

High-speed spindles  
LENA

**Novibra**

# LENA

Energy saving high-speed spindle

Sustainability  
in spindle operation



# OUTSTANDING

## ADVANTAGES

# LENA



### Industry Maximum Life-Time

Patented one-piece spindle insert

### Energy Saving

Due to unique 17.5 mm wharve dia

### Industry Maximum Speed

30 000 rpm

### Reduced Maintenance

Long lubrication cycles and special anti-corrosion treatment

### Flexible

Can be supplied with new machines  
or as an upgrade of existing ones

Can be fitted with any Novibra crown

### Noise Reduction

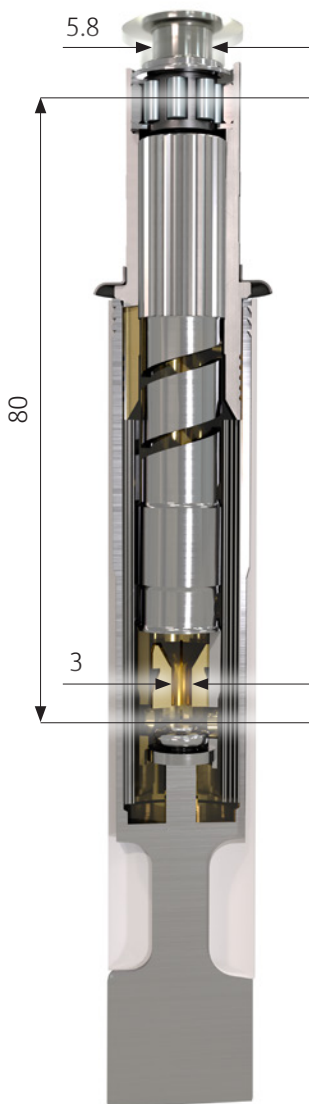
Thanks to well-proven second damping system

# Low-Energy and Noise-Absorbing Spindle LENA

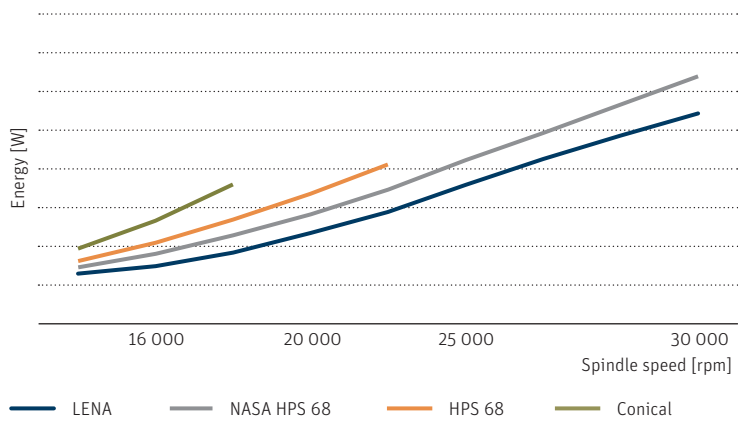
LENA was designed to achieve the highest speeds with low energy consumption, achieving speeds of up to 30 000 rpm while saving on average up to 4 to 6% of energy.

## Application

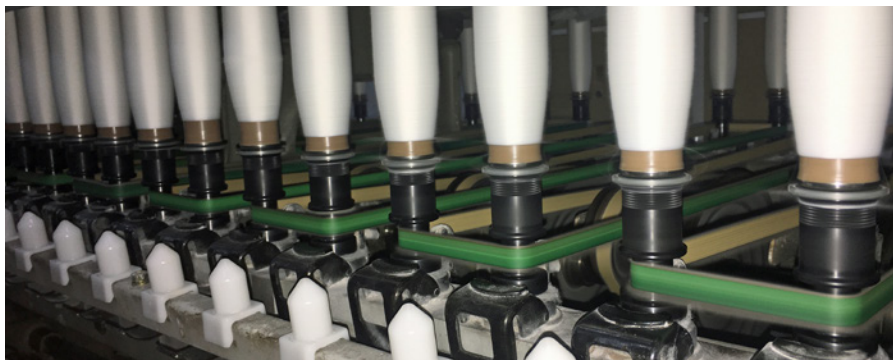
Speed: up to 30 000 rpm  
 Tubes: up to 200 – 210 mm  
 Suitable for yarn count Ne30 and finer



Energy consumption comparison



- Neck bearing 5.8 mm
  - wharve diameter 17.5 mm
  - energy saving
- Footstep bearing 3 mm
  - energy saving
- Pitch between bearings 80 mm
  - compact design
- Second damping system
  - remarkably reduced neck bearing load
  - low noise level



LENA with standard Novibra cutter on machine





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3429-v2 en 2210 • NM 06 EN