

TRAKKER

TECHNICAL DESCRIPTION M.Y. 2013 EXTRA EUROPE EURO 3



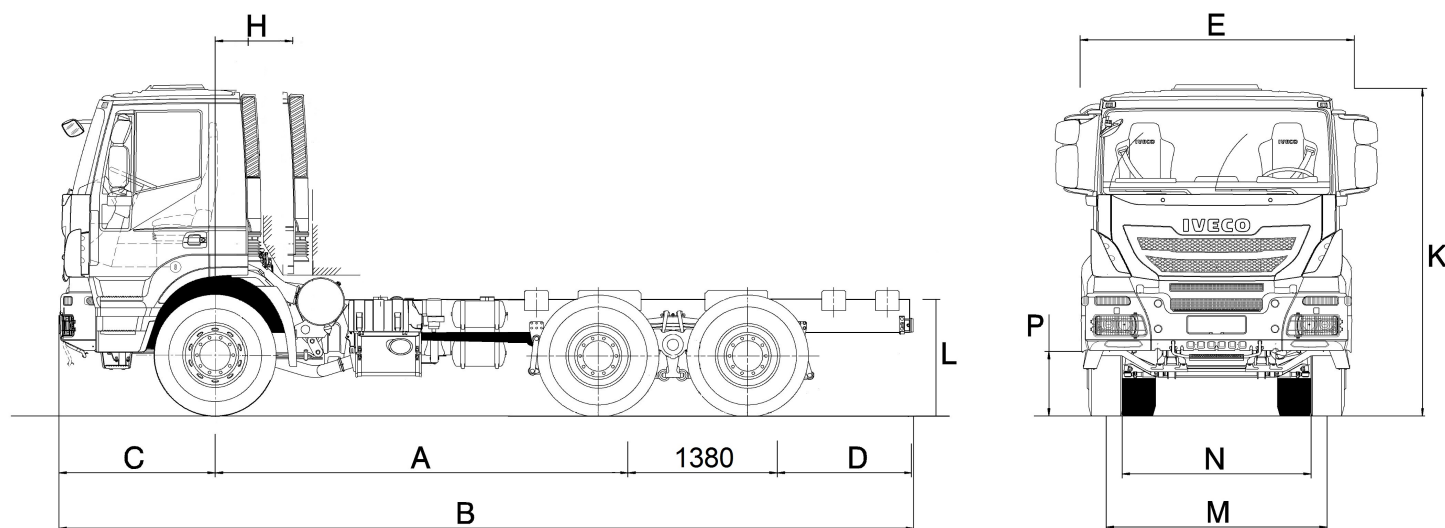
AD380T38 H - CAB WORLD 6x4

IVECO

LIST OF LINKED VCB

VCB code	Gearbox	Wheelbase	Cabin	Drive
VTAC11BI	I6S 2220 TO	3200	AD-MY SX	LH
VTAC11B3	I6S 2220 TO	3200	AD-MY SX	LH
VTAC11BA	I6S 2220 TO	3200	AD-MY DX	RH
VTAC11BC	I6S 2220 TO	3200	AD-MY DX	RH
VTAC11DI	I6AS 2630 TO	3200	AD-MY SX	LH
VTAC11D3	I6AS 2630 TO	3200	AD-MY SX	LH
VTAC11DA	I6AS 2630 TO	3200	AD-MY DX	RH
VTAC11DC	I6AS 2630 TO	3200	AD-MY DX	RH
VTAC12BI	I6S 2220 TO	3500	AD-MY SX	LH
VTAC12B3	I6S 2220 TO	3500	AD-MY SX	LH
VTAC12BA	I6S 2220 TO	3500	AD-MY DX	RH
VTAC12BC	I6S 2220 TO	3500	AD-MY DX	RH
VTAC12DI	I6AS 2630 TO	3500	AD-MY SX	LH
VTAC12D3	I6AS 2630 TO	3500	AD-MY SX	LH
VTAC12DA	I6AS 2630 TO	3500	AD-MY DX	RH
VTAC12DC	I6AS 2630 TO	3500	AD-MY DX	RH
VTAC13BI	I6S 2220 TO	3820	AD-MY SX	LH
VTAC13B3	I6S 2220 TO	3820	AD-MY SX	LH
VTAC13BA	I6S 2220 TO	3820	AD-MY DX	RH
VTAC13BC	I6S 2220 TO	3820	AD-MY DX	RH
VTAC13DI	I6AS 2630 TO	3820	AD-MY SX	LH
VTAC13D3	I6AS 2630 TO	3820	AD-MY SX	LH
VTAC13DA	I6AS 2630 TO	3820	AD-MY DX	RH
VTAC13DC	I6AS 2630 TO	3820	AD-MY DX	RH
VTAC14BI	I6S 2220 TO	4200	AD-MY SX	LH
VTAC14B3	I6S 2220 TO	4200	AD-MY SX	LH
VTAC14BA	I6S 2220 TO	4200	AD-MY DX	RH
VTAC14BC	I6S 2220 TO	4200	AD-MY DX	RH
VTAC14DI	I6AS 2630 TO	4200	AD-MY SX	LH
VTAC14D3	I6AS 2630 TO	4200	AD-MY SX	LH
VTAC14DA	I6AS 2630 TO	4200	AD-MY DX	RH
VTAC14DC	I6AS 2630 TO	4200	AD-MY DX	RH
VTAC15BI	I6S 2220 TO	4500	AD-MY SX	LH
VTAC15B3	I6S 2220 TO	4500	AD-MY SX	LH
VTAC15BA	I6S 2220 TO	4500	AD-MY DX	RH
VTAC15BC	I6S 2220 TO	4500	AD-MY DX	RH
VTAC15DI	I6AS 2630 TO	4500	AD-MY SX	LH
VTAC15D3	I6AS 2630 TO	4500	AD-MY SX	LH
VTAC15DA	I6AS 2630 TO	4500	AD-MY DX	RH
VTAC15DC	I6AS 2630 TO	4500	AD-MY DX	RH

