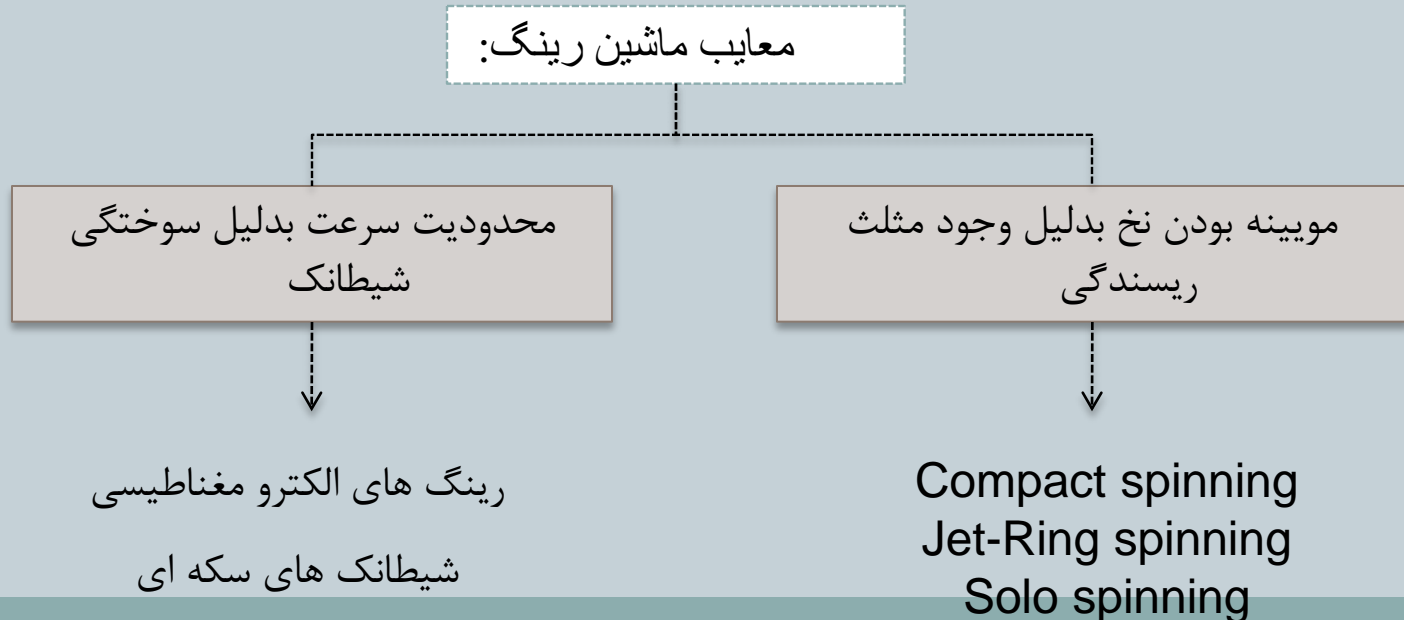


# اصلاحات روی ماشین رینگ

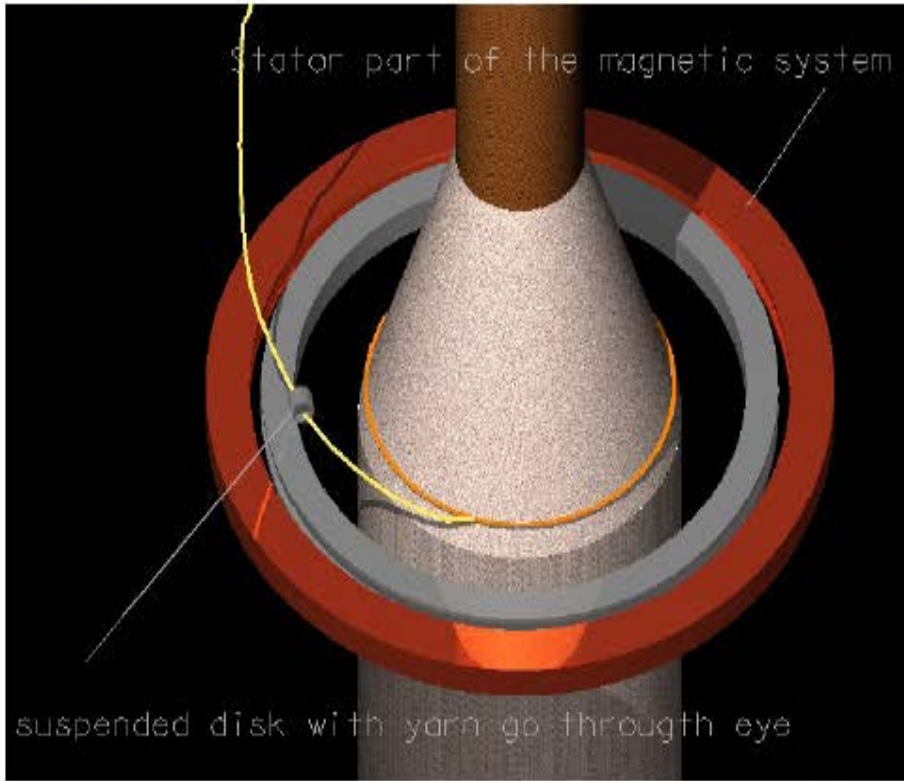


مزایای ماشین رینگ:

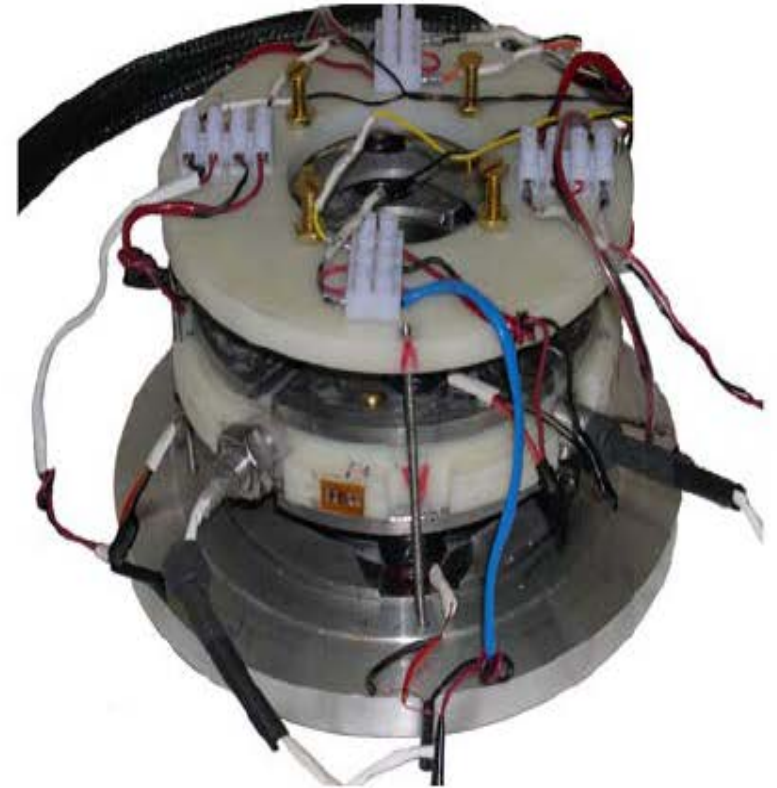
- 1) محدوده وسیعی از نخها و نمره های مختلف بر روی رینگ قابل رسیدن است.
- 2) به دلیل آرایش یافتگی الیاف در راستای محور نخ، نخهای رینگ دارای استحکام و یکنواختی خوبی است.



