

IVECO

Drive the road of change



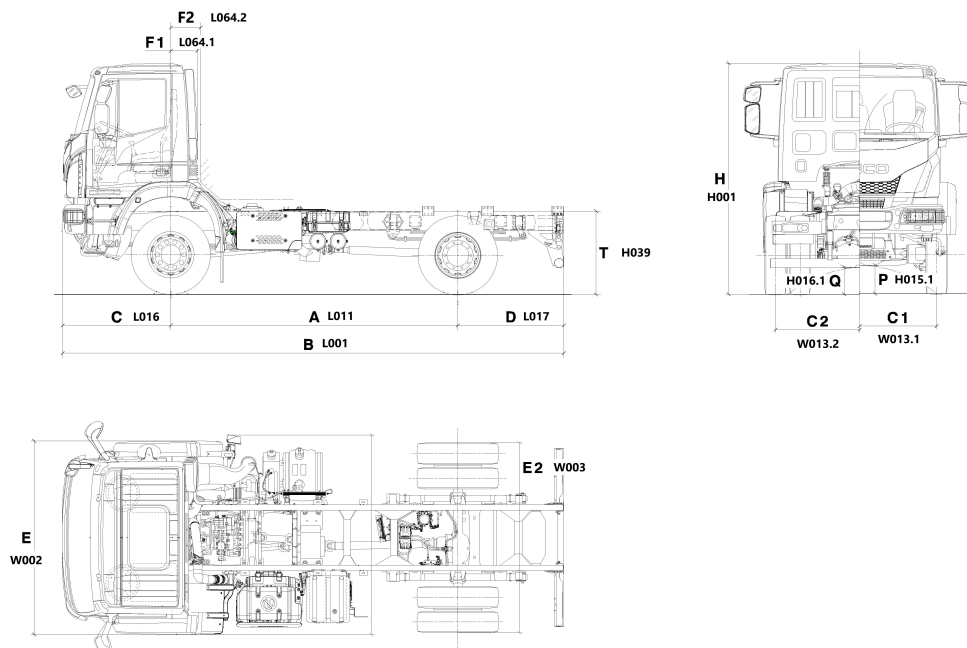
TECHNICAL DESCRIPTION

EURO CARGO MLI 50E28W

List of linked VCB

VCB code	Gearbox	Wheelbase	Cabin	Drive
2W6EC136	ZF 8API000	3240	MLC-NS SX	LH
2W6EC1C6	6S 1000 TO	3240	MLC-NS SX	LH
2W6EC1CF	6S 1000 TO	3240	MLC-NS DX	RH
2W6EC1E6	6S 1005 TO+PTO	3240	MLC-NS SX	LH
2W6EC236	ZF 8API000	3690	MLC-NS SX	LH
2W6EC23K	ZF 8API000	3690	MLL-NS SX	LH
2W6EC2C6	6S 1000 TO	3690	MLC-NS SX	LH
2W6EC2CF	6S 1000 TO	3690	MLC-NS DX	RH
2W6EC2CH	6S 1000 TO	3690	MLL-NS DX	RH
2W6EC2CK	6S 1000 TO	3690	MLL-NS SX	LH
2W6EC2E6	6S 1005 TO+PTO	3690	MLC-NS SX	LH
2W6EC2EK	6S 1005 TO+PTO	3690	MLL-NS SX	LH
2W6EC336	ZF 8API000	3915	MLC-NS SX	LH
2W6EC33K	ZF 8API000	3915	MLL-NS SX	LH
2W6EC3C6	6S 1000 TO	3915	MLC-NS SX	LH
2W6EC3CF	6S 1000 TO	3915	MLC-NS DX	RH
2W6EC3CH	6S 1000 TO	3915	MLL-NS DX	RH
2W6EC3CK	6S 1000 TO	3915	MLL-NS SX	LH
2W6EC3E6	6S 1005 TO+PTO	3915	MLC-NS SX	LH
2W6EC3EK	6S 1005 TO+PTO	3915	MLL-NS SX	LH
2W6EC436	ZF 8API000	4150	MLC-NS SX	LH
2W6EC43K	ZF 8API000	4150	MLL-NS SX	LH
2W6EC4C6	6S 1000 TO	4150	MLC-NS SX	LH
2W6EC4CF	6S 1000 TO	4150	MLC-NS DX	RH
2W6EC4CH	6S 1000 TO	4150	MLL-NS DX	RH
2W6EC4CK	6S 1000 TO	4150	MLL-NS SX	LH
2W6EC4E6	6S 1005 TO+PTO	4150	MLC-NS SX	LH
2W6EC4EK	6S 1005 TO+PTO	4150	MLL-NS SX	LH

