



Diesel Locomotive

DHD25



The diesel hydrodynamic (DHD) locomotives are available in the range of 15 to 45 tonnes.

Technical features

- High speed
- High traction force
- Easy to customize
- Can easily be prepared for tandem operation
- Hydrostatic solution
- Easy to service and maintain
- The chassis and cabin are made of heavy-duty plate joined together with continuous welds for maximum fatigue strength.
- The end plates consists of very thick plate adaptable to most occurring couple variants.
- The hood plates are made of thick bent plate.
- The DHD has a solid carrying axle with centre mounted conical bevel gear. The gear steps are of precision milled and lapped gear wheels in pairs. The gear housing is in cast steel with solid conical roller bearings.
- The wheel axle is carried in spherical roller bearings in the axle boxes. The bearing is tightened with labyrinth and sleeve cover.
- The axle suspension is a service free rubber element of "Chevron" type mounted directly on the axle box.
- The wheels are of "solid wheel type" with rolled steel design and shrinkage fit between wheel and axle.
- The DHD has a pneumatic brake system with fiber brake shoes acting directly on all wheels. The DHD25 has two brake shoes per wheel. The spring suspended parking/emergency brake of safety type is automatically applied when the air pressure falls.
- The locomotives have pin couplers, Willson.
- The cabin has a folding door. The front window of the cabin is supplied with windscreen wiper and washer. There are one portable fire extinguisher located in the cabin.
- The drivers seat is supplied with adjustable armrest.
- The operating system of the DHD can be a PLC system or a traditional system.

Standard

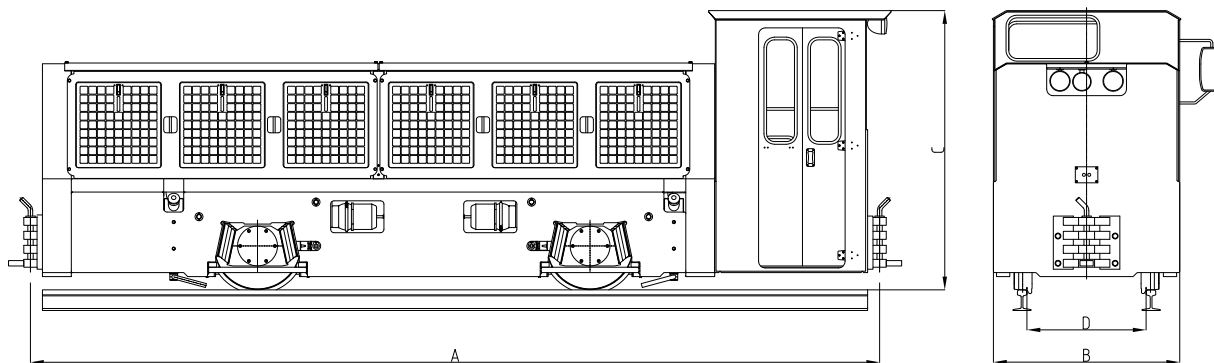
CE mark according to European standards.

Options

- Particle filter, Dinex
- Wagon brakes
- Sanding equipment
- Sprinkler system, FOGMAKER
- Willson couplers or similar
- Climate system
- Camera and monitor
- Radio controlled
- Tandem drive
- Additional cabin for rolling stock

Other options and dimensions on request.

Technical data



Engine

Deutz water cooler engine including silencer and catalytic purifier.

Standard electric system

Voltage	24 V
Battery capacity	2 x 180 Ah
Generator capacity	55 A
Loud-tone horn	1x24 V 335 Hz

Lamps, 4 white and 2 red (changing when driving in rear direction)

Transmission

Clark, full power shift transmission with torque converter and gear box with 2 or 3 stages forward and reverse, gear through hydraulic wet disc clutches.

Converter with lock-up function gives good high speed performance and good motor brake.

Speed forward/reverse

Engine and transmission	165 kW	184 kW
	32 000	36 000
Gear 1	0-10 km/h	0-13 km/h
Gear 2	0-19 km/h	0-31 km/h
Gear 3	0-33 km/h	

Volume Data-service

Engine oil volume	21 dm ³
Fuel tank	230 dm ³
Axle gear/each	14 dm ³

Functional data

Brake area	500 cm ² /wheel
B.P, brake $\mu=0.16$	approx. 40 kN (4000 kp)
B.P, parking/emergency brake $\mu=0.13$	approx. 33 kN (3300 kp)

Dimensions and weights

Total length (A) excluding couplers	6 204 mm
Width (B)	1 400 mm
Total height from rail (C)	1 706, 2 100 mm
Gauge (D)	750 - 900 mm
Weight	25 000 kg
Wheel diameter	660 mm

Contact us for further information.

