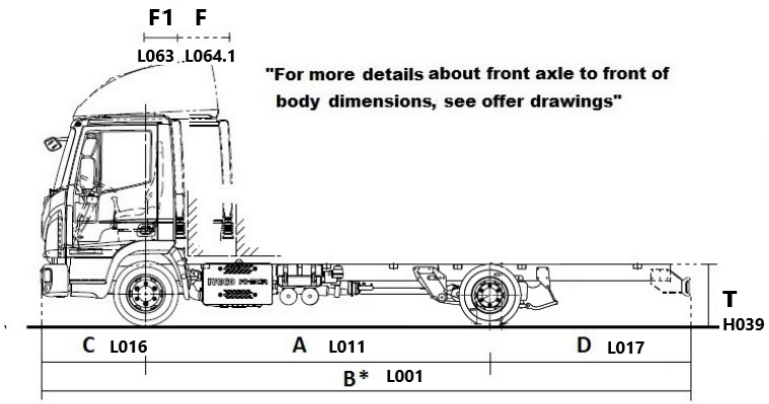
IVECO
Drive the road of change

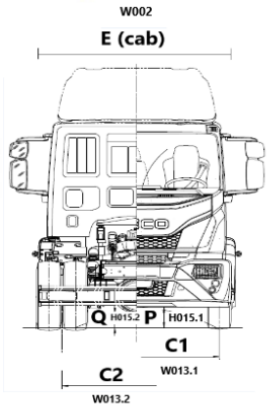
TECHNICAL DESCRIPTION

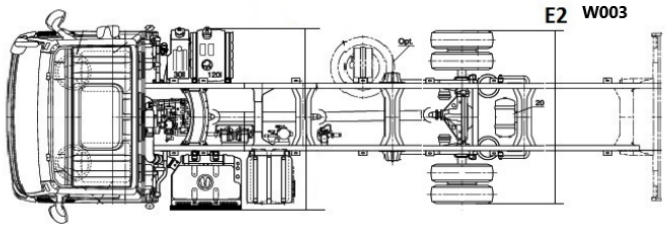
EUROCARGO ML100E21

List of linked VCB

VCB code	Gearbox	Wheelbase	Cabin	Drive
1B3AC231	ZF 8AP800	3105	MLC-NS SX	LH
1B3AC23A	ZF 8AP800	3105	MLC-NS DX	RH
1B3AC2C1	6S 800 TO	3105	MLC-NS SX	LH
1B3AC2CA	6S 800 TO	3105	MLC-NS DX	RH
1B3AC331	ZF 8AP800	3330	MLC-NS SX	LH
1B3AC33A	ZF 8AP800	3330	MLC-NS DX	RH
1B3AC3C1	6S 800 TO	3330	MLC-NS SX	LH
1B3AC3CA	6S 800 TO	3330	MLC-NS DX	RH
1B3AC431	ZF 8AP800	3690	MLC-NS SX	LH
1B3AC432	ZF 8AP800	3690	MLL-NS SX	LH
1B3AC43A	ZF 8AP800	3690	MLC-NS DX	RH
1B3AC43B	ZF 8AP800	3690	MLL-NS DX	RH
1B3AC4C1	6S 800 TO	3690	MLC-NS SX	LH
1B3AC4C2	6S 800 TO	3690	MLL-NS SX	LH
1B3AC4CA	6S 800 TO	3690	MLC-NS DX	RH
1B3AC4CB	6S 800 TO	3690	MLL-NS DX	RH
1B3AC531	ZF 8AP800	4185	MLC-NS SX	LH
1B3AC532	ZF 8AP800	4185	MLL-NS SX	LH
1B3AC53A	ZF 8AP800	4185	MLC-NS DX	RH
1B3AC53B	ZF 8AP800	4185	MLL-NS DX	RH
1B3AC5C1	6S 800 TO	4185	MLC-NS SX	LH
1B3AC5C2	6S 800 TO	4185	MLL-NS SX	LH
1B3AC5CA	6S 800 TO	4185	MLC-NS DX	RH
1B3AC5CB	6S 800 TO	4185	MLL-NS DX	RH
1B3AC631	ZF 8AP800	4455	MLC-NS SX	LH
1B3AC632	ZF 8AP800	4455	MLL-NS SX	LH
1B3AC63A	ZF 8AP800	4455	MLC-NS DX	RH
1B3AC63B	ZF 8AP800	4455	MLL-NS DX	RH
1B3AC6C1	6S 800 TO	4455	MLC-NS SX	LH
1B3AC6C2	6S 800 TO	4455	MLL-NS SX	LH
1B3AC6CA	6S 800 TO	4455	MLC-NS DX	RH
1B3AC6CB	6S 800 TO	4455	MLL-NS DX	RH
1B3AC731	ZF 8AP800	4815	MLC-NS SX	LH
1B3AC732	ZF 8AP800	4815	MLL-NS SX	LH
1B3AC73A	ZF 8AP800	4815	MLC-NS DX	RH
1B3AC73B	ZF 8AP800	4815	MLL-NS DX	RH
1B3AC7C1	6S 800 TO	4815	MLC-NS SX	LH
1B3AC7C2	6S 800 TO	4815	MLL-NS SX	LH
1B3AC7CA	6S 800 TO	4815	MLC-NS DX	RH
1B3AC7CB	6S 800 TO	4815	MLL-NS DX	RH







