

IVECO

Drive the road of change



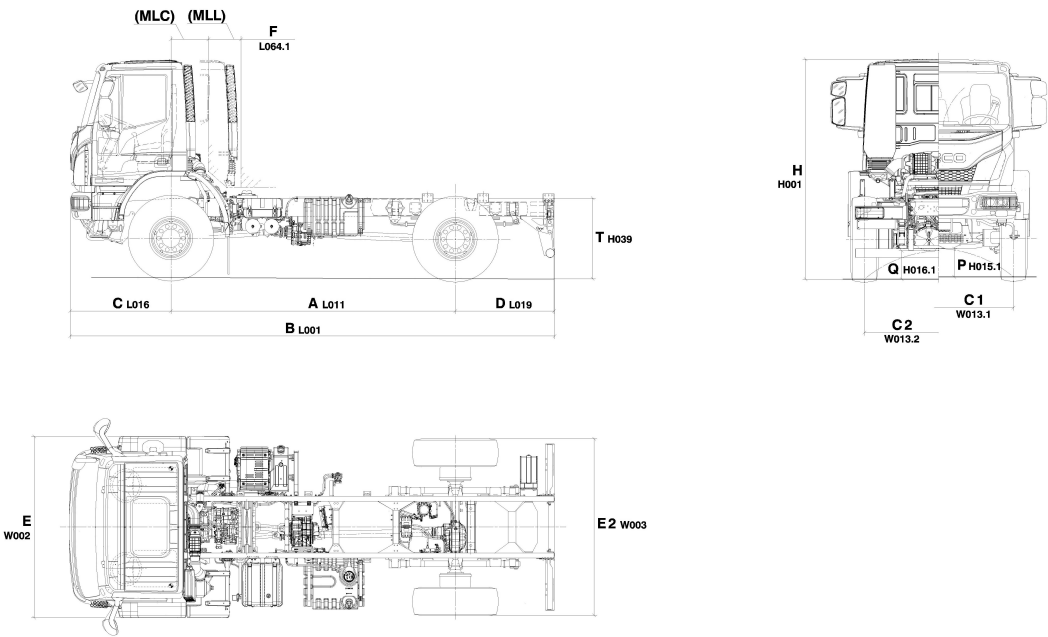
TECHNICAL DESCRIPTION

EUROCARGO MLI 50E28WS-E5

List of linked VCB

VCB code	Gearbox	Wheelbase	Cabin	Drive
T7UEC136	ZF 8API000	3240	MLC-NS SX	LH
T7UEC1C6	6S 1000 TO	3240	MLC-NS SX	LH
T7UEC1E6	6S 1005 TO+PTO	3240	MLC-NS SX	LH
T7UEC236	ZF 8API000	3690	MLC-NS SX	LH
T7UEC23K	ZF 8API000	3690	MLL-NS SX	LH
T7UEC2C6	6S 1000 TO	3690	MLC-NS SX	LH
T7UEC2CK	6S 1000 TO	3690	MLL-NS SX	LH
T7UEC2E6	6S 1005 TO+PTO	3690	MLC-NS SX	LH
T7UEC2EK	6S 1005 TO+PTO	3690	MLL-NS SX	LH
T7UEC336	ZF 8API000	3915	MLC-NS SX	LH
T7UEC33K	ZF 8API000	3915	MLL-NS SX	LH
T7UEC3C6	6S 1000 TO	3915	MLC-NS SX	LH
T7UEC3CK	6S 1000 TO	3915	MLL-NS SX	LH
T7UEC3E6	6S 1005 TO+PTO	3915	MLC-NS SX	LH
T7UEC3EK	6S 1005 TO+PTO	3915	MLL-NS SX	LH
T7UEC436	ZF 8API000	4150	MLC-NS SX	LH
T7UEC43K	ZF 8API000	4150	MLL-NS SX	LH
T7UEC4C6	6S 1000 TO	4150	MLC-NS SX	LH
T7UEC4CK	6S 1000 TO	4150	MLL-NS SX	LH
T7UEC4E6	6S 1005 TO+PTO	4150	MLC-NS SX	LH
T7UEC4EK	6S 1005 TO+PTO	4150	MLL-NS SX	LH