DIMENSIONS & WEIGHTS



DIMENSIONS (MM)

Wheelbase (A) 3200 1380 3500 1380 3820 1380 4200 1380 4500 1380

Max length (B)	7568	7997	8267	9257	9527
Max width over wings (cab) (E)	2550	2550	2550	2550	2550
Overall width (rear tyres) (E2)	2498	2498	2498	2498	2498
Front axle to front of body (H)	445	445	445	445	445
Frame height at end of frame, unladen (L)	1100	1100	1100	1100	1100
Frame height at front axle, unladen	1139	1139	1139	1139	1139
Frame height at rear axle, unladen	1110	1110	1110	1110	1110
Front overhang (C)	1440	1440	1440	1440	1440
Rear overhang (D)	1495	1495	1495	2080	2080
Minimum ground clearance (front) (P)	337	337	337	337	337
Minimum ground clearance (rear) (Q)	310	310	310	310	310
Overall height to top of cab, unladen (K)	3106	3106	3106	3106	3106
Turning diameter kerb to kerb	14800	15500	16300	17250	18000
Turning diameter wall to wall	15950	16650	17450	18400	19150
Front track (M)	2040	2040	2040	2040	2040
Rear track (N)	1827	1827	1827	1827	1827
Side members thickness	10	10	10	10	10
Side members max height	309	309	309	309	309
Side members flange width	80	80	80	80	80
Frame width at rear	776	776	776	776	776

WEIGHTS (KG)

Wheelbase	3200 1380	3500 1380	3820 1380	4200 1380	4500 1380
Total vehicle kerb weight	9390	9420	9470	9550	9620
Kerbweight on Front Axle	4730	4750	4775	4775	4765
Kerbweight on Rear Axles	4660	4670	4695	4775	4855
G.V.W. (EC)	26000	26000	26000	26000	26000
G.V.W. (Design)	33000	33000	33000	33000	33000
Plated weight on axle 1 (Design)	8000	8000	8000	8000	8000
Plated weight on axle 2 (Design)	13000	13000	13000	13000	13000
Plated weight on axle 3 (Design)	13000	13000	13000	13000	13000
Max body & Payload	16610	16580	16530	16450	16380
Max body & payload (Design)	23610	23580	23530	23450	23380

Notes:

Weights are to standard configuration and include: chassis cab (or the tractor), driver (75 kg), full fuel tank, Adblue (if present), tools kit and spare wheel (if present).

The height of the side member includes the thickness as well.

The values of the plated weights / GVW can vary according to the markets and the homologations.