# رینگ الکترومغناطیسی

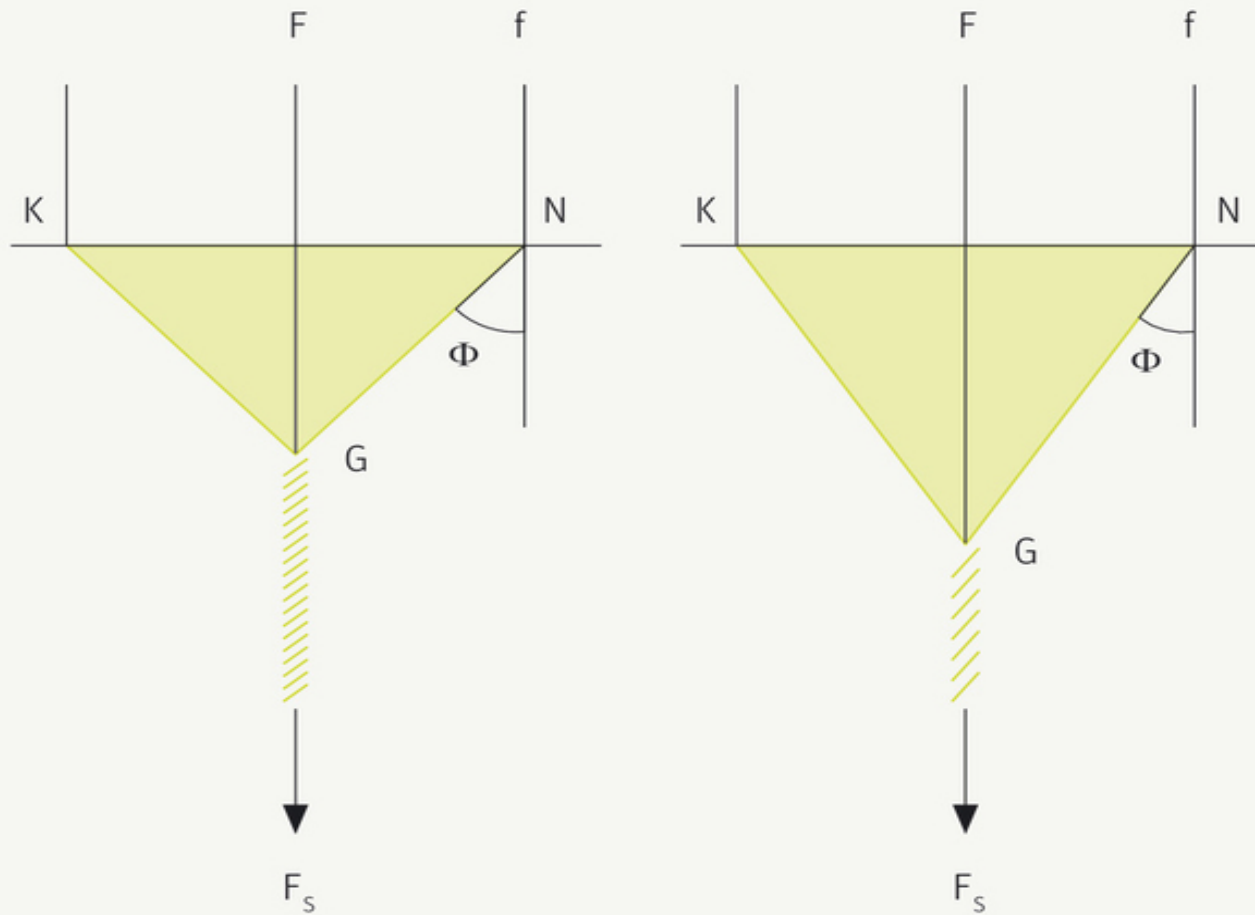


**Close View of Magnetically Suspended Spinning Ring**



**Control System Prototype**

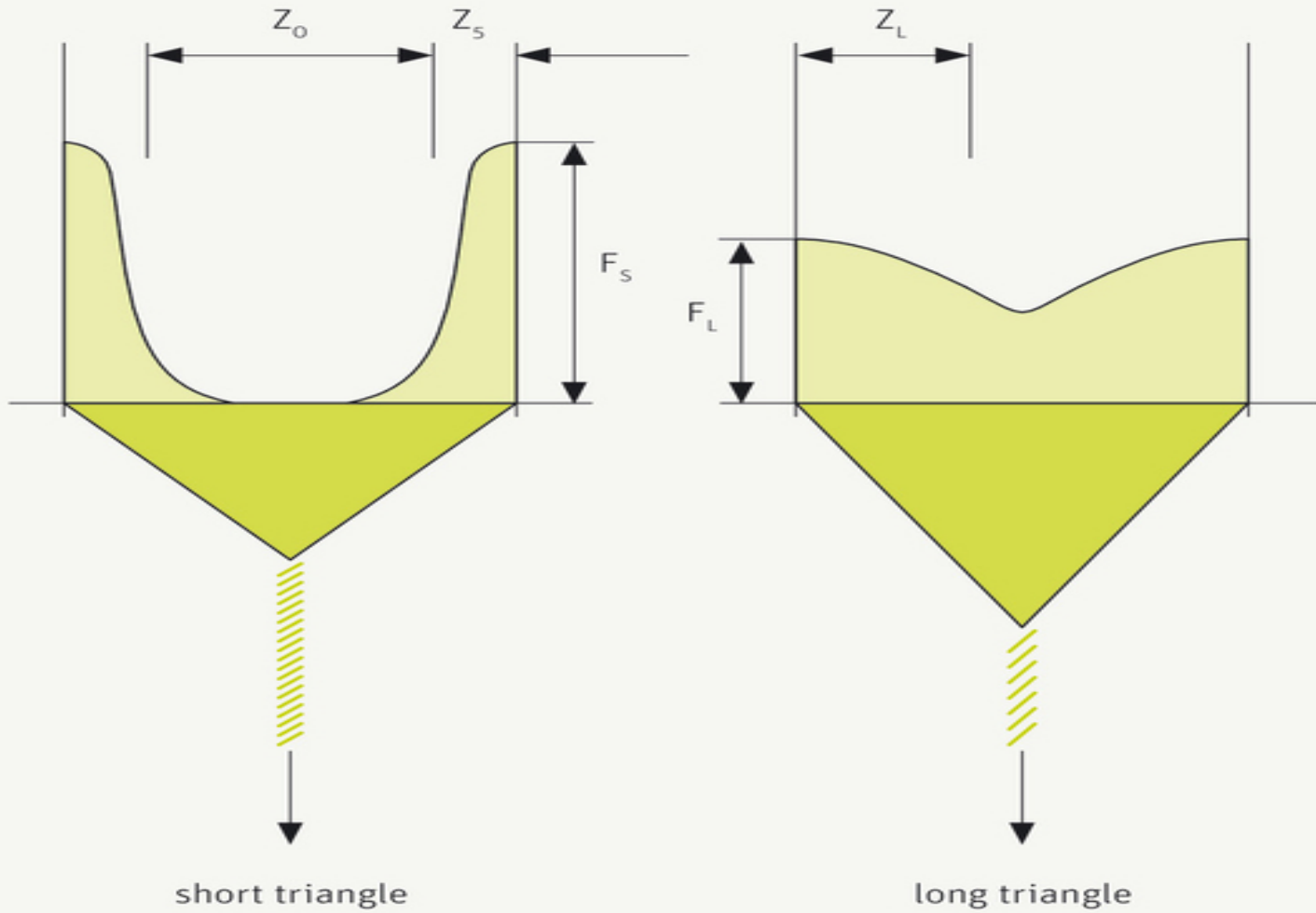
# مثلت ریسندگی



short triangle

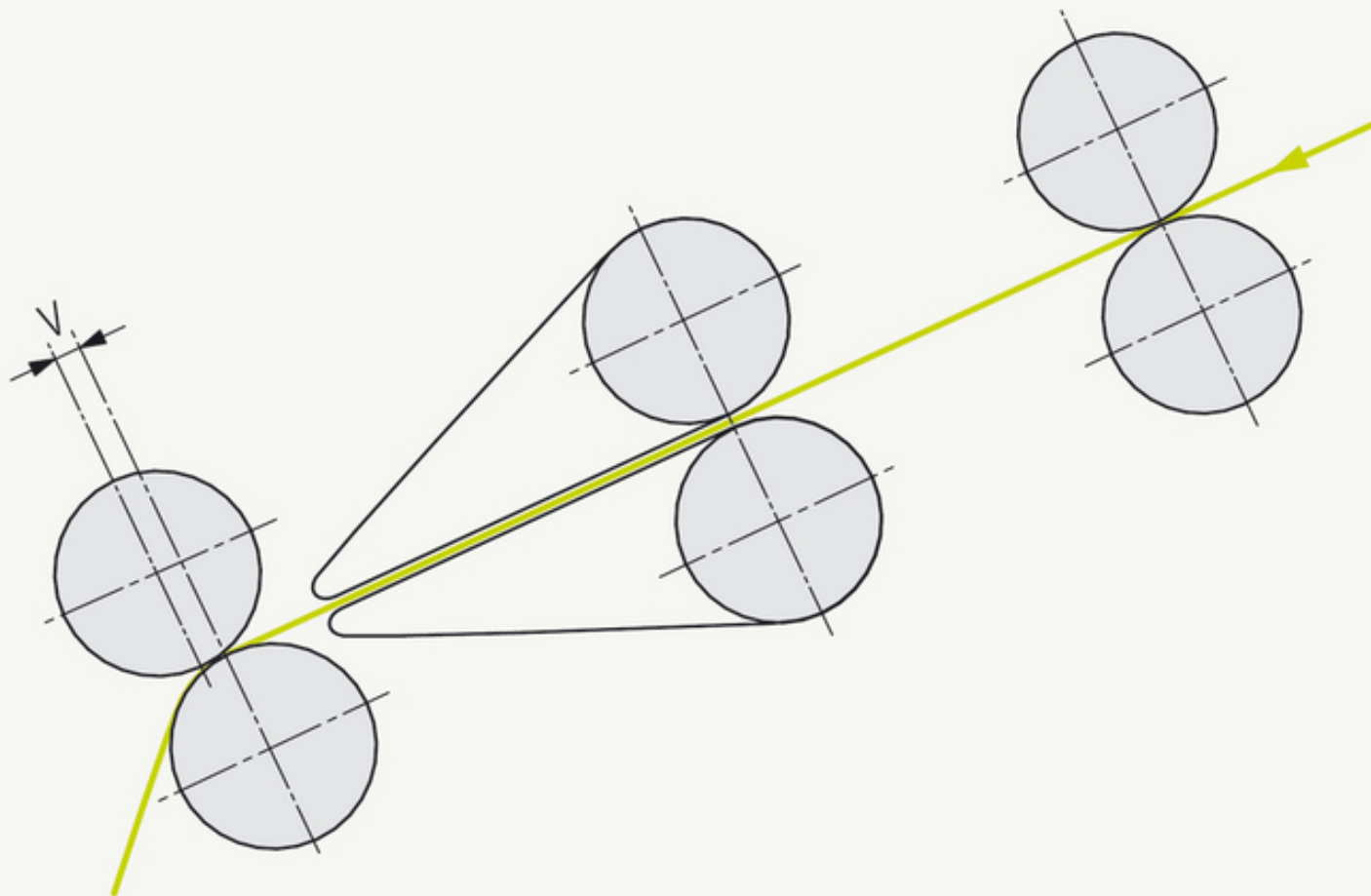
long triangle

# مثلت ريسندگی

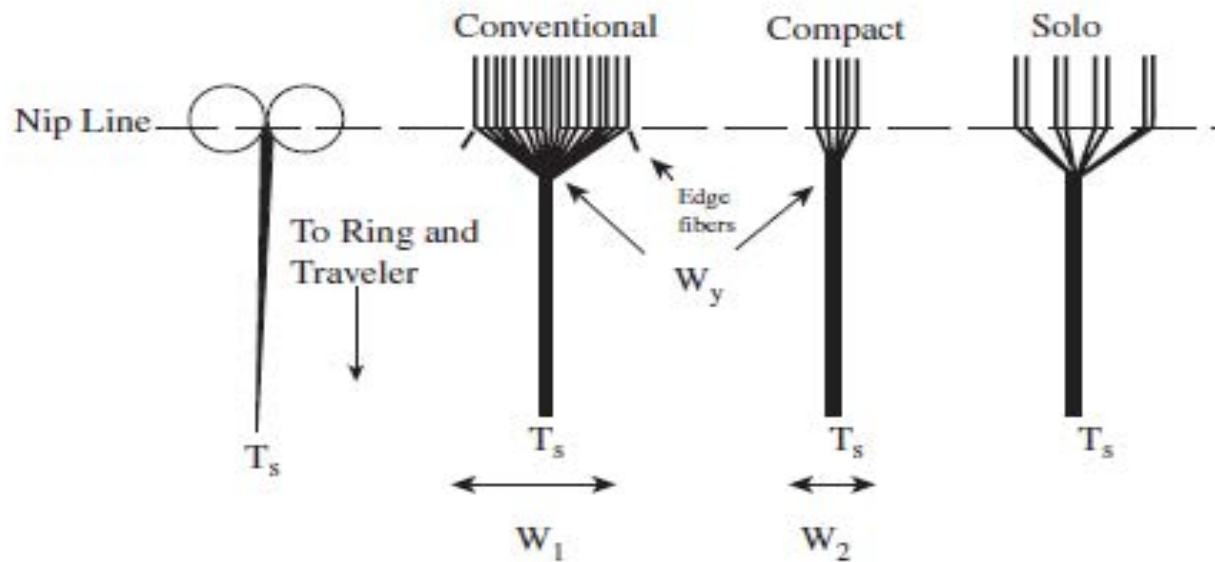
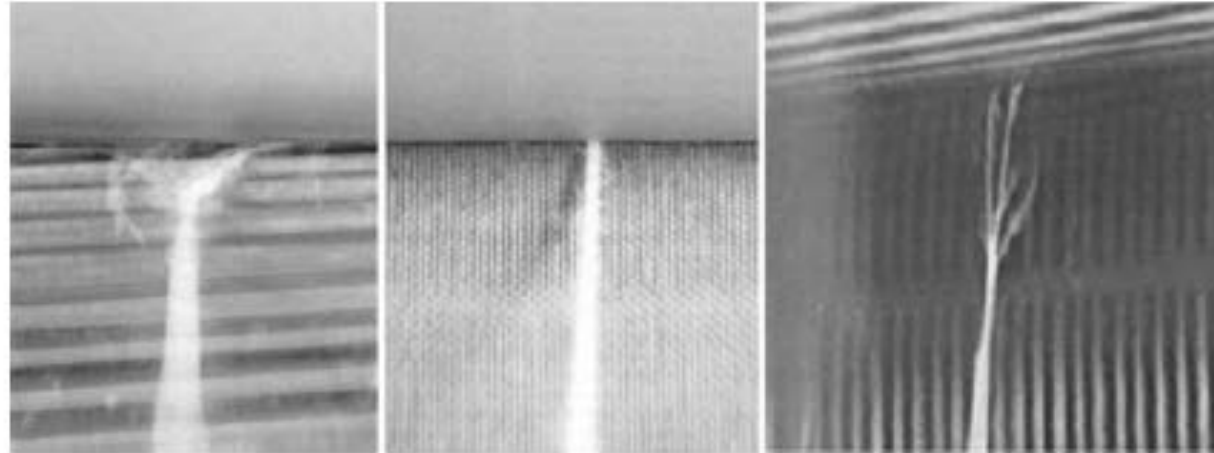