	BEP	DIMENSIONS (mm)									
Wheelbase (A)	**L011**	**3105 MLC**	**3330 MLC**	**3690 MLC**	**4185 MLC**	**4455 MLC**	**4815 MLC**	**3690 MLL**	**4185 MLL**	**4455 MLL**	**4815 MLL**
Max length (B)	L001	5923	6665	7025	7835	8240	8825	7025	7835	8240	8825
Distance 1st-2nd axle	L012.1	3105	3330	3690	4185	4455	4815	3690	4185	4455	4815
Max width over wings (cab) (E)	W002	2160	2160	2160	2160	2160	2160	2160	2160	2160	2160
Overall width (rear tyres) (E2)	W003	2174	2174	2174	2174	2174	2174	2174	2174	2174	2174
Front axle to back of cab - including snorkel (F)	L064.1	510	510	510	510	510	510	1090	1090	1090	1090
Front axle to back of cab - without snorkel (F1)	L063	390	390	390	390	390	390	970	970	970	970
Frame height at end of frame, unladen (T)	H039	902	916	911	913	912	913	911	913	912	913
Frame height at front axle, unladen (c+cv)	H035	743	742	738	738	737	736	738	738	737	736
Frame height at rear axle, unladen (d+dv)	H037	855	854	854	854	853	853	854	854	853	853

	BEP	DIMENSIONS (mm)									
Wheelbase (A)	**L011**	**3105 MLC**	**3330 MLC**	**3690 MLC**	**4185 MLC**	**4455 MLC**	**4815 MLC**	**3690 MLL**	**4185 MLL**	**4455 MLL**	**4815 MLL**
Front overhang (C)	L016	1262	1262	1262	1262	1262	1262	1262	1262	1262	1262
Rear overhang (D)	L017	1313	1830	1830	2145	2280	2505	1830	2145	2280	2505
Minimum ground clearance (front) (P)	H015.1	178	178	178	178	178	178	178	178	178	178
Minimum ground clearance (rear) (Q)	H016.1	171	171	171	171	171	171	171	171	171	171
Overall height to top of cab, unladen (H)	H001	2557	2556	2552	2551	2551	2548	2552	2551	2551	2548
Turning diameter kerb to kerb	W011	11100	11800	12900	14400	15200	16300	12900	14400	15200	16300
Turning diameter wall to wall	W012	12500	13100	14200	15700	16600	17600	14200	15700	16600	17600
Front track (C1)	W013.1	1836	1836	1836	1836	1836	1836	1836	1836	1836	1836
Rear track (C2)	W013.2	1686	1686	1686	1686	1686	1686	1686	1686	1686	1686
Approach angle α (°)	H010	16	16	16	16	15	16	16	16	15	16
Departure angle β (°)	H011	11	8	8	7	6	6	8	7	6	6
Ramp angle γ (°)	H12	15	15	15	14	13	13	15	14	13	13
Side members thickness	H033/H034	4	4	4	5	5	5	4	5	5	5
Side members max height	H032	203	203	203	205	205	205	203	205	205	205
Side members flange width	W032	65	65	65	65	65	65	65	65	65	65
Frame width at rear	W036	848	848	848	850	850	850	848	850	850	850

	BEP	WEIGHTS (KG)									
Wheelbase	**L011**	**3105 MLC**	**3330 MLC**	**3690 MLC**	**4185 MLC**	**4455 MLC**	**4815 MLC**	**3690 MLL**	**4185 MLL**	**4455 MLL**	**4815 MLL**
Total vehicle kerb weight	M060	3564	3580	3607	3666	3678	3731	3769	3827	3839	3892
Kerbweight on Front Axle	M090	2553	2562	2587	2621	2630	2657	2711	2749	2760	2789
Kerbweight on Rear Axle	M100	1011	1018	1020	1045	1048	1074	1058	1078	1079	1103
G.V.W. (EC)	M002	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
G.V.W. (Design)	M001	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
Plated weight on axle 1 (Design)	M040.1	3600	3600	3600	3600	3600	3600	3600	3600	3600	3600
Plated weight on axle 2 (Design)	M040.2	6800	6800	6800	6800	6800	6800	6800	6800	6800	6800
Plated weight on front axles (EC)	M031	3600	3600	3600	3600	3600	3600	3600	3600	3600	3600