Wheelbase	Type	Drawing
3200 1380	Left hand drive	41841321
3500 1380	Left hand drive	41841322
3820 1380	Left hand drive	41841323
4200 1380	Left hand drive	41841324
4500 1380	Left hand drive	41841325

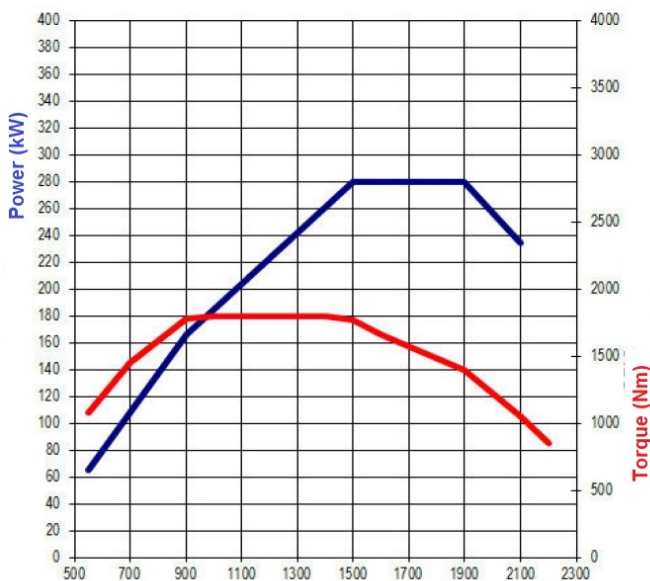
MODEL COMPONENTS

ENGINE

Commercial name	CURSOR 13 - F3B
Position	FRONT
Cycle	DIESEL
Aspiration type	TC+INTERCOOLER
Injection type	UNIT INJECTOR
4 Stroke / 2 Stroke cycle	4
No. of cylinders	6
Cylinders layout	IN-LINE
Bore mm	135
Stroke mm	150
Total displacement cm ³	12880
Weight (without oil / water) Kg	1117
Oil capacity (Kg)	31
Bearings	7
Injection governor type	EDC
Cold starting type	THERMOSTARTER
Hydraulic steering pump	YES
Emissions control	EURO3
Cooling system	water
Fan type	electromagnetic
Air intake	WITH SNORKEL
Snorkel position	BEHIND THE CAB ON THE LEFT
Filter type	DRY

DRIVELINE

Cursor 13 - 380 HP



380 E3 - CURSOR13 380 CV E3 (E4 DERIV)

Maximum power: 279 kW (380 HP) @ 1900 rpm

Maximum torque: 183 Kgm (1800 Nm) @ 900 rpm

The central electronic system controls the following functions:

. Engine preheating, fuel preheating, Waste Gate, injection control, engine brake, control of engine speed and torque, data exchange OBD with ScanTool, engine diagnostic (on- and off-board), control of blink-code and failure indicator light on dashboard, control of engine idling speed and max. engine speed, data exchange with VCM (vehicle control module), supervision of emission values.

Engine Brake:

In order to increase engine brake performances, it has been introduced a combined action of decompression valve and butterfly valve on exhaust manifold.

Fan:

two speeds electronically controlled electro-magnetic coupling unit.

MODEL COMPONENTS

GEARBOX

Gearbox model	Gearbox Type	Installation	Box material	Total ratio speed	Dry weight Kg	Clutch type	Max input torque Nm	No. of forward gears	No. of reverse gears
16AS 2630 TO	AUTOMATED	ENGINE FLANGED	ALUMINIUM ALLOY	17.01	268	Electrical-air (semiautom.)	2600	16	2
16S 2220 TO	SYNCRONIZED	ENGINE FLANGED	ALUMINIUM ALLOY		306 - (w/o retarder)	Dry clutch	2200	16	2

GEAR RATIOS

Gearbox model	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th	16th	rev. 1st	rev. 2nd		
16AS 2630 TO	14.12	11.68	9.54	7.89	6.52	5.39	4.57	3.78	3.09	2.56	2.09	1.73	1.43	1.18	1	.83	13.07	10.81		
16S 2220 TO	13.8	11.54	9.49	7.93	6.53	5.46	4.57	3.82	3.02	2.53	2.08	1.74	1.43	1.2	1.00	.84	12.92	10.8		

CLUTCH

Gearbox model	Type	Outer diameter mm	Outer diameter (inches)			
16AS 2630 TO	Single dry plate	430	17			
16S 2220 TO	Single dry plate	430	17			

REAR AXLE RATIO

Option code	05003	06017 *	06019 *	06021	06032	06034	06036
Ratio	6.096	4.227	4.67	5.01	3.792	5.56	6.57

