MEC GROWTHS
TEXMACH PVT LTD


# MEC Short Stretch KIT

Since : 1984

## MEC Short Stretch KIT in Ring spinning :

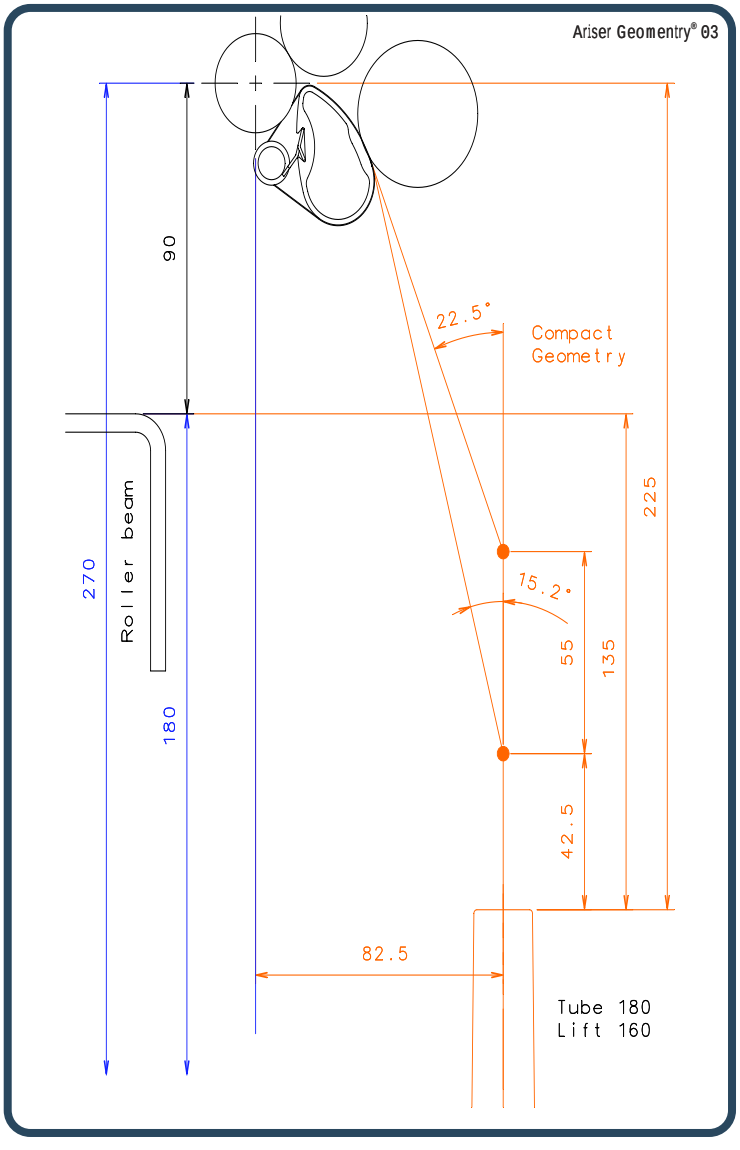
MEC
Short Stretch
KIT

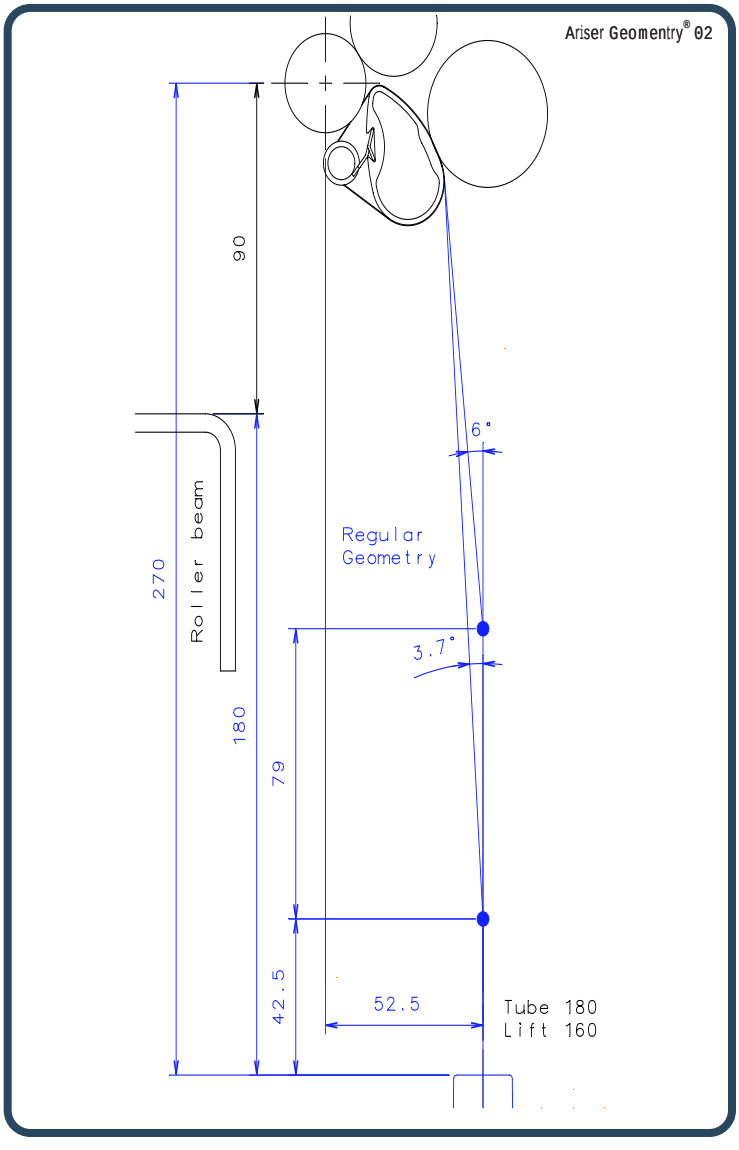
Spinning Geometry :
The ring spinning technology will continue to be the most widely used spinning process in short staple spinning. The spinning geometry is a critical aspect in the spinning process of staple yarn. Especially for Compact spinning, when and with the additional parts are included, the optimization of spinning geometry plays a vital role in getting very good performance in spinning.

