

# IVECO

Drive the road of change



TECHNICAL DESCRIPTION

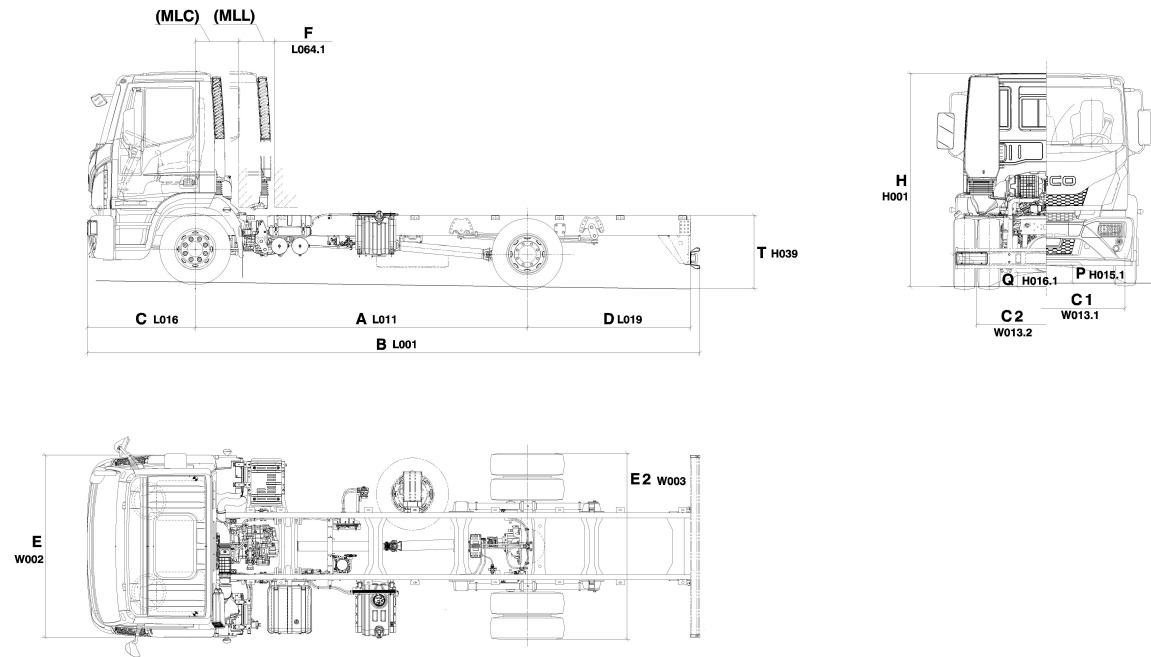
**EUROCARGO** MLI 20E25-E3

# List of linked VCB

VCB code	Gearbox	Wheelbase	Cabin	Drive
T4LAC23I	ZF 8API000	3105	MLC-NS SX	LH
T4LAC2CI	6S 800 TO	3105	MLC-NS SX	LH
T4LAC2FI	9S 1110 TO	3105	MLC-NS SX	LH
T4LAC43I	ZF 8API000	3690	MLC-NS SX	LH
T4LAC432	ZF 8API000	3690	MLL-NS SX	LH
T4LAC4CI	6S 800 TO	3690	MLC-NS SX	LH
T4LAC4C2	6S 800 TO	3690	MLL-NS SX	LH
T4LAC4FI	9S 1110 TO	3690	MLC-NS SX	LH
T4LAC4F2	9S 1110 TO	3690	MLL-NS SX	LH
T4LAC53I	ZF 8API000	4185	MLC-NS SX	LH
T4LAC532	ZF 8API000	4185	MLL-NS SX	LH
T4LAC5CI	6S 800 TO	4185	MLC-NS SX	LH
T4LAC5C2	6S 800 TO	4185	MLL-NS SX	LH
T4LAC5FI	9S 1110 TO	4185	MLC-NS SX	LH
T4LAC5F2	9S 1110 TO	4185	MLL-NS SX	LH
T4LAC63I	ZF 8API000	4455	MLC-NS SX	LH
T4LAC632	ZF 8API000	4455	MLL-NS SX	LH
T4LAC6CI	6S 800 TO	4455	MLC-NS SX	LH
T4LAC6C2	6S 800 TO	4455	MLL-NS SX	LH
T4LAC6FI	9S 1110 TO	4455	MLC-NS SX	LH
T4LAC6F2	9S 1110 TO	4455	MLL-NS SX	LH
T4LAC73I	ZF 8API000	4815	MLC-NS SX	LH
T4LAC732	ZF 8API000	4815	MLL-NS SX	LH
T4LAC7CI	6S 800 TO	4815	MLC-NS SX	LH
T4LAC7C2	6S 800 TO	4815	MLL-NS SX	LH
T4LAC7FI	9S 1110 TO	4815	MLC-NS SX	LH
T4LAC7F2	9S 1110 TO	4815	MLL-NS SX	LH
T4LAC83I	ZF 8API000	5175	MLC-NS SX	LH
T4LAC832	ZF 8API000	5175	MLL-NS SX	LH
T4LAC8CI	6S 800 TO	5175	MLC-NS SX	LH
T4LAC8C2	6S 800 TO	5175	MLL-NS SX	LH
T4LAC8FI	9S 1110 TO	5175	MLC-NS SX	LH
T4LAC8F2	9S 1110 TO	5175	MLL-NS SX	LH
T4LAC93I	ZF 8API000	5670	MLC-NS SX	LH
T4LAC932	ZF 8API000	5670	MLL-NS SX	LH
T4LAC9CI	6S 800 TO	5670	MLC-NS SX	LH
T4LAC9C2	6S 800 TO	5670	MLL-NS SX	LH
T4LAC9FI	9S 1110 TO	5670	MLC-NS SX	LH
T4LAC9F2	9S 1110 TO	5670	MLL-NS SX	LH
T4LACB3I	ZF 8API000	6570	MLC-NS SX	LH
