

IVECO

Drive the road of change



TECHNICAL DESCRIPTION

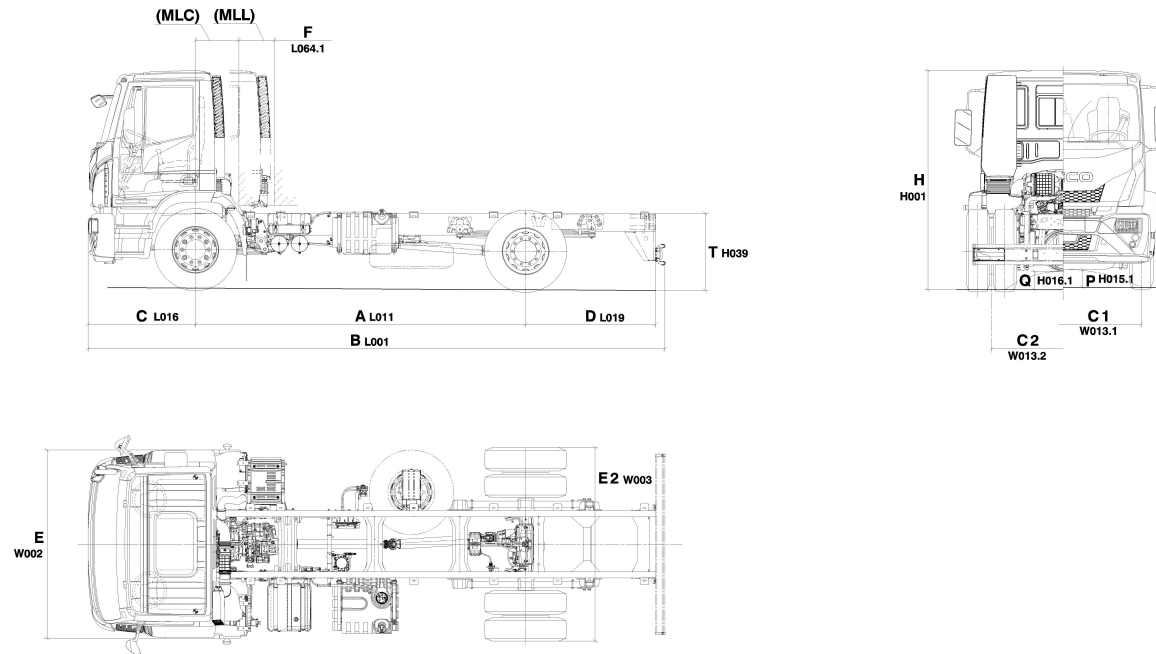
EUROCARGO MLI 80E28-E3

List of linked VCB

VCB code	Gearbox	Wheelbase	Cabin	Drive
T9NAC43I	ZF 8API000	3690	MLC-NS SX	LH
T9NAC4CI	6S 1000 TO	3690	MLC-NS SX	LH
T9NAC4FI	9S 1110 TO	3690	MLC-NS SX	LH
T9NAC4TI	3000	3690	MLC-NS SX	LH
T9NAC53I	ZF 8API000	4185	MLC-NS SX	LH
T9NAC532	ZF 8API000	4185	MLL-NS SX	LH
T9NAC5CI	6S 1000 TO	4185	MLC-NS SX	LH
T9NAC5C2	6S 1000 TO	4185	MLL-NS SX	LH
T9NAC5FI	9S 1110 TO	4185	MLC-NS SX	LH
T9NAC5F2	9S 1110 TO	4185	MLL-NS SX	LH
T9NAC5TI	3000	4185	MLC-NS SX	LH
T9NAC5T2	3000	4185	MLL-NS SX	LH
T9NAC63I	ZF 8API000	4590	MLC-NS SX	LH
T9NAC632	ZF 8API000	4590	MLL-NS SX	LH
T9NAC6CI	6S 1000 TO	4590	MLC-NS SX	LH
T9NAC6C2	6S 1000 TO	4590	MLL-NS SX	LH
T9NAC6FI	9S 1110 TO	4590	MLC-NS SX	LH
T9NAC6F2	9S 1110 TO	4590	MLL-NS SX	LH
T9NAC6TI	3000	4590	MLC-NS SX	LH
T9NAC6T2	3000	4590	MLL-NS SX	LH
T9NAC73I	ZF 8API000	4815	MLC-NS SX	LH
T9NAC732	ZF 8API000	4815	MLL-NS SX	LH
T9NAC7CI	6S 1000 TO	4815	MLC-NS SX	LH
T9NAC7C2	6S 1000 TO	4815	MLL-NS SX	LH
T9NAC7FI	9S 1110 TO	4815	MLC-NS SX	LH
T9NAC7F2	9S 1110 TO	4815	MLL-NS SX	LH
T9NAC7TI	3000	4815	MLC-NS SX	LH
T9NAC7T2	3000	4815	MLL-NS SX	LH
T9NAC83I	ZF 8API000	5175	MLC-NS SX	LH
