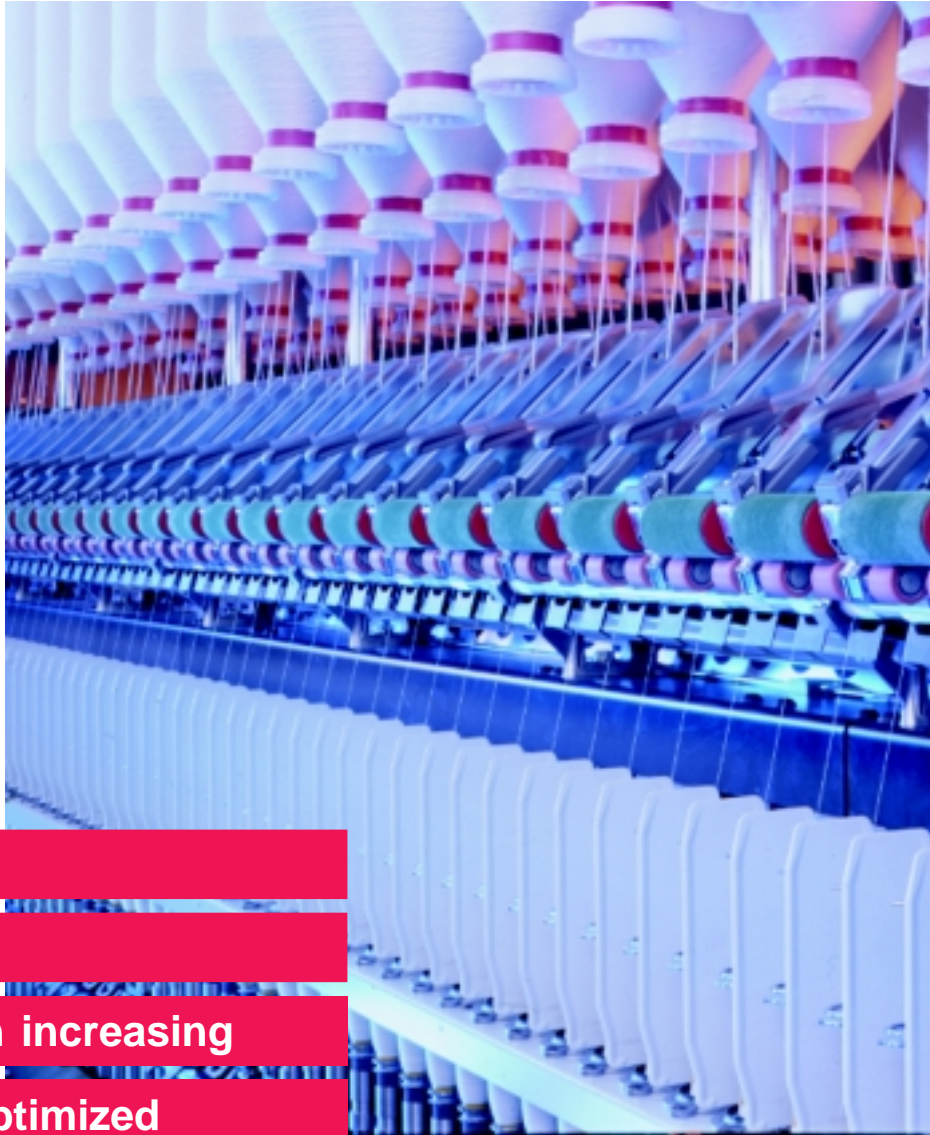


# COMBIVERT



**Powerful**

**Low-noise**

**Production increasing**

**Process optimized**

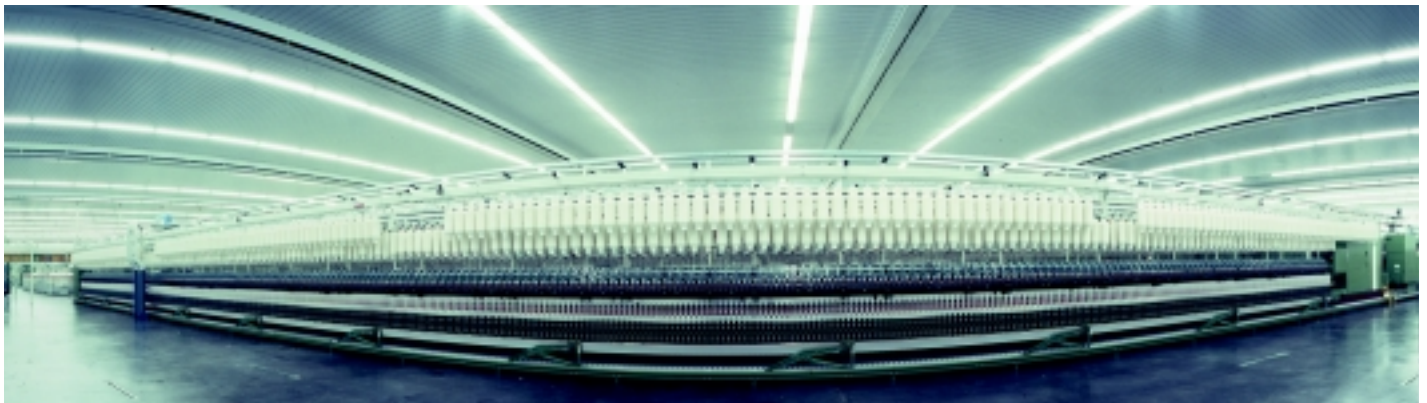
The optimal frequency inverter system ...



# from Drive Specialist for Textile Machines

## ● 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
- options: radio interference suppression, serial networking, system energy recovery, sine-wave filter, choke, transformer



## ● 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:  $\pm 10V$ , 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

● **The drive solution with frequency inverters for spinning machines**

- 1 main drive for the spinning spindle
- several secondary drives for delivery devices, drafting system, ring rail, conveyor belt doffer etc.

● **Advantages of the drive concept KEB COMBIVERT for the modernization of ring spinning machines**

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

● **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

# TELEFAX Reply

**Fax 05263 / 401-145**

Sender:

Name: ..... Company: .....


Function: ..... Street: .....

Telephone: ..... Town: .....

## **Yes, we are interested in your: Delivery Program**

- Open loop frequency inverters 0,37 ... 315 kW
- Closed loop frequency inverters 0,75 ... 90 kW
- Regenerative units 11 ... 70 kW
- Servo systems 0,2 ... 70 Nm
- Inline helical geared motors 0,12 ... 45 kW
- Helical bevel geared motors 0,12 ... 30 kW
- Shaftmounted helical geared motors 0,12 ... 30 kW
- Worm gears 0,37 ... 5,5 kW
- Elektromagnetic clutches+ brakes
- Spring-applied brakes
- Permanent-magnet clutches + brakes

## **Application-Know-How**

- Info material-handling 
- Info wood processing
- Info plastic machines
- Info food processing technique
- Info lift technology
- Info positioning
- Info pumps and fans
- Info textile industry
- Consultation



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