T4LACB32	ZF 8API000	6570	MLL-NS SX	LH
T4LACBCI	6S 800 TO	6570	MLC-NS SX	LH
T4LACBC2	6S 800 TO	6570	MLL-NS SX	LH

## List of linked VCB

VCB code	Gearbox	Wheelbase	Cabin	Drive
<a href="#">T4LACBF1</a>	9S 1110 TO	6570	MLC-NS SX	LH
<a href="#">T4LACBF2</a>	9S 1110 TO	6570	MLL-NS SX	LH



**BEP**

**DIMENSIONS (mm)**

	L011	3105 MLC	3690 MLC	4185 MLC	4455 MLC	4815 MLC	5175 MLC	5670 MLC	6570 MLC	3690 MLL	4185 MLL	4455 MLL	4815 MLL	5175 MLL	5670 MLL	6570 MLL
<b>Wheelbase (A)</b>	L011	3105	3690	4185	4455	4815	5175	5670	6570	3690	4185	4455	4815	5175	5670	6570
<b>Max length (B)</b>	L001	5895	6907	7717	8122	8752	9337	10147	11652	6907	7717	8122	8752	9337	10147	11652
<b>Distance 1st-2nd axle</b>	L012.1	3105	3690	4185	4455	4815	5175	5670	6570	3690	4185	4455	4815	5175	5670	6570
<b>Max width over wings (cab) (E)</b>	W002	2295	2295	2295	2295	2295	2295	2295	2295	2295	2295	2295	2295	2295	2295	2295
<b>Overall width (rear tyres) (E2)</b>	W003	2342	2342	2342	2342	2342	2342	2342	2342	2342	2342	2342	2342	2342	2342	2342
<b>Front axle to back of cab - including snorkel (F)</b>	L064.1	550	550	550	550	550	550	550	550	1000	1000	1000	1000	1000	1000	1000
<b>Frame height at end of frame, unladen (T)</b>	H039	1089	1091	1093	1093	1094	1093	1093	1092	1091	1094	1094	1095	1094	1095	1094
<b>Frame height at front axle, unladen (c+cv)</b>	H035	888	888	888	888	887	887	887	886	883	882	882	882	882	881	880
<b>Frame height at rear axle, unladen (d+dv)</b>	H037	1030	1026	1026	1025	1024	1023	1022	1019	1025	1024	1024	1023	1022	1021	1018
<b>Front overhang (C)</b>	L016	1362	1362	1362	1362	1362	1362	1362	1362	1362	1362	1362	1362	1362	1362	1362
<b>Rear overhang (D)</b>	L019	1313	1740	2055	2190	2460	2685	3000	3605	1740	2055	2190	2460	2685	3000	3605

