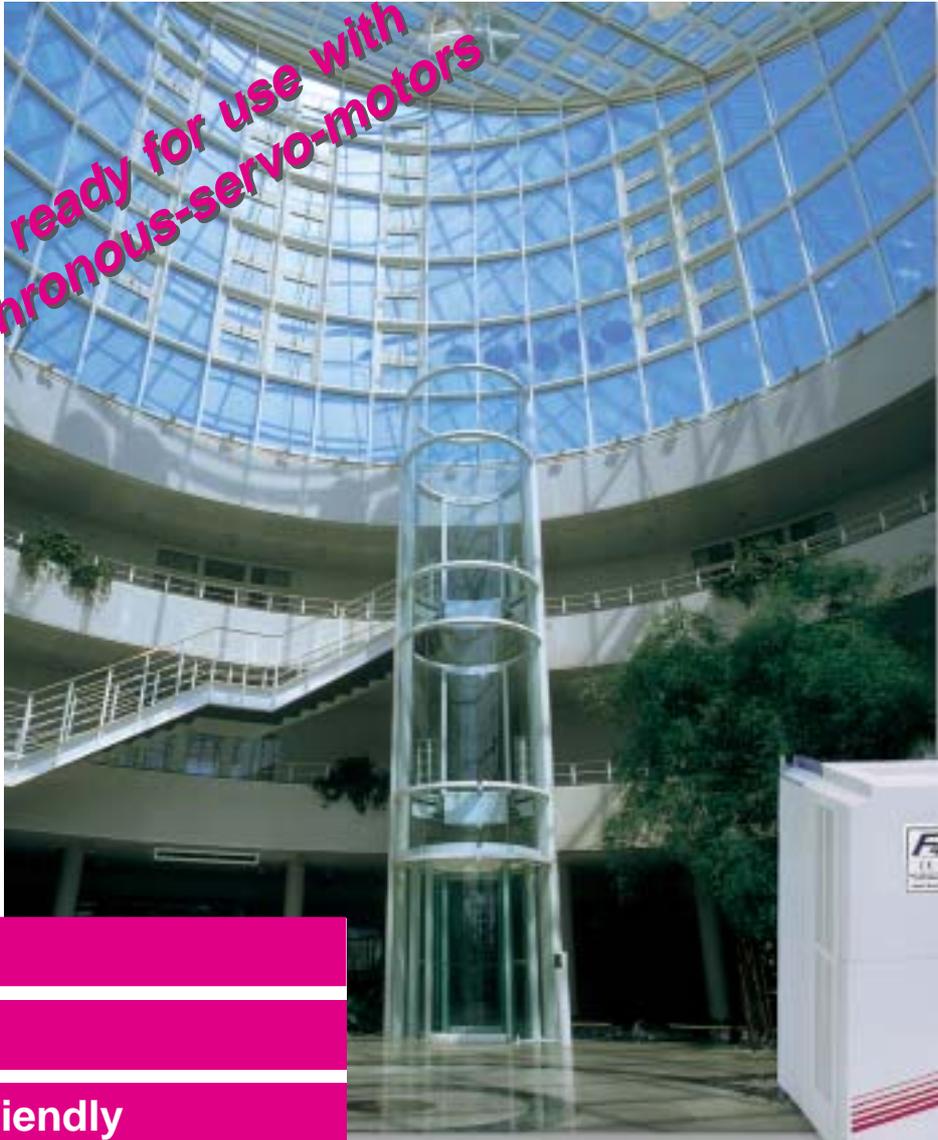


COMBIVERT

*Now ready for use with
synchronous-servo-motors*



Functional

Compact

Operator-friendly

The latest Generation of
Main Lift Drives ...



from Drive Specialists for Handling Systems, Robots, Cranes, Theatre Settings, Passenger and Goods Lifts

● Your benefits

- 12 years of lift experience transformed into a complete series of frequency inverters
- optimal for efficiency improved gear units with standard industrial motor
- drive engineering from specialists
- rugged industrial standards adapted to the lift technique
- cost optimization through large series production
- compliance with the corresponding standards CE, VDE, UL, CSA, TÜV, EMVG, EN81
- worldwide representations with production facilities in Germany, Japan, USA
- energy savings between 30 % and 70 % depending on the drive method and travel frequency



● Special features for the modernization with relaycontrols

- digital outputs for brake and mainswitch-contact
- debounce time before travelling
- waiting time at bouncing of the safety circuit
- contactor control before travelling
- stopping by overspeed
- hardware test before disengaging the brake
- unintended, wrong set value selection is disregarded (applies to servicing-/ positioning rides and re-adjustment)
- delay control output for shortened overtravel paths
- temperature-dependent relay output for the control of a switch cabinet fan saves the installation of a thermostat
- intelligent motor temperature monitoring saves PTC thermistor tripping device, according to EN81

● Special advantages for lift technique and theatre settings:

- complete inverter series from 2.2 up to 90 kW (rated currents from 5.8 up to 180 A) thus suitable even for fast goods lifts
- noiseless power circuits with **IGBT power semiconductors** (clock frequency 16 kHz)
- complete accessory program including interference suppression, serial networking, **energy feedback into mains**, noiseless braking resistors
- proven control procedure, tested in the servo technique, with fast digital signal processors for absolute concentricity at low speeds and optimal ride comfort (**improved flux vector control**)
- option of regulated or controlled operation with and without speed feedback
- best driving comfort with:
 - modernizing of old liftmachines
 - new liftmotors and industrial motors
 - new **synchronous-servo-motors for roomless elevators**
- field weakening operation for optimized drive dimensioning
- user-friendly operation by restriction to necessary parameters
- jerk-free load transfer without load weighing even at highly efficient gear units
- **ogival curve drive** also for different floor to floor distances
- speed setting:
 - analog: $\pm 0 \dots 10V$ or $+ 0 \dots 10V$
 - digital: as set value jump, 6 speeds binary-coded via 3 inputs (save outputs on the control) or 6 speeds via 6 inputs (1 from n)
- thermostatically controlled fan prevents noises and reduces the standby power
- potential-free relay output signals
- **Load measurement/overload detection** together with KEB-two-circuit-fail-save-brake
- **evacuation** with single-phase 230V AC or 230V DC
- Option BUS-communication via CAN, LON, PROFIBUS, INTERBUS, DIN 66019 ...
- flat design (180 mm) for roomless installation
- analogous input for pretorquing



Ask for energy-saving escalator drives!

TELEFAX Reply

Fax (+49) 5263 / 401-145

Sender's Address:

Name: **Company:**

Position: **Street:**

Telephone: **Town:**

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

- Controlled frequency inverters** 0,37 ... 315kW
- Regulated frequency inverters** 0,75 ... 90kW
- Servo systems** 0,2 ... 70Nm
- Inline helical geared motors** 0,12 ... 45kW
- Helical bevel geared motors** 0,12 ... 30kW
- Shaftmounted helical geared motors** 0,12 ... 30kW
- Worm gear** 0,03 ... 9,3kW
- Electromagnetic clutches + brakes**
- Fail-safe brakes**
- Permanentmagnet clutches + brakes**

Application Know-How

- Info Materials-Handling Techn.**
- Info Woodworking**
- Info Industrial Washers**
- Info Food Processing**
- Info Lift Technique**
- Info Positioning**
- Info Pumps and Fans**
- Info Textil Industry**
- Info Escalators**
- Individual Consultation**



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