T9NAC832	ZF 8API000	5175	MLL-NS SX	LH
T9NAC8CI	6S 1000 TO	5175	MLC-NS SX	LH
T9NAC8C2	6S 1000 TO	5175	MLL-NS SX	LH
T9NAC8FI	9S 1110 TO	5175	MLC-NS SX	LH
T9NAC8F2	9S 1110 TO	5175	MLL-NS SX	LH
T9NAC8TI	3000	5175	MLC-NS SX	LH
T9NAC8T2	3000	5175	MLL-NS SX	LH
T9NAC93I	ZF 8API000	5670	MLC-NS SX	LH
T9NAC932	ZF 8API000	5670	MLL-NS SX	LH
T9NAC9CI	6S 1000 TO	5670	MLC-NS SX	LH
T9NAC9C2	6S 1000 TO	5670	MLL-NS SX	LH
T9NAC9FI	9S 1110 TO	5670	MLC-NS SX	LH
T9NAC9F2	9S 1110 TO	5670	MLL-NS SX	LH
T9NAC9TI	3000	5670	MLC-NS SX	LH

List of linked VCB

VCB code	Gearbox	Wheelbase	Cabin	Drive
T9NAC9T2	3000	5670	MLL-NS SX	LH
T9NACA31	ZF 8API000	6210	MLC-NS SX	LH
T9NACA32	ZF 8API000	6210	MLL-NS SX	LH
T9NACAC1	6S 1000 TO	6210	MLC-NS SX	LH
T9NACAC2	6S 1000 TO	6210	MLL-NS SX	LH
T9NACAF1	9S 1110 TO	6210	MLC-NS SX	LH
T9NACAF2	9S 1110 TO	6210	MLL-NS SX	LH
T9NACAT1	3000	6210	MLC-NS SX	LH
T9NACAT2	3000	6210	MLL-NS SX	LH
T9NACB31	ZF 8API000	6570	MLC-NS SX	LH
T9NACB32	ZF 8API000	6570	MLL-NS SX	LH
T9NACBC1	6S 1000 TO	6570	MLC-NS SX	LH
T9NACBC2	6S 1000 TO	6570	MLL-NS SX	LH
T9NACBF1	9S 1110 TO	6570	MLC-NS SX	LH
T9NACBF2	9S 1110 TO	6570	MLL-NS SX	LH
T9NACBT1	3000	6570	MLC-NS SX	LH
T9NACBT2	3000	6570	MLL-NS SX	LH



BEP

DIMENSIONS (mm)

