

# IVECO

Drive the road of change



TECHNICAL DESCRIPTION

**EUROCARGO** MLI 80E28

# List of linked VCB

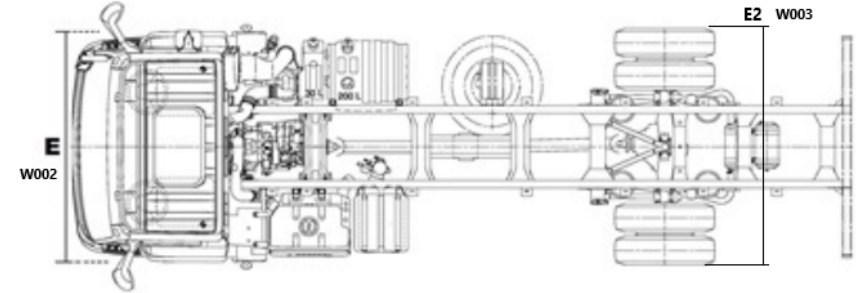
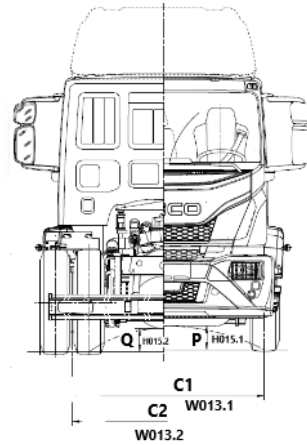
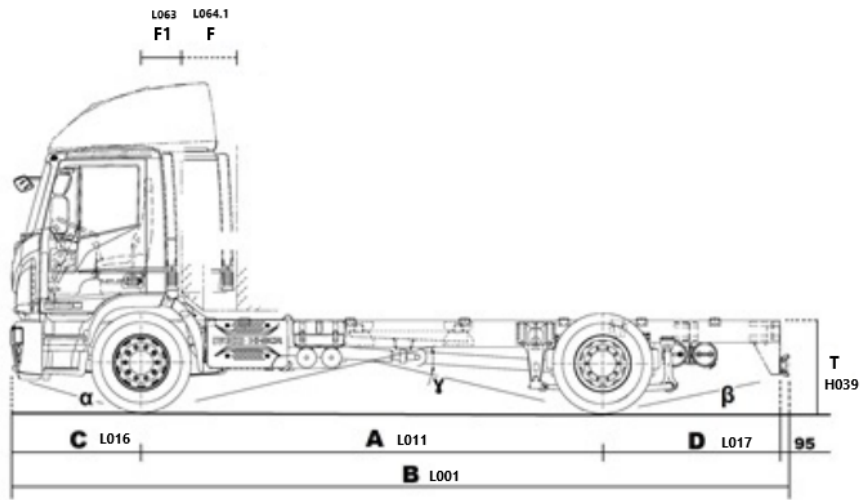
VCB code	Gearbox	Wheelbase	Cabin	Drive
3A6AC43I	ZF 8API000	3690	MLC-NS SX	LH
3A6AC43A	ZF 8API000	3690	MLC-NS DX	RH
3A6AC4CI	6S 1000 TO	3690	MLC-NS SX	LH
3A6AC4CA	6S 1000 TO	3690	MLC-NS DX	RH
3A6AC4FI	9S 1110 TO	3690	MLC-NS SX	LH
3A6AC4FA	9S 1110 TO	3690	MLC-NS DX	RH
3A6AC4TI	3000	3690	MLC-NS SX	LH
3A6AC4TA	3000	3690	MLC-NS DX	RH
3A6AC53I	ZF 8API000	4185	MLC-NS SX	LH
3A6AC532	ZF 8API000	4185	MLL-NS SX	LH
3A6AC53A	ZF 8API000	4185	MLC-NS DX	RH
3A6AC53B	ZF 8API000	4185	MLL-NS DX	RH
3A6AC5CI	6S 1000 TO	4185	MLC-NS SX	LH
3A6AC5C2	6S 1000 TO	4185	MLL-NS SX	LH
3A6AC5CA	6S 1000 TO	4185	MLC-NS DX	RH
3A6AC5CB	6S 1000 TO	4185	MLL-NS DX	RH
3A6AC5FI	9S 1110 TO	4185	MLC-NS SX	LH
3A6AC5F2	9S 1110 TO	4185	MLL-NS SX	LH
3A6AC5FA	9S 1110 TO	4185	MLC-NS DX	RH
3A6AC5FB	9S 1110 TO	4185	MLL-NS DX	RH
3A6AC5TI	3000	4185	MLC-NS SX	LH
3A6AC5T2	3000	4185	MLL-NS SX	LH
3A6AC5TA	3000	4185	MLC-NS DX	RH
3A6AC5TB	3000	4185	MLL-NS DX	RH
3A6AC63I	ZF 8API000	4590	MLC-NS SX	LH
3A6AC632	ZF 8API000	4590	MLL-NS SX	LH
3A6AC63A	ZF 8API000	4590	MLC-NS DX	RH
3A6AC63B	ZF 8API000	4590	MLL-NS DX	RH
3A6AC6CI	6S 1000 TO	4590	MLC-NS SX	LH
3A6AC6C2	6S 1000 TO	4590	MLL-NS SX	LH
3A6AC6CA	6S 1000 TO	4590	MLC-NS DX	RH
3A6AC6CB	6S 1000 TO	4590	MLL-NS DX	RH
3A6AC6FI	9S 1110 TO	4590	MLC-NS SX	LH
3A6AC6F2	9S 1110 TO	4590	MLL-NS SX	LH
3A6AC6FA	9S 1110 TO	4590	MLC-NS DX	RH
3A6AC6FB	9S 1110 TO	4590	MLL-NS DX	RH
3A6AC6TI	3000	4590	MLC-NS SX	LH
3A6AC6T2	3000	4590	MLL-NS SX	LH
3A6AC6TA	3000	4590	MLC-NS DX	RH
3A6AC6TB	3000	4590	MLL-NS DX	RH
3A6AC73I	ZF 8API000	4815	MLC-NS SX	LH
3A6AC732	ZF 8API000	4815	MLL-NS SX	LH
3A6AC73A	ZF 8API000	4815	MLC-NS DX	RH

