COMPLETE AUTOMATION SOLUTION FOR TEXTILE INDUSTRY

Compact Footprint
Increase Productivity
Wide Operating Voltage
Process Optimized
Your advantages
- 15 years of experience in the textile machine branch realized in a complete frequency inverter series
- competent counsel directly from the manufacturer of textile machine suited drive systems
- KEB COMBIVERT permits the standard control with analog signals as well as the digital data communication between frequency inverter and primary process control systems e.g.: CAN, LON, Profibus, Interbus Loop. The transparency of the drive is given.
- cost optimization through mass production
- keeping the corresponding standards CE, VDE, UL, CUL
- worldwide service
- modern manufacturing facilities in Germany, Japan, USA, India
- options: radio interference suppression, serial networking, system recovery, sine-wave filter, choke, EMC Filter

Advantages for ring spinning machines
- complete inverter series from 0.37 kW up to 250 kW
- low-noise and low-loss power stages with IGBT power semiconductors
- cooling of power stage
  a) conventional with forced ventilation of control cabinet or
  b) with push-through heat sink or
  c) with liquid cooling, consequently closed design of control cabinets
  d) as motor inverter
- user friendly operation
- speed presetting for the functions:
  - spinning start-up speed
  - production speed
  - spin-out-speed
  - position regulation
  analog: ± 10V, 0…10V or 0…20mA, 4…20mA
  digital: as set value, 8 fixed speeds selectable via inputs
    - serial interface with
      - DIN 66019 (Ansi X3.28)
      - Profibus
      - Interbus
      - CAN-BUS
      - LON-BUS
# Advantages of the drive concept

**KEB COMBIVERT for the modernization of ring spinning machines**

<table>
<thead>
<tr>
<th>Features</th>
<th>Productivity</th>
<th>Advantage</th>
</tr>
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<tbody>
<tr>
<td>Short-time high power reserves</td>
<td>fast balloon build-up through controlled acceleration to the spinning start-up speed</td>
<td>- low thread breakage rate at the start</td>
</tr>
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<td>Programmable parameter sets</td>
<td>production speed externally selectable and adjustable by way of potentiometer. The relation of max. production speed to thread breakage rate can be optimized.</td>
<td>- weekend shift with reduced operator personal</td>
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<td>Multi-REF-Input</td>
<td>optimal drive curve program</td>
<td>- optimally reduced running-in programm</td>
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<td>Multi-I/O-Input</td>
<td>high speed constancy even in controlled operation</td>
<td>- highest production rate corresponding to operating state of machine</td>
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<td>Serial interface</td>
<td>high availability</td>
<td>- no uncertain production results, no uneven balloon</td>
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<td>DIN 66019 (ANSI X3.28)</td>
<td>reduced energy consumption</td>
<td>- no maintenance relieving the air conditioning system</td>
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<td>PROFIBUS, INTERBUS CAN BUS, LON-BUS</td>
<td>controlled spin-out, at that commutated machine shut down until underwindings</td>
<td>- reduction of energy cost - per kg yarn</td>
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<td>Motor voltage stabilization and cos. - control</td>
<td>controlled braking until machine standstill while taking into account the ring rail position is possible at any time.</td>
<td>- increased production improved yarn quality</td>
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<td>Liquid cooling</td>
<td>easy operating data acquisition</td>
<td>- improved further processing of the full cops, underwindings controllable</td>
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<td>Energy saving function</td>
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<td>- minimal thread breakages at restart</td>
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**Inquire about drive solutions for**

- machines for spinning preparation, twisting, rope making, chemical fibers, texture, ...
- spooling, reeling and winding machines
- machines for the weaving mill, production of carpet, cloth and felt
- hosiery and knitting machines
- textile processing machines: washing, dyeing, printing, tentering, drying and subsequent treatment machines
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