The spinning geometry influences the,

l) Distribution of fibre tension in the spinning angle
ii) Twist insertion rate in the yarn
iii) Binding-in of fibres
iv) The properties of spun yarns
v) Tension in yarn and the performance of the machine.
vi) Spinning end breaks and Yarn parameters

The spinning geometry represents the dimensions between the elements of the ring spinning machine which are comes in the path of yarn formation and also the inclinations of elements as well as inclination of the yarn with the machine.




**SHORT STRETCHED SPINNING GEOMETRY**

**IRREGULAR SPINNING GEOMETRY**

## Short Stretched Spinning Geometry :

The reduction in stretch length and higher spinning angle in ring spinning results into higher-spindle speed due to better twist propagation and stable ballooning with reduced yarn breakage.

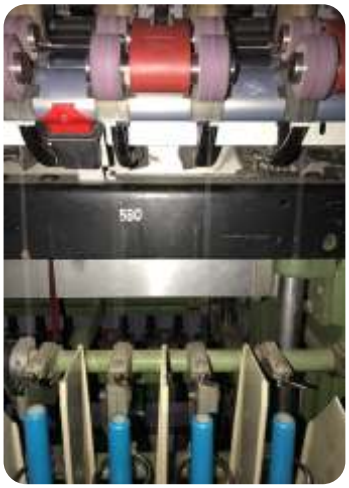
The diagram A) and B) clearly illustrates the clear difference in ballooning between optimized spinning geometry and Irregular spinning geometry.

### A).Short Stretched Spinning Geometry

Spindle to Spindle centre – 680 mm
Angle – 14.40 deg (pig tail rest) (Compact)
IG+IB+ spindle WH – 494 mm


### B).Irregular Spinning Geometry

S-S – 620 mm
Angle – 6.37 deg (Pig tail rest) (Compact)
IG+IB+Spindle WH- 539 mm




## The Inclination of Drafting Arrangement:

The angle of inclination of drafting arrangement is one factor which determines the height of the spinning triangle. The inclination of drafting arrangement is with respect to the horizontal line of the machine. If the drafting arrangement is mounted with a relatively low inclination, the angle of the wrap of the fibre strand over curvature of the front bottom drafting roller is large; this will give a long spinning angle, with its associated advantages and disadvantages With a steeper inclination and large angle (α2), the deflection angle £2 is small and the spinning triangle is short. The inclination of the drafting arrangement in modern ring spinning machines now lies between 45° and 37 deg.

## Features & Benefits of MEC Short Stretch Kit

- The short stretch modifications with increased spinning triangle is gaining momentum right now in the spinning industry especially for compact spinning machines,
- The significant Reduction in spinning breaks **30%** to **50%**
- The Superfine counts have been manifested reduced thin places.
- Tension conditions, Binding-in of the fibres, Number of End Breakages, Yarn Hairiness, Yarn Irregularity, and Generation of Fly have been also improved significantly.
- Up to 10% more production can be achieved due to reduced spinning breaks and thereby increased spindle speed.
- Our MEC short stretch kit suitable for all counts and all spindle and tube length.
- **Payback - Less than 6 months**
- Reduced spinning breaks and thin places influences the improvement in down stream processes like warping and weaving.
- Considerable improvement in restarting breaks noticed during the studies as reported by the customers
- Easy mending of spinning breaks
- Our MEC Short stretch kit available for all Models of LMW machines.
  - LR G5/1
  - LR 6/S
  - LR 60/A
  - LR 9 Ax

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