BEP		DIMENSIONS (mm)														
Wheelbase (A)	L011	3105 MLC	3690 MLC	4185 MLC	4455 MLC	4815 MLC	5175 MLC	5670 MLC	6570 MLC	3690 MLL	4185 MLL	4455 MLL	4815 MLL	5175 MLL	5670 MLL	6570 MLL
Minimum ground clearance (front) (P)	H015.1	235	235	235	235	235	235	235	235	235	235	235	235	235	235	235
Minimum ground clearance (rear) (Q)	H016.1	183	183	183	183	183	183	183	183	183	183	183	183	183	183	183
Overall height to top of cab, unladen (H)	H001	2699	2700	2699	2699	2698	2697	2697	2685	2694	2694	2693	2692	2691	2691	2678
Turning diameter kerb to kerb	W011	11420	13200	14720	15540	16640	17740	19260	22000	13200	14720	15540	16640	17740	19260	22000
Turning diameter wall to wall	W012	12580	14360	15880	16720	17820	18920	20440	23180	14360	15880	16720	17820	18920	20440	23180
Front track (C1)	W013.1	1908	1908	1908	1908	1908	1908	1908	1908	1908	1908	1908	1908	1908	1908	1908
Rear track (C2)	W013.2	1749	1749	1749	1749	1749	1749	1749	1749	1749	1749	1749	1749	1749	1749	1749
Approach angle $\alpha$ (°)	H010	13	13	14	14	14	14	14	14	13	14	14	14	14	14	14
Ramp angle $\gamma$ (°)	H12	29	26	20	19	17	16	16	14	26	20	19	17	16	16	14
Departure angle $\beta$ (°)	H011	11	9	7	7	6	6	5	4	9	7	7	6	6	5	4
Side members thickness	H033/H034	5	5	5	6	6	6.7	6.7	6.7	5	5	6	6	6.7	6.7	6.7
Side members max height	H032	250	250	250	252	252	253.4	253.4	253.4	250	250	252	252	253.4	253.4	253.4
Side members flange width	W032	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
Frame width at rear	W036	850	850	850	852	852	853.4	853.4	853.4	850	850	852	852	853.4	853.4	853.4

BEP		WEIGHTS (KG)														
Wheelbase	L011	3105 MLC	3690 MLC	4185 MLC	4455 MLC	4815 MLC	5175 MLC	5670 MLC	6570 MLC	3690 MLL	4185 MLL	4455 MLL	4815 MLL	5175 MLL	5670 MLL	6570 MLL
Total vehicle kerb weight	M060	4227	4325	4360	4417	4473	4550	4595	4696	4496	4531	4588	4645	4721	4766	4867
Kerbweight on Front Axle	M090	2958	2954	2970	2992	3010	3028	3043	3070	3086	3107	3131	3152	3172	3189	3220
Kerbweight on Rear Axle	M100	1269	1371	1390	1425	1463	1522	1552	1626	1410	1424	1457	1493	1549	1577	1647
G.V.W. (EC)	M002	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000
G.V.W. (Design)	M001	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000
Plated weight on front axle (EC)	M041.1	4480	4480	4480	4480	4480	4480	4480	4480	4480	4480	4480	4480	4480	4480	4480
Plated weight on axle 1 (Design)	M040.1	4480	4480	4480	4480	4480	4480	4480	4480	4480	4480	4480	4480	4480	4480	4480
Plated weight on axle 2 (Design)	M040.2	8480	8480	8480	8480	8480	8480	8480	8480	8480	8480	8480	8480	8480	8480	8480
Plated weight on rear axle (EC)	M041.2	8480	8480	8480	8480	8480	8480	8480	8480	8480	8480	8480	8480	8480	8480	8480
Max body & payload (Design)	M110	7773	7675	7640	7583	7527	7450	7405	7304	7504	7469	7412	7355	7279	7234	7133

**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
3105	Left hand drive vehicle drawing	5803347703
3690	Left hand drive vehicle drawing	5803347704
4185	Left hand drive vehicle drawing	5803347705
4455	Left hand drive vehicle drawing	5803347706
4815	Left hand drive vehicle drawing	5803347707
5175	Left hand drive vehicle drawing	5803347708
5670	Left hand drive vehicle drawing	5803347709
6570	Left hand drive vehicle drawing	5803347710

