



Short Staple & Long Staple  
Spinning Rings & Ring Travellers

Product Brochure 2019

THE POWER OF  
**NEXT**

# THE POWER OF NEXT

The X-Axis' NEXT manufacturing process combines precision engineering and top of the line technologies, leading to excellence across every quality parameter.

By all means a **step**  **up**

- Tensile strength
- Surface hardness
- Fatigue strength
- Wear resistance
- Friction reduction
- Corrosion resistance

## UNLOCKING NEXT GEN SPINNING QUALITY

Answer to major ring spinning challenges





With over 60 years of experience in spinning ring manufacturing, The X-Axis is acknowledged as the leading global supplier of spinning rings and ring travellers from India. The sheer dependence of Ring Spinning machine on Spinning Rings and Ring Travellers makes them the most influencing components for spinning machine's productivity. The Rings & Travellers by The X-Axis are an extraction of companies indigenous strength, which comes from company's immense global market experience. The X-Axis follows the best International standards of manufacturing.



The X-Axis has varied product range to meet every kind of Ring Spinning requirement.

..... The X-Axis range of Spinning rings & Ring travellers .....

**Spinning Rings**

**XL-R**

**XL-C**

**"Xtensa"**  
Universal Spinning Rings

**XGEN** RINGS

Special Size Rings

**XL-N**  
Conical Rings

**Ring Travellers**

**XL-RS**

**XL-CS**

**XENDOW RS**

**XENDOW CS**

**XGEN RS**

**XGEN CS**

J Traveller of Steel

**Xoptimax**

Specialised Spinning Rings & Ring Travellers

**Specialised Rings**

40, 42 and 45 mm dia rings

Big Dia And Multi Groove Ring

Conversion Of Ring From Conical To Flange

Enlarged Type Rings

Increased Height Rings

Metal Plate Adaptor And Cir-clip Development

Reduced Type Rings

Reversible Rings

Special 1.5 Flange Ring





# flanged rings

New Generation Spinning Rings  
for New Generation of Spinning Machines.

## XL-R

Option of  
Bright Finish and Black Finish

- The X-axis most economical regular finish rings.
- Preferred for coarser yarn spinning.
- Used for economical and rugged fabrics for relative applications.

**Economical.  
Ideal for  
20<sup>s</sup> to 40<sup>s</sup>**



## XL-C

Specially Coated Rings

Widely accepted by spinners  
across the globe

**Sizes of rings available in all finishes:**

Adapter Fitting -

Inside Ring Dia x Fitting Dia in mm -

36 x 47	40 x 47	42 x 54
38 x 47	40 x 51	45 x 54
38 x 51	42 x 51	

Spring Fitting -

Inside Ring Dia x Fitting Dia in mm -

36 x 45	42 x 49	42 x 50.8
38 x 45	45 x 52	45 x 50.8
40 x 47	40 x 50.8	45 x 54

Custom sizes also available.



**Get more value rings**

## “Xtensa” Universal Spinning Rings

### Specially Super Coated Rings

#### Universal Spinning Rings

Xtensa is preferred for any single flanged ring for comfortable running of traveller for the highest possible speed. It is engineered to operate at speeds upto 25,000 RPM. It has given satisfactory results to all spinners who have tried and operated it at the highest speed practised in recent times i.e. of 23,500 RPM.

In the trials conducted at various mill-floors at different places, Xtensa has performed withstanding all the forces.

For Finer Counts Ne 45<sup>s</sup> and above with preferred ring dia 36 and 38 mm, at 22,000 RPM (+) under normal spinning conditions.

For Coarser counts i.e. Below Ne 25<sup>s</sup> with preferred ring dia 40 mm, achieved spindle speed seldom higher as 18,500 RPM.



**One Ring for  
all counts of  
man-made or natural  
capable to spin  
@25,000 RPM**

#### Benefits of flanged rings by The X-Axis

- Reduces yarn hairiness
- Reduces End breakages
- Optimises production & quality
- Long working life

## XGEN RINGS

One of the most advanced range of spinning Rings.