Dimensions & Weights



	BEP	DIMENSIONS (mm)						
	L011	3240 MLC	3690 MLC	3915 MLC	4150 MLC	3690 MLL	3915 MLL	4150 MLL
Wheelbase (A)	L011	3240	3690	3915	4150	3690	3915	4150
Max length (B)	L001	5991	6441	6666	7478	6441	6666	7478
Distance 1st-2nd axle	L012.1	3240	3690	3915	4150	3690	3915	4150
Max width over wings (cab) (E)	W002	2490	2490	2490	2490	2490	2490	2490
Overall width (rear tyres) (E2)	W003	2458	2458	2458	2458	2458	2458	2458
Front axle to back of cab - including snorkel (F)	L064.1	385	385	385	385	965	965	965
Frame height at end of frame, unladen (T)	H039	1233	1227	1228	1238	1227	1228	1238
Frame height at front axle, unladen (c+cv)	H035	1118	1106	1104	1104	1106	1104	1104
Frame height at rear axle, unladen (d+dv)	H037	1197	1195	1196	1196	1195	1196	1196
Front overhang (C)	L016	1387	1387	1387	1387	1387	1387	1387
Rear overhang (D)	L019	1358	1358	1358	1935	1358	1358	1935
Minimum ground clearance (front) (P)	H015.1	340	340	340	340	340	340	340
Minimum ground clearance (rear) (Q)	H016.1	340	340	340	340	340	340	340
Overall height to top of cab, unladen (H)	H001	3008	3007	3004	3004	3007	3004	3004
Turning diameter kerb to kerb	W011	13380	14920	15700	16520	14920	15700	16520
Turning diameter wall to wall	W012	14400	15960	16720	17540	15960	16720	17540
Front track (C1)	W013.1	1944	1944	1944	1944	1944	1944	1944
Rear track (C2)	W013.2	1849	1849	1849	1849	1849	1849	1849
Approach angle α (°)	H010	26	26	26	26	26	26	26
Ramp angle γ (°)	H12	35	29	28	28	29	28	28
Departure angle β (°)	H011	16	16	16	11	16	16	11
Side members thickness	H033/H034	6	6	6	6	6	6	6
Side members max height	H032	252	252	252	252	252	252	252
Side members flange width	W032	70	70	70	70	70	70	70
Frame width at rear	W036	852	852	852	852	852	852	852

Dimensions & Weights

Wheelbase (A)	BEP		WEIGHTS (kg)					
	L011	3240 MLC	3690 MLC	3915 MLC	4150 MLC	3690 MLL	3915 MLL	4150 MLL
Total vehicle kerb weight	M060	5484	5525	5533	5564	5665	5671	5704
Kerbweight on Front Axle	M090	3628	3618	3690	3690	3724	3797	3800
Kerbweight on Rear Axle	M100	1856	1907	1843	1874	1941	1874	1904
G.V.W. (EC)	M002	15000	15000	15000	15000	15000	15000	15000
G.V.W. (Design)	M001	15000	15000	15000	15000	15000	15000	15000
Plated weight on axle 1 (Design)	M040.1	5700	5700	5700	5700	5700	5700	5700
Plated weight on axle 2 (Design)	M040.2	10000	10000	10000	10000	10000	10000	10000
Plated weight on front axles (EC)	M031	5700	5700	5700	5700	5700	5700	5700
Plated weight on rear axles (EC)	M021	10000	10000	10000	10000	10000	10000	10000
Max body & payload (Design)	M110	9516	9475	9467	9436	9335	9329	9296

Notes

Dimensions:

The height of the side member includes the thickness as well.

