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# Modular & Reliable

# **Bevel Gear Drives TDB-Series**

# Compact platform with the highest level of integration.

As a system supplier, ABM Greiffenberger offers all drive components for forklift truck traction, lifting and steering from a single source.

These components meet strict environmental requirements, are particularly safe and enable sensitive movements even at low speeds.

Over the complete speed range the pallet trucks can be smoothly steered

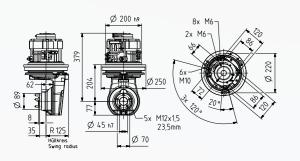
- in doing so the steering stays dynamic. **Manual or electric steering** versions are available. A **fully integrated drive unit** can be supplied and consists of **electric steering** and redundant steer motion monitoring directly on the drive wheel.

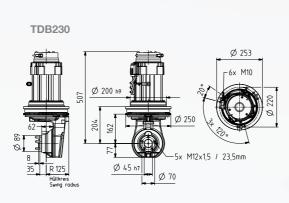
- · High systems integration
- · Series with various options
- · Plug-and-play
- High power density and efficiency
- Sustainable by energy recuperation
- · Quiet, durable and compact
- High gradeability and acceleration
- · Small outside circle radius

### **TDB230L & TDB230**

Traction drive with integrated AC induction motor. Holding brake, four point bearing and speed sensor. Battery voltage 24 Volt, motor power up to 2.3 kW.

TDB230L

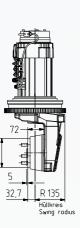


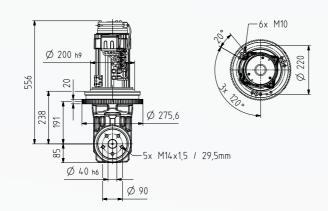




# **TDB230/254 Kombi**

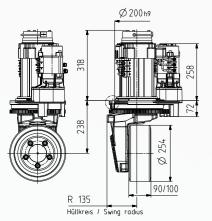
Traction drive with integrated AC induction motor. Holding brake, four point bearing and speed sensor. Suitable for wheel sizes 230 & 254 mm. Battery voltage 24 - 48 Volt, motor power up to 3.5 kW.

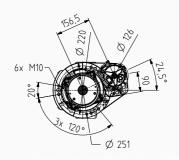




# **TDB254** with integrated Steering

Traction drive with integrated AC induction motor and integrated helical steering drive. Holding brake, four-point bearing, drive and redundant steering sensors integrated. Battery voltage 24 – 48 Volt, motor output up to 3.2 kW.







# Bevel Gear Drives TDB-Series



#### **Benefits**

- · Complete motor-brake-gearbox-unit
- · Application specific motor selection
- Rotating traction motor for manual steering or fixed traction motor for electric steering versions
- Temperature monitoring
- Motor speed recording
- Sustainable by enery recuperation
- · Electromechanical holding brake for parking and emergency stopping

## **Options**

- · Steer monitoring via various sensors
- Redundant monitoring of steering motion (retrofit possible)
- Traction motors for battery voltages from 24 to 48 V

# **Application Examples**

- Pallet jacks
- Automated guided vehicles
- Order pickers
- Stackers
- Reach trucks
- · Assembly platforms



Pallet jacks

### **Technical Data**

| Bevel Gear Drive           | TDB230L   | TDB230   | TDB230/254 Kombi | TDB254 with<br>integrated Steering |
|----------------------------|---|----------|------------------|------------------------------------|
| Gearbox Data               |   |          |                  |                                    |
| Static Wheel Load          | 11,250 N  | 12,000 N | 16,000 N         | 16,000 N                           |
| Gear Reduction Ratios      | 18 – 30   |          | 18.4 – 25.5      | 15.6 – 24                          |
| Max. wheel torque (static) | 435 Nm  | 615 Nm   | 750 Nm           | 650 Nm                             |
| Motor Data                 |   |          |                  |                                    |
| Output (S2-60 min)         | 1.5 kW  | 2.3 kW   | 3.5 kW           | 3.2 kW                             |
| Rated voltage              | AC 3x15 Volt Delta Connection (24 Volt battery) AC 3x22 V Delta Connection (36 Volt battery) AC 3x28 V Delta Connection (48 Volt battery) |          |                  |                                    |
| Max. Amperage              | 146 A   | 350 A    | 400 A            | 380 A                              |
| Brake Data                 |   |          |                  |                                    |
| Voltage                    | DC 24 V   |          |                  |                                    |
| Torque                     | 16 Nm 45 Nm   |          |                  |                                    |

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# Dynamics for every Application - and Task We drive the World

A dense network of international subsidiaries and sales offices in all major industrial countries ensure close contact with our customers around the world – and guarantee an excellent standard of service.

Kindly contact us for further detailed information.



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