*: Standard axle ratio

TYRES & WHEELS

Code	Tyres	Front	Rear	Dynamic Radius m	Rolling resistance Coefficient	Load index	Speed index	Rolling circumference m
20079	Standard	13R22,5	13R22,5	.543	.0072	156/150	K = 110 KM/H	3.41
20764	Optional	12,00R24	12,00R24	.595	.005	156/153	G = 90 KM/H	3.737
20885	Optional	385/65R22,5	315/80R22,5	.522	.006	156/150	K = 110 KM/H	3.278
20795	Optional	315/80R22,5	315/80R22,5	.522	.006	156/150	L = 120 KM/H	3.278
20497	Optional	12,00R20	12,00R20	.545	.005	154/149	K = 110 KM/H	3.422
20790	Optional	315/80R22,5	315/80R22,5	.522	.006	156/150	L = 120 KM/H	3.282
20081	Optional	13R22,5	13R22,5	.54	.007	156/150	G = 90 KM/H	3.428

AXLES

Position	Description
Front	5886/2D - Iveco Axle (Drum brake D.D.)
Front	5886/D - Iveco axle (Disc brake SB7)
Rear	453291/2D - Tandem H.R. (Drum brake 2D)

As an alternative: front axle with disc brakes or drum brakes.

Braking system : Service brake: air - No. of circuits: 2 - Air dryer - ABS / EBL (Electronic brake limitation) - Auxiliary brake / Engine brake: decompression engine brake - Emergency brake: combined with parking brake - Parking brake: mechanical with spring cylinder - Parking brake axle: rear axle - Air compressor: single cylinder - Air compressor displacement cm³ 352 - Number of air tanks: 5 x 20 - Total tank capacity (l): 100

Brakes type with disc on front axle: Disc diameter (mm): 432 - friction area (cm²) 784

Brakes type with drum on rear axle: Drum diameter (mm): 410 - friction area (cm²) 3220

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. When calculating with more than one tyres or more than one axle ratio, availability of each combination must be checked.

Speed and gradeability values are rounded.

A = Total Weights (solo vehicle) Kg - Max Gradeability %

B = Total Weights (vehicle+trailer) Kg - Max Gradeability %

Tyre: 20079 - TYRES 13R22.5 - 156/- MIXED USE - G/J								Efficiency: 0.91				No transfer box						
Gearbox model 16AS 2630 TO																		
Axle Ratio	Gear Ratio 1°	Gear Ratio 16°	Speed km/h 1°	Speed km/h 16°	RPM at 80 km/h	RPM at 90 km/h	A						B					
							26000		33000		34000		40000		44000		60000	
							1°	16°	1°	16°	1°	16°	1°	16°	1°	16°	1°	16°
3.792	14.12	0.83	7.26	123.51	1230	1384	80.28	2.69	56.47	1.97	54.28	1.89	44.22	1.50	39.45	1.30	27.73	0.76
4.227	14.12	0.83	6.51	110.80	1371	1542	97.66	3.18	65.68	2.35	62.93	2.26	50.62	1.81	44.94	1.58	31.30	0.97
4.67	14.12	0.83	5.90	100.29	1515	1704	100.00	3.66	76.43	2.73	72.92	2.63	57.69	2.13	50.90	1.87	35.05	1.18
5.01	14.12	0.83	5.50	93.49	1625	1828	100.00	4.02	85.99	3.02	81.68	2.91	63.59	2.36	55.79	2.08	38.02	1.33
5.56	14.12	0.83	4.95	84.24	1803	2029	100.00	4.60	100.00	3.47	98.80	3.34	74.29	2.73	64.40	2.42	43.02	1.58
6.096	14.12	0.83	4.52	76.83	1977	2225	100.00	5.15	100.00	3.90	100.00	3.77	86.57	3.09	73.90	2.75	48.16	1.82
6.57	14.12	0.83	4.19	71.29	2131	2397	100.00	5.63	100.00	4.28	100.00	4.14	99.67	3.41	83.54	3.03	52.99	2.03
Gearbox model 16S 2220 TO																		
Axle Ratio	Gear Ratio 1°	Gear Ratio 16°	Speed km/h 1°	Speed km/h 16°	RPM at 80 km/h	RPM at 90 km/h	A						B					
							26000		33000		34000		40000		44000		60000	
							1°	16°	1°	16°	1°	16°	1°	16°	1°	16°	1°	16°
3.792	13.8	0.84	7.43	122.04	1245	1400	77.32	2.74	54.78	2.01	52.68	1.93	43.01	1.53	38.40	1.33	27.04	0.78
4.227	13.8	0.84	6.66	109.48	1388	1561	93.43	3.24	63.55	2.40	60.94	2.30	49.17	1.85	43.70	1.62	30.50	0.99
4.67	13.8	0.84	6.03	99.10	1533	1725	100.00	3.72	73.71	2.78	70.40	2.68	55.94	2.17	49.44	1.90	34.14	1.20
5.01	13.8	0.84	5.62	92.37	1645	1850	100.00	4.09	82.64	3.07	78.63	2.95	61.57	2.40	54.12	2.12	37.01	1.36
5.56	13.8	0.84	5.07	83.23	1825	2053	100.00	4.67	100.00	3.52	94.47	3.40	71.69	2.78	62.34	2.46	41.85	1.61
6.096	13.8	0.84	4.62	75.92	2001	2251	100.00	5.23	100.00	3.96	100.00	3.82	83.18	3.14	71.33	2.79	46.81	1.85
6.57	13.8	0.84	4.29	70.44	2157	2426	100.00	5.71	100.00	4.35	100.00	4.20	95.27	3.46	80.37	3.08	51.44	2.06