Wheelbase (A)	L011	3690 MLC	4185 MLC	4590 MLC	4815 MLC	5175 MLC	5670 MLC	6210 MLC	6570 MLC	4185 MLL	4590 MLL	4815 MLL	5175 MLL	5670 MLL	6210 MLL	6570 MLL
Max length (B)	L001	6817	7312	7717	8145	8775	9382	10237	10822	7312	7717	8145	8775	9382	10237	10822
Distance 1st-2nd axle	L012.1	3690	4185	4590	4815	5175	5670	6210	6570	4185	4590	4815	5175	5670	6210	6570
Max width over wings (cab) (E)	W002	2390	2390	2390	2390	2390	2390	2390	2390	2390	2390	2390	2390	2390	2390	2390
Overall width (rear tyres) (E2)	W003	2455	2455	2455	2455	2455	2455	2455	2455	2455	2455	2455	2455	2455	2455	2455
Front axle to back of cab - including snorkel (F)	L064.1	550	550	550	550	550	550	550	550	1000	1000	1000	1000	1000	1000	1000
Frame height at end of frame, unladen (T)	H039	1080	1079	1077	1077	1078	1077	1076	1075	1080	1078	1078	1079	1078	1077	1076
Frame height at front axle, unladen (c+cv)	H035	1023	1023	1022	1021	1021	1020	1019	1018	1019	1017	1017	1016	1015	1014	1013
Frame height at rear axle, unladen (d+dv)	H037	1062	1063	1063	1062	1061	1061	1059	1058	1062	1062	1061	1061	1060	1059	1057
Front overhang (C)	L016	1362	1362	1362	1362	1362	1362	1362	1362	1362	1362	1362	1362	1362	1362	1362
Rear overhang (D)	L019	1650	1650	1650	1853	2123	2235	2550	2775	1650	1650	1853	2123	2235	2550	2775

BEP		DIMENSIONS (mm)														
Wheelbase (A)	L011	3690 MLC	4185 MLC	4590 MLC	4815 MLC	5175 MLC	5670 MLC	6210 MLC	6570 MLC	4185 MLL	4590 MLL	4815 MLL	5175 MLL	5670 MLL	6210 MLL	6570 MLL
Minimum ground clearance (front) (P)	H015.1	234	234	234	234	234	234	234	234	234	234	234	234	234	234	234
Minimum ground clearance (rear) (Q)	H016.1	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227
Overall height to top of cab, unladen (H)	H001	2834	2832	2831	2830	2830	2829	2828	2827	2828	2826	2826	2825	2824	2823	2822
Turning diameter kerb to kerb	W011	13310	14830	16070	16760	17860	16760	23040	22140	14830	16070	16760	17860	16760	23040	22140
Turning diameter wall to wall	W012	14510	16030	17270	17960	19070	17960	22250	23360	16030	17270	17960	19070	17960	22250	23360
Front track (C1)	W013.1	1991	1991	1991	1991	1991	1991	1991	1991	1991	1991	1991	1991	1991	1991	1991
Rear track (C2)	W013.2	1817	1817	1817	1817	1817	1817	1817	1817	1817	1817	1817	1817	1817	1817	1817
Approach angle α (°)	H010	14	14	14	15	15	15	15	15	14	14	15	15	15	15	15
Ramp angle γ (°)	H12	27	23	21	20	19	19	17	16	23	21	20	19	19	17	16
Departure angle β (°)	H011	10	10	10	9	8	7	6	6	10	10	9	8	7	6	6
Side members thickness	H033/H034	6	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
Side members max height	H032	274.5	277.9	277.9	277.9	277.9	277.9	277.9	277.9	277.9	277.9	277.9	277.9	277.9	277.9	277.9
Side members flange width	W032	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
Frame width at rear	W036	852	855.4	855.4	855.4	855.4	855.4	855.4	855.4	855.4	855.4	855.4	855.4	855.4	855.4	855.4