	BEP	WEIGHTS (KG)									
Wheelbase	**L011**	**3105 MLC**	**3330 MLC**	**3690 MLC**	**4185 MLC**	**4455 MLC**	**4815 MLC**	**3690 MLL**	**4185 MLL**	**4455 MLL**	**4815 MLL**
Plated weight on rear axles (EC)	M021	6800	6800	6800	6800	6800	6800	6800	6800	6800	6800
Max body & Payload (EC)	M111	6436	6420	6393	6334	6322	6269	6231	6173	6161	6108
Max body & payload (Design)	M110	6436	6420	6393	6334	6322	6269	6231	6173	6161	6108

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	5803266362
3330	Left hand drive vehicle drawing	5803266363
3690	Left hand drive vehicle drawing	5803266364
4185	Left hand drive vehicle drawing	5803266365
4455	Left hand drive vehicle drawing	5803266366
4815	Left hand drive vehicle drawing	5803266367

MLL

Wheelbase	Type	Drawing
3690	Left hand drive vehicle drawing	5803266364
4185	Left hand drive vehicle drawing	5803266365
4455	Left hand drive vehicle drawing	5803266366
4815	Left hand drive vehicle drawing	5803266367

MLC / MLL

Wheelbase	Type	Drawing
3690	Left hand drive vehicle drawing	5803266364
4185	Left hand drive vehicle drawing	5803266365

MLC / MLL

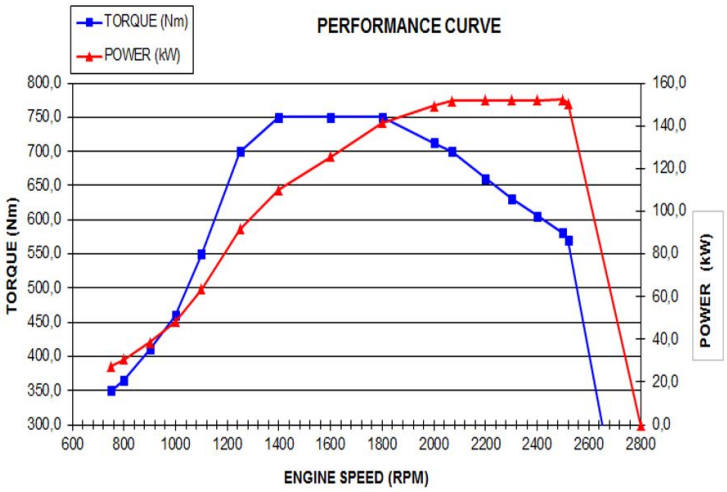
Wheelbase	Type	Drawing
4455	Left hand drive vehicle drawing	5803266366
4815	Left hand drive vehicle drawing	5803266367

Model Components

Engine

Identification Code	F4AFE411
Position	FRONT
Manufacturer	FPT Industrial
Commercial name	TECTOR 5
Cycle	diesel
Aspiration type	TC+AFTERCOOLER
Injection type	Bosch CP3.3
4 Stroke / 2 Stroke cycle	4 stroke
No. of cylinders	4
Cylinders layout	in line
Bore mm	104
Stroke mm	132
Total displacement cm³	4.5
Exhaust gas treatment	DOC + DPF SCR+CUC
Weight (without oil / water) Kg	397
Oil capacity (l)	8.4
Dry mass of compressor	225/360 cm3
Efficiency engine and driveline	DIESEL OIL
Injection system	electronic common rail
Injection governor type	Bosch MD1 CE101
Cold starting type	THERMOSTARTER
Type of turbocharging	fix geometry with wastegate
Emissions control	EURO VI E
Speed limiter (Km/h)	90
Engine brake power (kW)	67
Engine brake power (HP)	91
Engine brake (rpm)	2800 rpm
Sound level compatible	UN/ECE 51R
GreenZone min	1000
GreenZone max	2100
No. of tanks	1
Tank position	RIGHT SIDE
Cooling system	liquid
Filter type	DRY

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



210 T5 - Tector 5 (750 Nm) 4,5 lt - 4L

Maximum power: 152 kW (210 HP) @ 2500 rpm

Maximum torque: 76 Kgm (750 Nm) @ 1400 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 800 TO	MANUAL SYNCRONIZED	ENGINE FLANGED	ALUMINIUM ALLOY	8.44	124	850	6	1	6
ZF 8AP800	AUTOMATIC	ENGINE FLANGED	ALUMINIUM ALLOY	7.65	170	800	8	1	--