# List of linked VCB

VCB code	Gearbox	Wheelbase	Cabin	Drive
3A6AC73B	ZF 8API000	4815	MLL-NS DX	RH
3A6AC7C1	6S 1000 TO	4815	MLC-NS SX	LH
3A6AC7C2	6S 1000 TO	4815	MLL-NS SX	LH
3A6AC7CA	6S 1000 TO	4815	MLC-NS DX	RH
3A6AC7CB	6S 1000 TO	4815	MLL-NS DX	RH
3A6AC7F1	9S 1110 TO	4815	MLC-NS SX	LH
3A6AC7F2	9S 1110 TO	4815	MLL-NS SX	LH
3A6AC7FA	9S 1110 TO	4815	MLC-NS DX	RH
3A6AC7FB	9S 1110 TO	4815	MLL-NS DX	RH
3A6AC7T1	3000	4815	MLC-NS SX	LH
3A6AC7T2	3000	4815	MLL-NS SX	LH
3A6AC7TA	3000	4815	MLC-NS DX	RH
3A6AC7TB	3000	4815	MLL-NS DX	RH
3A6AC831	ZF 8API000	5175	MLC-NS SX	LH
3A6AC832	ZF 8API000	5175	MLL-NS SX	LH
3A6AC83A	ZF 8API000	5175	MLC-NS DX	RH
3A6AC83B	ZF 8API000	5175	MLL-NS DX	RH
3A6AC8C1	6S 1000 TO	5175	MLC-NS SX	LH
3A6AC8C2	6S 1000 TO	5175	MLL-NS SX	LH
3A6AC8CA	6S 1000 TO	5175	MLC-NS DX	RH
3A6AC8CB	6S 1000 TO	5175	MLL-NS DX	RH
3A6AC8F1	9S 1110 TO	5175	MLC-NS SX	LH
3A6AC8F2	9S 1110 TO	5175	MLL-NS SX	LH
3A6AC8FA	9S 1110 TO	5175	MLC-NS DX	RH
3A6AC8FB	9S 1110 TO	5175	MLL-NS DX	RH
3A6AC8T1	3000	5175	MLC-NS SX	LH
3A6AC8T2	3000	5175	MLL-NS SX	LH
3A6AC8TA	3000	5175	MLC-NS DX	RH
3A6AC8TB	3000	5175	MLL-NS DX	RH
3A6AC931	ZF 8API000	5670	MLC-NS SX	LH
3A6AC932	ZF 8API000	5670	MLL-NS SX	LH
3A6AC93A	ZF 8API000	5670	MLC-NS DX	RH
3A6AC93B	ZF 8API000	5670	MLL-NS DX	RH
3A6AC9C1	6S 1000 TO	5670	MLC-NS SX	LH
3A6AC9C2	6S 1000 TO	5670	MLL-NS SX	LH
3A6AC9CA	6S 1000 TO	5670	MLC-NS DX	RH
3A6AC9CB	6S 1000 TO	5670	MLL-NS DX	RH
3A6AC9F1	9S 1110 TO	5670	MLC-NS SX	LH
3A6AC9F2	9S 1110 TO	5670	MLL-NS SX	LH
3A6AC9FA	9S 1110 TO	5670	MLC-NS DX	RH
3A6AC9FB	9S 1110 TO	5670	MLL-NS DX	RH
3A6AC9T1	3000	5670	MLC-NS SX	LH
3A6AC9T2	3000	5670	MLL-NS SX	LH