BEP		WEIGHTS (KG)														
Wheelbase	L011	3690 MLC	4185 MLC	4590 MLC	4815 MLC	5175 MLC	5670 MLC	6210 MLC	6570 MLC	4185 MLL	4590 MLL	4815 MLL	5175 MLL	5670 MLL	6210 MLL	6570 MLL
Total vehicle kerb weight	M060	4966	5074	5124	5189	5227	5291	5391	5467	5244	5294	5359	5396	5460	5560	5637
Kerbweight on Front Axle	M090	3251	3306	3337	3357	3372	3407	3440	3454	3442	3476	3497	3514	3551	3586	3602
Kerbweight on Rear Axle	M100	1715	1768	1887	1832	1855	1884	1951	2013	1802	1818	1862	1882	1909	1974	2035
G.V.W. (EC)	M002	18000	18000	18000	18000	18000	18000	18000	18000	18000	18000	18000	18000	18000	18000	18000
G.V.W. (Design)	M001	18000	18000	18000	18000	18000	18000	18000	18000	18000	18000	18000	18000	18000	18000	18000
Plated weight on front axle (EC)	M041.1	7100	7100	7100	7100	7100	7100	7100	7100	7100	7100	7100	7100	7100	7100	7100
Plated weight on axle 1 (Design)	M040.1	7100	7100	7100	7100	7100	7100	7100	7100	7100	7100	7100	7100	7100	7100	7100
Plated weight on axle 2 (Design)	M040.2	11500	11500	11500	11500	11500	11500	11500	11500	11500	11500	11500	11500	11500	11500	11500
Plated weight on rear axle (EC)	M041.2	11500	11500	11500	11500	11500	11500	11500	11500	11500	11500	11500	11500	11500	11500	11500
Max body & payload (Design)	M110	13034	12926	12876	12811	12773	12709	12609	12533	12756	12706	12641	12604	12540	12440	12363

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
3690	Left hand drive vehicle drawing	5803347742
4185	Left hand drive vehicle drawing	5803347743
4590	Left hand drive vehicle drawing	5803347744
4815	Left hand drive vehicle drawing	5803347745
5175	Left hand drive vehicle drawing	5803347746
5670	Left hand drive vehicle drawing	5803347747
6210	Left hand drive vehicle drawing	5803347748
6570	Left hand drive vehicle drawing	5803347749
MLL		
Wheelbase	Type	Drawing
4185	Left hand drive vehicle drawing	5803347743
4590	Left hand drive vehicle drawing	5803347744
4815	Left hand drive vehicle drawing	5803347745
5175	Left hand drive vehicle drawing	5803347746
5670	Left hand drive vehicle drawing	5803347747
6210	Left hand drive vehicle drawing	5803347748
6570	Left hand drive vehicle drawing	5803347749
MLC / MLL		
Wheelbase	Type	Drawing
4185	Left hand drive vehicle drawing	5803347743
4590	Left hand drive vehicle drawing	5803347744

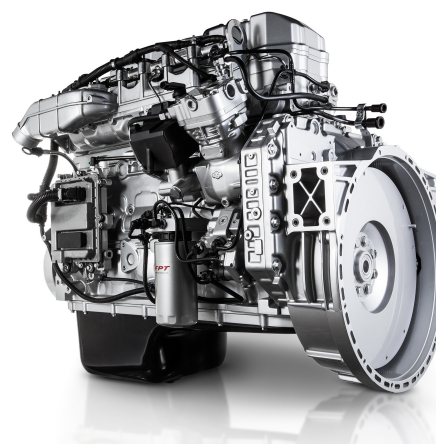
MLC / MLL

Wheelbase	Type	Drawing
4815	Left hand drive vehicle drawing	5803347745
5175	Left hand drive vehicle drawing	5803347746
5670	Left hand drive vehicle drawing	5803347747
6210	Left hand drive vehicle drawing	5803347748
6570	Left hand drive vehicle drawing	5803347749

