

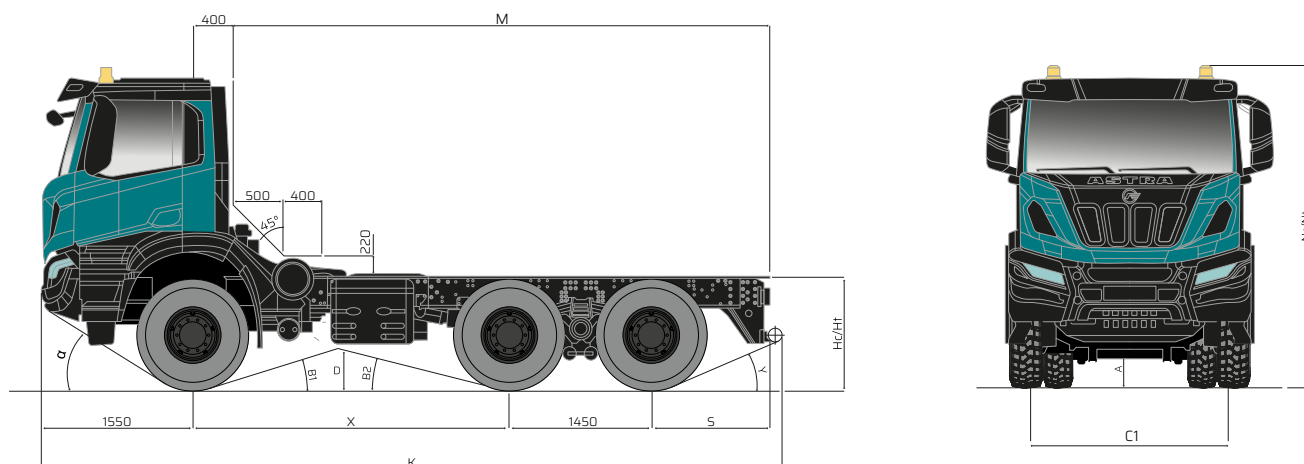
HDX



HDX 6X4 Euro VI – Chassis
July 2024



HDX - TECHNICAL SHEET



DIMENSIONS (mm)

Wheelbase (X)	3200	3500	3800	4100	4500
Max length (K)	7532	7832	8132	8432	8832
Overhang (S)	1200	1200	1200	1200	1500
Max body length (M)	5450	5750	6050	6350	6750
Max width	2550	2550	2550	2550	2550
Frame height from ground (H) unloaded	1200	1200	1200	1200	1200
Frame height from ground (H) loaded	1130	1130	1130	1130	1130
Minimum ground clearance front (A)	430	430	430	430	430
Overall height (N) unloaded	3360	3360	3360	3360	3360
Turning diameter (wall to wall)	18500	19500	20500	20900	22700
Approach angle (a)	33°	33°	33°	33°	33°
Departure angle (y)	26°	26°	26°	26°	26°

Note: dimensions with std tyres 13 R22.5. Max body length value is indicative and must be verified with body builder

WEIGHTS (kg)

Wheelbase (X)	3200	3500	3800	4100	4500
Net weight	10290	10320	10355	10370	10415
Front axles net weight	5365	5390	5510	5590	5720
Rear axles net weight	5025	4930	4895	4780	4695
Gross Vehicle Weight (GVW)	40000 (2)				
Front axles max technical load	8000 9000 (1) (2)				
Rear axles max technical load	32000 (2)				
Gross Combination Weight (GCW)	56000 manual gearbox no interarder 60000 automated gearbox TX26XX T0				

Net weight includes the driver's mass and the vehicle's mass with fuel tanks filled to at least 90%, equipped according to the manufacturer's standard specifications, and if installed, the mass of the body, spare wheels, and tools

(1) With front axle tyres 385/65R22.5 or 325/95R24, reinforced springs, and 510 mm diameter steering wheel (OPT)

(2) With 325/95R24 tyres or a maximum speed of 70 km/h depending on the type and brand of tyres

ENGINE

- **CURSOR 13 TURBO INTERCOOLER** electronic common rail engine with HI-eSCR system
- Single block head, four valves per cylinder, lightweight alloy pistons
- **Total displacement:** 12,882 cm³
- **Bore per stroke:** 135 x 150 mm
- 6-cylinder in-line
- Water-cooling
- Dry air filter with safety cartridge

	64.45	64.51	64.57
Model	Cursor 13		
Max power (EEC)	332 kW (450 HP)	375 kW (510 HP)	419 kW (570 HP)
Corresponding rpm	1900		
Max torque (EEC)	2.200 Nm (224 kgm)	2.300 Nm (234 kgm)	2.500 Nm (254 kgm)
Turbine	VGT (Variable Geometry Turbine)		

GEARBOX

- Manual gearbox **ZF 16 S 25XX TO**, Ecosplit technology with Servoshift, 16 synchronized forward gears + 2 reverse gears
- **On request:** automated **ZF 12TX 26XXTO** with or without Intarder, 12 forward gears + 2 reverse gears

