



## Technical specification semi-trailer tractor FH500 42T HA, 2023

### Vehicle use

Freeway traffic, road in good condition Less than one unloading/loading per 50km Slope<6% during 98% of the journey, max.slope 16% Ambient temperature up to +40 deg. C Ambient temperature up to -25 degrees. C Height of the center of gravity, basic, approx. up to 1.6 m Operation under 10% in dusty/polluted environment Weight of the set 44 tons Vehicle construction for body width 2600 mm MSP - Czech Republic

### Main components

Medium chassis, approx. 900 mm  
Single drive axle, air suspension  
Globetrotter XL FH cab  
Wheelbase 3800 mm  
Emissions level EURO 6 SCR + PC filter + EGR  
Euro 6  
Engine D13K 500 HP, EGR + SCR, Euro 6  
D13S 500 HP FUELFACE engine  
Engine brake VEB+  
I-Shift transmission, 2600 Nm, 12 speeds Single rear axle, 13t/44t, E version Drive axle tire size 315/70  
Rear axle gear ratio 2.31  
  
Diesel

### Packets

Fuel economy package D13  
Intelligent ECO cruise control, fuel saving software  
I-See using map materials, maps prepaid for 5 years  
Variable Flow Power Steering Version 2 FUELFACE  
  
Set of aerodynamic spoilers  
Standard side underrun protection  
Roof spoiler



Side spoilers of the cabin, longer design  
Inter-axle spoilers  
Additional equipment of inter-axle spoilers

Package Driver +

Skylight, electric opening, tinted glass  
Sun blind, electrically controlled  
Adjustable steering wheel, 3 ranges  
Side sun visor, driver and passenger  
Automatic air conditioning with air quality sensor  
Arm rests on both sides of the driver's seat. Storage  
slide-out drawer in the lower center part of the instrument panel  
Vinyl covered armrests

Relaxation package, 2 beds

Mattress cover - basic 2 bottle  
holders, by the bed and dashboard  
Bottom bed, 800 mm  
Upper bed, 700 mm, height adjustable  
Independent heating, warm air  
Refrigerator under the bed, 33 liters  
Interior lighting, white/red, with dimming control

Media package with side display, navigation and Volvo Connect support

Dynamic digital 12" display + 9" side display 6 speakers (2  
doors, 2 deck, 2 bed)

Package Visibility 5 ++

El. controlled and heated rear-view mirrors, corner camera on the passenger side Rain  
sensor Static  
cornering headlights LED adaptive  
high beam headlights Angle adjustment of  
main headlights, automatic Main headlight washers

Optimum charging package, including battery charger (FUELFACE)

Alternator 24V (180A), FUELFACE  
Independent air conditioning I-Park Cool  
Battery disconnecter, remote control  
Gel batteries, 2 x 210 Ah  
Battery - charge status indicator  
Battery conditioner

Dual battery system (2x starter, 2x accessories)  
Calix battery charger for BATS-D

### Chassis design

Front axle sprung with parabolic springs Front axle load  
7.5 t Front stabilizer, medium  
stiffness  
Rear axle load 13 t Rear stabilizer,  
normal stiffness Air suspension, 3 travel  
levels Disc brakes, solid discs Rear axle,  
disc diameter 410 mm EBS  
program, medium Additional parking brake Air  
suspension Frame profile  
266 mm

Frame thickness 6.5 mm

Battery compartment on the left side of the vehicle

Right tank 610 L, Alu, D shape

Left tank 405 L, Alu, shape D

Fuel tank, basic ground clearance (clearance)

AdBlue tank 112 liters (710 mm)

AdBlue tank on the left

Lockable fuel tank cap

Anti-fuel spillage device

Horizontal muffler under the vehicle

Insert wedges, 2 folding

Boot wedges, located in the front of the vehicle

Marker lights, rear and side

Rear overhang length 825 mm

Towing/recovery pin at the front

Trailer connection, 2x7 pole

Brake hoses for trailer/semi-trailer

Ramp for connections behind the cabin

Trailer brake control, up to 4 km/h

Fenders - according to the requirements of EU legislation

Rear wheel covers (mudguards), basic version

Wheel cover height, basic setting

Antispray aprons

Steel air tanks

Rear lights, LED design

Brake lights, warning function

#### **Wheel Rims and Tires Steel**

Rims Front Axle,  
385/55R22.5 Tire Rolling Resistance,  
Front Axle, Class A Goodyear FUELMAXSPERFO, M/S,  
3PMSF, Long Haul Drive Axle, 315/70R22.5 Tire Rolling Resistance,  
Drive Axle, Class A Goodyear  
FUELMAXDPERFO, M/S, 3PMSF, Long Haul Jack 15 t