Dimensions & Weights



	BEP	DIMENSIONS (mm)						
Wheelbase (A)	L011	3240 MLC	3690 MLC	3915 MLC	4150 MLC	3690 MLL	3915 MLL	4150 MLL
Max length (B)	L001	5993	6643	6668	7480	6643	6668	7480
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	2429	2429	2429	2429	2429	2429	2429
Front axle to back of cab - including snorkel (F)	L064.1	515	515	515	515	965	965	965
Frame height at end of frame, unladen (T)	H039	1337	1331	1329	1341	1331	1329	1341
Frame height at front axle, unladen (c+cv)	H035	1178	1176	1176	1176	1173	1173	1173
Frame height at rear axle, unladen (d+dv)	H037	1290	1289	1289	1288	1288	1288	1287
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	390	390	390	390	390	390	390
Minimum ground clearance (rear) (Q)	H016.1	390	390	390	390	390	390	390
Overall height to top of cab, unladen (H)	H001	3077	3076	3075	3075	3072	3072	3072
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	2058	2058	2058	2058	2058	2058	2058
Rear track (C2)	W013.2	2043	2043	2043	2043	2043	2043	2043
Approach angle α (°)	H010	29	29	39	29	29	39	29
Ramp angle γ (°)	H12	39	32	31	31	32	31	31
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

	BEP		WEIGHTS (kg)					
Wheelbase (A)	L011	3240 MLC	3690 MLC	3915 MLC	4150 MLC	3690 MLL	3915 MLL	4150 MLL
Total vehicle kerb weight	M060	5434	5533	5539	5582	5664	5669	5713
Kerbweight on Front Axle	M090	3626	3681	3697	3697	3782	3799	3801
Kerbweight on Rear Axle	M100	1808	1852	1842	1885	1882	1870	1912
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	9566	9467	9461	9418	9336	9331	9287

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	5803348013
3690	Left hand drive vehicle drawing	5803348014
3915	Left hand drive vehicle drawing	5803348015
4150	Left hand drive vehicle drawing	5803348025

MLL		
Wheelbase	Type	Drawing
3690	Left hand drive vehicle drawing	5803348014
3915	Left hand drive vehicle drawing	5803348015
4150	Left hand drive vehicle drawing	5803348025

MLC / MLL		
Wheelbase	Type	Drawing
3690	Left hand drive vehicle drawing	5803348014
3915	Left hand drive vehicle drawing	5803348015
4150	Left hand drive vehicle drawing	5803348025

Model Components

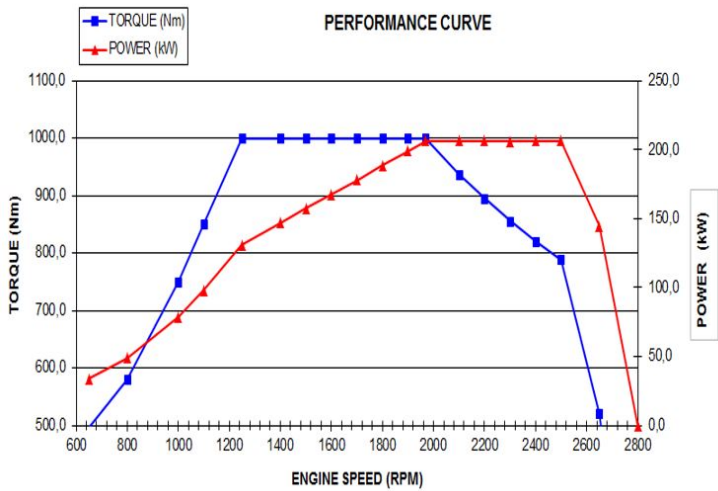
Engine

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 cm³	6728
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-E5 - TECTOR 280 CV EURO 5

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
20115	Optional	395/85R20	395/85R20	168/	3.6
20169	Optional	14,00R20	14,00R20	164/	3.828
20168	Optional	14,00R20	14,00R20	164/	3.826
20572	Optional	385/65R22,5	385/65R22,5	164/	3.28
20170	Optional	14,00R20	14,00R20	164/	3.828

Axles

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

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.

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 %

Tyre: 20115 - 395/85R20 - OFF Road - All positions - Single							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	7.74	67.00	1539	1731	100.00	7.73	74.22	6.11
5.72	6.75	0.78	7.21	62.39	1652	1859	100.00	8.39	83.44	6.65
6.34	6.75	0.78	6.50	56.29	1831	2060	100.00	9.42	100.00	7.48
6.95	6.75	0.78	5.93	51.35	2008	2259	100.00	10.44	100.00	8.30
7.73	6.75	0.78	5.33	46.17	2233	2512	100.00	11.74	100.00	9.35
8.28	6.75	0.78	4.98	43.10	2392	2691	100.00	12.66	100.00	10.09