# روشهای کاهش ابعاد مثلث ریسندگی

۵



# روشهای کاهش ابعاد مثلث ریسندگی

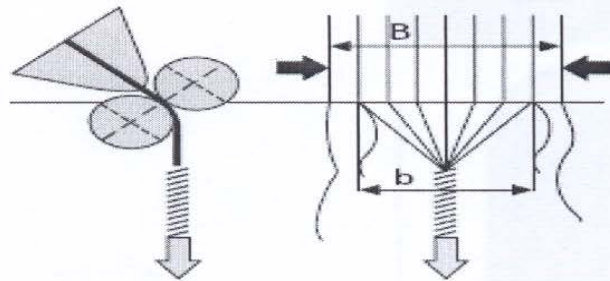


# Compact spinning

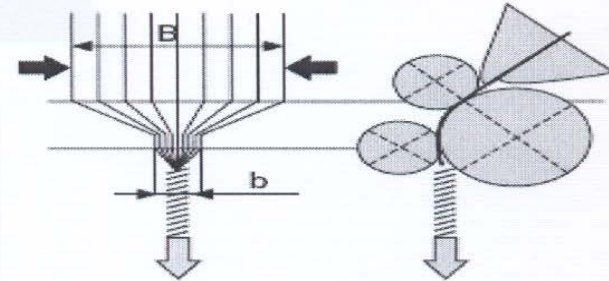
ComforSpin® machine – principle

Operating principle

Ring spinning



ComforSpin®



$$B_{\text{ring}} = B_{\text{COM4}}$$

8.8 Compact spinning (Maschinenfabrik Rieter AG).<sup>27</sup>

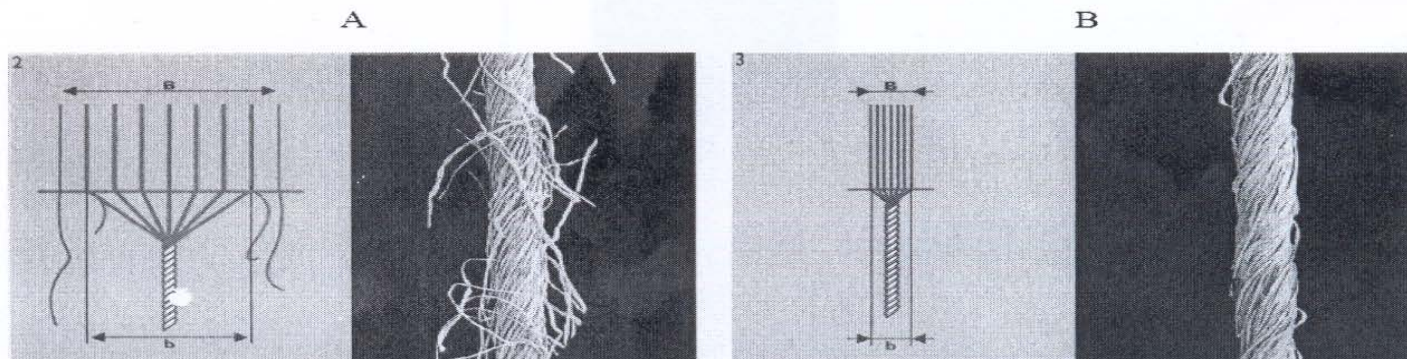


Fig. 48 Comparison between a normal ring-spun yarn (A) and a yarn produced (B) with the condensation technique

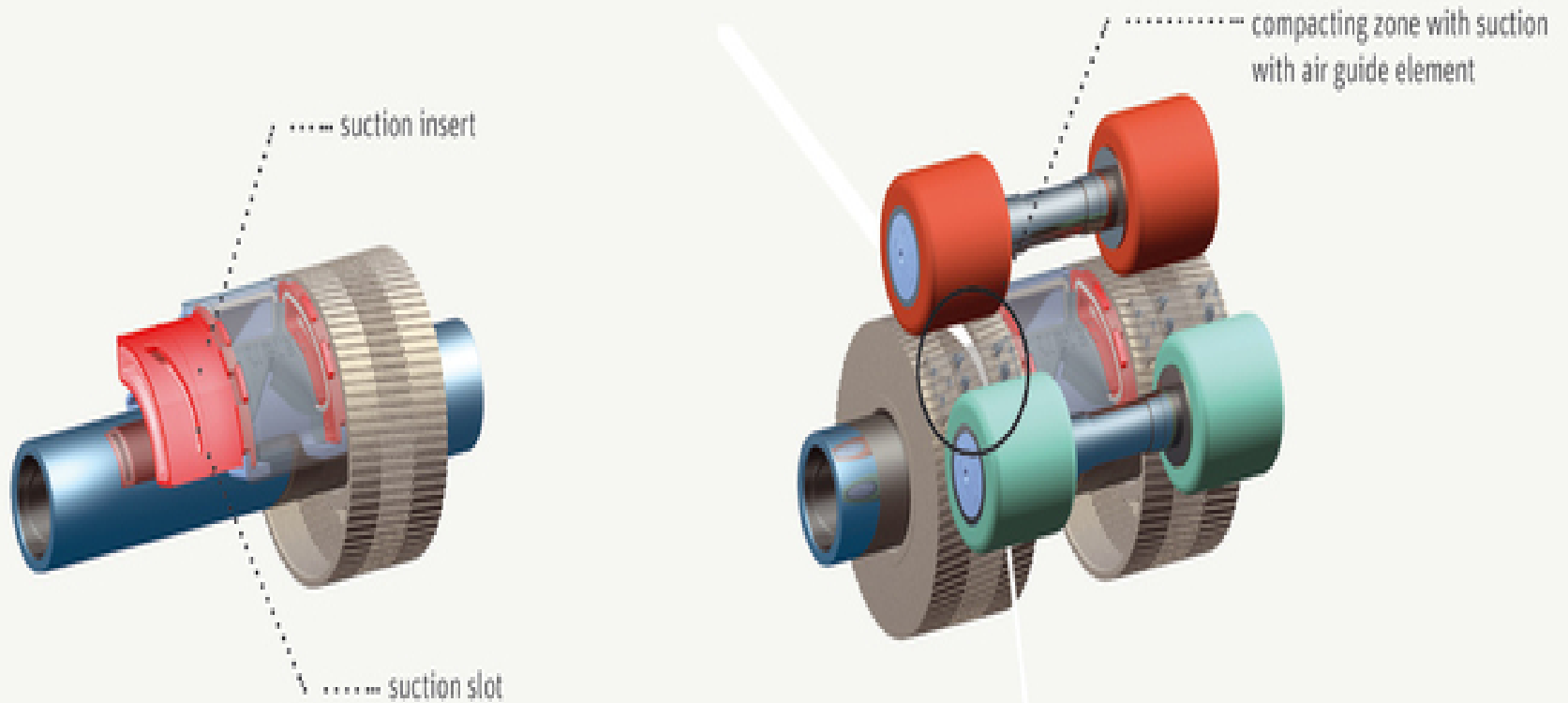
# روشهای تجاری موجود برای ریسندگی فشرده

| Manufacturer                          | Trade names            | Basic features  |
|---------------------------------------|------------------------|---|
| Rieter Machine Works Ltd.             | Com4Spin or ComforSpin | 4-over-3 double apron drafting system with perforated bottom front roller and two top rollers; drafted ribbon compacted by air suction through bottom front roller                    |
| Spindelfabrik Suessen                 | EliTe                  | 3-over-3 double drafting system with addition roller and special lattice apron, { moving around slotted, air suction tube ( <i>tubular profile</i> ) for compaction of drafted ribbon |
| Zinser Textilmaschinen GmbH           | Air-Com-Tex 700        | 4-over-4 double apron drafting system with perforated apron circulating around top front roller; drafted ribbon in front zone compacted by suction through perforated apron           |
| Maschinen-und Anlagenbau Leisnig GmbH | P4                     | 4-over-4 double apron drafting system with perforated apron circulating around bottom front rollers; drafted ribbon in front zone compacted by suction through perforated apron       |