# List of linked VCB

VCB code	Gearbox	Wheelbase	Cabin	Drive
3A6AC9TA	3000	5670	MLC-NS DX	RH
3A6AC9TB	3000	5670	MLL-NS DX	RH
3A6ACA3I	ZF 8API000	6210	MLC-NS SX	LH
3A6ACA32	ZF 8API000	6210	MLL-NS SX	LH
3A6ACA3A	ZF 8API000	6210	MLC-NS DX	RH
3A6ACA3B	ZF 8API000	6210	MLL-NS DX	RH
3A6ACACI	6S 1000 TO	6210	MLC-NS SX	LH
3A6ACAC2	6S 1000 TO	6210	MLL-NS SX	LH
3A6ACACA	6S 1000 TO	6210	MLC-NS DX	RH
3A6ACACB	6S 1000 TO	6210	MLL-NS DX	RH
3A6ACAFI	9S 1110 TO	6210	MLC-NS SX	LH
3A6ACAF2	9S 1110 TO	6210	MLL-NS SX	LH
3A6ACAFA	9S 1110 TO	6210	MLC-NS DX	RH
3A6ACAFB	9S 1110 TO	6210	MLL-NS DX	RH
3A6ACATI	3000	6210	MLC-NS SX	LH
3A6ACAT2	3000	6210	MLL-NS SX	LH
3A6ACATA	3000	6210	MLC-NS DX	RH
3A6ACATB	3000	6210	MLL-NS DX	RH
3A6ACB3I	ZF 8API000	6570	MLC-NS SX	LH
3A6ACB32	ZF 8API000	6570	MLL-NS SX	LH
3A6ACB3A	ZF 8API000	6570	MLC-NS DX	RH
3A6ACB3B	ZF 8API000	6570	MLL-NS DX	RH
3A6ACBCI	6S 1000 TO	6570	MLC-NS SX	LH
3A6ACBC2	6S 1000 TO	6570	MLL-NS SX	LH
3A6ACBCA	6S 1000 TO	6570	MLC-NS DX	RH
3A6ACBCB	6S 1000 TO	6570	MLL-NS DX	RH
3A6ACBFI	9S 1110 TO	6570	MLC-NS SX	LH
3A6ACBF2	9S 1110 TO	6570	MLL-NS SX	LH
3A6ACBFA	9S 1110 TO	6570	MLC-NS DX	RH
3A6ACBFB	9S 1110 TO	6570	MLL-NS DX	RH
3A6ACBTI	3000	6570	MLC-NS SX	LH
3A6ACBT2	3000	6570	MLL-NS SX	LH
3A6ACBTA	3000	6570	MLC-NS DX	RH
3A6ACBTB	3000	6570	MLL-NS DX	RH



