

IVECO

Drive the road of change

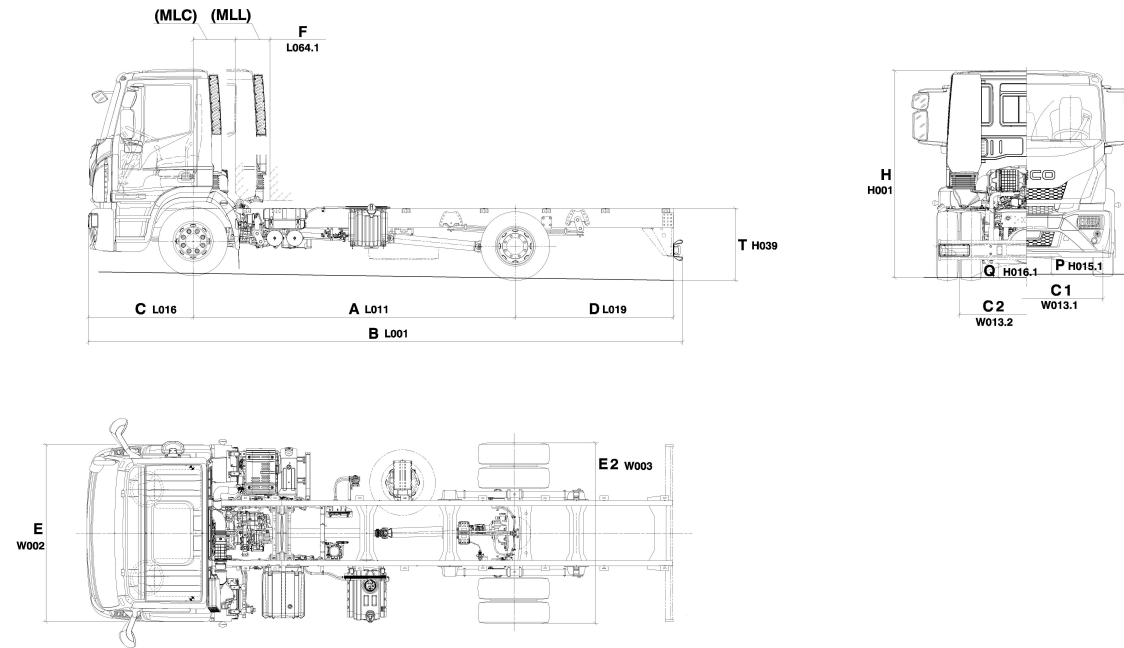


TECHNICAL DESCRIPTION

EUROCARGO MLI20E22-E5

List of linked VCB

VCB code	Gearbox	Wheelbase	Cabin	Drive
T4SAC2C1	6S 800 TO	3105	MLC-NS SX	LH
T4SAC2F1	9S 1110 TO	3105	MLC-NS SX	LH
T4SAC4C1	6S 800 TO	3690	MLC-NS SX	LH
T4SAC4C2	6S 800 TO	3690	MLL-NS SX	LH
T4SAC4F1	9S 1110 TO	3690	MLC-NS SX	LH
T4SAC4F2	9S 1110 TO	3690	MLL-NS SX	LH
T4SAC5C1	6S 800 TO	4185	MLC-NS SX	LH
T4SAC5C2	6S 800 TO	4185	MLL-NS SX	LH
T4SAC5F1	9S 1110 TO	4185	MLC-NS SX	LH
T4SAC5F2	9S 1110 TO	4185	MLL-NS SX	LH
T4SAC6C1	6S 800 TO	4455	MLC-NS SX	LH
T4SAC6C2	6S 800 TO	4455	MLL-NS SX	LH
T4SAC6F1	9S 1110 TO	4455	MLC-NS SX	LH
T4SAC6F2	9S 1110 TO	4455	MLL-NS SX	LH
T4SAC7C1	6S 800 TO	4815	MLC-NS SX	LH
T4SAC7C2	6S 800 TO	4815	MLL-NS SX	LH
T4SAC7F1	9S 1110 TO	4815	MLC-NS SX	LH
T4SAC7F2	9S 1110 TO	4815	MLL-NS SX	LH
T4SAC8C1	6S 800 TO	5175	MLC-NS SX	LH
T4SAC8C2	6S 800 TO	5175	MLL-NS SX	LH
T4SAC8F1	9S 1110 TO	5175	MLC-NS SX	LH
T4SAC8F2	9S 1110 TO	5175	MLL-NS SX	LH
T4SAC9C1	6S 800 TO	5670	MLC-NS SX	LH
T4SAC9C2	6S 800 TO	5670	MLL-NS SX	LH
T4SAC9F1	9S 1110 TO	5670	MLC-NS SX	LH
T4SAC9F2	9S 1110 TO	5670	MLL-NS SX	LH
T4SACBC1	6S 800 TO	6570	MLC-NS SX	LH
T4SACBC2	6S 800 TO	6570	MLL-NS SX	LH
T4SACBF1	9S 1110 TO	6570	MLC-NS SX	LH
T4SACBF2	9S 1110 TO	6570	MLL-NS SX	LH