# ریسندگی فشرده ریتر

۹

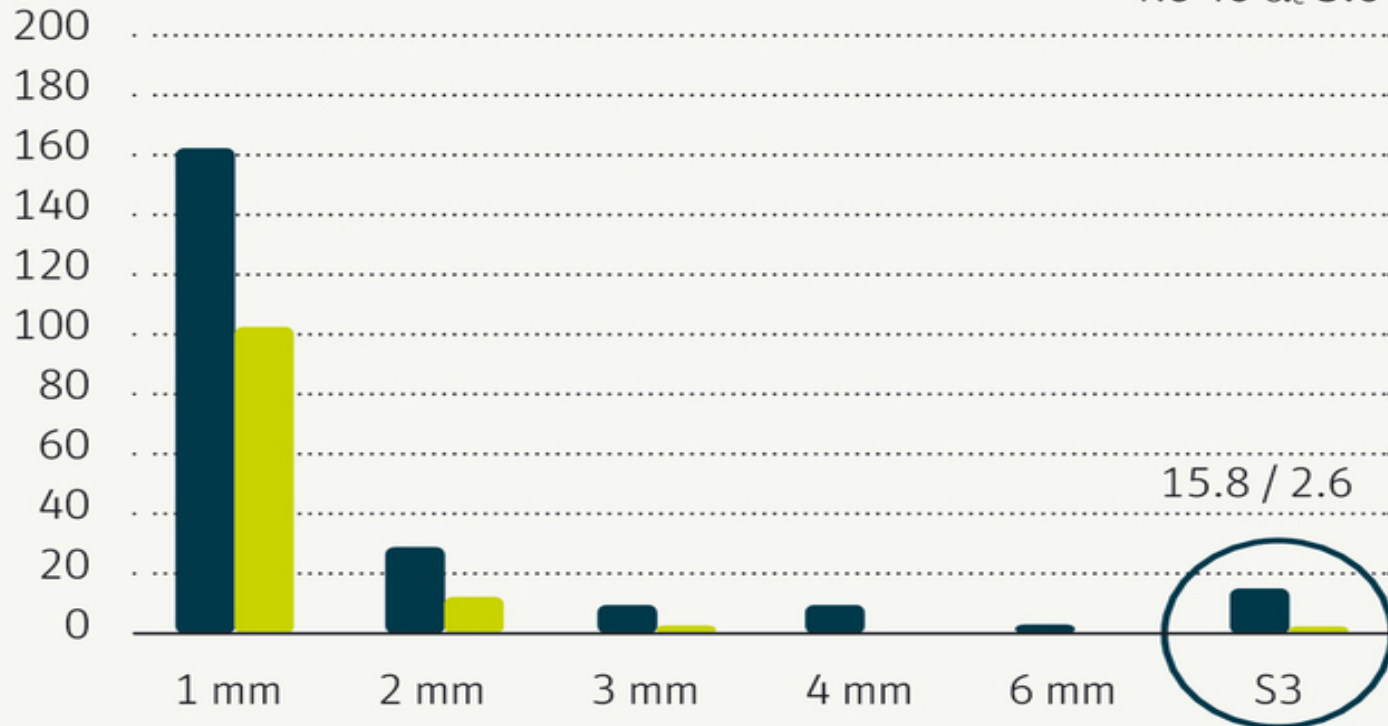


# ریسندگی فشرده ریتز

۱۰

Hairs / m

100% CO  
Ne 40  $\alpha_e$  3.6

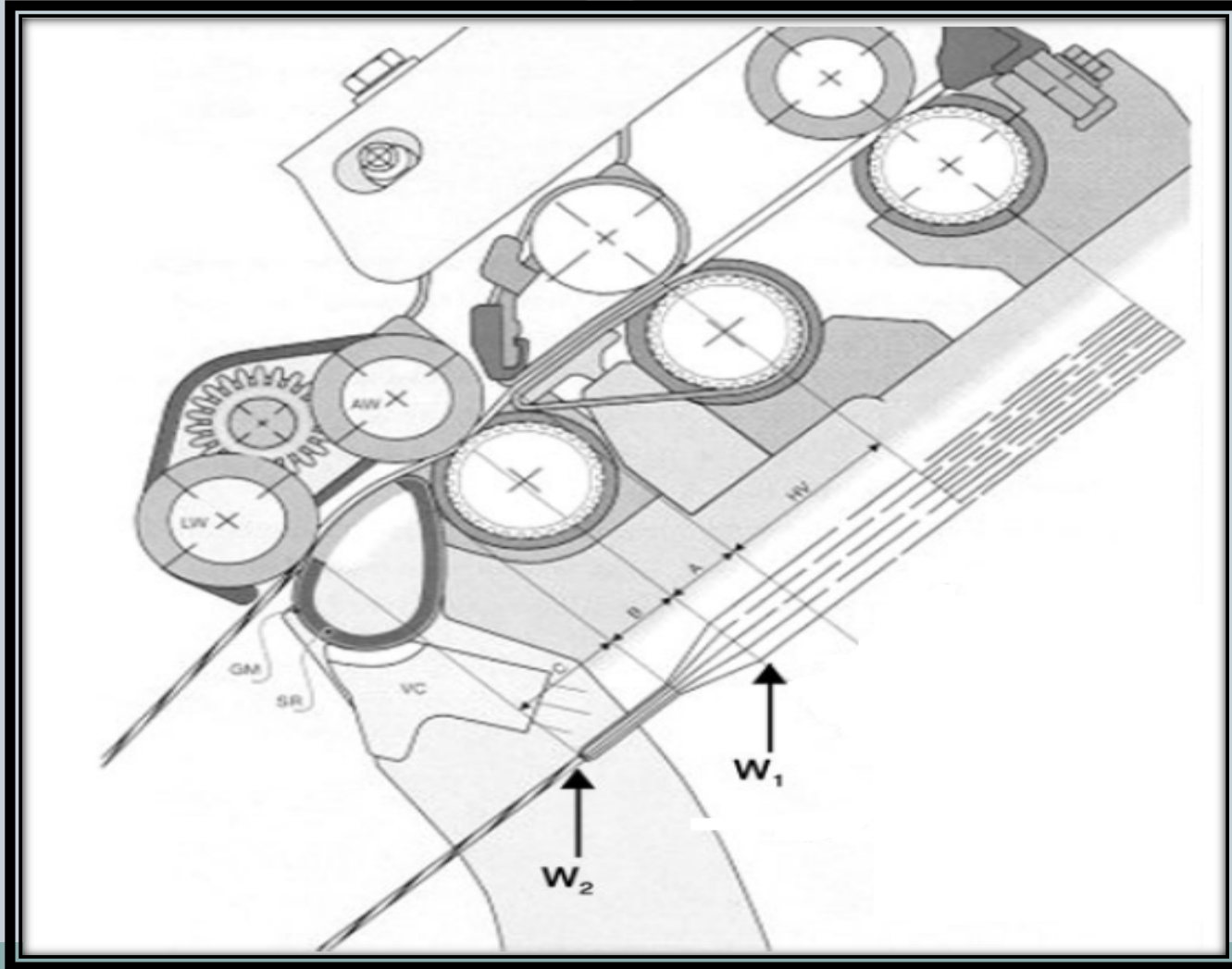


Measuring method: Zweigle

■ Ring yarn

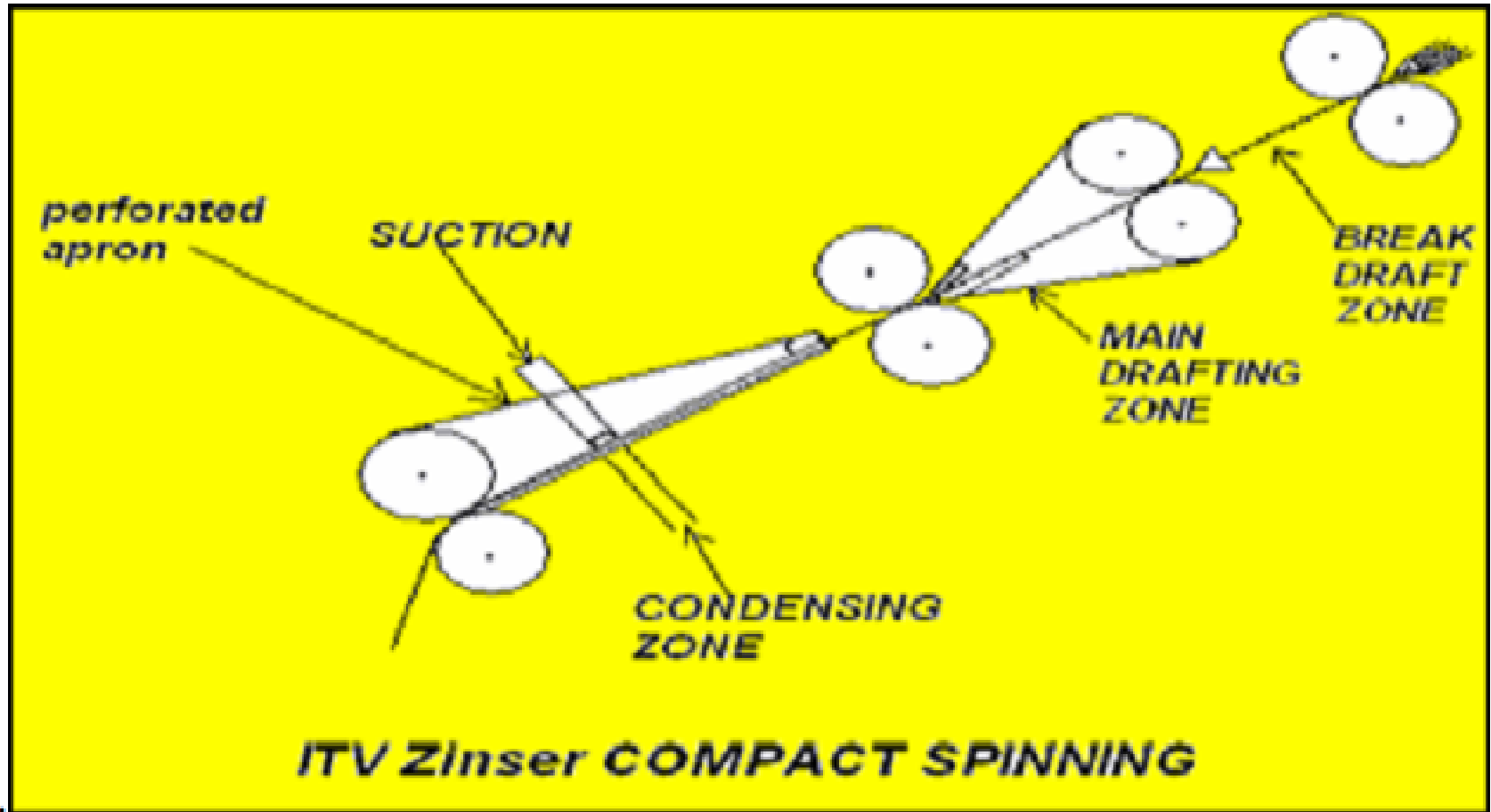
■ Com4®

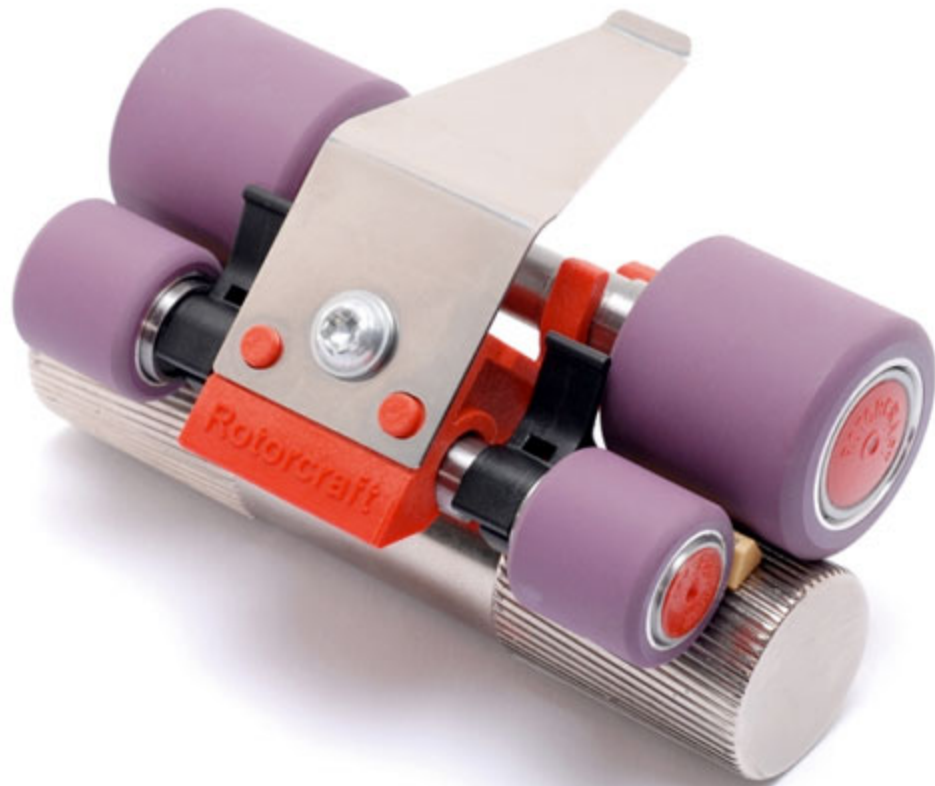
# ریسندگی فشرده زوسن



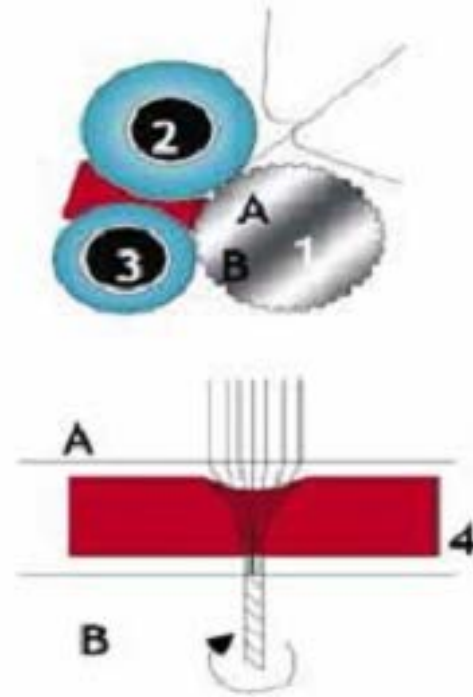
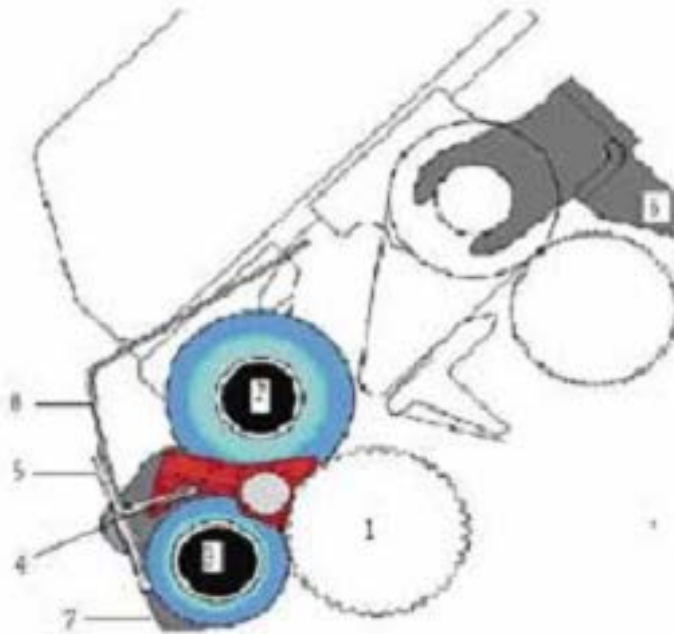
# ریسندگی فشرده زینسر