MODEL COMPONENTS

CABIN

Remarks:

Athermic windows.

Doors with fabric and plastic covering, storage compartments, bottle-holder, defrost system for door windows, arm rests;
Corrosion protection, underseal and cavity sealing with wax.

No. of places: 1 (with medium roof) - 2 (with low roof)

Driver's seat:

Head rest, seat belts, fabric covering.

Passenger's seat (AT low roof only):

Fixed, 2 way adjustable (longitudinal +adjustable back), head rest, seat belts, fabric covering.

Roof panel:

Prearrangement for revolving roof lamp (opt. 2477) (AT low roof only).

Roof hatch (electrical control) with athermic glass (AT medium roof only).

Exterior equipment:

External storage box (on side wall) opened from inside, front bumper with steps, mudguard, front grille, front towing hook (removable), side spoilers as splash protection, mudflaps, external engine starter (when cab is tilted) including safety device, rear cab lighting (tractors only).

Floor:

Removable mats.

Interior equipment:

Adjustable steering column (pneumatic control), storage compartments, shelves in overhead console, shelves at floor level, interior lights, 2 spotlights (steps lighting), sun visor, flexible spotlight on side wall, curtains.

Interior equipment - prearrangement for:

Tachograph, loud-speaker, aerial, passenger seat (AT / medium roof), rack, additional air heater.

Central console:

can holders, small storage compartment, central panel, adjustable air vents, 2 ash-trays, lighter / 24 V, heating control / manually adjusted air conditioning system, compressed air socket for removing dust, 12 V socket, parking brake lever, holder for mobile telephone.

FRAMES

Wheelbase	3200	3500	3820	4200	4500
Front crossmembers	BOLTED	BOLTED	BOLTED	BOLTED	BOLTED
Middle crossmember	RIVETED	RIVETED	RIVETED	RIVETED	RIVETED
Rear crossmember	BOLTED	BOLTED	BOLTED	BOLTED	BOLTED
Frame section	DOUBLE	DOUBLE	DOUBLE	DOUBLE	DOUBLE
Section shape	"C"	"C"	"C"	"C"	"C"
Side members material	STEEL	STEEL	STEEL	STEEL	STEEL

BATTERY

Electrics

Voltage V	24
Alternator power V/A	28 / 90
Starter power kW	5.5
No. of batteries	2
Batteries capacity V/Ah	12 / 170

MODEL COMPONENTS

DISC BRAKES

Brake system:

Service brake: air - No. of circuits: 2 - Air dryer - ABS / EBL (Electronic brake limitation) - Auxiliary brake / Engine brake: decompression engine brake - Emergency brake: combined with parking brake - Parking brake: mechanical with spring cylinder - Parking brake axle(s): rear axle(s) - Air compressor: single cylinder - Air compressor displacement cm³ 352 - Number of air tanks: 4 x 20 - Total tank capacity (l): 80

Brakes type with drum on front axle:

Drum diameter (mm): 410 - linings width (mm): 180 - brake cylinder diameter (sqin): 2 x 14 / 2 x 14 - friction area (cm²) 2884

Brakes type with drum on rear axle:

Drum diameter (mm): 410 - linings width (mm): 200 - brake cylinder diameter (sqin): 2 x 14 / 2 x 14 - friction area (cm²) 3220

MISCELLANEOUS

Fuelling:

Fuel tank :300 litres,steel, filter, fuel pump, prefilter, fuel separator.

Steering:

Recirculating balls - power assisted.
Steering wheel diameter: 510 mm.
Steering wheel adjustment: height and inclination.
Steering wheel lock.

Engine compartment:

Sound-proof.



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