BEP

DIMENSIONS (mm)

Wheelbase (A)	L011	3105 MLC	3690 MLC	4185 MLC	4455 MLC	4815 MLC	5175 MLC	5670 MLC	6570 MLC	3690 MLL	4185 MLL	4455 MLL	4815 MLL	5175 MLL	5670 MLL	6570 MLL
Max length (B)	L001	5895	6907	7717	8122	8752	9337	10147	11652	6907	7717	8122	8752	9337	10147	11652
Distance 1st-2nd axle	L012.1	3105	3690	4185	4455	4815	5175	5670	6570	3690	4185	4455	4815	5175	5670	6570
Max width over wings (cab) (E)	W002	2295	2295	2295	2295	2295	2295	2295	2295	2295	2295	2295	2295	2295	2295	2295
Overall width (rear tyres) (E2)	W003	2342	2342	2342	2342	2342	2342	2342	2342	2342	2342	2342	2342	2342	2342	2342
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	1090	1092	1094	1094	1095	1095	1095	1094	1093	1095	1095	1099	1096	1097	1096
Frame height at front axle, unladen (c+cv)	H035	884	884	883	883	885	882	882	881	878	877	877	878	877	876	875
Frame height at rear axle, unladen (d+dv)	H037	1029	1025	1025	1025	1023	1022	1021	1019	1024	1024	1024	1025	1021	1020	1018
Front overhang (C)	L016	1362	1362	1362	1362	1362	1362	1362	1362	1362	1362	1362	1362	1362	1362	1362
Rear overhang (D)	L019	1313	1740	2055	2190	2460	2685	3000	3605	1740	2055	2190	2460	2685	3000	3605

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BEP		DIMENSIONS (mm)														
Wheelbase (A)	L011	3105 MLC	3690 MLC	4185 MLC	4455 MLC	4815 MLC	5175 MLC	5670 MLC	6570 MLC	3690 MLL	4185 MLL	4455 MLL	4815 MLL	5175 MLL	5670 MLL	6570 MLL
Minimum ground clearance (front) (P)	H015.1	235	235	235	235	235	235	235	235	235	235	235	235	235	235	235
Minimum ground clearance (rear) (Q)	H016.1	183	183	183	183	183	183	183	183	183	183	183	183	183	183	183
Overall height to top of cab, unladen (H)	H001	2694	2695	2694	2694	2693	2692	2692	2690	2690	2689	2688	2689	2686	2686	2684
Turning diameter kerb to kerb	W011	11420	13200	14720	15540	16640	17740	19260	22000	13200	14720	15540	16640	17740	19260	22000
Turning diameter wall to wall	W012	12580	14360	15880	16720	17820	18920	20440	23180	14360	15880	16720	17820	18920	20440	23180
Front track (C1)	W013.1	1908	1908	1908	1908	1908	1908	1908	1908	1908	1908	1908	1908	1908	1908	1908
Rear track (C2)	W013.2	1749	1749	1749	1749	1749	1749	1749	1749	1749	1749	1749	1749	1749	1749	1749
Approach angle α (°)	H010	13	13	13	13	13	13	13	14	13	13	13	13	13	13	14
Ramp angle γ (°)	H12	29	26	20	18	17	16	16	14	26	20	18	17	16	16	14
Departure angle β (°)	H011	11	9	7	7	6	6	5	4	9	7	7	6	6	5	4
Side members thickness	H033/H034	5	5	5	6	6	6.7	6.7	6.7	5	5	6	6	6.7	6.7	6.7
Side members max height	H032	250	250	250	252	252	253.4	253.4	253.4	250	250	252	252	253.4	253.4	253.4
Side members flange width	W032	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
Frame width at rear	W036	850	850	850	852	852	853.4	853.4	853.4	850	850	852	852	853.4	853.4	853.4