**BEP**

**DIMENSIONS (mm)**

	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
<b>Wheelbase (A)</b>	L011	3690	4185	4590	4815	5175	5670	6210	6570	4185	4590	4815	5175	5670	6210	6570
<b>Max length (B)</b>	L001	6817	7312	7717	8145	8775	9382	10237	10707	7312	7717	8145	8775	9382	10237	10707
<b>Distance 1st-2nd axle</b>	L012.1	3690	4185	4590	4815	5175	5670	6210	6570	4185	4590	4815	5175	5670	6210	6570
<b>Max width over wings (cab) (E)</b>	W002	2390	2390	2390	2390	2390	2390	2390	2390	2390	2390	2390	2390	2390	2390	2390
<b>Overall width (rear tyres) (E2)</b>	W003	2455	2455	2455	2455	2455	2455	2455	2455	2455	2455	2455	2455	2455	2455	2455
<b>Front axle to back of cab - without snorkel (F1)</b>	L063	300	300	300	300	300	300	300	300	880	880	880	880	880	880	880
<b>Front axle to back of cab - including snorkel (F)</b>	L064.1	420	420	420	420	420	420	420	420	1000	1000	1000	1000	1000	1000	1000
<b>Frame height at end of frame, unladen (T)</b>	H039	1084	1088	1085	1086	1087	1086	1086	1086	1088	1085	1086	1087	1086	1086	1086
<b>Frame height at front axle, unladen (c+cv)</b>	H035	1016	1010	1010	1009	1008	1007	1005	1004	1010	1010	1009	1008	1007	1005	1004
<b>Frame height at rear axle, unladen (d+dv)</b>	H037	1063	1066	1065	1064	1064	1064	1062	1061	1066	1065	1064	1064	1064	1062	1061

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
Front overhang (C)	L016	1362	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	2775
Minimum ground clearance (front) (P)	H015.1	234	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	227
Overall height to top of cab, unladen (H)	H001	2827	2820	2819	2818	2817	2816	2815	2814	2820	2819	2818	2817	2816	2815	2814	2814
Turning diameter kerb to kerb	W011	13310	14830	16070	16760	17860	19380	21040	22140	14830	16070	16760	17860	19380	21040	22140	22140
Turning diameter wall to wall	W012	14510	16030	17270	17960	19070	20590	22250	23360	16030	17270	17960	19070	20590	22250	23360	23360
Front track (C1)	W013.1	1991	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	1817
Approach angle $\alpha$ (°)	H010	14	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Ramp angle $\gamma$ (°)	H12	28	24	25	24	22	19	17	16	24	25	24	22	19	17	16	16
Departure angle $\beta$ (°)	H011	10	10	10	9	8	7	6	6	10	10	9	8	7	6	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	7.7
Side members max height	H032	229.5	232.9	232.9	232.9	232.9	232.9	232.9	232.9	232.9	232.9	232.9	232.9	232.9	232.9	232.9	232.9
Side members flange width	W032	80	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	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	5118	5227	5276	5342	5374	5441	5543	5618	5403	5453	5519	5555	5618	5720	5794	5794
Kerbweight on Front Axle	M090	3296	3429	3463	3482	3494	3535	3571	3585	3574	3612	3632	3650	3689	3727	3742	3742
Kerbweight on Rear Axle	M100	1822	1798	1813	1860	1880	1906	1972	2033	1829	1841	1887	1905	1929	1993	2052	2052
G.V.W. (EC)	M002	18000	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	18000
Plated weight on front axle (EC)	M041.1	7100	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	7100
Plated weight on axle 2 (Design)	M040.2	11500	11500	11500	11500	11500	11500	11500	11500	11500	11500	11500	11500	11500	11500	11500	11500

	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
<b>Plated weight on rear axle (EC)</b>	M041.2	11500	11500	11500	11500	11500	11500	11500	11500	11500	11500	11500	11500	11500	11500	11500
<b>Max body &amp; payload (Design)</b>	M110	12882	12773	12724	12658	12626	12559	12457	12382	12597	12547	12481	12445	12382	12280	12206

