

PIONEER ONE – 18 T 4X2 WITH SWAP BODY SYSTEM WITH KEYOU-INSIDE HYDROGEN ENGINE

Drivetrain

Engine	KEYOU-inside H2 engine based on DEUTZ TCD 7.8
Engine displacement	7.8 l
Cylinder	6 in-line
Max. power	210 kW
Max. torque	1,000 Nm
Transmission	Allison 3200PR 6-gear automatic
Exhaust gas aftertreatment	not necessary (emissions < EU VI)

Hydrogen storage system

Pressure level	350 bar
Range	Depending on customer requirements, between 350 km and 600 km
Filling time	Approx. 20 min
Hydrogen storage system position	Behind driver's cabin

Vehicle

Chassis	Actros 1835 L 4x2
Cabin	M-Cab ClassicSpace, 2.30 m, tunnel 320 mm
Empty weight (incl. frame for C74S swap body system)	8,020 kg
Payload	Approx. 9,980 kg (depending on body type)
Max. total permissible weight	18,000 kg
Wheelbase	5,800 mm
Overall height (without swap body)	3,459 mm
Total length	10,560 mm
Total width	2,500 mm
Brakes	Disc brakes on front and rear axle
Brake system	Electronic braking system with ABS and ASR
Permanent brake	Retarder
Steering	1-circle
Drive axle	Rear axle
Suspension front axle	7.5 t, steel, 1-blade
Suspension rear axle	13.0 t, ring gear 440, hypoid, air
Axle load distribution, unloaded	64 % / 36 % fa / ra
Trailer coupling	Rockinger D40
Max. trailer load	10 t
CO2 emission class	5

A white Volvo FH540 truck with a white trailer, parked on a paved area next to a building. The truck is facing right, and the building is on the left. The sky is clear and blue.