BEP		WEIGHTS (KG)														
Wheelbase	L011	3105 MLC	3690 MLC	4185 MLC	4455 MLC	4815 MLC	5175 MLC	5670 MLC	6570 MLC	3690 MLL	4185 MLL	4455 MLL	4815 MLL	5175 MLL	5670 MLL	6570 MLL
Total vehicle kerb weight	M060	4318	4417	4452	4509	4567	4642	4689	4789	4588	4624	4680	4624	4813	4860	4960
Kerbweight on Front Axle	M090	3023	3023	3043	3066	3086	3105	3122	3151	3156	3181	3205	3181	3248	3268	3300
Kerbweight on Rear Axle	M100	1295	1394	1409	1443	1481	1537	1567	1638	1432	1443	1475	1443	1565	1592	1660
G.V.W. (EC)	M002	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000
G.V.W. (Design)	M001	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000
Plated weight on front axle (EC)	M041.1	4480	4480	4480	4480	4480	4480	4480	4480	4480	4480	4480	4480	4480	4480	4480
Plated weight on axle 1 (Design)	M040.1	4480	4480	4480	4480	4480	4480	4480	4480	4480	4480	4480	4480	4480	4480	4480
Plated weight on axle 2 (Design)	M040.2	8480	8480	8480	8480	8480	8480	8480	8480	8480	8480	8480	8480	8480	8480	8480
Plated weight on rear axle (EC)	M041.2	8480	8480	8480	8480	8480	8480	8480	8480	8480	8480	8480	8480	8480	8480	8480
Max body & payload (Design)	M110	7682	7583	7548	7491	7433	7358	7311	7211	7412	7376	7320	7376	7187	7140	7040

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.

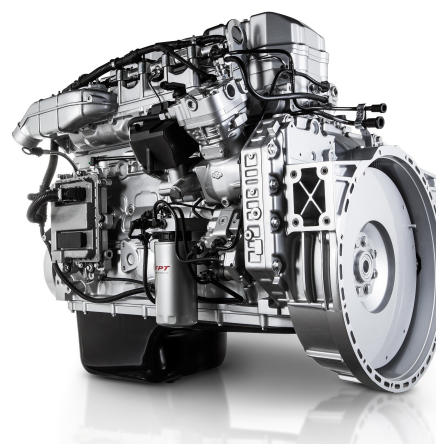
MLC		
Wheelbase	Type	Drawing
3105	Left hand drive vehicle drawing	5803347909
3690	Left hand drive vehicle drawing	5803347910
4185	Left hand drive vehicle drawing	5803347911
4455	Left hand drive vehicle drawing	5803347912
4815	Left hand drive vehicle drawing	5803347913
5175	Left hand drive vehicle drawing	5803347914
5670	Left hand drive vehicle drawing	5803347915
6570	Left hand drive vehicle drawing	5803347916
MLL		
Wheelbase	Type	Drawing
3690	Left hand drive vehicle drawing	5803347910
4185	Left hand drive vehicle drawing	5803347911
4455	Left hand drive vehicle drawing	5803347912
4815	Left hand drive vehicle drawing	5803347913
5175	Left hand drive vehicle drawing	5803347914
5670	Left hand drive vehicle drawing	5803347915
6570	Left hand drive vehicle drawing	5803347916
MLC / MLL		
Wheelbase	Type	Drawing
3690	Left hand drive vehicle drawing	5803347910
4185	Left hand drive vehicle drawing	5803347911
EUROCARGO		

