AC - DRIVE SYSTEMS

for battery-powered vehicles

We put ideas into gear.
ABM Greiffenberger Antriebstechnik

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Applications

- Counter balance forklifts
- Pallet, narrow aisle and reach trucks
- Automated guided vehicles (AGV)
- Sweeper / scrubbers
- Golf Carts
- Tow tractors

Helical Gearbox (TDF-Series)

- Highly efficient
- Cost-saving gearbox concept
- Available in high protection class
- Maintenance-free drive system
- Easy installation in vehicle

Bevel Gearbox (TDB-Series)

- Tight turning radius
- Available in high protection class
- Designed for heavy static loads
- Maintenance-free drive system
- Motor can be installed fixed or turning
- Available with integrated steering drive

Hub Wheel Drive (TDH-Series)

- Compact design
- Tight turning radius
- Easy implementation into vehicle
- Available in high protection class (IP 54 optional)

Traction Drives for Pallet Trucks

ABM traction drives excel in the following important areas:

- Highly efficient
- Completely maintenance-free
- Outstanding driving dynamics
- Extended battery life due to high efficiency and regeneration
- Dynamically and precisely controllable

ABM traction drives are available in three gearbox designs. The following brief overview highlights the most important advantages.

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We put ideas into gear.
Traction Drives   Lifting Drives      Steering Drives

Power in KW

16 kW
25 kW
1,2 kW

ABM guarantees maximum supply readiness by carrying from the development phase to series production to meet your needs. Our AC pump motors with outputs up to 25 kW are available to power your hydraulic pumps. Custom interfaces to allow direct mounting of ABM motors by your pump can be realized.

Division Battery-Powered Drives

Our world are the battery-powered drives and motors. Traction drives, pump motors or steering drives, level gearboxes, helical gearboxes or half wheel drives - no matter what vehicle drive feature, our customers always receive the optimum systems for their applications. Having a suitable drive solution available early in the development phase is the key point to success. Our traction drives can be purchased in smaller batches.

Lifting Drives

ABM complete-traction drives with outputs up to 4.9 kW power pallet trucks and forklifts with capacities up to two tons. Beyond that AC motors for lift applications with outputs up to 19 kW are available. All our traction drives can be equipped with ABM electromagnetic brakes.

Steering Drives

Steering drives can be applied as traction drives integrated solutions or self contained drive packages. The integration solution reduces the space costs and necessary space of mounting components. This results in substantially lower assembly time and cost.

ABM steering drives meet protection class IP54 and can be operated with commercially available AC controllers.

Product- und Systems Expertise

ABM manufactures AC Drives for material handling applications since 1983. We are a leader - with in-house electronics, the cast department and tool shop - in developing and manufacturing aluminum gearboxes for pallet truck drives. Using the latest engineering software, possible problem areas in know how are being recognized and eliminated before the first cast run resulting in continuous high cast quality.

In-house manufacturing of high speed AC induction motors with outstanding efficiencies and gearboxes with two-stage gearing results in optimum integrations of engines and compact drive systems. Advantage for our customers: Smaller drive envelopes offer new design freedom for other components or chassis layout. Our traction drive with integrated steering wheel is a perfect example of this concept.

New products must already meet high quality controls during the development phase to assure that all components are designed to optimally fulfil their function. On our own test stands motors and gearboxes must demonstrate that the high design demands will be met or exceeded in real life - from life cycle testing to series production.

New cognitions in gear manufacturing or improved manufacturing technologies are being incorporated into existing series production.

Our traction drives for pallet trucks excel as completely maintenance-free, highly efficient and of modular design throughout the entire life of the vehicle. This assures better drive behavior and extended battery life.

Contact us - we look forward to working with you!

ABM AC-Drives in Action ...

Application Pallet Truck:

Our counter balance forklift with battery-powered drive system contains two traction drives, pump motors with interfaces for most popular gearboxes and electromagnetic brakes. Based on a modular design concept complete drive packages can now take advantage of attractively priced drive packages that are being recognized and eliminated before the first cast run. Our traction drives can be purchased in smaller batches.

Application Counter Balance Forklift:

Our counter balance forklift with battery-powered drive system contains two traction drives, pump motors with interfaces for most popular gearboxes and electromagnetic brakes. Based on a modular design concept complete drive packages can now take advantage of attractively priced drive packages that are being recognized and eliminated before the first cast run. Our traction drives can be purchased in smaller batches.

Application Orderpickers:

Our orderpicker drives are fully customized solutions to our customers. This results in advantages for our customers by reducing assembly time and relaxing tolerance requirements for existing components.

Application Overheadcranes:

Our overhead crane drive system contains complete drive solution for hoisting and steering as well as ABM motors for hoisting and steering blocks. With our complete line of level gearboxes with traction motors and brake and integrated steering drives we fully meet the requirements of your terminal and gantry crane applications.