**MLL**

Wheelbase	Type	Drawing
3690	Left hand drive vehicle drawing	5803347704
4185	Left hand drive vehicle drawing	5803347705
4455	Left hand drive vehicle drawing	5803347706
4815	Left hand drive vehicle drawing	5803347707
5175	Left hand drive vehicle drawing	5803347708
5670	Left hand drive vehicle drawing	5803347709
6570	Left hand drive vehicle drawing	5803347710

**MLC / MLL**

Wheelbase	Type	Drawing
3690	Left hand drive vehicle drawing	5803347704
4185	Left hand drive vehicle drawing	5803347705

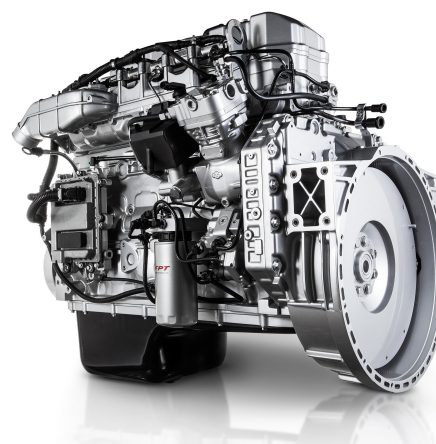
**MLC / MLL**

<b>Wheelbase</b>	<b>Type</b>	<b>Drawing</b>
<b>4455</b>	Left hand drive vehicle drawing	5803347706
<b>4815</b>	Left hand drive vehicle drawing	5803347707
<b>5175</b>	Left hand drive vehicle drawing	5803347708
<b>5670</b>	Left hand drive vehicle drawing	5803347709
<b>6570</b>	Left hand drive vehicle drawing	5803347710

# Model Components

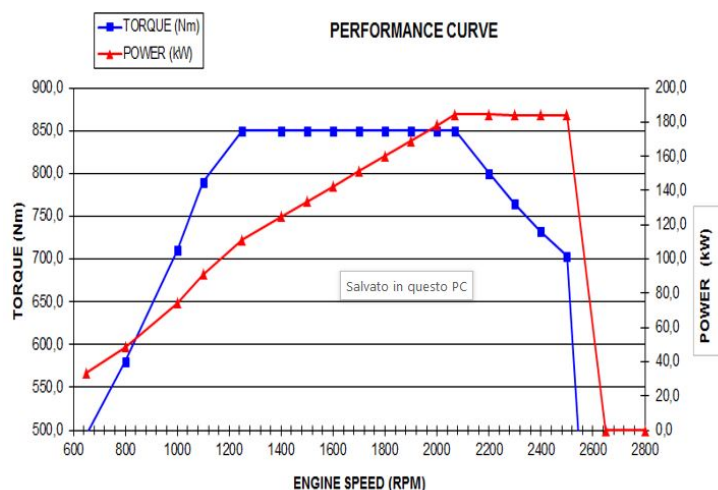
## Engine

Identification Code	F4AFE611
Position	FRONT
Manufacturer	FPT Industrial
Commercial name	TECTOR 7
Cycle	diesel
Aspiration type	TC+AFTERCOOLER
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 <sup>3</sup>	6.7
Exhaust gas treatment	SCR (only for Euro V)
Weight (without oil / water) Kg	526
Oil capacity (l)	14
Dry mass of compressor	225/360cm <sup>3</sup> (360cm <sup>3</sup> standard for Allison)
Efficiency engine and driveline	DIESEL OIL
Injection system	electronic common rail
Injection governor type	Bosch MDI CE101
Cold starting type	THERMOSTARTER (on request)
Type of turbocharging	fix geometry with wastegate valve
Emissions control	EURO 3 or EURO 5
Speed limiter (Km/h)	90
Engine brake power (kW)	150
Engine brake power (HP)	200
Engine brake (rpm)	2800 rpm
Sound level compatible	UN/ECE 51R
GreenZone min	1100
GreenZone max	1900
No. of tanks	1
Tank position	LEFT SIDE
Cooling system	liquid
Filter type	DRY



### Notes :

(Only for Euro V models) Conformity with Euro V standards : all vehicles are equipped with the SCR ( Selective Catalytic Reduction ) system, an AdBlue dosing system and a catalytic converter.