Weights:

Weights are to standard configuration and include: chassis cab (or tractor), driver (75 kg), full fuel tank, Adblue (if present), tools kit and spare wheel (if present).

The values of GVW / GCW can vary according to the markets and the homologations.

MLC

Wheelbase	Type	Drawing
3240	Left hand drive vehicle drawing	5803266280
3690	Left hand drive vehicle drawing	5803266281
3915	Left hand drive vehicle drawing	5803266282
4150	Left hand drive vehicle drawing	5803266283

MLL

Wheelbase	Type	Drawing
3690	Left hand drive vehicle drawing	5803266281
3915	Left hand drive vehicle drawing	5803266282
4150	Left hand drive vehicle drawing	5803266283

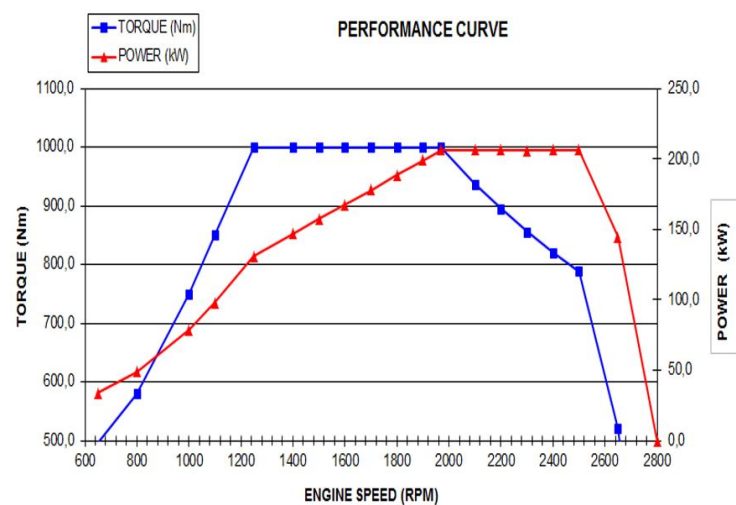
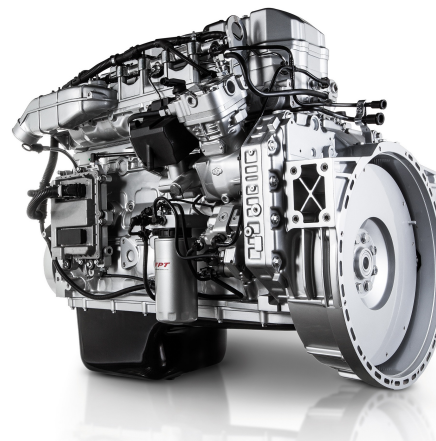
MLC / MLL

Wheelbase	Type	Drawing
3690	Left hand drive vehicle drawing	5803266281
3915	Left hand drive vehicle drawing	5803266282
4150	Left hand drive vehicle drawing	5803266283

Model Components

Engine

Identification Code	F4AFE611
Manufacturer	FPT Industrial
Commercial name	TECTOR 7
Cycle	diesel
Injection type	Bosch CP3.3
4 Stroke / 2 Stroke cycle	4 stroke
No. of cylinders	6
Cylinders layout	in line
Bore mm	104
Stroke mm	132
Total displacement cm ³	6728
Exhaust gas treatment	DOC + DPF SCR+CUC
Weight (without oil / water) Kg	526
Oil capacity (l)	14
Dry mass of compressor	225/360cm ³
Injection system	electronic common rail
Injection governor type	Bosch MDI CE101
Type of turbocharging	fix geometry with wastegate valve
Speed limiter (Km/h)	90
Engine brake power (kW)	100
Engine brake power (HP)	136
Engine brake (rpm)	2800 rpm
Sound level compatible	UN/ECE 51R
GreenZone min	1000
GreenZone max	2100
No. of tanks	1
Cooling system	liquid



