

TRAKKER

TECHNICAL DESCRIPTION M.Y. 2013 EXTRA EUROPE EURO 3



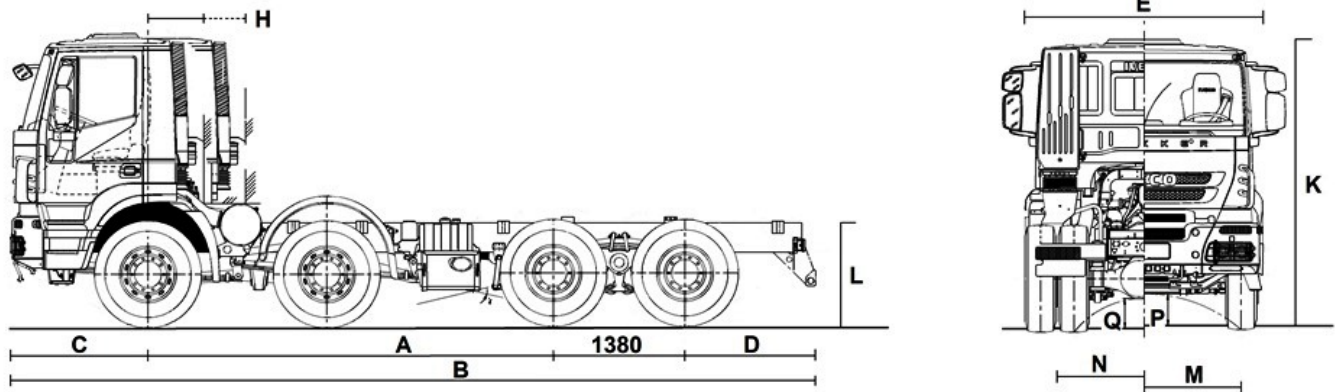
AD4I0T42 H - CAB WORLD 8x4x4

IVECO

LIST OF LINKED VCB

VCB code	Gearbox	Wheelbase	Cabin	Drive
VWBC11B1	16S 2220 TO	4250	AD-MY SX	LH
VWBC11B3	16S 2220 TO	4250	AD-MY SX	LH
VWBC11BA	16S 2220 TO	4250	AD-MY DX	RH
VWBC11BC	16S 2220 TO	4250	AD-MY DX	RH
VWBC11D1	16AS 2630 TO	4250	AD-MY SX	LH
VWBC11D3	16AS 2630 TO	4250	AD-MY SX	LH
VWBC11DA	16AS 2630 TO	4250	AD-MY DX	RH
VWBC11DC	16AS 2630 TO	4250	AD-MY DX	RH
VWBC13B1	16S 2220 TO	5020	AD-MY SX	LH
VWBC13B3	16S 2220 TO	5020	AD-MY SX	LH
VWBC13BA	16S 2220 TO	5020	AD-MY DX	RH
VWBC13BC	16S 2220 TO	5020	AD-MY DX	RH
VWBC13D1	16AS 2630 TO	5020	AD-MY SX	LH
VWBC13D3	16AS 2630 TO	5020	AD-MY SX	LH
VWBC13DA	16AS 2630 TO	5020	AD-MY DX	RH
VWBC13DC	16AS 2630 TO	5020	AD-MY DX	RH
VWBC14B1	16S 2220 TO	5820	AD-MY SX	LH
VWBC14B3	16S 2220 TO	5820	AD-MY SX	LH
VWBC14BA	16S 2220 TO	5820	AD-MY DX	RH
VWBC14BC	16S 2220 TO	5820	AD-MY DX	RH
VWBC14D1	16AS 2630 TO	5820	AD-MY SX	LH
VWBC14D3	16AS 2630 TO	5820	AD-MY SX	LH
VWBC14DA	16AS 2630 TO	5820	AD-MY DX	RH
VWBC14DC	16AS 2630 TO	5820	AD-MY DX	RH

DIMENSIONS & WEIGHTS



DIMENSIONS (MM)

Wheelbase (A)	4250	1380	5020	1380	5820	1380
Max length (B)	8447		9482		10022	
Max width over wings (cab) (E)	2550		2550		2550	
Overall width (rear tyres) (E2)	2498		2498		2498	
Front axle to front of body (H)	585		585		585	
Frame height at end of frame, unladen (L)	1087		1087		1093	
Frame height at front axle, unladen	1170		1170		1170	
Frame height at rear axle, unladen	1110		1110		1110	
Front overhang (C)	1440		1440		1440	
Rear overhang (D)	1225		1495		1225	
Minimum ground clearance (front) (P)	337		337		337	
Minimum ground clearance (rear) (Q)	310		310		310	
Overall height to top of cab, unladen (K)	3147		3147		3147	
Turning diameter kerb to kerb	17100		19150		21150	
Turning diameter wall to wall	18400		20450		22450	
Front track (M)	2040		2040		2040	
Rear track (N)	1827		1827		1827	
Side members thickness	10		10		10	
Side members max height	309		309		309	
Side members flange width	80		80		80	
Frame width at rear	776		776		776	

