

IVECO

Drive the road of change

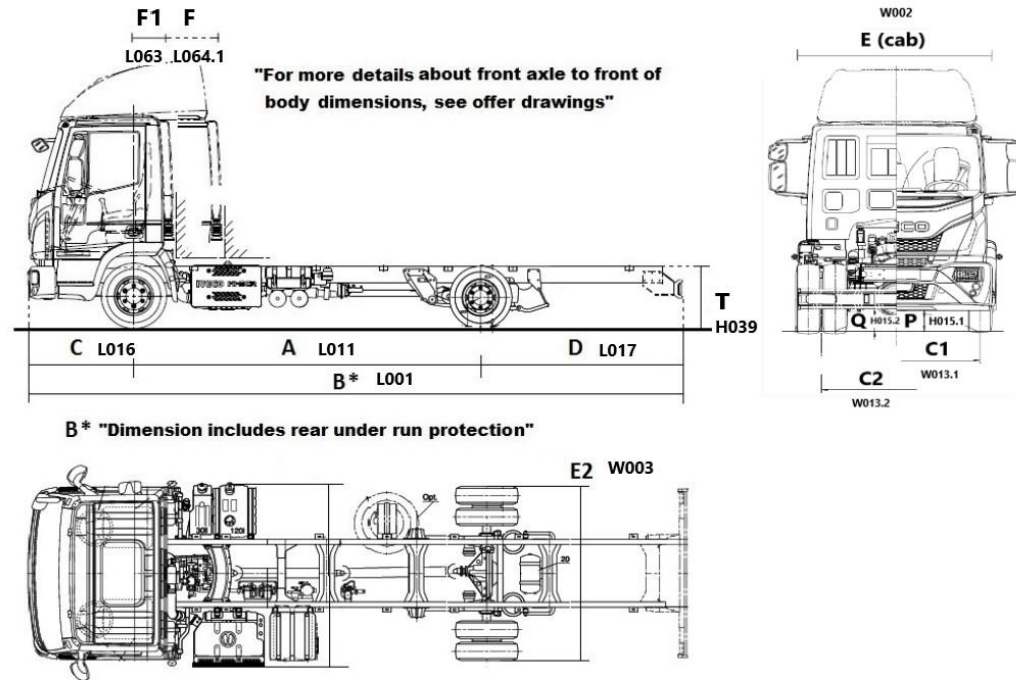


TECHNICAL DESCRIPTION

***EUROCARGO* ML100E19**

List of linked VCB

VCB code	Gearbox	Wheelbase	Cabin	Drive
1B2AC231	ZF 8AP800	3105	MLC-NS SX	LH
1B2AC23A	ZF 8AP800	3105	MLC-NS DX	RH
1B2AC2C1	6S 700 TO	3105	MLC-NS SX	LH
1B2AC2CA	6S 700 TO	3105	MLC-NS DX	RH
1B2AC331	ZF 8AP800	3330	MLC-NS SX	LH
1B2AC33A	ZF 8AP800	3330	MLC-NS DX	RH
1B2AC3C1	6S 700 TO	3330	MLC-NS SX	LH
1B2AC3CA	6S 700 TO	3330	MLC-NS DX	RH
1B2AC431	ZF 8AP800	3690	MLC-NS SX	LH
1B2AC432	ZF 8AP800	3690	MLL-NS SX	LH
1B2AC43A	ZF 8AP800	3690	MLC-NS DX	RH
1B2AC43B	ZF 8AP800	3690	MLL-NS DX	RH
1B2AC4C1	6S 700 TO	3690	MLC-NS SX	LH
1B2AC4C2	6S 700 TO	3690	MLL-NS SX	LH
1B2AC4CA	6S 700 TO	3690	MLC-NS DX	RH
1B2AC4CB	6S 700 TO	3690	MLL-NS DX	RH
1B2AC531	ZF 8AP800	4185	MLC-NS SX	LH
1B2AC532	ZF 8AP800	4185	MLL-NS SX	LH
1B2AC53A	ZF 8AP800	4185	MLC-NS DX	RH
1B2AC53B	ZF 8AP800	4185	MLL-NS DX	RH
1B2AC5C1	6S 700 TO	4185	MLC-NS SX	LH
1B2AC5C2	6S 700 TO	4185	MLL-NS SX	LH
1B2AC5CA	6S 700 TO	4185	MLC-NS DX	RH
1B2AC5CB	6S 700 TO	4185	MLL-NS DX	RH
1B2AC631	ZF 8AP800	4455	MLC-NS SX	LH
1B2AC632	ZF 8AP800	4455	MLL-NS SX	LH
1B2AC63A	ZF 8AP800	4455	MLC-NS DX	RH
1B2AC63B	ZF 8AP800	4455	MLL-NS DX	RH
1B2AC6C1	6S 700 TO	4455	MLC-NS SX	LH
1B2AC6C2	6S 700 TO	4455	MLL-NS SX	LH
1B2AC6CA	6S 700 TO	4455	MLC-NS DX	RH
1B2AC6CB	6S 700 TO	4455	MLL-NS DX	RH
1B2AC731	ZF 8AP800	4815	MLC-NS SX	LH
1B2AC732	ZF 8AP800	4815	MLL-NS SX	LH
1B2AC73A	ZF 8AP800	4815	MLC-NS DX	RH
1B2AC73B	ZF 8AP800	4815	MLL-NS DX	RH
1B2AC7C1	6S 700 TO	4815	MLC-NS SX	LH
1B2AC7C2	6S 700 TO	4815	MLL-NS SX	LH
1B2AC7CA	6S 700 TO	4815	MLC-NS DX	RH
1B2AC7CB	6S 700 TO	4815	MLL-NS DX	RH



