



Robustness & quality... made in Italy.

The Tekne Export "Commuter Bus" range represents the perfect marriage between reliability and versatility in transportation. The choice of high quality structural and mechanical material plus the experience in producing high performance vehicles make the "Commuter Bus" range extremely efficient and powerful in a variety of climatic conditions and on the roughest terrains.

Maximum care in designing and construction of instrumentation and equipment/fitting, high efficiency braking systems, increased visibility windshield and several tests performed on site ensure the perfect control of the vehicle in any emergency situation.

Hortòn 12.400

12 meters, 400 hp
FPT Cursor 10 engine

Commuter Bus

by TEKNE
made in Italy





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TECHNICAL DETAILS

Chassis and mechanics

Drive, Driveline	LHD - RHD, 4x2																																																	
Chassis Frame	Double-bottleneck, C-section rails made of high-yield-strength steel (80 x 302 height x 6,7mm thickness)																																																	
Engine	<p>standard: FPT Iveco Cursor 10 - F3A Engine 6 cylinders 6, in-line Total displacement 10308 cm3 Power 294 kW / 400 Hp @ 2100 rpm Torque Nm 1900 @ 1050 rpm Heavy duty engine cooling Emissions compliant to Directive Euro III</p>	<p>in option: CUMMINS ISLe Engine E3 6 cylinders 6, in-line Total displacement 8900 cm3 Power 400 Hp @ 2100 rpm Torque Nm 1700 @ 2100 rpm Heavy duty engine cooling Emissions compliant to Direct. Euro III - V</p>																																																
	<p style="text-align: center;">CURSOR 10 - 400 HP E3</p> <table border="1"> <caption>Engine Performance Data (Estimated from Graph)</caption> <thead> <tr> <th>Engine Speed (n) [1/min]</th> <th>Power (P) [kW]</th> <th>Torque (T) [Nm]</th> </tr> </thead> <tbody> <tr><td>800</td><td>110</td><td>1300</td></tr> <tr><td>900</td><td>150</td><td>1600</td></tr> <tr><td>1000</td><td>190</td><td>1850</td></tr> <tr><td>1050</td><td>210</td><td>1900</td></tr> <tr><td>1100</td><td>225</td><td>1900</td></tr> <tr><td>1200</td><td>245</td><td>1900</td></tr> <tr><td>1300</td><td>265</td><td>1900</td></tr> <tr><td>1400</td><td>285</td><td>1900</td></tr> <tr><td>1500</td><td>295</td><td>1900</td></tr> <tr><td>1600</td><td>295</td><td>1800</td></tr> <tr><td>1700</td><td>295</td><td>1700</td></tr> <tr><td>1800</td><td>295</td><td>1600</td></tr> <tr><td>1900</td><td>295</td><td>1500</td></tr> <tr><td>2000</td><td>295</td><td>1400</td></tr> <tr><td>2100</td><td>295</td><td>1300</td></tr> </tbody> </table>		Engine Speed (n) [1/min]	Power (P) [kW]	Torque (T) [Nm]	800	110	1300	900	150	1600	1000	190	1850	1050	210	1900	1100	225	1900	1200	245	1900	1300	265	1900	1400	285	1900	1500	295	1900	1600	295	1800	1700	295	1700	1800	295	1600	1900	295	1500	2000	295	1400	2100	295	1300
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Engine position	Front / Rear																																																	
Fuel Tank	300L, steel / aluminium																																																	
Transmission	std: Manual, Synchronized, 16S 1920 TD, 16+2 speed opt: Full Automated Gearbox																																																	





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Axles and Suspensions	Front: Rigid type, with parabolic leaf springs Rear: Rigid type, with air suspension
Brakes	Front: Ventilated disc 432 dia (mm) / Braking surface : 784 (cm2) Rear: Ventilated disc 432 dia (mm) / Braking surface : 784 (cm2)
Tires	std: front 315/80R22,5 - rear 315/80R22,5 twin
Steering	Hydraulic assisted power steering.
Electrical System	Voltage 24V Starter power kW 5.5 No. of batteries 2 Batteries capacity V/Ah 12 / 170

General features of the Bus unit

- nr. 51/53 seats in the bus body (configuration: 2+2 seats on every row); fully customizable.
- High backed seats with headrests and 2 or 3 points seatbelts;
- compliance to UNECE Regulation nr. 107 (Special provisions for vehicles used for the carriage of passengers comprising more than eight seats in addition to the driver's seat)
- compliance to UNECE Regulation nr. 66 (uniform technical prescriptions concerning the approval of large passenger vehicles with regard to the strenght of their superstructure)
- High active and passive safety: the structure built with highly resistant steel components contributes to stiffen the chassis substantially while the roof with large interlocking knots guarantees high resistance to overturning;
- Extra heavy duty framework: structure made in stainless steel (excellent resistance to corrosion);
- External cladding in aluminium alloy (Peraluman 30/10);
- Roof and internal cladding in metal sheet of galvanized steel;
- Thermal and acoustics insulation of the roof and side panels with sound absorbing and thermal insulating material;
- standard white colour (custom painting available);
- nr. 2 entrance doors, manually operated;
- nr. 2 manual roof hatches;
- Single glazing windows with tempered safety glass
- marine plywood floor with pvc coating;
- Driver seat with air suspension;
- internal led ceiling lights;
- Dry powder Fire Extinguisher + First aid set;
- High power Air conditioning system, with direct flow system





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Dimensions, Weights and Performances

Gross Vehicle Weight	18000 Kg
Max load on axles	front: 7500 Kg; rear: 11500 Kg.
Lenght	approx 12000 mm
Wheelbase	6700 mm
Overhang (front - rear)	2750 - 2550 mm
Width	2550 mm (without mirrors)
Height	< 4000 mm (approx 3950 mm)
Maximum Speed	100 Km/h (customizable)

Optional equipments

Pneumatic drive of the doors
Heating System
Double glazing tempered windows
Single glazing tempered openable windows
High visibility version with double rear led lights + flashing units
Rear view camera
Radio CD / Navigation system
Overhead open luggage racks
Side/Rear luggage compartment
extra Manual roof hatch
WC box
Full customized versions

This document may not be considered as a contract specification. Tekne reserves the right to modify the technical characteristics of this equipment without notice.

Tekne expertise:

Tekne offers several vehicles for people transport: from mining areas to urban transport. These bodies are designed and manufactured on their own chassis or other brands, depending on customer requirements.

TEKNE's technical expertise and design of the structure allow any particular demand to be met.

- All road buses
- 4WD, 6WD buses
- Heavy duty buses
- Staff Carrier off road Trucks
- Customized vehicles / buses
- School buses
- Sightseeing open top buses
- Special buses
- Tailor made buses

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