WEIGHTS (KG)

Wheelbase	4250 1380	5020 1380	5820 1380
Total vehicle kerb weight	10560	10710	10780
Kerbweight on Front Axles	6830	6895	6935
Kerbweight on Rear Axles	3730	3815	3845
G.V.W. (Design)	40000	40000	40000
Plated weight on axle 1 (Design)	8000	8000	8000
Plated weight on axle 2 (Design)	8000	8000	8000
Plated weight on axle 3 (Design)	13000	13000	13000
Plated weight on axle 4 (Design)	13000	13000	13000
Max body & payload (Design)	29440	29290	29220

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
4250 1380	Left hand drive	41841328
5020 1380	Left hand drive	41841329
5820 1380	Left hand drive	41841330

MODEL COMPONENTS

ENGINE

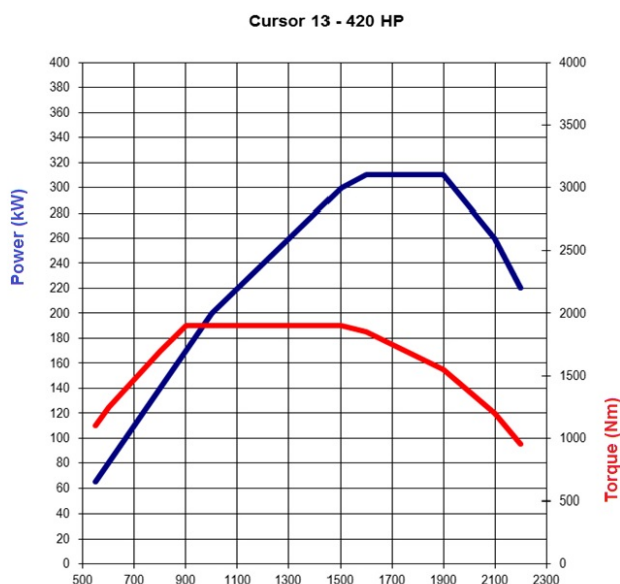
Commercial name	CURSOR 13 - F3B
Position	FRONT
Cycle	DIESEL
Aspiration type	TC+INTERCOOLER
Injection type	UNIT INJECTOR
4 Stroke / 2 Stroke cycle	4
No. of cylinders	6
Cylinders layout	IN-LINE
Bore mm	135
Stroke mm	150
Total displacement cm ³	12880
Weight (without oil / water) Kg	1117
Oil capacity (Kg)	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

420 E3 - CURSOR13 420 CV E3 (E4 DERIV)

Maximum power: 309 kW (420 HP) @ 1900 rpm

Maximum torque: 224 Kgm (1900 Nm) @ 900 rpm



Power loss: 0 per cent up to 1500 m of altitude

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.

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)
Third	5886/2D - Tag axle (8x4) (Drum br. D.D.)
Third	5886/D - Tag axle (8x4) (Disc br. SB7)

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

Notes:

Trakker

models AD-AT 410T..H

Drum diameter (mm): 410 - linings width (mm): 180 - brake cylinder diameter (sqin): 2 x 16

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	
							1°	16°	1°	16°
							4.227	14.12	0.83	6.51
4.67	14.12	0.83	5.90	100.29	1515	1704				
5.01	14.12	0.83	5.50	93.49	1625	1828				
5.56	14.12	0.83	4.95	84.24	1803	2029				
6.096	14.12	0.83	4.52	76.83	1977	2225				
6.57	14.12	0.83	4.19	71.29	2131	2397				

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	
							1°	16°	1°	16°
							3.792	13.8	0.84	7.43
4.227	13.8	0.84	6.66	109.48	1388	1561				
4.67	13.8	0.84	6.03	99.10	1533	1725				
5.01	13.8	0.84	5.62	92.37	1645	1850				
5.56	13.8	0.84	5.07	83.23	1825	2053				
6.096	13.8	0.84	4.62	75.92	2001	2251				
6.57	13.8	0.84	4.29	70.44	2157	2426				

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	4250	5020	5820
Front crossmembers	BOLTED	BOLTED	BOLTED
Middle crossmember	RIVETED	RIVETED	RIVETED
Rear crossmember	BOLTED	BOLTED	BOLTED
Frame section	DOUBLE	DOUBLE	DOUBLE
Section shape	"C"	"C"	"C"
Side members material	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.



IVECO