Spin Super fine or coarse, it gives the best end results. It performs to utmost Output, Consistency and Longevity. It seconds, to none and performs better than most in the open market.

It is manufactured with the latest technology and has the most advanced finish and outer surface to withstand toughest wear and tear.



**A perfect blend of new-age technology and optimum metallurgy.**

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## SPECIAL SIZES RINGS

The X-axis specialises in manufacturing wide range of Special Size Rings.

Custom made as per requirement to suit the Spinners' need.

**The most advanced and wide range of Rings to suit all spinning needs.**



**Performing successfully at many spinning units with impressive results.**

- It is extremely fine tuned. Designed for both cotton as well synthetics.
- Specific coating composition leads to long life wear resistance.
- Basic raw material & process is in such a controlled way to meet out excellent constant parameters within range.
- Fully tested & practical trial taken in reputed spinning units.

**Gain in every parameter**

Life | Production | ROR | Speed  
 Hairiness & IPI | Traveller change frequency  
 Power Consumption

**Special Range:**  
**Vertical Ring  
 Multigroove Ring  
 Ring Dia upto 150 mm**



**Output**



Today's' Spinners demand Output, that outruns in quantity and quality. An output that is measured by reduction in imperfections and visible in net gains, in value of the Yarn.

**Consistency**



Outperforms even while operating at high speed and reduces imperfections drastically. It helps to build even Cop with smooth, strong and even yarn, Cop after Cop.

**Longevity**



Performs efficiently throughout its life and helps in producing continuous, quality yarn with least end breakage; there by increasing efficiency of Spinning, Weaving, Knitting, Dying and Finishing Machine.



# flanged ring travellers

## XL-RS

The X-axis, XL-RS travellers has been specially developed for high performances. The enrichment components are present throughout the entire traveller section and do generate their effect even when the surface is affected.

XL-RS can be used for the ring running-in, normal operation and covers the entire fibre and yarn count range.



## XL-CS

The X-axis, XL-CS travellers has a special coating and is applied with a special process. It lowers friction values in the yarn passage and prevents fibre damages.

XL-CS offers optimum resistance to corrosion.

### Increased Productivity



## ~~X~~ENDOW

The X-axis Xendow Travellers offers lowest friction value reducing Yarn breakages. Special coating gives longer life than regular travellers in conventional spinning and compact spinning.

Available in RS and CS finish.



~~X~~ENDOW RS



~~X~~ENDOW CS

# New Generation Yarn Spinning



## XGEN TRAVELLERS

The X-axis Xgen Travellers have fine and uniform micro structure, practically no friction surface treatment. Improved wear resistance, offers excellent longest life and Best Quality.

Available in RS and CS finish.

One of the most advanced range of Travellers; it offers largest number of Travellers suited for any type and on any make of machine in the world.

Xgen Travellers spins, Super fine or the coarse. It give the best end results. It performs to utmost Output, Consistency and Longevity. It seconds to none and performs much better than many in the open market.

It is manufactured with the latest technology and has the most advanced finish and metallurgy to withstand toughest wear and tear.

Performing efficiently at spinning units all across and spinners are enjoying impressive results.

The technology and top of the line metallurgy is perfectly blended.

### **Better Output**

Reduced Yarn Breakages

### **Better Consistency**

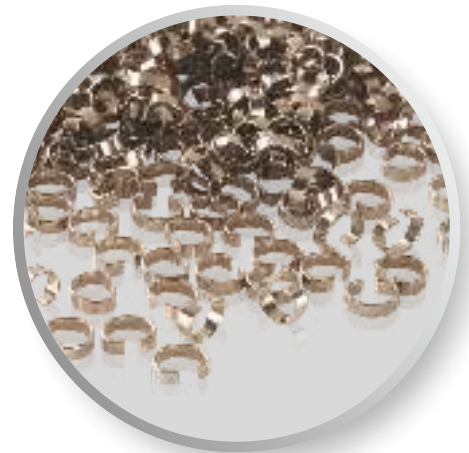
Operates Optimum Speed

### **Better Longevity**

Long Life



XGEN RS



XGEN CS

# conical rings

Threaded Rings for Wool, Acrylic, Worsted and Semi-worsted

**XL-N**



The Conical Rings are mainly used for Acrylic, Wool, Worsted and Semi-worsted materials. Standard Conical Rings are available in different Ring heights like, 9.1 mm, 11.1 mm and 17.4 mm with various lubricating systems.