۱۲

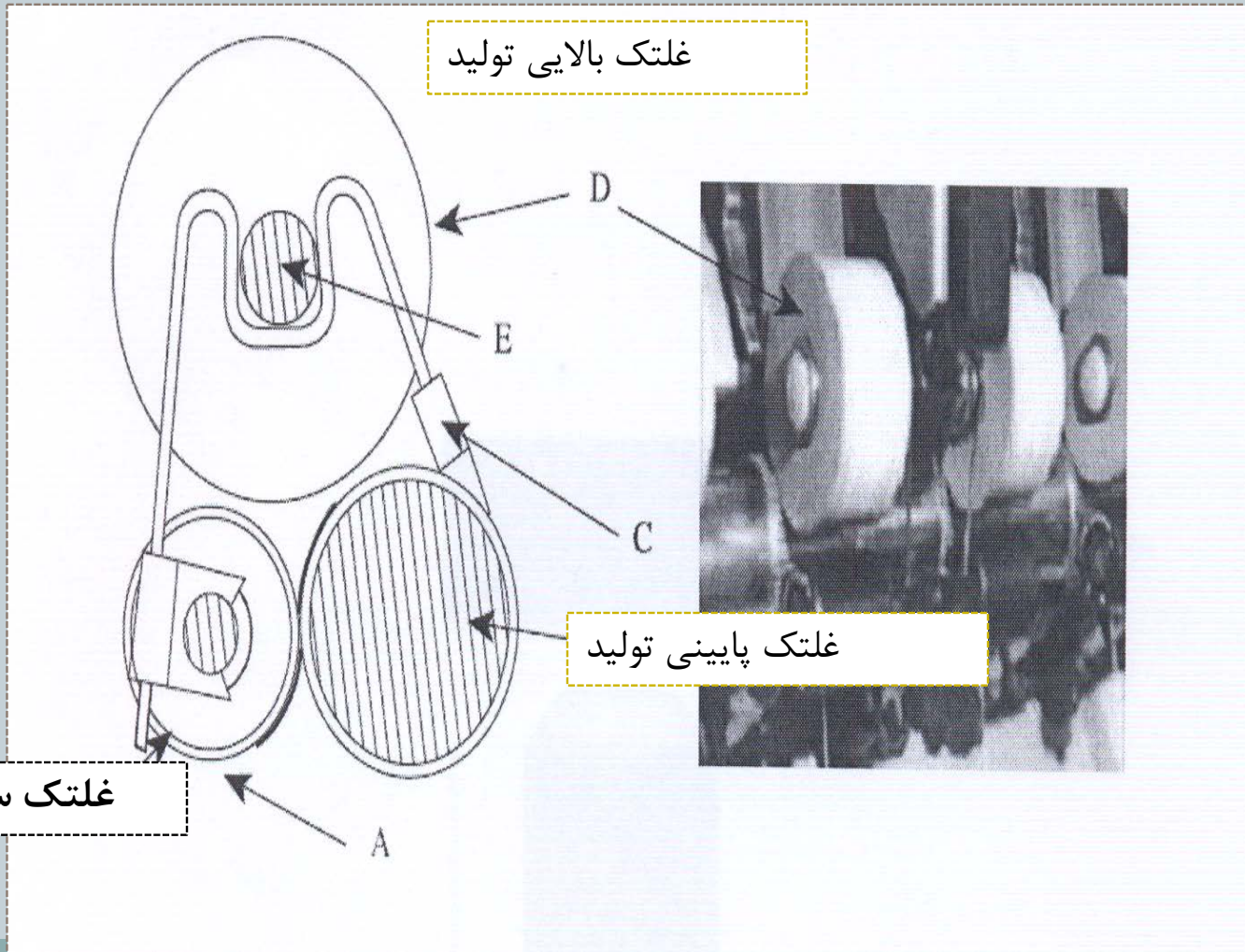




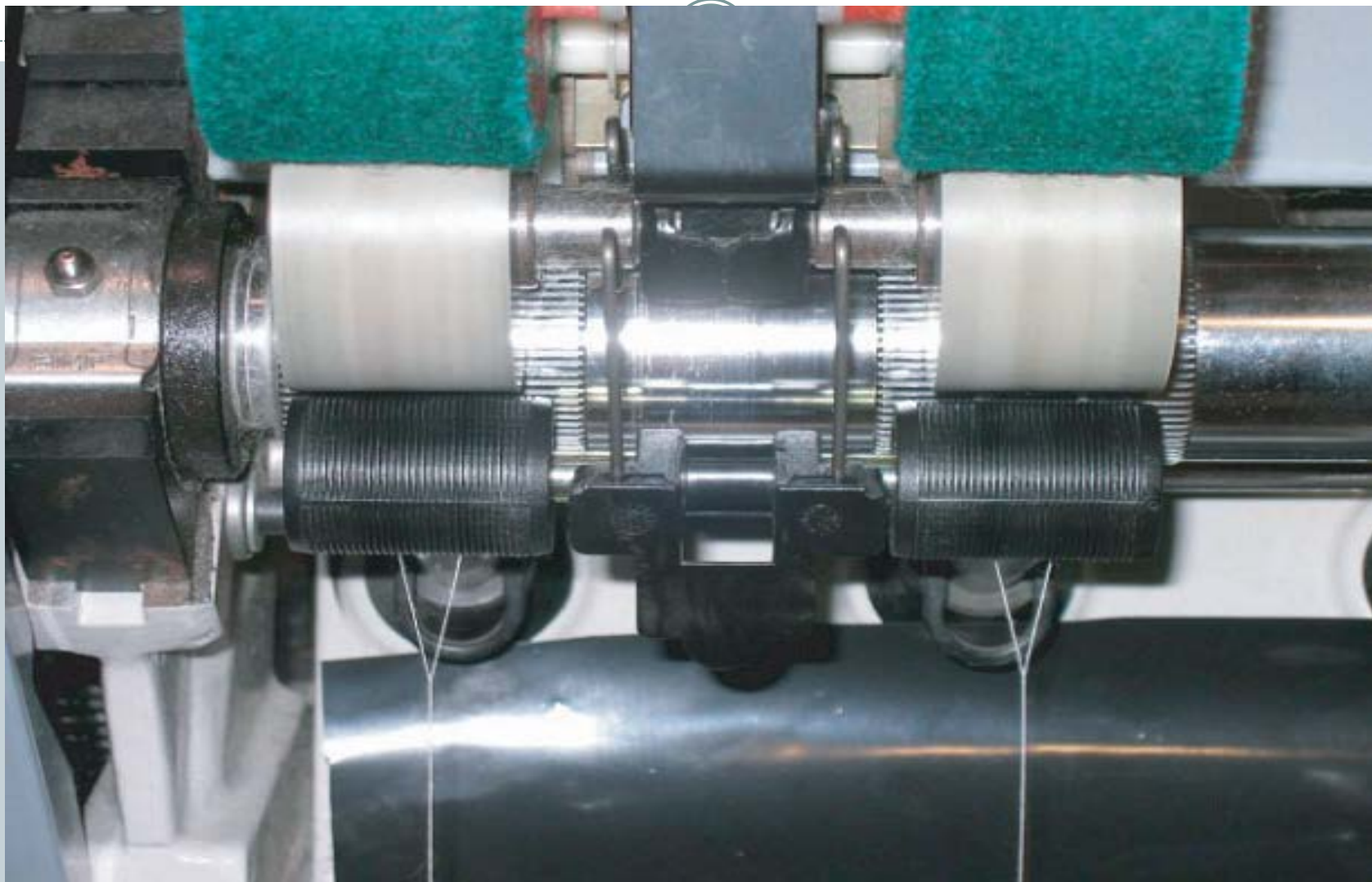
# Electro magnetic compact system



# Solo spinning

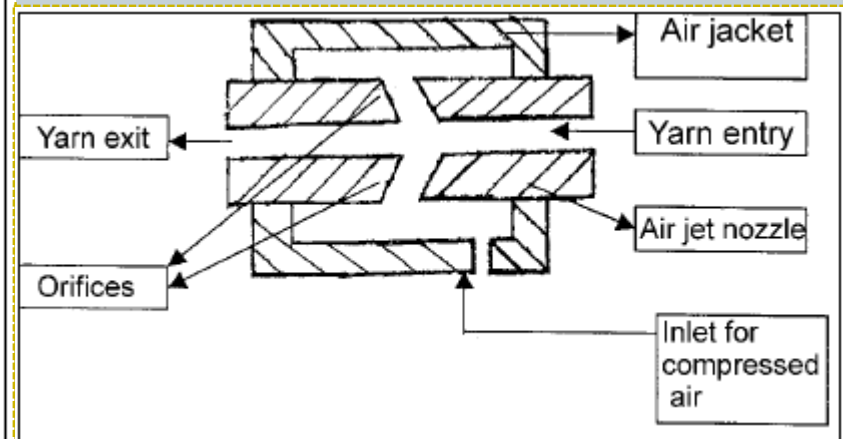
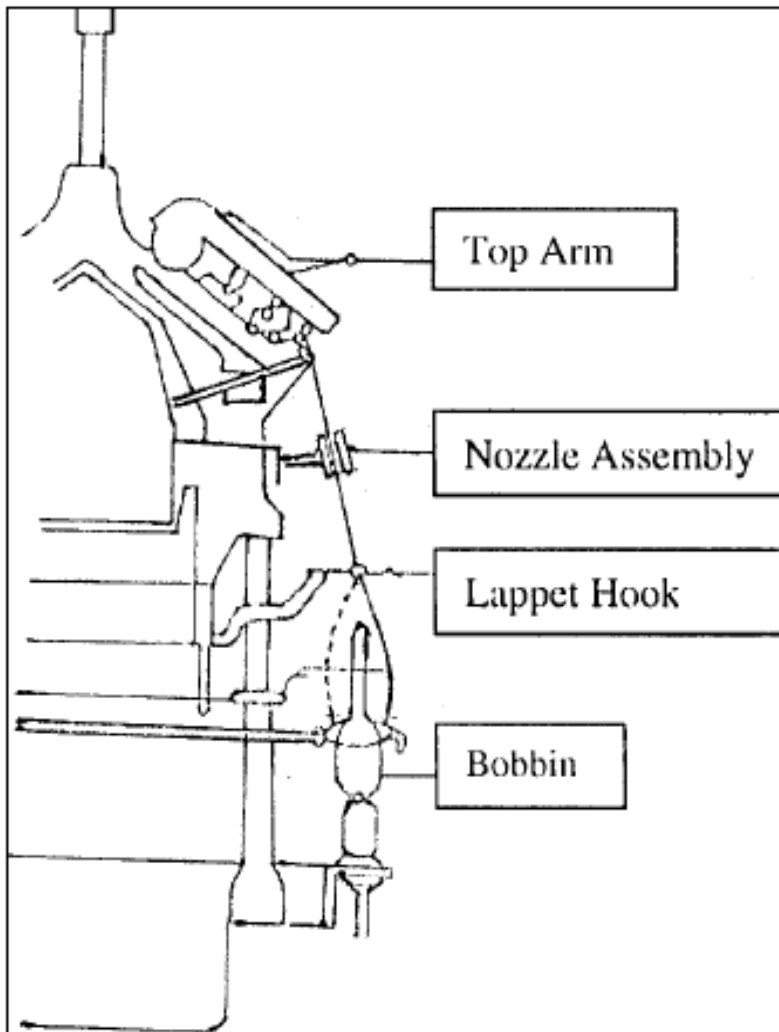


# غلتک های سایرو

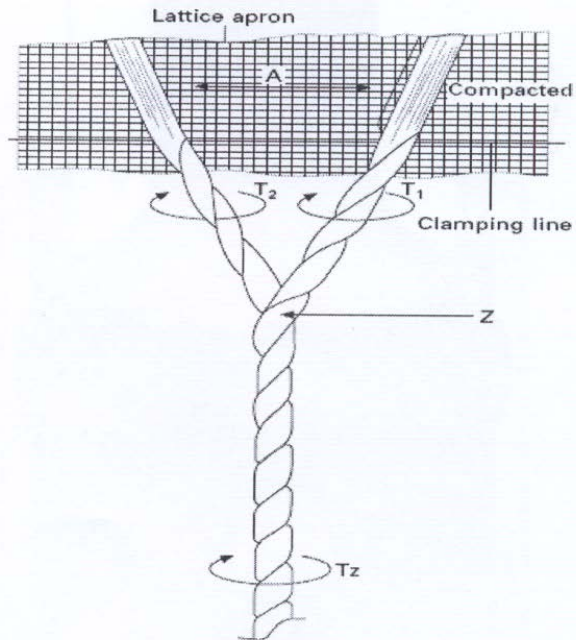




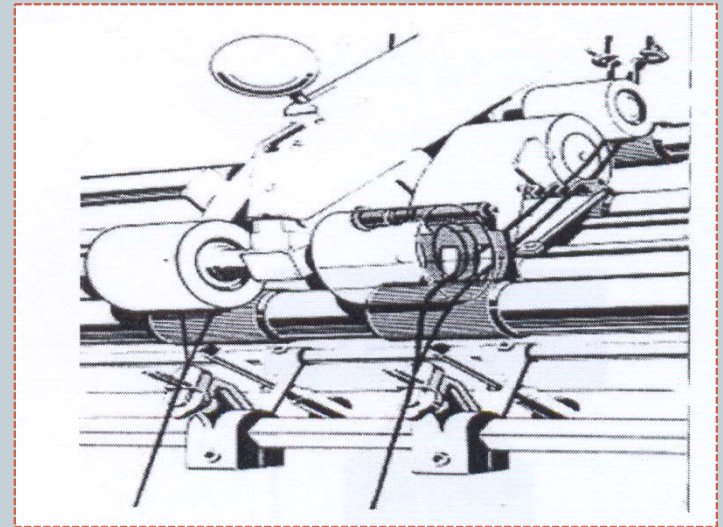
# Jet-Ring spinning



# Siro Spinning



8.7 Two-strand spinning EliTwist (source: Ramasubbu, Spindelfabrik Suesen GmbH).





**Worsted range:**

Yarns from pure wool, wool/manmade fibre blends, and also 100% manmade fibres (acrylic-high