MLC / MLL		
Wheelbase	Type	Drawing
4455	Left hand drive vehicle drawing	5803347912
4815	Left hand drive vehicle drawing	5803347913
5175	Left hand drive vehicle drawing	5803347914
5670	Left hand drive vehicle drawing	5803347915
6570	Left hand drive vehicle drawing	5803347916

Model Components

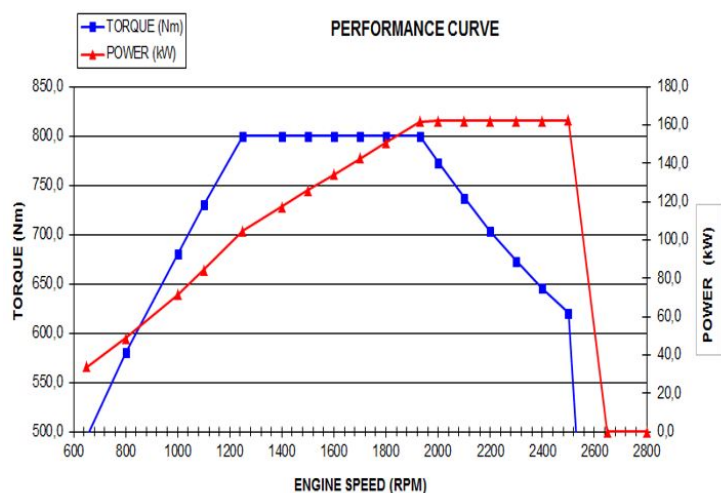
Engine

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.



220-E5 - TECTOR 220 CV EURO5

Maximum power: 162 kW (220 HP) @ 2500 rpm

Maximum torque: 81 Kgm (800 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 800 TO	MANUAL SYNCHRONIZED	ENGINE FLANGED	ALUMINIUM ALLOY	8.44	124	850	6	1	6
9S 1110 TO	SYNCHRONIZED	ENGINE FLANGED	ALUMINIUM ALLOY	12.64	136	1100	9	1	9

Gear ratios

Gearbox model	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	rev. 1st
6S 800 TO	6.58	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

Clutch

Gearbox model	Type	Adjustment	Outer diameter mm	Outer diameter (inches)	Release control
6S 800 TO	SINGLE DRY PLATE	AUTOMATIC	395	15.5"	MECH./HYDRAULIC
9S 1110 TO	SINGLE DRY PLATE	AUTOMATIC	395	15.5"	MECH./HYDRAULIC

Rear Axle Ratio

Option code	00007	00015	00738 *	02005	02006	02010 *	02021	04816	06025	06055
Ratio	6.14	5.29	4.63	3.42	3.73	4.88	4.111	4.33	5.57	3.9

*: Standard axle ratio

Tyres & Wheels

Code	Tyres	Front	Rear	Load index	Rolling circumference m
20076	Standard	285/70R19,5	285/70R19,5	146/144	2.73
20164	Optional	10R22,5	10R22,5	144/142	3.111
20075	Optional	265/70R19,5	265/70R19,5	140/138	2.644
20074	Optional	245/70R19,5	245/70R19,5	136/134	2.559
20602	Optional	285/70R19,5	285/70R19,5	146/144	2.73

Axles

Position	Description
Front	5860 CS - Iveco axle - narrow track
Rear	MS10-144 - Arvin Meritor Rear axle S.R.