**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
<b>3690</b>	Left hand drive vehicle drawing	5803205263
<b>4185</b>	Left hand drive vehicle drawing	5803205264
<b>4590</b>	Left hand drive vehicle drawing	5803205265
<b>4815</b>	Left hand drive vehicle drawing	5803205266
<b>5175</b>	Left hand drive vehicle drawing	5803205267
<b>5670</b>	Left hand drive vehicle drawing	5803205268
<b>6210</b>	Left hand drive vehicle drawing	5803205269
<b>6570</b>	Left hand drive vehicle drawing	5803205270

**MLL**

Wheelbase	Type	Drawing
<b>4185</b>	Left hand drive vehicle drawing	5803205264
<b>4590</b>	Left hand drive vehicle drawing	5803205265
<b>4815</b>	Left hand drive vehicle drawing	5803205266
<b>5175</b>	Left hand drive vehicle drawing	5803205267
<b>5670</b>	Left hand drive vehicle drawing	5803205268
<b>6210</b>	Left hand drive vehicle drawing	5803205269

**MLL**

<b>Wheelbase</b>	<b>Type</b>	<b>Drawing</b>
6570	Left hand drive vehicle drawing	5803205270

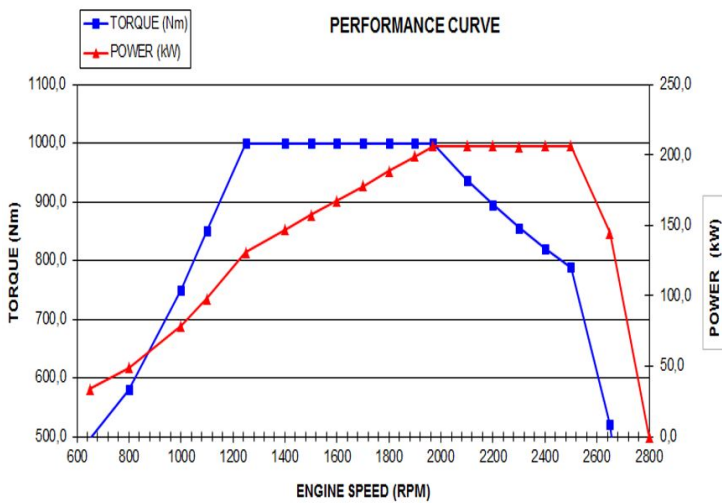
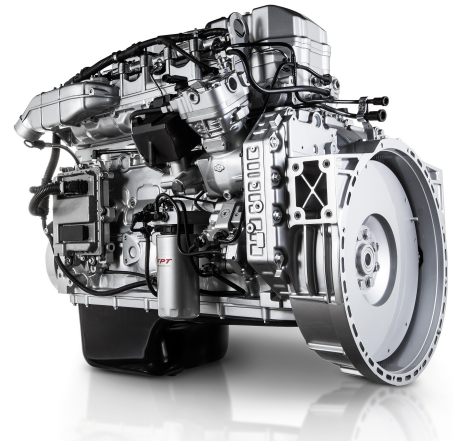
**MLC / MLL**

<b>Wheelbase</b>	<b>Type</b>	<b>Drawing</b>
4185	Left hand drive vehicle drawing	5803205264
4590	Left hand drive vehicle drawing	5803205265
4815	Left hand drive vehicle drawing	5803205266
5175	Left hand drive vehicle drawing	5803205267
5670	Left hand drive vehicle drawing	5803205268
6210	Left hand drive vehicle drawing	5803205269
6570	Left hand drive vehicle drawing	5803205270

# Model Components

## Engine

Identification Code	F4AFE61 I
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 <sup>3</sup>	6728
Exhaust gas treatment	DOC + DPF SCR+CUC
Weight (without oil / water) Kg	526
Oil capacity (l)	14
Dry mass of compressor	225/360cm <sup>3</sup>
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
3000	AUTOMATIC	ENGINE FLANGED	ALUMINIUM ALLOY	4.65	260 - (w/o retarder)	1261	6	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	0.65				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 *	00734	00737	00738 *	00739
Ratio	5.29	3.36	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 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°
3.36	3.49	0.65	40.73	218.68	914	1028	11.64	0.45	9.63	0.29
4.11	3.49	0.65	33.30	178.78	1118	1258	14.44	1.37	11.96	1.05
4.63	3.49	0.65	29.56	158.70	1260	1417	16.40	1.90	13.58	1.49
5.29	3.49	0.65	25.87	138.90	1439	1619	18.91	2.49	15.65	1.99
6.17	3.49	0.65	22.18	119.09	1679	1888	22.31	3.22	18.44	2.60