bulk). The SiroSpun yarn is used for men's and boys' wear, ladies' outerwear and home textiles as the warp and/or weft yarn, and also less frequently as knitting yarn - usually in the fine count range.

Shirt and blouse fabrics  
Nm 80/2 – Nm 72/2

Light suiting fabrics  
Nm 64/2 – Nm 52/2

Light fabrics  
Nm 52/2 – Nm 72/2

Medium to heavy fabrics  
Nm 52/2 – Nm 40/2

Fine 100% wool yarns  
Nm 92/2 – Nm 100/2

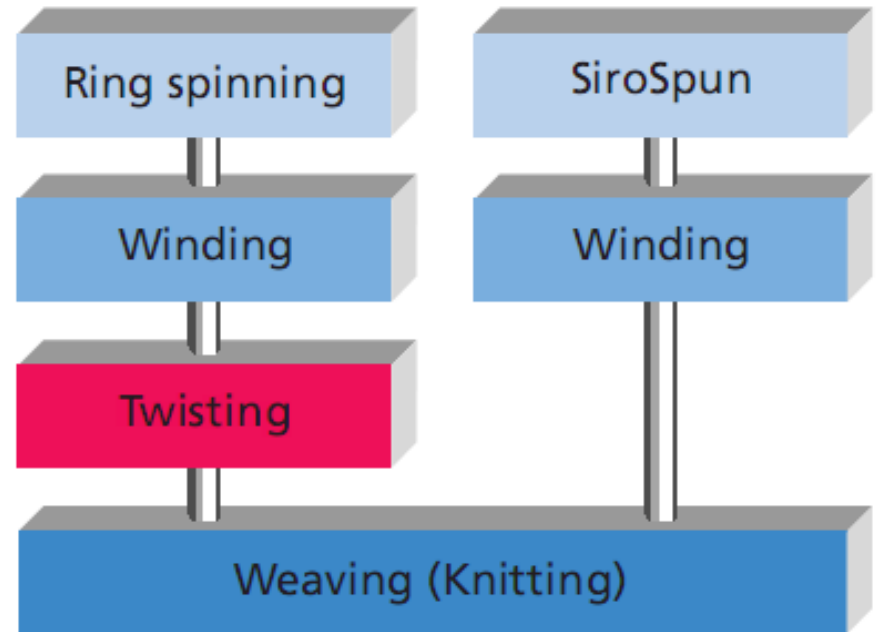
Coarse yarns  
Nm 16/2 – Nm 8/2

**Cotton range:**

Yarns from pure cotton and cotton/ manmade fibre blends.