280 T7 - Tector 7 (1000 Nm) 6,7 lt - 6L

Maximum power: 207 kW (280 HP) @ 2500 rpm

Maximum torque: 102 Kgm (1000 Nm) @ 1250 rpm

Model Components

DRIVELINE

Gearbox

Gearbox model	Gearbox Type	Installation	Box material	Total ratio speed	Dry weight Kg	Max input torque Nm	No. of forward gears	No. of reverse gears	No. of synchro gears
6S 1000 TO	Mechanical SYNCHRONIZED	ENGINE FLANGED	ALUMINIUM ALLOY	8.65	136	1050	6	1	6
6S 1005 TO+PTO	Mechanical SYNCHRONIZED	ENGINE FLANGED	ALUMINIUM	8.65	136	1050	6	1	6
ZF 8API000	AUTOMATIC	ENGINE FLANGED	ALUMINIUM ALLOY	7.66	124	1000	8	1	

Gear ratios

Gearbox model	1st	2nd	3rd	4th	5th	6th	7th	8th	rev. 1st
6S 1000 TO	6.75	3.6	2.12	1.39	1	0.78			6.06
6S 1005 TO+PTO	6.75	3.6	2.12	1.39	1	0.78			6.06
ZF 8API000	4.890	3.123	2.033	1.639	1.254	1.000	0.840	0.639	4.25

Clutch

Gearbox model	Type	Type	Adjustment	Outer diameter mm	Outer diameter (inches)	Release control
6S 1000 TO	--	SINGLE DRY PLATE	AUTOMATIC	395	15.5"	MECH./HYDRAULIC
6S 1005 TO+PTO	--	SINGLE DRY PLATE		395	15.5"	HYDRAULIC
ZF 8API000	--	--	--	--	--	--

Rear Axle Ratio

Option code	02015	02026	06013	06035 *	06039	06041
Ratio	6.95	5.72	5.326	6.34	7.73	8.28

*: Standard axle ratio

Tyres & Wheels

Code	Tyres	Front	Rear	Load index	Rolling circumference m
20370	Standard	11R22,5	11R22,5	148/144	3.202

Axles

Position	Description
Front	5956 - Iveco driving axle
Rear	451146/1 - Iveco H.R. rear axle

Performance

* Max Speed. Calculated speed on the basis of engine rpm and axle ratios. Real speed limits must take into account the speed index of the tyres: K = 110 km / h L = 120 km / h M = 130 km / h

** Theoretically calculated values, arising from the engine torque without considering the road-friction values and the stability limits of the vehicles.

Real speed at level ground for ZF8AP gearbox may vary up to minus 15 km/h.

*** Please note that the actual max. speed of the vehicle may differ from the theoretical one displayed in this document, depending on the vehicle configuration.

Speed and gradeability values are rounded.

A = Total Weights (solo vehicle) Kg - Max Gradeability %

B = Total Weights (vehicle+trailer) Kg - Max Gradeability %

Model Components

Tyre: 20370 - IIR22.5 - Regional / Works - All positions

Efficiency: 0.90

Off road slow

Gearbox model 6S 1000 TO

Axle Ratio	Gear Ratio 1°	Gear Ratio 6°	Speed km/h 1°	Speed km/h 6°	RPM at 80 km/h	RPM at 90 km/h	A		B	
							15000		18500	
							1°	6°	1°	6°
5.326	6.75	0.78	6.89	59.60	1729	1945	100.00	8.96	90.71	7.14
5.72	6.75	0.78	6.41	55.49	1856	2088	100.00	9.70	100.00	7.73
6.34	6.75	0.78	5.79	50.06	2058	2315	100.00	10.86	100.00	8.67
6.95	6.75	0.78	5.28	45.67	2256	2538	100.00	12.00	100.00	9.59
7.73	6.75	0.78	4.74	41.06	2509	2822	100.00	13.47	100.00	10.76
8.28	6.75	0.78	4.43	38.33	2687	3023	100.00	14.50	100.00	11.59