B* "Dimension includes rear under run protection"

	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 - without snorkel (F1)	L063	390	390	390	390	390	390	970	970	970	970
Front axle to back of cab - including snorkel (F)	L064.1	510	510	510	510	510	510	1090	1090	1090	1090
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	744	743	739	739	738	737	739	739	738	737
Frame height at rear axle, unladen (d+dv)	H037	855	855	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)	L019	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	2558	2557	2553	2552	2552	2549	2553	2552	2552	2549
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
Ramp angle γ (°)	H12	15	15	15	14	13	13	15	14	13	13
Departure angle β (°)	H011	11	8	8	7	6	6	8	7	6	6
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	3529	3546	3573	3631	3642	3696	3735	3792	3804	3858
Kerbweight on Front Axle	M090	2533	2541	2565	2597	2605	2632	2689	2725	2735	2764
Kerbweight on Rear Axle	M100	996	1005	1008	1034	1037	1064	1046	1067	1069	1094
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

	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 front axles (EC)	M031	3600	3600	3600	3600	3600	3600	3600	3600	3600	3600
Plated weight on rear axles (EC)	M021	6800	6800	6800	6800	6800	6800	6800	6800	6800	6800
Max body & payload (Design)	M110	6471	6454	6427	6369	6358	6304	6265	6208	6196	6142

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	

MLC / MLL

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

Model Components

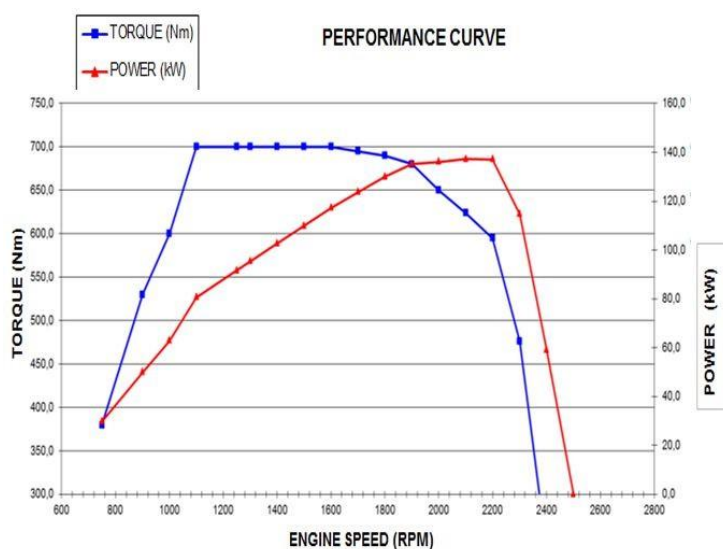
Engine

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 cm ³	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.