Model Components

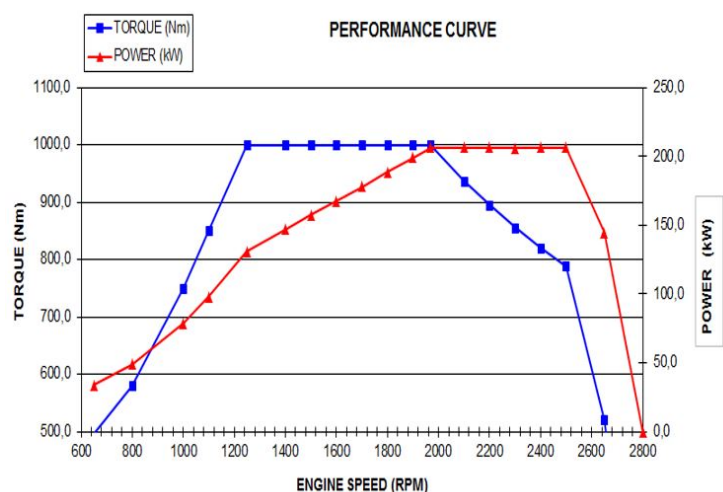
Engine

Identification Code	F4AFE61 I
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 cm³	6.7
Exhaust gas treatment	SCR (only for Euro V)
Weight (without oil / water) Kg	526
Oil capacity (l)	14
Dry mass of compressor	225/360cm³ (360cm³ 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.



280-E3 - TECTOR 280 CV EURO 3

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
3000	AUTOMATIC	ENGINE FLANGED	ALUMINIUM ALLOY	4.65	260 - (w/o retarder)	1261	5	1	--
6S 1000 TO	Mechanical SYNCHRONIZED	ENGINE FLANGED	ALUMINIUM ALLOY	8.65	136	1050	6	1	6
9S 1110 TO	SYNCHRONIZED	ENGINE FLANGED	ALUMINIUM ALLOY	12.64	136	1100	9	1	9
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	9th	rev. 1st
3000	3.49	1.86	1.41	1	0.75					5.03
6S 1000 TO	6.75	3.6	2.12	1.39	1	0.78				6.06
9S 1110 TO	9.48	6.58	4.68	3.48	2.62	1.89	1.35	1	0.75	8.97
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
3000	--	--	--	--	--	--
6S 1000 TO	--	SINGLE DRY PLATE	AUTOMATIC	395	15.5"	MECH./HYDRAULIC
9S 1110 TO	--	SINGLE DRY PLATE	AUTOMATIC	395	15.5"	MECH./HYDRAULIC
ZF 8API000	--	--	--	--	--	--

Allison S3000 Automatic gearbox:

* 300 kg with Hydraulic Retarder

HP	Model	Stall Torque Ratio:
220	TC415	2,35
250/280	TC418	1,98

Rear Axle Ratio

Option code	00015 *	00737	00738 *	00739
Ratio	5.29	4.11	4.63	6.17

*: Standard axle ratio

Tyres & Wheels

Code	Tyres	Front	Rear	Load index	Rolling circumference m
20503	Standard	295/80R22,5	295/80R22,5	154/148	3.184
20146	Optional	315/80R22,5	315/80R22,5	156/150	3.28
20795	Optional	315/80R22,5	315/80R22,5	156/150	3.28
20231	Optional	315/80R22,5	315/80R22,5	156/150	3.28
20230	Optional	305/70R22,5	305/70R22,5	152/148	3.045
20790	Optional	315/80R22,5	315/80R22,5	156/150	3.28
20294	Optional	315/70R22,5	315/70R22,5	156/150	3.09
20508	Optional	315/60R22,5	315/60R22,5	154/148	2.88
20519	Optional	295/80R22,5	295/80R22,5	154/148	3.184
20504	Optional	315/70R22,5	315/70R22,5	156/150	3.09
20757	Optional	12R22,5	12R22,5	150/146	3.305
20842	Optional	12R22,5	12R22,5	150/146	3.305