Gear ratios

Gearbox model	1st	2nd	3rd	4th	5th	6th	7th	8th	rev. 1st
6S 800 TO	6.58	3.6	2.12	1.39	1	0.78			6.06
ZF 8AP800	4.890	3.123	2.033	1.639	1.254	1.000	0.840	0.639	4.250

Rear Axle Ratio

Option code	00011	02006 *	02009 *	02010	06008	06025	06030
Ratio	4.1	3.73	4.56	4.88	3.38	5.57	3.21

*: Standard axle ratio

Tyres & Wheels

Code	Tyres	Front	Rear	Load index	Rolling circumference m
20028	Standard	225/75R17,5	225/75R17,5	128/126	2.388
20009	Optional	9,5R17,5	9,5R17,5	129/127	2.568
20832	Optional	215/75R17,5	215/75R17,5	124/123	2.339
20600	Optional	225/75R17,5	225/75R17,5	128/126	2.388

Axles

Position	Description	Manufacturer	Max Load kg
Front	5833 - Iveco Axle	IVECO	3600
Rear	450721 - Iveco S.R. rear axle	IVECO	

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 %

Model Components

Tyre: 20028 - 225/75R17.5 - 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 10000		B 13500	
							1°	6°	1°	6°
3.21	6.58	0.78	16.96	143.06	1398	1573	42.19	2.86	29.88	1.96
3.38	6.58	0.78	16.11	135.87	1472	1656	44.91	3.23	31.66	2.23
3.73	6.58	0.78	14.59	123.12	1625	1828	50.78	3.93	35.41	2.75
4.1	6.58	0.78	13.28	112.01	1786	2009	57.49	4.63	39.52	3.26
4.56	6.58	0.78	11.94	100.71	1986	2235	66.72	5.44	44.89	3.86
4.88	6.58	0.78	11.16	94.10	2126	2391	73.92	5.99	48.82	4.27
5.57	6.58	0.78	9.77	82.45	2426	2729	92.59	7.12	57.99	5.10

Gearbox model ZF 8AP800

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 10000		B 13500	
							1°	8°	1°	8°
3.21	4.890	0.639	22.82	174.63	1145	1289	29.97	1.43	21.59	0.90
3.38	4.890	0.639	21.67	165.85	1206	1357	31.76	1.81	22.83	1.18
3.73	4.890	0.639	19.64	150.29	1331	1497	35.52	2.51	25.42	1.70
4.1	4.890	0.639	17.87	136.72	1463	1646	39.66	3.18	28.20	2.19
4.56	4.890	0.639	16.06	122.93	1627	1831	45.05	3.94	31.75	2.76
4.88	4.890	0.639	15.01	114.87	1741	1959	49.01	4.44	34.29	3.12
5.57	4.890	0.639	13.15	100.64	1988	2236	58.23	5.45	39.97	3.87

Suspensions

Front mechanical suspension :
No. of leaves: 1

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

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)

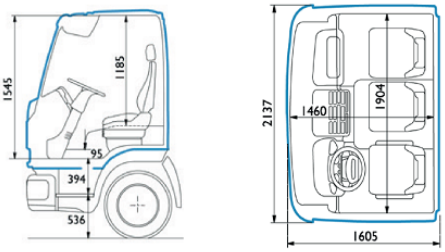
Cabin

Model Components

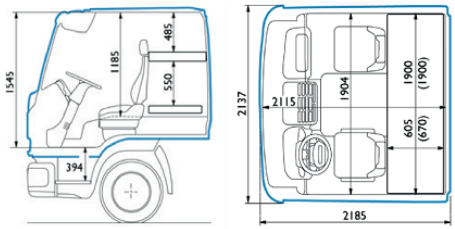
Day Cab Interior:
Forward control MLC-MLL day cab. Three way adjustable drivers seat with integral head restraint and safety belt. Dual fixed passenger seat with 50/50 split back rest, withhead restraints with one central lap and one outer diagonal and safety belt. Overhead lockers with doors. Windowless rear cab wall with document storage. Large 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. 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.

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 Dowsiness & Alertness Warning (DDAW):
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 tire pressure loss to help avoid tire blow out and avoid abnormal fuel consumption

• Blind Spot Information System (BSIS):
helps to avoid collisions with Vunerable 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 Vunerable 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.

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
• 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

- 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.

Model Components

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
Disc Brakes :

Diameter : front 377 x 45 mm ventilated disc.
rear 377 x 45 mm ventilated disc.

Surface area : 602 cm2

Type .....Air / hydraulic. Two independent circuits.
Service brake.....ABS+ASR+EVSC
Parking.....Spring parking brake on rear axle.
Exaust brake.....Standard.
Air drier.....Standard.

IVECO

Drive the road of change

Body Builders Management
Lungo Stura Lazio 49
Email: ibb@ivecogroup.com

www.iveco.com

https://newibb.iveco.com