

# COMBIVERT



open-loop speed control

closed-loop speed control

position control

bus communication

The multi-role drive for handling and warehouse systems ...

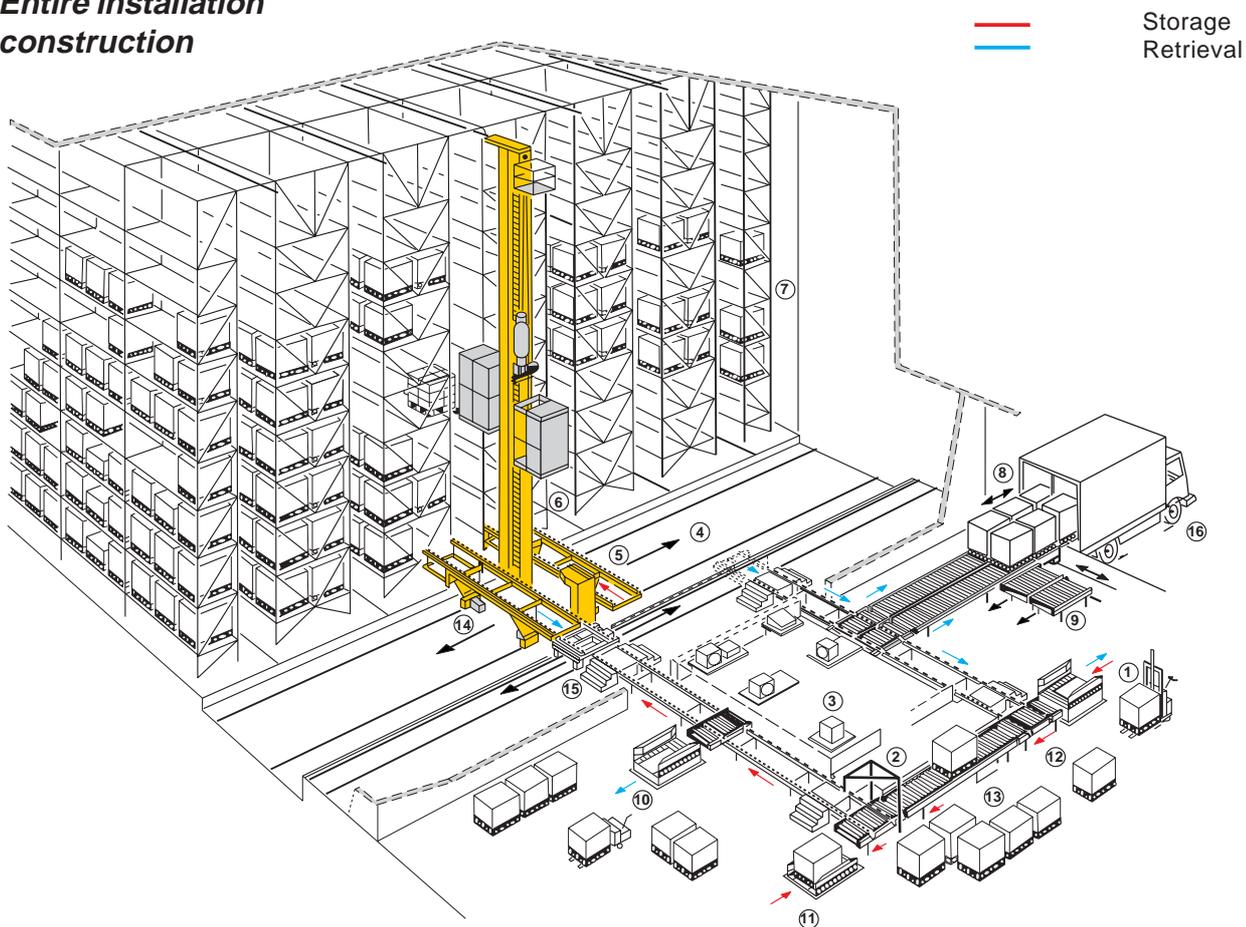


# KEB - the drive specialist for material handling

## ● User benefits

- 15 years of experience result in inverter series F4 and S4
- graduated performance, designed for application
- e.g. : - standard inverter F4-S/C for chain conveyors
  - field-orientated regulated F4-F realize travel, hoist, fork drives, also available with positioning software
  - servo series S4 operate for maximum dynamic at the fork
- identical operator and housing concept for all inverters
- standardized accessory range as operators, BUS components, filters, mains chokes and braking resistors complete the program