### 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°
3.36	6.75	0.78	21.06	182.23	1097	1234	23.60	1.29	19.50	0.98
4.11	6.75	0.78	17.22	148.98	1342	1510	29.43	2.18	24.22	1.73
4.63	6.75	0.78	15.28	132.25	1512	1701	33.63	2.72	27.59	2.18
5.29	6.75	0.78	13.38	115.75	1727	1943	39.22	3.36	31.99	2.72
6.17	6.75	0.78	11.47	99.24	2014	2266	47.19	4.17	38.14	3.39

### 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°
3.36	9.48	0.75	14.99	189.52	1055	1187	34.37	1.11	28.17	0.84
4.11	9.48	0.75	12.26	154.94	1290	1451	43.50	2.00	35.32	1.58
4.63	9.48	0.75	10.88	137.54	1453	1635	50.41	2.54	40.57	2.03
5.29	9.48	0.75	9.52	120.38	1661	1868	60.10	3.17	47.67	2.56
6.17	9.48	0.75	8.17	103.21	1937	2179	75.35	3.96	58.18	3.22

### 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°
3.36	4.890	0.639	29.07	222.45	899	1011	16.69	0.37	13.82	0.22
4.11	4.890	0.639	23.76	181.85	1099	1237	20.71	1.29	17.13	0.99
4.63	4.890	0.639	21.09	161.43	1238	1393	23.56	1.82	19.46	1.43
5.29	4.890	0.639	18.46	141.29	1415	1592	27.24	2.42	22.46	1.93
6.17	4.890	0.639	15.83	121.14	1650	1856	32.32	3.14	26.54	2.53

## Suspensions

# Model Components

Front parabolic suspension:  
No. of leaves: 4

Rear parabolic suspension:  
No. of leaves: 2+1

## Battery

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

## Cabin



### Day Cab Interior:

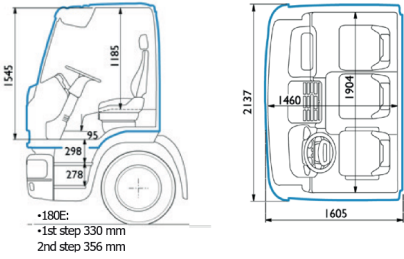
Forward control MLC-MLL day cab. Three way adjustable drivers seat with integral head restraint and safety belt. Dual fixed passenger seat with 50/50 split back rest, withhead restraints with one central lap and one outer diagonal and safety belt. Overhead lockers with doors. Windowless rear cab wall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

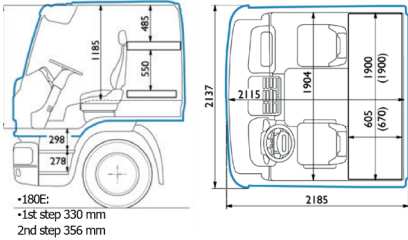
One step cab entry. Suspension helical springs and dampers. Hydraulic tilt to 60 deg. Pressed steel construction with injection moulded plastic for vulnerable components. Electric door windows and laminated windscreen. Heated rear view mirrors to EEC 2003/97 and 2005/27, including 2 wide angle, 1 kerb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

# Model Components

### 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

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

# Model Components

## 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

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## Miscellaneous

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### Fuelling:

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

Adblue tank capacity: 30 l.

### Braking system

Disc Brakes :

Diameter : front 432 x 45 mm ventilated disc.  
rear 432 x 45 mm ventilated disc.

Surface area : 816 cm<sup>2</sup>

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

Service brake.....ABS+ASR+EVSC

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

Exhaust brake.....Standard.

Air drier.....Standard.

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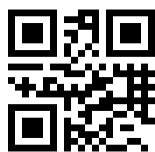
# IVECO

Drive the road of change

## **Body Builders Management**

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