, inventory control, finance, sales, HR, quality testing records and delivery.

Warehousing Facility

Jonas Woodhead has six strategically located and fully integrated warehouses. Connected by the in-house multimodal logistics systems it gives you all the advantages of the instant connect with the warehouses and distribution facilities and offers an array of services:

- Inventory control
- Easy storage and handling

- Product labeling
- Order fulfillment of smaller lot sizes
- Heavy duty Assembly storage facility
- Access to the largest ports due to strategic locations
- Range of over 7,000 different types of part numbers for instant order fulfillment



JWI Quality – Defining Motion

Product Range

Multi-Leaf Springs

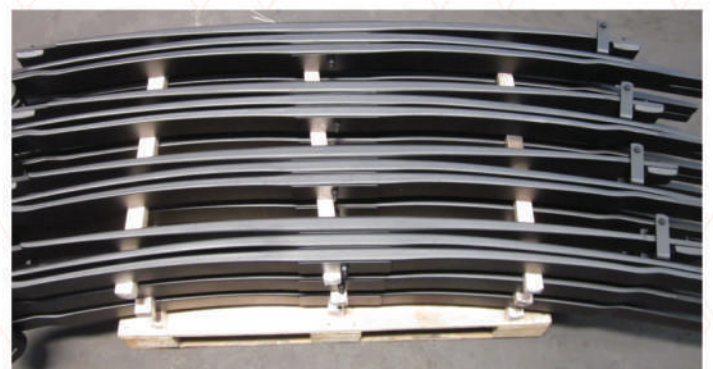
Parabolic Springs

Air suspension Springs

U-Bolts & Bushes

Multi-Leaf Springs

Since 1963, Jonas Woodhead has been manufacturing and supplying Multi-Leaf Springs for leading OEMs and After Markets across the world. With a range of thousands of types of Multi-Leaf springs, JW is equipped to manufacture any kind of spring in the world. As markets today are moving towards parabolic springs, JW has helped the customers around the world establish and expand their businesses in a cost efficient manner.



Parabolic Springs

The parabolic spring is a bestseller and is used by almost every commercial vehicle on the road. This is understandable because it has a ride-friendly design with easy assembly of springs and near perfect fitting accuracy. To the customer, this means enhanced travelling comfort and a longer life cycle. Its variable thickness leads to an even distribution of stress. Although parabolic springs are designed lighter and thinner than traditional multi-leaf springs they possess improved durability and resistance.



Air Suspension Springs

The air suspension spring came into being as a spin-off of the parabolic spring in the early 1990s. For an air suspended truck or bus for rear and front axles and trailer axles, the function of the air suspension spring is to guide the axle and stabilize the vehicle. They also support the air bag, and are thus key components of the air suspension system. The latter makes it possible to adjust the height of the vehicle and the comfort of the suspension.

Quality Policy

We were ISO/TS 16949 Certified in 2015 and we follow stringent quality control systems to meet and exceed customer needs and expectations in order to deliver cost effective products through continual improvement of processes, systems and people to establish, review and achieve the highest quality objectives.

The Quality Management System covers all key processes, including procurement of raw material, design and development, manufacturing, storage, installation and maintenance and is periodically reviewed through internal audits, inspections and management reviews.



JW & You

Jonas Woodhead values social responsibility as a priority and has a sustainability strategy focused on helping the company minimize its carbon footprint. Being awake to the environmental issues, JW is cautious in choosing the right equipment and processes with a view to reduce environmental impacts by controlling emissions, managing waste, minimizing dust and noise pollution, thus preserving resources to contribute to a more healthy community. The air pollution control system at the manufacturing facility ensures a safe working environment for all and illustrates personal accountability in business and everyday practices.

Our entire energy systems use natural gas fired furnaces and electric tempering to ensure reduced carbon footprints.



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The road ahead is as long as you make it. Make it worth the trip.

To know more about JW send an email to sales@woodheadsprings.com
You can also log on to our website www.woodheadsprings.com for more information.

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