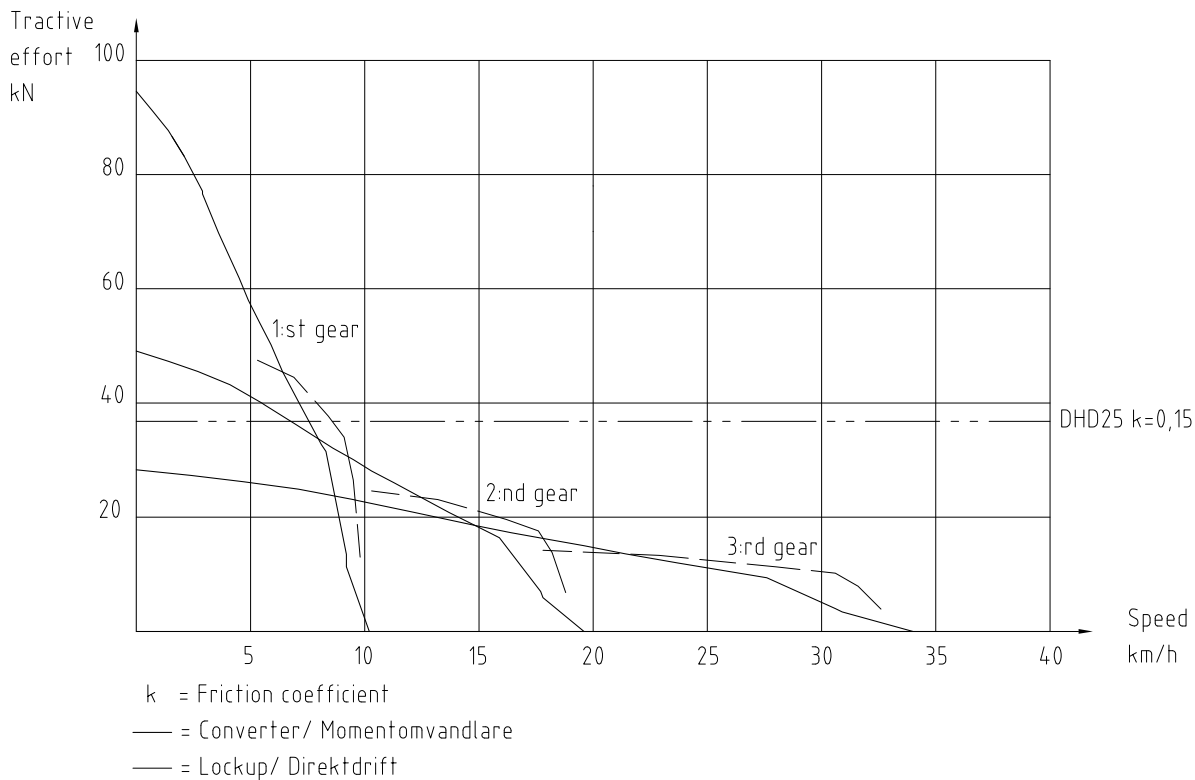
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Engine: Deutz

Type: BF06M1013C, 165 kW @ 2300 rpm.

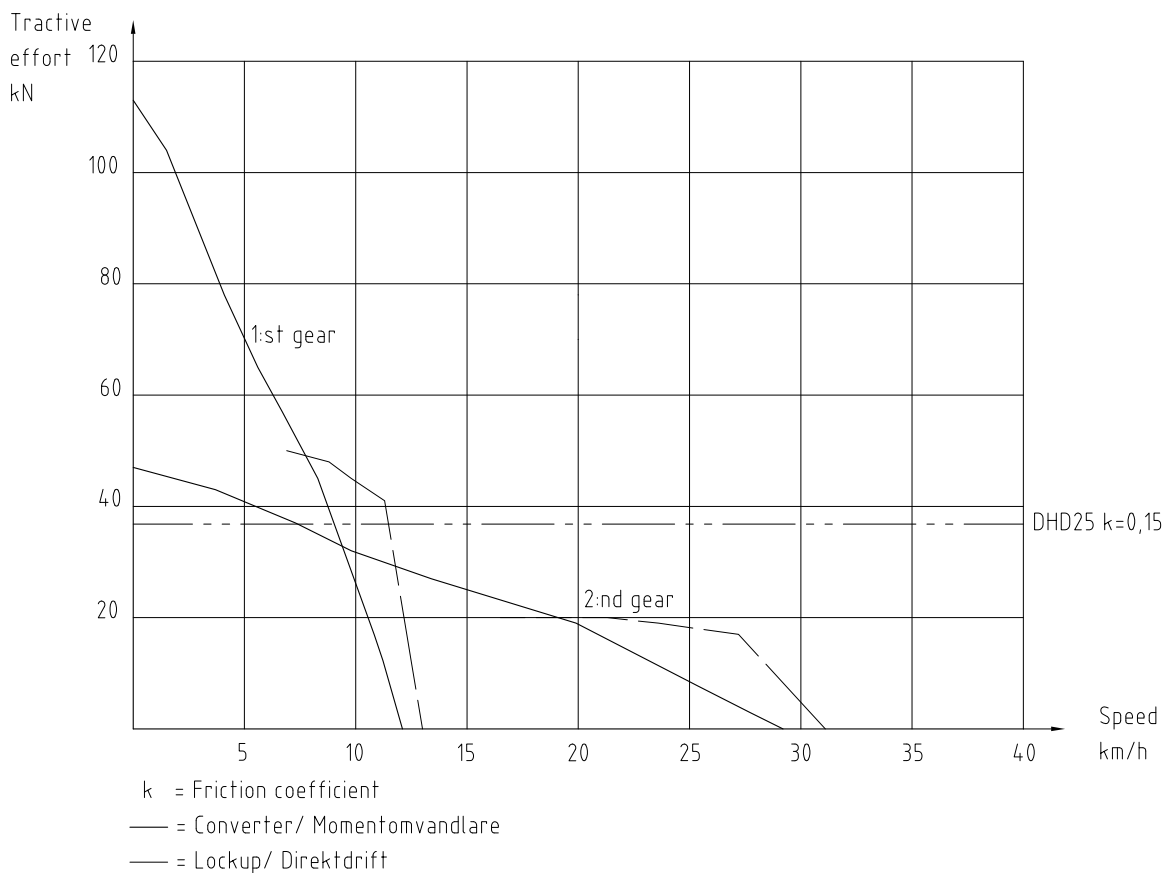
Transmission: Clark 32 000



Engine: Deutz

Type: BF06M1013CP, 184 kW @ 2300 rpm.

Transmission: Clark 36 000



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