



The vertical drive unit (VD) is an ideal choice for almost any indoor electric vehicle with a wheel load up to 4200kg. The design minimizes the space needed under the vehicle. All components except for the wheel and gear are protected inside the vehicle body which allows for less complicated wiring and simplified maintenance.

Depending on the requirements, the VD can be equipped with a DC or AC traction motor. The unit can be produced with or without electric steering mechanism.

To allow different safety and functional solutions, the VD can be equipped with additional axels on motors and gears for mounting of encoders or other equipment. Other options include limit switches, mechanical stops, potentiometers and electromagnetic brakes.

Depending on the application, different wheel materials may be selected. The most common choices are Vulkollan or Tractothan.

Regal can provide a variety of dimensioning and construction services and offer the VD as a bolt-in solution complete with motor controllers and all necessary wiring.

SPECIFICATIONS

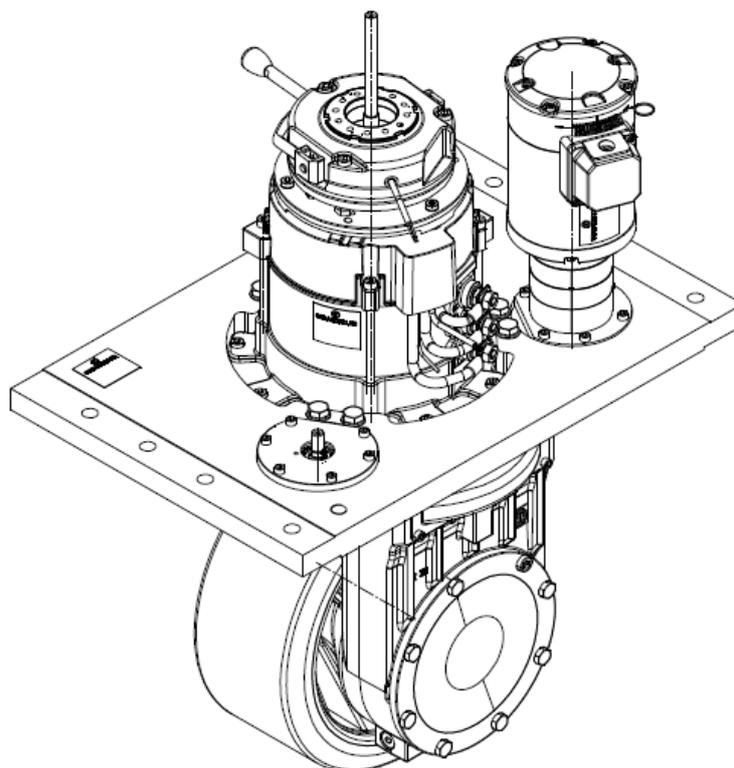
Motor type	DC or AC (traction and steering)
Traction power	Up to 8kW
Wheel load	1000kg to 4200kg
Battery voltage	24V or 48V
Typical applications	AGVs, AGCs, Forklift trucks, Mobile platforms

2016-06-23, specifications subject to change without notice

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MIWD Size	Wheel load	Voltage	Total height	Max speed	Max power
23	1100 kg	24/48 V _{DC}	600 mm	12,0 km/h	2,50 kW
25	1650 kg	24/48 V _{DC}	650 mm	11,0 km/h	2,50 kW
35	2600 kg	48 V _{DC}	800 mm	13,0 km/h	5,50 kW
40	3400 kg	48 V _{DC}	950 mm	16,0 km/h	8,00 kW
41	4200 kg	48 V _{DC}	1100 mm	17,0 km/h	8,00 kW

This table shows a number of possible configurations for the VD (all values are approximate). Other configurations are available, contact Regal to find the right one for you.

SAMPLE ILLUSTRATION (unit with brake, shaft on traction motor and position gear for supervision encoders)

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