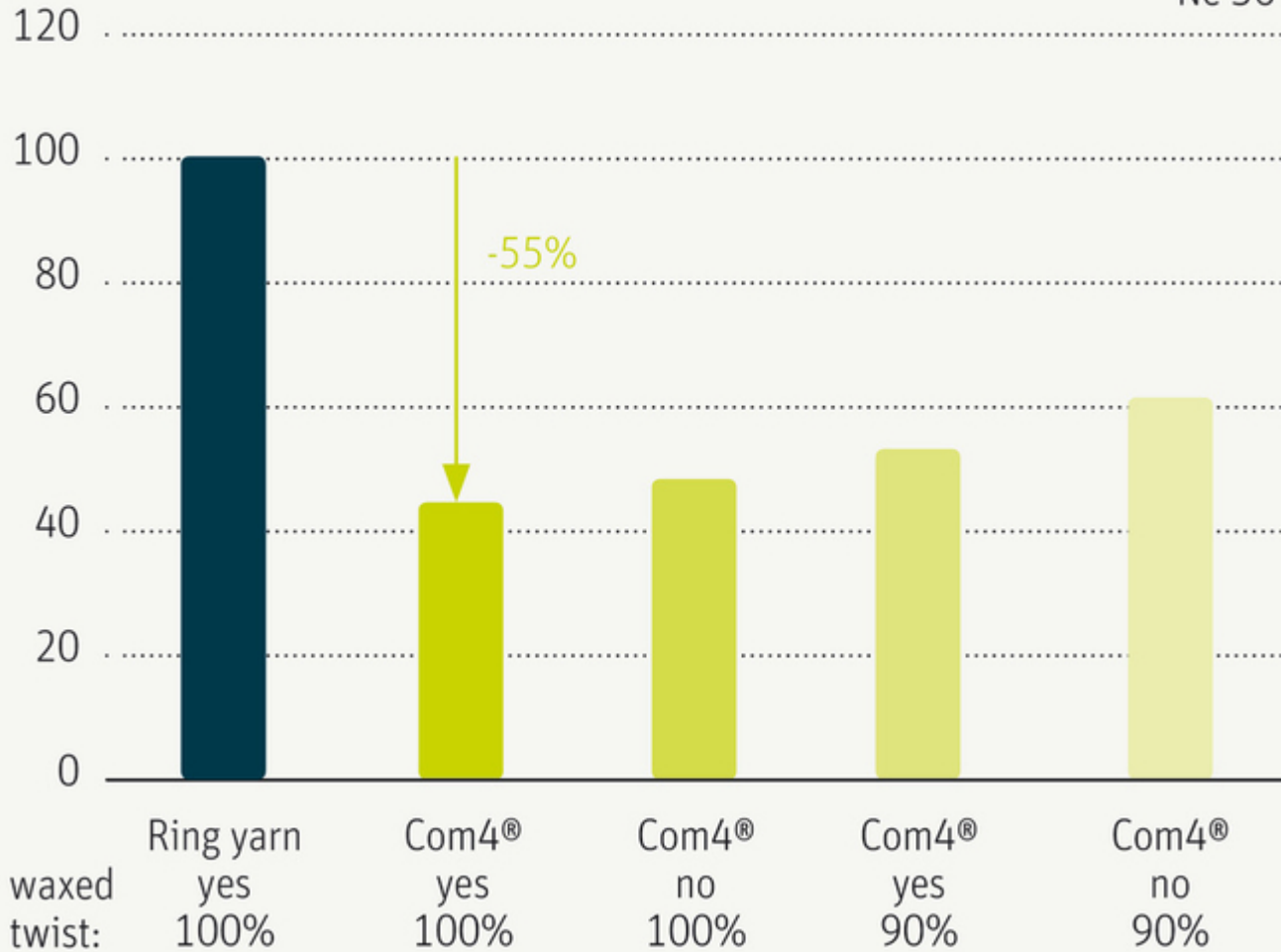
High-quality shirting  
Nm 120/2 – Nm 140/2

Light gabardine fabrics  
Nm 80/2



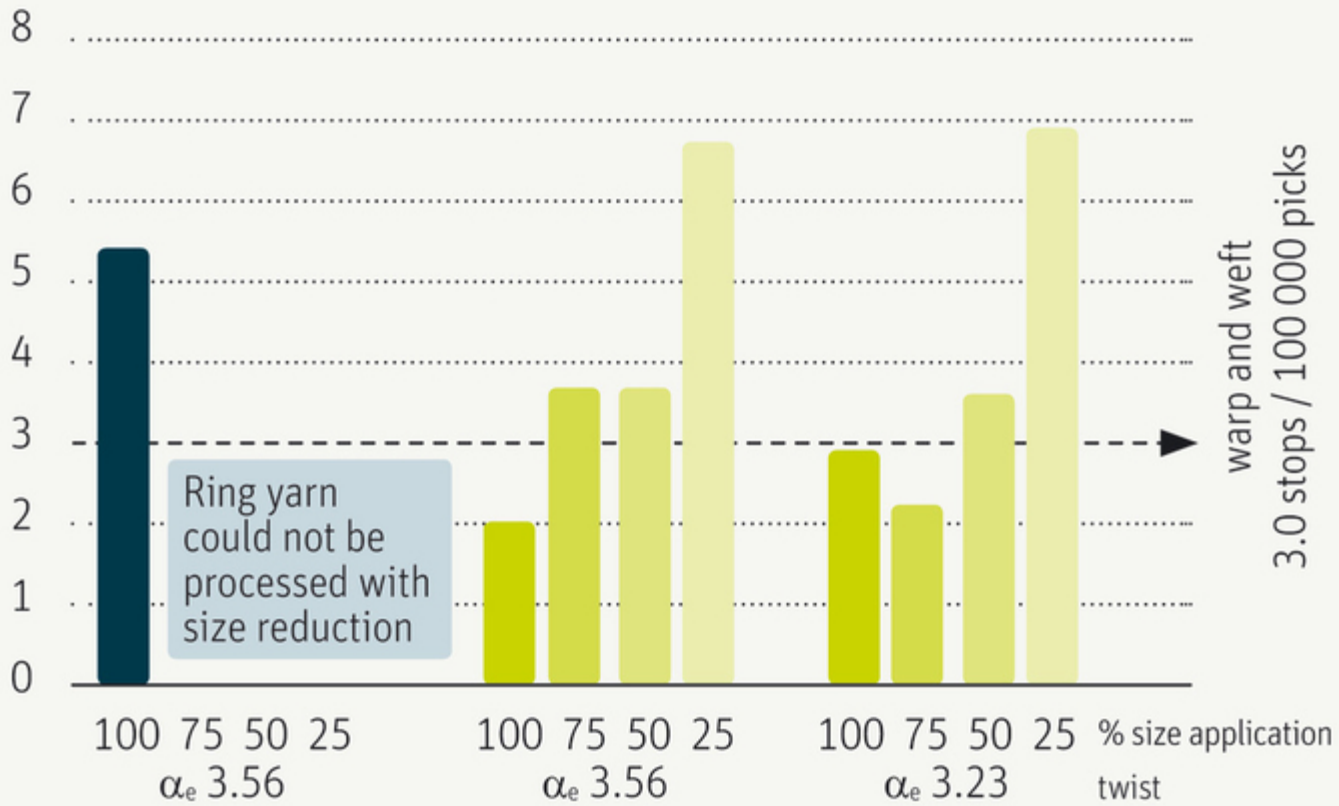
Fiber fly [%]

100% CO  
combed  
Ne 36



Stops / 100 000 picks

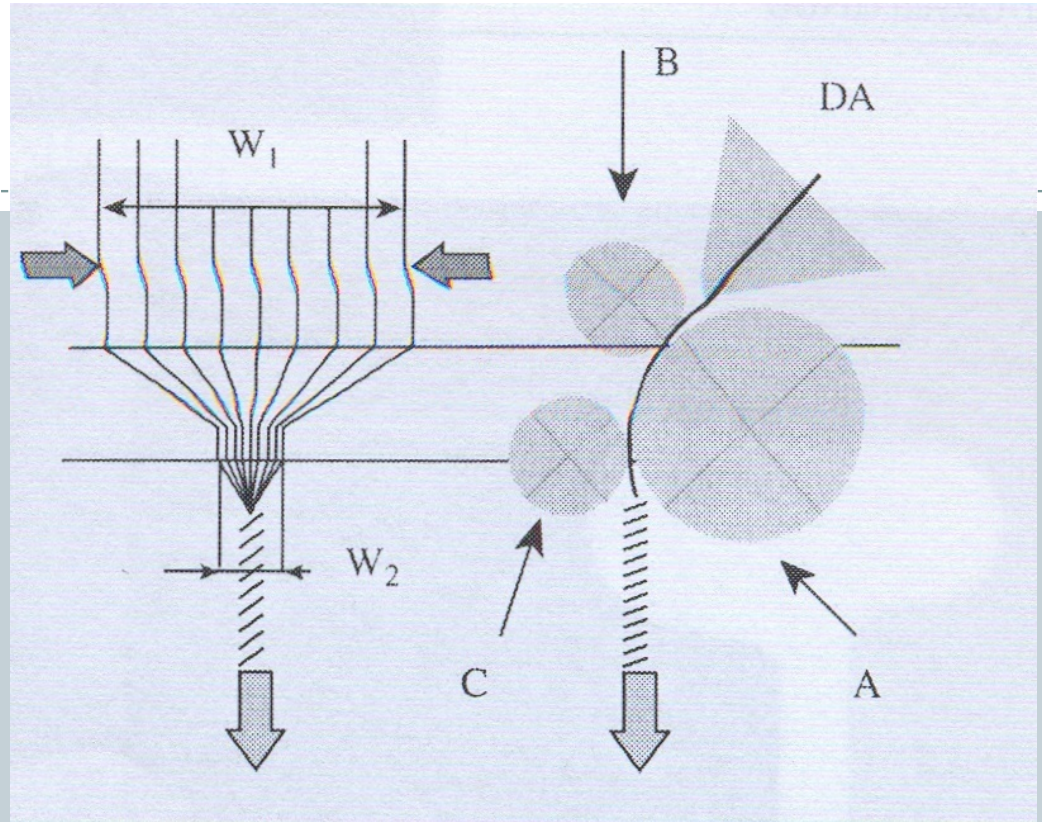
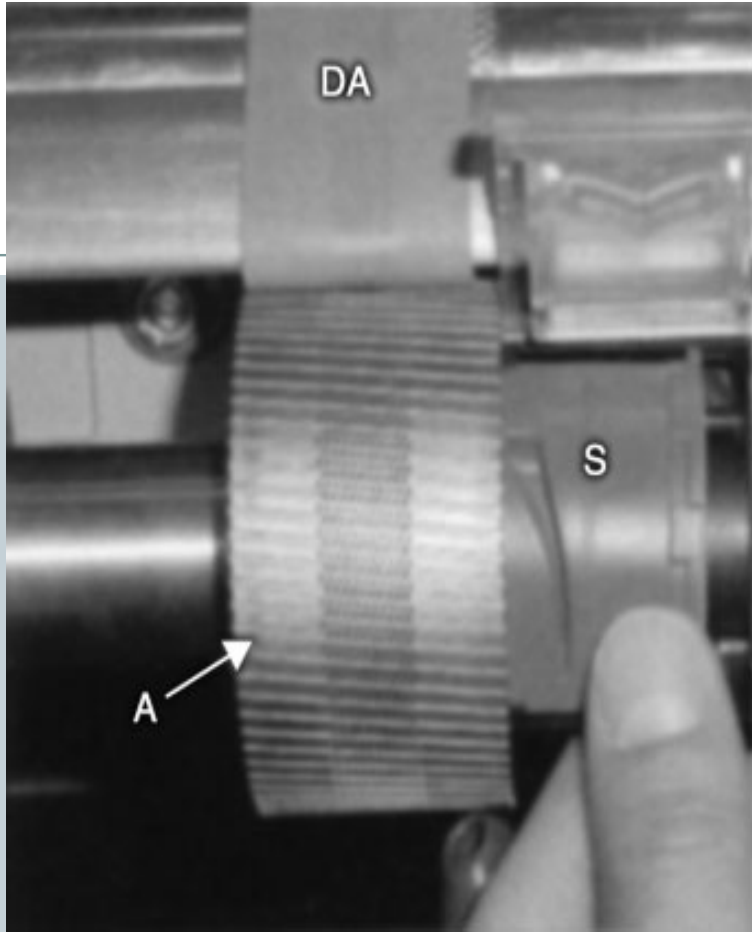
100% CO  
combed Ne 40