Gearbox model 6S 1005 TO+PTO

Axle Ratio	Gear Ratio 1°	Gear Ratio 6°	Speed km/h 1°	Speed km/h 6°	RPM at 80 km/h	RPM at 90 km/h	A		B	
							15000		18500	
							1°	6°	1°	6°
5.326	6.75	0.78	6.89	59.60	1729	1945	100.00	8.96	90.71	7.14
5.72	6.75	0.78	6.41	55.49	1856	2088	100.00	9.70	100.00	7.73
6.34	6.75	0.78	5.79	50.06	2058	2315	100.00	10.86	100.00	8.67
6.95	6.75	0.78	5.28	45.67	2256	2538	100.00	12.00	100.00	9.59
7.73	6.75	0.78	4.74	41.06	2509	2822	100.00	13.47	100.00	10.76
8.28	6.75	0.78	4.43	38.33	2687	3023	100.00	14.50	100.00	11.59

Gearbox model ZF 8AP1000

Axle Ratio	Gear Ratio 1°	Gear Ratio 8°	Speed km/h 1°	Speed km/h 8°	RPM at 80 km/h	RPM at 90 km/h	A		B	
							15000		18500	
							1°	8°	1°	8°
5.326	4.890	0.639	9.51	72.75	1416	1593	74.92	7.14	55.46	5.67
5.72	4.890	0.639	8.85	67.74	1521	1711	84.28	7.75	61.09	6.16
6.34	4.890	0.639	7.99	61.11	1686	1896	100.00	8.71	70.93	6.94
6.95	4.890	0.639	7.28	55.75	1848	2079	100.00	9.65	82.15	7.69
7.73	4.890	0.639	6.55	50.12	2055	2312	100.00	10.85	99.90	8.66
8.28	4.890	0.639	6.11	46.79	2202	2477	100.00	11.69	100.00	9.34

Tyre: 20370 - IIR22.5 - Regional / Works - All positions

Efficiency: 0.90

On road fast

Gearbox model 6S 1000 TO

Axle Ratio	Gear Ratio 1°	Gear Ratio 6°	Speed km/h 1°	Speed km/h 6°	RPM at 80 km/h	RPM at 90 km/h	A		B	
							15000		18500	
							1°	6°	1°	6°
5.326	6.75	0.78	13.49	116.78	1729	1945	46.34	3.88	36.12	3.03
5.72	6.75	0.78	12.57	108.74	1856	2088	50.68	4.30	39.25	3.37
6.34	6.75	0.78	11.34	98.11	2058	2315	58.00	4.95	44.38	3.89
6.95	6.75	0.78	10.34	89.49	2256	2538	65.97	5.57	49.73	4.39
7.73	6.75	0.78	9.30	80.46	2509	2822	77.62	6.34	57.12	5.02
8.28	6.75	0.78	8.68	75.12	2687	3023	87.20	6.88	62.78	5.45

Gearbox model 6S 1005 TO+PTO

Axle Ratio	Gear Ratio 1°	Gear Ratio 6°	Speed km/h 1°	Speed km/h 6°	RPM at 80 km/h	RPM at 90 km/h	A		B	
							15000		18500	
							1°	6°	1°	6°
5.326	6.75	0.78	13.49	116.78	1729	1945	46.34	3.88	36.12	3.03
5.72	6.75	0.78	12.57	108.74	1856	2088	50.68	4.30	39.25	3.37
6.34	6.75	0.78	11.34	98.11	2058	2315	58.00	4.95	44.38	3.89
6.95	6.75	0.78	10.34	89.49	2256	2538	65.97	5.57	49.73	4.39
7.73	6.75	0.78	9.30	80.46	2509	2822	77.62	6.34	57.12	5.02
8.28	6.75	0.78	8.68	75.12	2687	3023	87.20	6.88	62.78	5.45