### 250-E3 - TECTOR 250 CV EURO 3

Maximum power: 185 kW (250 HP) @ 2500 rpm

Maximum torque: 87 Kgm (850 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
<b>6S 800 TO</b>	MANUAL SYNCHRONIZED	ENGINE FLANGED	ALUMINIUM ALLOY	8.44	124	850	6	1	6
<b>9S 1110 TO</b>	SYNCHRONIZED	ENGINE FLANGED	ALUMINIUM ALLOY	12.64	136	1100	9	1	9
<b>ZF 8API000</b>	AUTOMATIC	ENGINE FLANGED	ALUMINIUM ALLOY	7.66	124	1000	8	1	

### Gear ratios

Gearbox model	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	rev. 1st
<b>6S 800 TO</b>	6.58	3.6	2.12	1.39	1	0.78				6.06
<b>9S 1110 TO</b>	9.48	6.58	4.68	3.48	2.62	1.89	1.35	1	0.75	8.97
<b>ZF 8API000</b>	4.890	3.123	2.033	1.639	1.254	1.000	0.840	0.639		4.25

### Rear Axle Ratio

Option code	00007	00015	00738 *	02005	02006	02010	02021 *	04816	06025	06055
<b>Ratio</b>	6.14	5.29	4.63	3.42	3.73	4.88	4.111	4.33	5.57	3.9

\*: Standard axle ratio

### Tyres & Wheels

Code	Tyres	Front	Rear	Load index	Rolling circumference m
<b>20076</b>	Standard	285/70R19,5	285/70R19,5	146/144	2.73
<b>20164</b>	Optional	10R22,5	10R22,5	144/142	3.111
<b>20075</b>	Optional	265/70R19,5	265/70R19,5	140/138	2.644
<b>20074</b>	Optional	245/70R19,5	245/70R19,5	136/134	2.559
<b>20602</b>	Optional	285/70R19,5	285/70R19,5	146/144	2.73

### Axles

Position	Description
<b>Front</b>	5860 CS - Iveco axle - narrow track
<b>Rear</b>	MS10-144 - Arvin Meritor Rear axle S.R.

# Model Components

## 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. When calculating with more than one tyres or more than one axle ratio, availability of each combination must be checked.

\*\*\* 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 %

**Tyre: 20076 - 285/70R19.5 - Regional**

**Efficiency: 0.93**

**No transfer box**

### Gearbox model 6S 800 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	
							12000		15500	
							1°	6°	1°	6°
3.42	6.58	0.78	18.20	153.51	1301	1464	36.33	2.63	27.26	1.90
3.73	6.58	0.78	16.68	140.75	1419	1597	40.20	3.15	30.01	2.30
3.9	6.58	0.78	15.96	134.62	1484	1669	42.39	3.42	31.54	2.51
4.111	6.58	0.78	15.14	127.71	1564	1760	45.17	3.74	33.47	2.76
4.33	6.58	0.78	14.37	121.25	1648	1854	48.17	4.07	35.51	3.02
4.63	6.58	0.78	13.44	113.39	1762	1982	52.44	4.50	38.37	3.35
4.88	6.58	0.78	12.75	107.58	1857	2089	56.18	4.85	40.82	3.62
5.29	6.58	0.78	11.76	99.24	2013	2265	62.74	5.42	44.97	4.06
5.57	6.58	0.78	11.17	94.25	2119	2384	67.58	5.79	47.93	4.35
6.14	6.58	0.78	10.14	85.50	2336	2628	78.57	6.54	54.27	4.93

### Gearbox model 9S 1110 TO

Axle Ratio	Gear Ratio 1°	Gear Ratio 9°	Speed km/h 1°	Speed km/h 9°	RPM at 80 km/h	RPM at 90 km/h	A		B	
							12000		15500	
							1°	9°	1°	9°
3.42	9.48	0.75	12.63	159.65	1251	1408	56.91	2.39	41.29	1.72
3.73	9.48	0.75	11.58	146.38	1365	1535	64.16	2.91	45.85	2.12
3.9	9.48	0.75	11.08	140.00	1427	1605	68.46	3.18	48.45	2.33
4.111	9.48	0.75	10.51	132.81	1504	1692	74.18	3.50	51.80	2.58
4.33	9.48	0.75	9.98	126.10	1584	1782	80.66	3.82	55.42	2.83
4.63	9.48	0.75	9.33	117.93	1694	1906	90.68	4.25	60.68	3.15
4.88	9.48	0.75	8.85	111.89	1785	2009	100.00	4.59	65.35	3.42
5.29	9.48	0.75	8.17	103.21	1935	2177	100.00	5.14	73.75	3.85
5.57	9.48	0.75	7.76	98.03	2038	2293	100.00	5.50	80.12	4.13
6.14	9.48	0.75	7.04	88.93	2246	2527	100.00	6.23	95.28	4.69