Gearbox model	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	REV1	REV2
16 S25XX TO	13.8	11.54	9.49	7.93	6.53	5.46	4.57	3.82	3.02	2.53	2.08	1.74	1.43	1.2	1	0.84	12.92	10.8
12 TX 26XX TO	12.92	9.98	7.69	5.93	4.56	3.52	2.83	2.18	1.68	1.30	1	0.77	-	-	-	-	12.03	9.29

CLUTCH

Single dry plate, diameter 17"

TYRES

Tyres	Anteriori	Posteriori	Type
Standard	13. R22.5	13. R22.5	Twin
Optional	385/65 R22.5	315/80 R22.5	Twin
Optional	315/80 R22.5	315/80 R22.5	Twin
Optional	325/95 R24	325/95 R24	Twin

- Spare wheel on the chassis
- Other possible combinations in the commercial product offering
- Other tyres available, subject to approval by Astra's technical office

AXLES

FRONT

- Steering axles in high tensile steel
- Wheel stud protection

REAR

- Two tandem axles with double reduction gear: central reduction with bevel gear, final reduction in the wheel hubs through an epicyclic gear. The intermediate axle is equipped with a torque distributor between the two axles. Lockable differentials controlled from the driver's seat. The tandem is assembled to the chassis with reaction rods equipped with silentblock
- **On request:** rear-axle ratio 1:4,229; 1:5,009; 1:5,558; 1:6,095; 1:6,588

BRAKES

- **Front and rear drum brakes "duo-duplex"**
- **Service brake:** pneumatic with 2 independent circuits and an electronic control and regulation system for pneumatic solenoid valves (EBS) that manages anti-lock braking (ABS) and traction control (ASR) functions
- **Parking brake:** hand-operated mechanical spring brake with pneumatic control acting on the wheels of the 3rd and 4th axles
- **Engine brake:** decompression engine brake (Iveco Turbo Brake) with triple activation control
- **On request:** front disc brakes

SUSPENSIONS

FRONT

- Reinforced parabolic springs, 4 leaves 24x90 mm, with hydraulic shock absorbers
- Standard stabilizer bar on the 1st axle
- **On request:** reinforced parabolic springs, 5 leaves measuring 24x90 mm for 9-ton capacity

REAR

- Parabolic springs, pivoting on a central pin: 4 leaves 40x100mm
- **On request:** stabilizer bar on the 2nd axle; stabilizer bar on the 3rd axle; extra-reinforced semi-elliptical springs, 10 leaves 25x100 mm

CAB

- New white cab made of galvanized steel, hydraulically tiltable up to 60°; three-point cabin suspension, guiding arms, double-action shock absorbers, anti-roll bar, and end-of-stroke pads
- New motorized and electrically heated rear view mirrors and front mirror
- New high-efficiency aerodynamic A-pillar
- Fully washable and fireproof interiors
- New 450mm diameter steering wheel with a start/stop button
- New onboard instrument panel with a fully digital 10" TFT cluster and a 7" DAB radio
- Two USB ports on the dashboard
- Manual air conditioning system
- Driver's seat with pneumatic suspension and passenger's seat with mechanical suspension
- **On request:** automatic air conditioning system

ELECTRICAL SYSTEM

- Voltage: 24 V
- Alternator generator: 90 A - 28 V (2520 W)
- Accumulators: 2 standard, 180 Ah
- Starter motor: 24 V 5,5 kW
- Mechanical controlled electrical circuit breaker

CHASSIS

- Made of special steel with high tensile strength limit, consisting of two parallel flat side members (width 820 mm) with a C-section (320x90x10 mm), joined together by bolted cross members. R.B.M. (Rail Bending Moment): 202,020 Nm (20,593 kgm)

SAFETY

ALC - Alcohol Lock Preparation

- Standardized interface facilitating installation of original or compatible aftermarket alcolock devices

BSIS - Blind Spot Information System

- Detects road users moving at speeds between 5-20 km/h in the vehicle's passenger-side blind spot, activating visual and acoustic alarms

MOIS - Departure Monitoring System

- Detects road users near the vehicle's blind spot, activating visual and acoustic alarms

TPMS - Tire Pressure Monitoring System

- Alerts the vehicle operator to potentially dangerous changes in air pressure in one or more tires

ESS - Emergency Stop Signal

- Automatically activates hazard lights in case of sharp and sudden braking

REV - Reverse Monitoring System

- Provides a clear image of road users and obstacles behind the vehicle on the infotainment system thanks to the camera positioned in the rear cross member

DDAW - Driver Drowsiness Alert System

- Monitors driver alertness and provides a warning when drowsiness is detected

ISA - Intelligent Speed Adaptation System

- Assists drivers in adhering to speed limits by providing visual and acoustic feedback on the vehicle's cluster