Model Components

Gearbox model ZF 8AP1000

Axle Ratio	Gear Ratio 1°	Gear Ratio 8°	Speed km/h 1°	Speed km/h 8°	RPM at 80 km/h	RPM at 90 km/h	A		B	
							15000		18500	
							1°	8°	1°	8°
5.326	4.890	0.639	18.63	142.55	1416	1593	31.77	2.78	25.20	2.14
5.72	4.890	0.639	17.34	132.73	1521	1711	34.45	3.17	27.25	2.45
6.34	4.890	0.639	15.65	119.75	1686	1896	38.80	3.74	30.54	2.91
6.95	4.890	0.639	14.28	109.24	1848	2079	43.27	4.28	33.87	3.35
7.73	4.890	0.639	12.83	98.22	2055	2312	49.33	4.94	38.28	3.89
8.28	4.890	0.639	11.98	91.70	2202	2477	53.89	5.40	41.52	4.26

Suspensions

Front mechanical suspension:
No. of leaves: 3

Rear mechanical suspension:
No. of leaves: 2+2

Battery

Electrics

Voltage V	24
Starter power kW	4.4
No. of batteries	2
Batteries capacity V/Ah	12 / 143

Cabin



Model Components

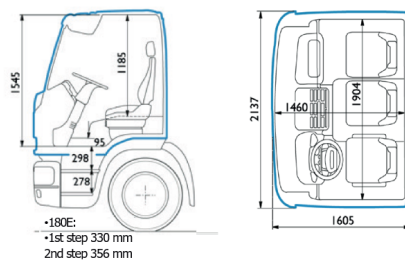
Day Cab Interior:

Forward control MLC-MLL day cab. Three way adjustable drivers seat with integral head restraint and safety belt. Dual fixed passenger seat with 50/50 split back rest, withhead restraints with one central lap and one outer diagonal and safety belt. Overhead lockers with doors. Windowless rear cab wall with document storage. Large storageshef on passenger side. Four speed fan air flow up to 500m³/hr. kw output. All gauges monitored using international symbols. Automatic electronic digital 24hr tachograph. Speedometer with dual scale instrumentation. Left and right hand entry assist handles. Fully adjustable steering column. Gear selection by means of stalks for automatic gearbox. Column mounted control stalks. Overhead console for tachograph and CB. Courtesy and map reading lights. Engine immobiliser. Handbrake warning buzzer. Drivers safety belt warning buzzer.

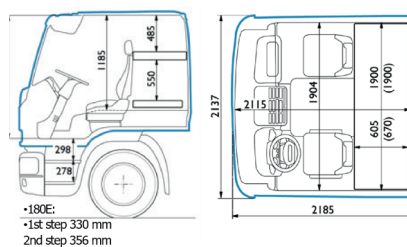
Day Cab Exterior:

One step cab entry. Suspension helical springs and dampers. Hydraulic tilt to 60 deg. Pressed steel construction with injection moulded plastic for vulnerable components. Electric door windows and laminated windscreen. Heated rear view mirrors to EEC 2003/97 and 2005/27, including 2 wide angle, 1 kerb view and 1 frontview mirror. LED day time running lights (DTRL).

MLC CAB DIMENSIONS



MLL CAB DIMENSIONS



Model Components

MAIN TECHNICAL FEATURES and NOVELTIES

Safety and Security

- **Cybersecurity:**

protect and prevent vehicles from Cyber Attacks.

General Safety Regulation

- **Advanced emergency braking system (AEBS):**

automatically detects an imminent/potential forward collision and activate the vehicle braking system to decelerate the vehicle with the purpose of avoiding or mitigating a collision. The system shall react to other licensed moving vehicles and obstacles present in the front area of the vehicle and has to be active both on urban and highway areas.

- **Lane Departure Warning System (LDWS):**

warns the driver about an unintentional lane departure event (when the vehicle drifts out of its travel lane). The system is suppressed if either hazard lights, a turn indicator, the braking pedal or the steering wheel is active.