### 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	
							12000		15500	
							1°	8°	1°	8°
3.42	4.890	0.639	24.49	187.38	1066	1199	26.06	1.43	19.76	0.98
3.73	4.890	0.639	22.45	171.81	1163	1308	28.67	1.96	21.70	1.38
3.9	4.890	0.639	21.47	164.32	1216	1368	30.12	2.22	22.77	1.59
4.111	4.890	0.639	20.37	155.89	1281	1442	31.95	2.53	24.10	1.83
4.33	4.890	0.639	19.34	148.00	1350	1518	33.88	2.84	25.51	2.07
4.63	4.890	0.639	18.09	138.41	1443	1624	36.58	3.25	27.45	2.38
4.88	4.890	0.639	17.16	131.32	1521	1711	38.89	3.57	29.09	2.63
5.29	4.890	0.639	15.83	121.14	1649	1855	42.79	4.07	31.83	3.02
5.57	4.890	0.639	15.03	115.05	1736	1953	45.56	4.41	33.73	3.28
6.14	4.890	0.639	13.64	104.37	1914	2153	51.47	5.06	37.73	3.79

## Suspensions

Front mechanical suspension:  
No. of leaves: 3

Rear mechanical suspension:  
No. of leaves: 3+1

# Model Components

## Battery

### Electrics

Voltage V	24
No. of batteries	2
Batteries capacity V/Ah	12 V / 120 Ah

**Notes:** Std. on all wheelbases except 4x2 model with 3105 mm wheelbase (models with mechanical suspensions)

## Cabin



### 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 storageshelf 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 or analogue or without. 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.

\*Radio and screen on request

\*\*Tweeter and led BSIS available on request where certified

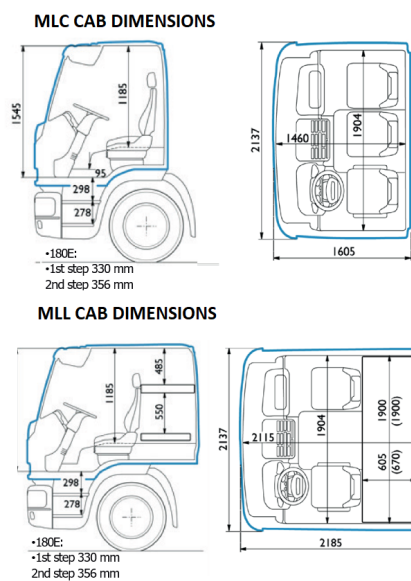
### Day Cab Exterior:

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.

Rear view mirrors: Euro V range : standard : "mirror 2003/97/CE " (compliant with UNIECE 46) / Euro III range: standard: "tubular arms mirror" (compliant with 88/321/EC)" including 2 wide angle, 1 kerb view and 1 frontview mirror (only on Euro 5 version).

LED day time running lights (DTRL).

# Model Components



## MAIN TECHNICAL FEATURES and NOVELTIES

### Chassis

- Emergency Braking System (E.B.S.)
- More wheelbases available

### Electrics 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

### Exhaust system

- 3 way catalyst positioned on the right side of the frame (Euro V)

### THREE DIFFERENT EXHAUST PIPE SOLUTIONS:

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

OPTIONAL - Left hand side exhaust (CCP 2182)

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

# Model Components

## Miscellaneous

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### Fuelling:

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

Adblue tank capacity for Euro V: 30 l.

### Braking system

Disc Brakes :

Diameter : front 377 x 45 mm ventilated disc.

rear 377 x 45 mm ventilated disc.

Surface area : 602 cm<sup>2</sup>

Type .....Air: Two independent circuits.

Service brake.....ABS+ASR

Parking.....Spring parking brake on rear axle.

Exhaust brake.....Standard.

Air drier.....Standard.

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**IVECO**

**Drive the road of change**