Ring yarn

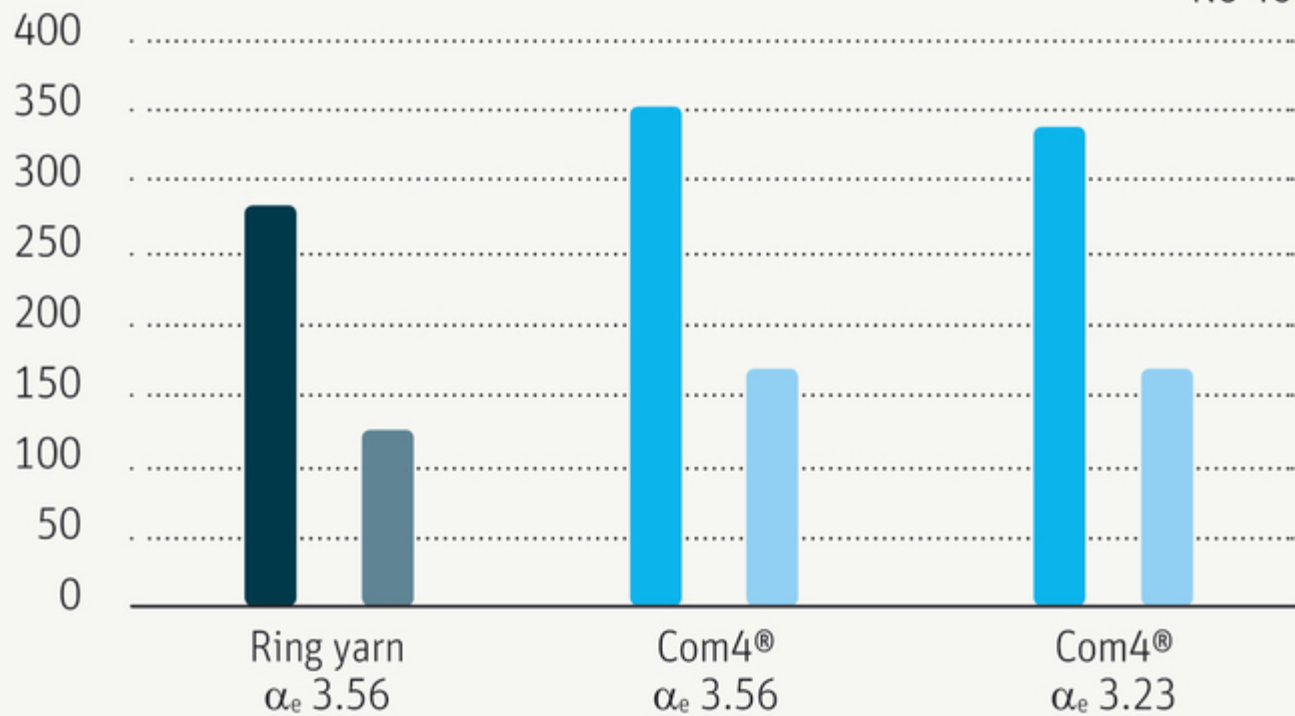
Com4®

# مکانیزم ریسندگی فشرده



Fabric strength [N]

100% CO  
Ne 40

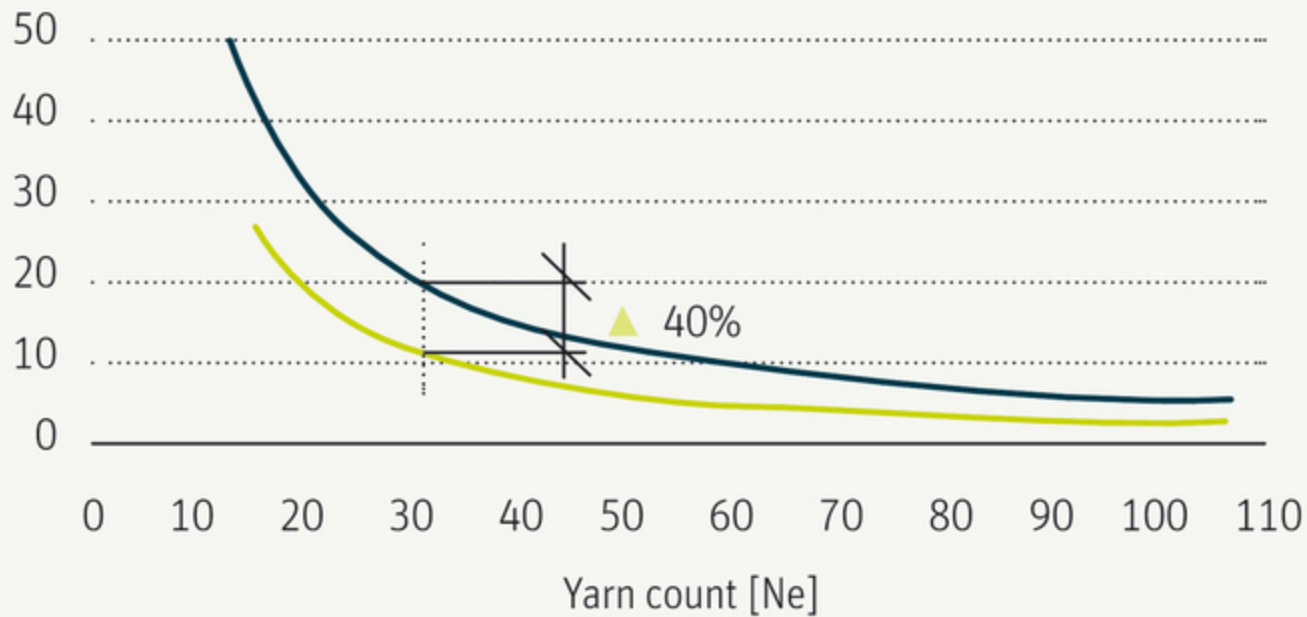


Grey

non iron finish

Staff abrasion [mg / 1 000 m]

100% CO  
combed

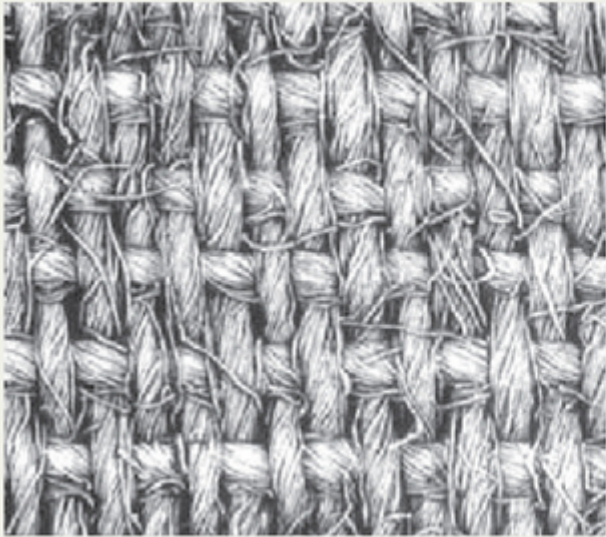


■ Ring yarn

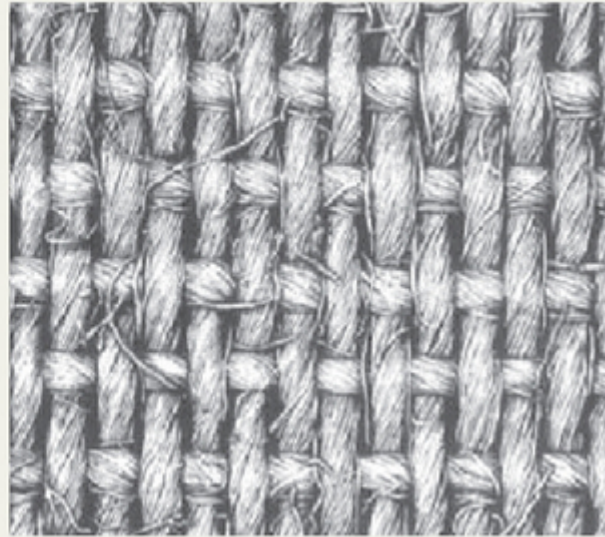
■ Com4®



Ring yarn



Com4®



# مثلت ریسندگی