Complete set of tools

Tire inflation hose

#### **Powertrain components Bleeding**

pump, manual EURO 6, grade E I-Shift, shift  
controller next to the  
driver's seat Manual shifting in automatic I-Shift  
mode, including kickdown function Software package for I-Shift, basic PTO function  
basic for I-Shift Cooler transmission oils,  
water/oil 2-cylinder compressor,  
1100 l/min Compressor with automatic  
clutch Increased air intake (on top of  
cab)

Single-stage air cleaner External  
noise level according to EHK 51.03, level 2 + "L" certificate (SIGN-L)  
Gearbox use - for normal operation Fuel  
filter heated by fuel recirculation  
Auxiliary starting device - glow  
Oil sump, plastic Driving  
mode "Balanced and Economy"  
"Performance" mode, auto. return to "Economy" mode

#### **Cabin interior, steering**

DPF regeneration - automatic  
AM/FM and Digital Audio Broadcasting (DAB) audio signal  
USB port, 3x  
Left hand drive vehicle  
leather steering wheel  
Digital tachograph (GNSS & DSRC - satellite)  
Speed limiter, 90 km/h  
ESP, type BAS1, standard center of gravity height

Collision warning system, emergency brake  
Adaptive traction - Active Grip Control system  
LKS - lane guarding  
Immobilizer  
Additional DIN slots in the top shelf  
Reversing sound signal  
Preparation for mounting the OBU  
Two warning triangles  
A set of light bulbs and fuses  
Driver's manual in Czech  
Stickers/labels English/German  
Only one driver's manual  
Steering wheel writing pad  
Activation of the VAS service, with a voice channel

**Cabin interior, driver conditions Upholstery**

- Leather/Textile - Progressive (FH)  
Comfort driver's seat, heated, ventilated, belt Seat belts in black  
Passenger seat comfort, sprung, belt  
Handle for getting into the cabin, basic Mats in the  
cabin, rubber Bed mattresses, hard, foam,  
over 100 kg Curtains around the  
windows Rear upper part of the cabin - maximum  
storage space 2 reading  
lights, flexible Cosmetic mirror in the upper shelf TV  
preparation set Extra noise/heat  
insulation of the cabin, reinforced

Tinted cabin window glass

**Cabin exterior**

Vehicle height up to 4 m  
Cabin exterior - top version, version 2 (painting)  
Cabin color 1110WHIT (SIGNAL WHITE) white  
Tempered cabin door glass  
Remotely controlled locking of both doors  
Front bumper, plastic  
Front bumper spoiler  
Front underrun protection  
Protection against insects  
Manual cabin folding

Mechanical suspension of the front part of the cabin  
Mechanical suspension of the rear part of the cabin  
Front mask, lockable  
Additional mirror above the front glass, radius 200 mm  
External sun visor  
Automatic light switching  
Daytime running lights, "V" shape, LED technology  
White front fog lights  
Two grommets in the roof for cabling  
Globetrotter lettering in the roof box  
JERICHO pneumatic horn behind the front mask  
Roof antenna for CB  
\* Emblems (performance, "L") stored in the cabin  
Issue, emblem  
"L" certificate

#### **Preparations for superstructure**

Without additional switch  
L-PRO fifth wheel storage  
Height of the legs of the turntable 160 mm  
JOST JSK 42 fifth wheel  
Basic fifth wheel maintenance - fifth wheel lock and  
plate King pin diameter 50 mm (2.0")  
Turntable located 575 mm in front of the rear axle Covering  
the chassis frame behind the cab, basic Work lamp behind  
the cab for illumination of the fifth wheel, white  
BBM add-on module, function with 11 dig. outputs Trailer  
detection with LED sensor Extra holes for  
storing the fifth wheel (5WM-LPRO)

#### **Services**

Assistance button and microphone, VAS  
Telematics gateway, 4G/LTE and WLAN  
FMS - data bus  
Map materials for I-See, prepaid for 5 years

#### **Other**

Dimensions and weights according to 1230/2012/EU  
Braking according to EHK 13-11 (WVTA compliant)  
External protrusions according to EHK 61  
Destination - Czech Republic

Vehicle lighting according to EHK 48  
Specifications with legislative control  
WVTA, EU type approval