- **Alcohol interlock installation facilitation:**

enhance traffic safety by preventing persons with alcohol concentrations exceeding a set limit value from driving a motor vehicle. Vehicle engine can't be started if driver's alcohol concentration is unsafe for driving. Only prefit is supplied as standard, the full device is to be ordered by mean of specific option (CCP 416)

- **Driver Drowsiness & Attention Warning (DDAW):** opt 399 (if included in the configuration, the vehicle is compliant with GSR-B regulation)

alerts driver when driving behavior indicates drowsiness or inattentiveness

- **Emergency stop signal (ESS):**

enhances traffic safety by indicating to other road users to the rear of the vehicle that a high retardation force is being applied; this warning is given by a light-signaling function.

- **Intelligent Speed Assist (ISA):**

helps recognize speed limits and alerts driver, when speed limit is exceeded

- **Tyre Pressure Monitoring System (TPMS):**

alerts driver of tyre pressure loss to help avoid tyre blow out and avoid abnormal fuel consumption

- **Blind Spot Information System (BSIS):**

helps to avoid collisions with Vulnerable Road User near the passenger side while vehicle is turning. As extra-option a BSIS covering the driver side area of the vehicle is available.

- **Moving Off Information System (MOIS):**

During moving off maneuvers it reduces the number of accidents with Vulnerable Road User entering the front area of the vehicle.

- **Reversing Detection (REV):**

Helps to avoid collisions during reversing maneuvers providing rear truck image on a screen.

- **Advanced Driver Distraction Warning (ADDW)** – option 2221 (if included in the configuration, the vehicle is compliant with GSR-C regulation)

The Advanced Driver Distraction Warning system monitors the driver's attention and fatigue levels through a camera mounted on the driver-side windshield pillar. When signs of drowsiness, fatigue, or distraction are detected, the system issues visual and acoustic alerts.

Note: The ADDW camera does not record or store any video during driver monitoring and does not use any biometric data, including facial recognition, for its operation.

Chassis

- **Emergency Braking System (E.B.S.)**

- **More wheelbases available**

Electris and Electronics architecture

- **Hi-Mux:**

connect all electronic components each other by a high speed transmission line

Cab

- **Windscreen and tinted windows**

- **Central dashboard and panel redesign**

- **Full screen cluster**

- **7" radio DAB with reverse camera**

- **Voice AI (optional)**

- **Digital tachograph 4.1**

Engines

- **320 HP engine on 4x4**

- **Emissions level compliant to Euro VI step e phase b regulation**

Gearbox

- **ZF 8AP 8 speed automatic**

Exhaust system

Model Components

- 3 way catalyst positioned on the right side of the frame

THREE DIFFERENT EXHAUST PIPE SOLUTIONS:

STANDARD - Low exhaust pipe (CCP 2181) - suitable for distribution missions like box, fridge, etc.

OPTIONAL - Vertical pipe (CCP 180) - suitable for municipality missions like refuse collector, road sweeper, tipper, ect.

OPTIONAL - Vertical muffler (CCP 72902) - suitable for road sweeper application

Miscellaneous

Fuelling:

Fuel tank :120 LT, plastic; filter, fuel pump, prefilter, fuel separator.

Adblue tank capacity: 30 l.

Braking system

Drums : Duo Duplex.

Type: Air / hydraulic. Two independent circuits.

Service brake: ABS+ASR+EVSC

Parking: Spring parking brake on rear axle.

Exhaust brake: Standard.

Air drier: Standard.

4x4

Configuration

Axle Configuration
4 X 4

Transfer Box TCI100

Type

Model
OFF ROAD Low Ratio
ON ROAD Normal Ratio

TCI100

1.94

0.99

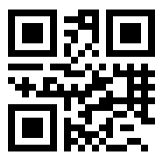
IVECO

Drive the road of change

Body Builders Management

Lungo Stura Lazio 49

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