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: 20076 - 285/70R19.5 - 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		B	
							12000		15500	
							1°	6°	1°	6°
3.42	6.58	0.78	18.20	153.51	1301	1464	33.90	2.38	25.51	1.71
3.73	6.58	0.78	16.68	140.75	1419	1597	37.45	2.88	28.06	2.10
3.9	6.58	0.78	15.96	134.62	1484	1669	39.45	3.14	29.48	2.30
4.111	6.58	0.78	15.14	127.71	1564	1760	41.99	3.45	31.26	2.54
4.33	6.58	0.78	14.37	121.25	1648	1854	44.70	3.76	33.14	2.78
4.63	6.58	0.78	13.44	113.39	1762	1982	48.55	4.17	35.77	3.10
4.88	6.58	0.78	12.75	107.58	1857	2089	51.90	4.51	38.01	3.36
5.29	6.58	0.78	11.76	99.24	2013	2265	57.72	5.04	41.80	3.77
5.57	6.58	0.78	11.17	94.25	2119	2384	61.95	5.40	44.48	4.04
6.14	6.58	0.78	10.14	85.50	2336	2628	71.41	6.11	50.20	4.59

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 12000		B 15500	
							1°	9°	1°	9°
3.42	9.48	0.75	12.63	159.65	1251	1408	52.55	2.16	38.44	1.54
3.73	9.48	0.75	11.58	146.38	1365	1535	58.96	2.66	42.60	1.92
3.9	9.48	0.75	11.08	140.00	1427	1605	62.72	2.91	44.96	2.12
4.111	9.48	0.75	10.51	132.81	1504	1692	67.66	3.22	47.97	2.36
4.33	9.48	0.75	9.98	126.10	1584	1782	73.18	3.52	51.22	2.60
4.63	9.48	0.75	9.33	117.93	1694	1906	81.52	3.93	55.89	2.91
4.88	9.48	0.75	8.85	111.89	1785	2009	89.36	4.26	60.01	3.16
5.29	9.48	0.75	8.17	103.21	1935	2177	100.00	4.78	67.29	3.57
5.57	9.48	0.75	7.76	98.03	2038	2293	100.00	5.12	72.72	3.83
6.14	9.48	0.75	7.04	88.93	2246	2527	100.00	5.81	85.29	4.37

Suspensions

Front mechanical suspension:
No. of leaves: 3

Rear mechanical suspension:
No. of leaves: 3+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 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 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

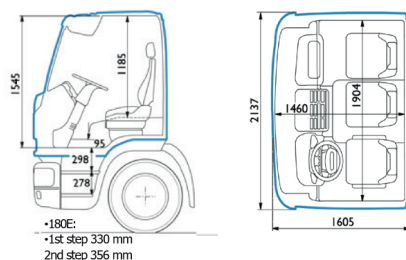
Day Cab Exterior:

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.

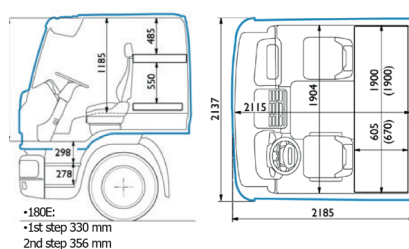
Rear view mirrors: Euro V range : standard : "mirror 2003/97/CE " (compliant with UNIECE 46) / Euro III range: standard: "tubular arms mirror" (compliant with 88/321/EC)" including 2 wide angle, 1 kerb view and 1 frontview mirror (only on Euro 5 version).

LED day time running lights (DTRL).

MLC CAB DIMENSIONS



MLL CAB DIMENSIONS



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 :120 LT, plastic; filter; fuel pump, prefilter; fuel separator.

Adblue tank capacity for Euro V: 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. Two independent circuits.
Service brake.....ABS+ASR
Parking.....Spring parking brake on rear axle.
Exhaust brake.....Standard.
Air drier.....Standard.

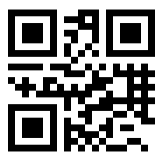


Drive the road of change

Body Builders Management

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