## ● Entire installation construction



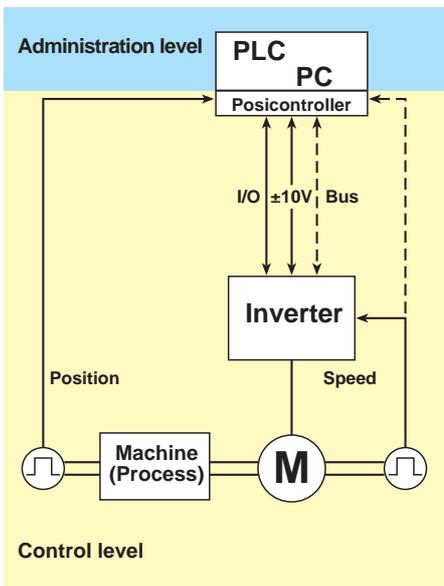
- |                              |                                       |                             |
|------------------------------|---------------------------------------|-----------------------------|
| ① Pallet pick-up and deposit | ⑦ High-bay warehouse                  | ⑬ Roller conveyor           |
| ② Pallet profile gauge       | ⑧ Automatic truck loading / unloading | ⑭ Chain conveyor            |
| ③ Identification point       | ⑨ Buffer stations for truck loading   | ⑮ Distributor               |
| ④ Storage level              | ⑩ Reject pallet ejection              | ⑯ Truck with chain conveyor |
| ⑤ Transfer car               | ⑪ Pallet delivery                     |                             |
| ⑥ S/R machine                | ⑫ Roller lifting table                |                             |

# systems, robots, cranes, theatre construction, lifts

The high-performance frequency inverter **KEB-COMBIVERT** is used for all axes of the ASRS !

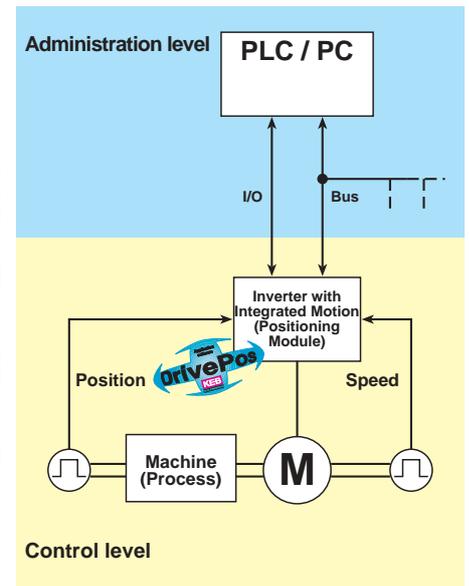
**F4-C** sensorless vector control –**centralized positioning**

**F4-F** field-orientated system with intelligent position control –**decentralized positioning**



**Classical centralized positioning**

Additional hardware resp. appropriate qualified PC/PLC's for the movement control and position administration are necessary when using the classical positioning system.



**Decentralized positioning**

The drivecontroller F4-F DrivePos takes over all relevant tasks concerning the movement control and that's how the host controller is relieved totally from the positioning calculations saving costs and getting an improved behavior of the system.

Via **bus communication** (Interbus, Profibus-DP, CAN, LON) the host control is able to survey all important system data!

**Feedback** of generative energy into mains via DC-coupling and regenerative system KEB-COMBIVERT R4 ensures energy-optimized work!

**Advantages:**

- userfriendly
- professional positioning
- reduced control cost
- high flexibility
- systemdata in m, mm, m/s, m/s<sup>2</sup>, m/s<sup>3</sup>
- bus communication

## 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 kW ... 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**
- Advisory service**



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