Model Components

Axles

Position	Description
Front	5871/5 - Iveco Axle
Rear	MSI3-17X - Rear axle - Arvin Meritor - single reduction

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: 20503 - 295/80R22,5 - Regional

Efficiency: 0.93

No transfer box

Gearbox model 3000

Axle Ratio	Gear Ratio 1°	Gear Ratio 5°	Speed km/h 1°	Speed km/h 5°	RPM at 80 km/h	RPM at 90 km/h	A		B	
							18000		21500	
							1°	5°	1°	5°
4.11	3.49	0.75	33.30	154.94	1290	1451	14.43	1.99	11.95	1.57
4.63	3.49	0.75	29.56	137.54	1453	1635	16.39	2.53	13.57	2.02
5.29	3.49	0.75	25.87	120.38	1661	1868	18.90	3.16	15.64	2.55
6.17	3.49	0.75	22.18	103.21	1937	2179	22.30	3.95	18.43	3.21

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	
							18000		21500	
							1°	6°	1°	6°
4.11	6.75	0.78	17.22	148.98	1342	1510	29.42	2.17	24.21	1.72
4.63	6.75	0.78	15.28	132.25	1512	1701	33.62	2.71	27.58	2.17
5.29	6.75	0.78	13.38	115.75	1727	1943	39.20	3.35	31.98	2.71
6.17	6.75	0.78	11.47	99.24	2014	2266	47.18	4.16	38.13	3.38

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	
							18000		21500	
							1°	9°	1°	9°
4.11	9.48	0.75	12.26	154.94	1290	1451	43.49	1.99	35.31	1.57
4.63	9.48	0.75	10.88	137.54	1453	1635	50.39	2.53	40.55	2.02
5.29	9.48	0.75	9.52	120.38	1661	1868	60.08	3.16	47.66	2.55
6.17	9.48	0.75	8.17	103.21	1937	2179	75.33	3.95	58.16	3.21

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	
							18000		21500	
							1°	8°	1°	8°
4.11	4.890	0.639	23.76	181.85	1099	1237	20.70	1.28	17.12	0.98
4.63	4.890	0.639	21.09	161.43	1238	1393	23.54	1.81	19.45	1.42
5.29	4.890	0.639	18.46	141.29	1415	1592	27.23	2.41	22.44	1.92
6.17	4.890	0.639	15.83	121.14	1650	1856	32.31	3.13	26.53	2.52

Suspensions

Front parabolic suspension:
No. of leaves: 4

Rear parabolic suspension:
No. of leaves: 2+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



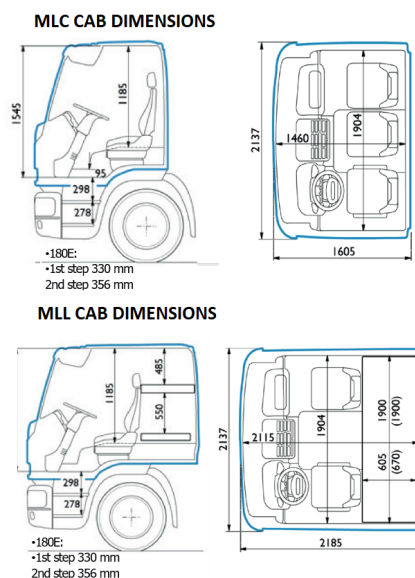
Day Cab Interior:

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 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 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 forautomatic 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 Sysyem (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

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

Fuelling:

Fuel tank :200 LT, plastic; filter; fuel pump, prefilter, fuel separator.

Adblue tank capacity for Euro V: 30 l.

Braking system

Disc Brakes :

Diameter : front 432 x 45 mm ventilated disc.

rear 432 x 45 mm ventilated disc.

Surface area : 816 cm²

TypeAir: Two independent circuits.

Service brake.....ABS+ASR

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

Exhaust brake.....Standard.

Air drier.....Standard.



Drive the road of change