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 15000		B 18500	
							1°	6°	1°	6°
5.326	6.75	0.78	7.74	67.00	1539	1731	100.00	7.73	74.22	6.11
5.72	6.75	0.78	7.21	62.39	1652	1859	100.00	8.39	83.44	6.65
6.34	6.75	0.78	6.50	56.29	1831	2060	100.00	9.42	100.00	7.48
6.95	6.75	0.78	5.93	51.35	2008	2259	100.00	10.44	100.00	8.30
7.73	6.75	0.78	5.33	46.17	2233	2512	100.00	11.74	100.00	9.35
8.28	6.75	0.78	4.98	43.10	2392	2691	100.00	12.66	100.00	10.09

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 15000		B 18500	
							1°	8°	1°	8°
5.326	4.890	0.639	10.69	81.79	1260	1418	62.78	6.09	47.58	4.79
5.72	4.890	0.639	9.95	76.15	1354	1523	69.66	6.64	52.09	5.24
6.34	4.890	0.639	8.98	68.71	1500	1688	82.06	7.50	59.75	5.93
6.95	4.890	0.639	8.19	62.68	1645	1850	96.97	8.34	68.12	6.61
7.73	4.890	0.639	7.36	56.35	1829	2058	100.00	9.41	80.49	7.47
8.28	4.890	0.639	6.87	52.61	1959	2204	100.00	10.16	90.79	8.08

Tyre: 20115 - 395/85R20 - OFF Road - All positions - Single							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	15.17	131.30	1539	1731	40.10	3.10	31.49	2.37
5.72	6.75	0.78	14.13	122.26	1652	1859	43.69	3.49	34.15	2.69
6.34	6.75	0.78	12.75	110.30	1831	2060	49.63	4.09	38.47	3.17
6.95	6.75	0.78	11.63	100.62	2008	2259	55.92	4.66	42.91	3.63
7.73	6.75	0.78	10.45	90.47	2233	2512	64.79	5.37	48.92	4.20
8.28	6.75	0.78	9.76	84.46	2392	2691	71.75	5.85	53.43	4.60

Model Components

Gearbox model 6S I005 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	15.17	131.30	1539	1731	40.10	3.10	31.49	2.37
5.72	6.75	0.78	14.13	122.26	1652	1859	43.69	3.49	34.15	2.69
6.34	6.75	0.78	12.75	110.30	1831	2060	49.63	4.09	38.47	3.17
6.95	6.75	0.78	11.63	100.62	2008	2259	55.92	4.66	42.91	3.63
7.73	6.75	0.78	10.45	90.47	2233	2512	64.79	5.37	48.92	4.20
8.28	6.75	0.78	9.76	84.46	2392	2691	71.75	5.85	53.43	4.60

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	20.94	160.27	1260	1418	27.76	2.04	22.06	1.51
5.72	4.890	0.639	19.50	149.23	1354	1523	30.06	2.41	23.85	1.81
6.34	4.890	0.639	17.59	134.64	1500	1688	33.77	2.96	26.70	2.26
6.95	4.890	0.639	16.05	122.82	1645	1850	37.54	3.47	29.57	2.67
7.73	4.890	0.639	14.43	110.43	1829	2058	42.58	4.09	33.33	3.17
8.28	4.890	0.639	13.47	103.09	1959	2204	46.31	4.51	36.07	3.51

Suspensions

Front mechanical suspension:
No. of leaves: 3

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

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, with head 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

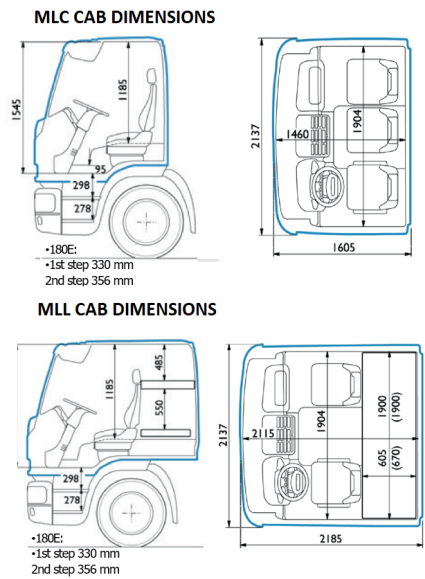
Day Cab Exterior:

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 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.

Miscellaneous

Fuelling:

Fuel tank :180 LT, plastic; filter; fuel pump, prefilter, fuel separator.

Adblue tank capacity for Euro V: 30 l.

Braking system

- Drums :** Duo Duplex.
Type: Air / hydraulic. Two independent circuits.
Service brake: ABS+ASR
Parking: Spring parking brake on rear axle.
Exhaust brake: Standard.
Air drier: Standard.

Model Components

4x4

Configuration	
Axle Configuration	4 X 4

Transfer Box TCI100

Type	
Model	TCI100
OFF ROAD Low Ratio	1.94
ON ROAD Normal Ratio	0.99



Drive the road of change