The Ring can have several pairs of lubrication points like 2x2, 3x3 and 4x4 depending on the ring size and count spun.

The Conical Ring gives excellent Ring and Traveller contact area and allows the Traveller to move freely up and down

## J Travellers of Steel

Available in finish:  
XL-CS, XL-RS, XL-PS

### Traveller Designations

The designation of X-axis J Travellers are based on international standards.

J 9.1 r Standard No. 28 / ISO No. 40 XLCS  
J 11.1 r Standard No. 24 / ISO No. 90 XLRS



### Explanation

Traveller Shape	Ring Height	Wire Profile	Traveller Type	Material	Traveller No.	ISO No.	Traveller Finish
J	9.1	r	Standard	Steel	28	40	XLCS
J	11.1	r	Standard	Steel	24	90	XLRS



Introducing  
**X Optimax**

Specialised Spinning Rings & Ring Travellers

**The TRIPLE 'O' Advantage**



**Optimised Contact Area**

Reduces friction and influences the life and consistency of the Spinning Ring

**Optimised Energy Utilisation**

Consistency of performance throughout the lifespan optimises energy consumption of the spinner.

**Optimised Yield**

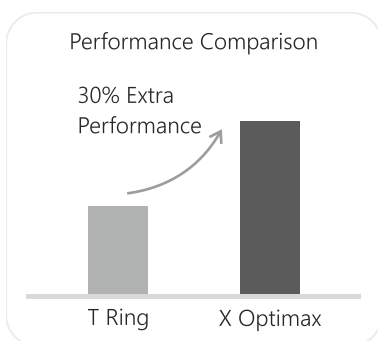
Savings on both the key inputs viz. Ring Travellers and Man Power

**Maximise Profits with Triple 'O'**

Increase Profit through optimising the Ring Traveller Life Cycle. Along with Long life of Ring & Traveller, consistency of performance adds value to the spinners returns.



**Optimax Rings**



**Optimax Ring Travellers**

Most efficient Travellers

- Increased Life
- Optimum Consumption
- Improved Production Gain

100% Improvisation



**X-Optimax Rings and Ring Travellers are suitable for**

- All types of Yarns and Material viz. Cotton (combed & not compact), PC blends, 100% polyester, Lycra blends (for Cotton- lycra, Poly -lycra) & all MMF.
- Count range : 12 to 60's Ne and also possible coarser and finer yarns.
- Ring frame machines by : RIETER, LMW, KTTM and ZINSER
- Maximum advantage in Lycra Blends and Synthetic Yarn process.
- Available in all sizes and can be customised as per customer need.

**Delight Your  
Customer with  
Best Quality  
Yarn**

# Specialised Rings

Range of value added rings

## Ring Diameter 40, 42 and 45 mm

Profit Making Rings

### Rings Size

40 x 51 x 8  
40 x 54 x 8  
42 x 51 x 8  
42 x 54 x 8  
45 x 54 x 8  
40 x 50.8 x 19

Ideal for spinning high value fibres like  
Lycra, Bamboo, Jute, Linen, Silk, Tencel etc



## Big Dia And Multi Groove Ring

### Rings Size

48 x 57 x 19  
50.8 x 60.3 x 18  
54 x 60.3 x 18  
60.3 x 72.8 x 19  
63.5 x 72.8 x 19  
65 x 72 x 18  
70 x 78 x 19  
75 x 83 x 19  
80 x 90 x 19  
75 x 82.2 x 11.1-83  
90 x 101 x 17.4



## Conversion Of Ring From Conical To Flange

Gives spinner the freedom to switch to  
conical rings from flange, at any point, easily.