190 T5 - 190 T5 - Tector 5 (700 Nm) 4,5 lt - 4L

Maximum power: 137 kW (190 HP) @ 2200 rpm

Maximum torque: 70 Kg (700 Nm) @ 1100 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 700 TO	SYNCHRONIZED	ENGINE FLANGED	ALUMINIUM ALLOY	7.62	100	700	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 700 TO	6.02	3.32	2.07	1.4	1	0.79			5.58
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
20295	Optional	235/75R17,5	235/75R17,5	130/128	2.431
20009	Optional	9,5R17,5	9,5R17,5	129/127	2.568
20206	Optional	235/75R17,5	235/75R17,5	132/130	2.431
20832	Optional	215/75R17,5	215/75R17,5	126/124	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 700 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	
							10000		13500	
							1°	6°	1°	6°
3.21	6.02	0.79	16.31	124.30	1416	1593	35.08	3.08	25.11	2.12
3.38	6.02	0.79	15.49	118.05	1491	1678	37.23	3.39	26.57	2.34
3.73	6.02	0.79	14.04	106.97	1646	1851	41.81	3.99	29.63	2.79
4.1	6.02	0.79	12.77	97.32	1809	2035	46.90	4.59	32.95	3.24
4.56	6.02	0.79	11.48	87.50	2012	2263	53.69	5.31	37.21	3.77
4.88	6.02	0.79	10.73	81.76	2153	2422	58.77	5.80	40.29	4.13
5.57	6.02	0.79	9.40	71.64	2457	2764	71.06	6.83	47.28	4.89

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		B	
							10000		13500	
							1°	8°	1°	8°
3.21	4.890	0.639	20.08	153.67	1145	1289	27.78	1.85	20.05	1.21
3.38	4.890	0.639	19.07	145.95	1206	1357	29.41	2.15	21.20	1.43
3.73	4.890	0.639	17.28	132.25	1331	1497	32.85	2.72	23.58	1.85
4.1	4.890	0.639	15.72	120.32	1463	1646	36.60	3.27	26.15	2.26
4.56	4.890	0.639	14.14	108.18	1627	1831	41.46	3.92	29.40	2.74
4.88	4.890	0.639	13.21	101.09	1741	1959	45.00	4.34	31.72	3.05
5.57	4.890	0.639	11.57	88.56	1988	2236	53.15	5.23	36.88	3.71

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



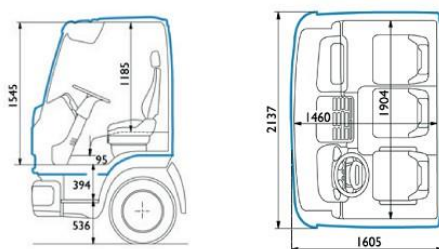
Day Cab Interior:

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, 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 storage shelf 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.

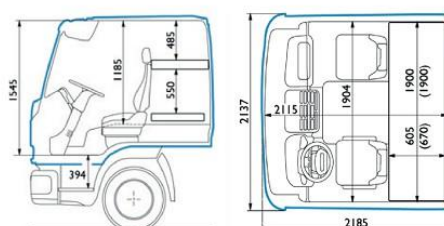
Day Cab Exterior:

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).

MLC CAB DIMENSIONS



MLL CAB DIMENSIONS



Model Components

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 & 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 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 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

Model Components

- 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.

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

TypeAir / hydraulic. Two independent circuits.

Service brake. .ABS+ASR+EVSC

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

Exhaust 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>