**New perspective Optimised Spinning**



## Enlarged Type Rings

Spinners need flexibility to alter their output based upon market needs. The X-Axis provides this by making rings with enlarged diameter. Meaning that spinner can make use of the existing condition and yet spin the yarn they desire. This has resulted in huge savings for spinners who have utilised customised spinning rings from The X-Axis.

### Rings Size

40 x 47 x 8  
45 x 51 x 10  
48 x 54 x 10  
48 x 54 x 18  
45 x 50.8 x 19  
52 x 57 x 19



## Increased Height Rings

This is a new development to eliminate fly accumulation between ring metal plate and ring rail. The height of the ring is increased from 10 to 17mm below ring rail to avoid fly deposition between ring rail and metal plate. This helps in preventing yarn breaks caused due to reduced air turbulence towards ring and ring rail. This development results in a marked reduction in breakages and also increases the spindle speed.

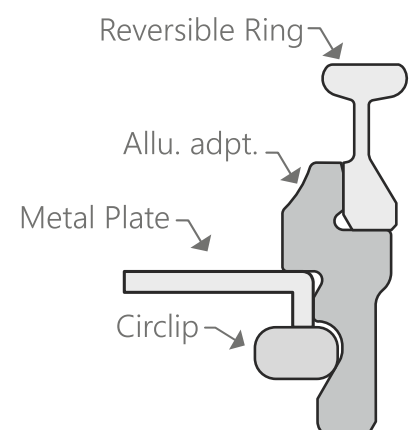
Original ring with Al die casted inside press fitting and converted in metal plate adaptor for Zinser model ring frame.



## Metal Plate Adaptor And Cir-clip Development

This ring has two types of combination. The ring that was made for the oldest model of Texmaco r/f, is modified by adding metal plate, an aluminium thing plate on upside and a cir-clip inside. This type of ring eliminates the need for a complete assembly, which is too heavy. The X-Axis rings are produced in three parts with precision fittings.

Ring Size : 45 x 54 x 18 mm, 2FL, NR, XLC, Circlip fitting type ring along with metal plate and ring with circlip suitable for very old ring frame. Successfully supplied very odd type of customised fittings.



## Reduced type Rings

A successful transition has been achieved to manufacture reduced ring diameter from a standard size ring. Reduced type rings by The X-Axis are performing well and delivering on dual parameters of speed and quality. Plus spinners enjoy flexibility of shifting yarn type without any hassles to change fitting accessories, this is a big savings for any spinner.

### Rings Size

30 x 47 x 8	36 x 54 x 8
32 x 47 x 8	38 x 54 x 8
34 x 47 x 8	42 x 57 x 10
36 x 51 x 8	45 x 57 x 10



## Reversible Rings

Spinners using slow speed equipment hugely benefit from Reversible rings by utilising rings on its reverse side. A spinner can use rings on both sides and enjoy same quality on either side, effectively saving upto 50% on costs.

### Rings Size

59 x 65 x 9
51 x 57.5 x 9.5
57.2 x 63.7 x 10.5
76.4 x 84.5 x 11



## 1.5 Flange Rings

The X-Axis has developed 1.5 (3.6mm) Flanged ring benefiting spinners to gain optimum clearance and contact area. With special 1.5 flanged ring life as well as speed and traveller performance increases. The benefit is leveraged maximum in coarse count denim and recycle fibre processes.

### Rings Size

40 x 54
42 x 54
45 x 45
45 x 53
48 x 57



# Better

— OCL —  
OUTPUT CONSISTENCY LONGEVITY

- Best in class metallurgy
- Gain in Speed
- Indepth R & D
- Gain in Life
- Gain in ROR
- Gain in Production
- Energy Efficient
- Improved Traveller Life

*Utmost Output, Consistency  
and Longevity*

the power of **NEXT**

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Please send ring and or traveller sample for any new enquiry or order and for repeat orders, previous invoice number.

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How does a spinner generate desired fineness in yarn without replacing spinning machine?

How to spin at high speeds and yet have reduced yarn hairiness?

How to control effects on twist variation during manufacturing of yarn ?

How to optimise CV of yarn count during the ring spinning process?

The answer is **NEXT**



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