

# IVECO **T-WAY**

## TECHNICAL DESCRIPTION



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AD380T47 H - Chassis Cab 6x4

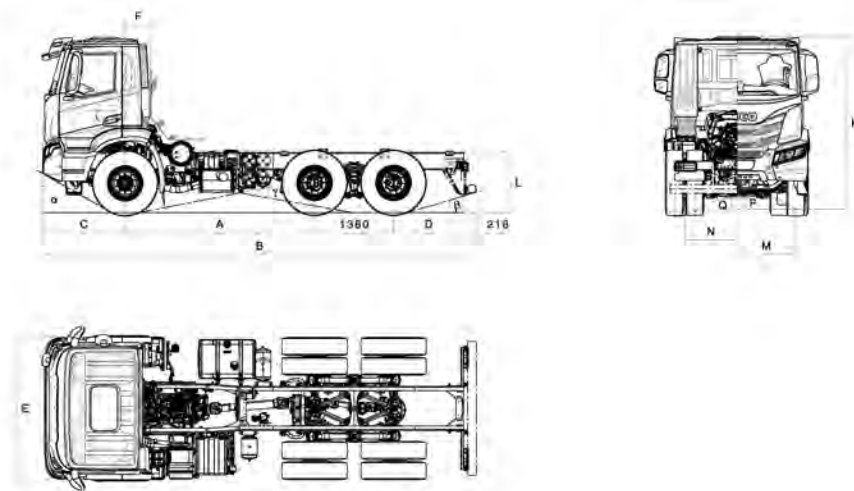
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**IVECO**

**LIST OF LINKED VCB**

<b>VCB code</b>	<b>Gearbox</b>	<b>Wheelbase</b>	<b>Cabin</b>	<b>Drive</b>
S6GIL1B1	I6S 2520 TO	3300	AD-SX	LH
S6GIL1B3	I6S 2520 TO	3300	AD-SX	LH
S6GIL1D1	I6TX 2240 TO	3300	AD-SX	LH
S6GIL1D3	I6TX 2240 TO	3300	AD-SX	LH
S6GIL2B1	I6S 2520 TO	3500	AD-SX	LH
S6GIL2B3	I6S 2520 TO	3500	AD-SX	LH
S6GIL2D1	I6TX 2240 TO	3500	AD-SX	LH
S6GIL2D3	I6TX 2240 TO	3500	AD-SX	LH
S6GIL3B1	I6S 2520 TO	3800	AD-SX	LH
S6GIL3B3	I6S 2520 TO	3800	AD-SX	LH
S6GIL3D1	I6TX 2240 TO	3800	AD-SX	LH
S6GIL3D3	I6TX 2240 TO	3800	AD-SX	LH
S6GIL4B1	I6S 2520 TO	4200	AD-SX	LH
S6GIL4B3	I6S 2520 TO	4200	AD-SX	LH
S6GIL4D1	I6TX 2240 TO	4200	AD-SX	LH
S6GIL4D3	I6TX 2240 TO	4200	AD-SX	LH
S6GIL5B1	I6S 2520 TO	4500	AD-SX	LH
S6GIL5B3	I6S 2520 TO	4500	AD-SX	LH
S6GIL5D1	I6TX 2240 TO	4500	AD-SX	LH
S6GIL5D3	I6TX 2240 TO	4500	AD-SX	LH

## DIMENSIONS & WEIGHTS



### DIMENSIONS (mm)

Wheelbase (A)	3300 1380	3500 1380	3800 1380	4200 1380	4500 1380
Max length (B)	7572	8067	8337	8382	9102
Max width over wings (cab) (E)	2550	2550	2550	2550	2550
Front axle to back of cab - including filter (F)	445	445	445	445	445
Frame height at end of frame, unladen (L) (drum brakes)	1159	1159	1158	1157	1158
Frame height at end of frame, unladen (L) (disc brakes)	1159	1159	1159	1157	1158
Frame height at front axle, unladen (drum brakes)	1123	1123	1122	1121	1121
Frame height at front axle, unladen (disc brakes)	1124	1124	1123	1122	1121
Frame height at rear axle, unladen (drum brakes)	1147	1147	1147	1147	1146
Frame height at rear axle, unladen (disc brakes)	1148	1147	1147	1147	1147
Front overhang (C)	1440	1440	1440	1440	1440
Rear overhang (D)	1225	1495	1495	1135	1585
Minimum ground clearance (front) (P)	337	337	337	337	337
Minimum ground clearance (rear) (Q)	311	311	311	311	311
Overall height to top of cab, unladen (K) (drum brakes)	3140	3140	3139	3138	3138
Overall height to top of cab, unladen (K) (disc brakes)	3141	3141	3140	3139	3138
Turning diameter kerb to kerb	16800	17400	18100	19100	19800
Turning diameter wall to wall	18400	19000	19700	20700	21400
Front track (M) (disc brakes)	2043	2043	2043	2043	2043
Front track (M) (drum brakes)	2053	2053	2053	2053	2053
Rear track (N) (disc brakes)	1827	1827	1827	1827	1827
Rear track (N) (drum brakes)	1831	1831	1831	1831	1831
Approach angle $\alpha$ (°)	30	30	30	30	30
Departure angle $\beta$ (°)	16	13	14	18	13
Ramp angle $\gamma$ (°)	21	20	20	21	21

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	3300 1380	3500 1380	3800 1380	4200 1380	4500 1380
Total vehicle kerb weight (drum brakes)	9232	9294	9334	9321	9440
Total vehicle kerb weight (disc brakes)	9122	9184	9229	9215	9328
Kerbweight on Front Axle (drum brakes)	5092	5078	5102	5153	5186
Kerbweight on Front Axle (disc brakes)	5054	5040	5071	5123	5151
Kerbweight on rear axle (drum brakes)	4140	4216	4232	4168	4254
Kerbweight on rear axle (disc brakes)	4068	4144	4158	4092	4177
G.V.W. (EC)	26000	26000	26000	26000	26000
G.V.W. (Design)	33500	33500	33500	33500	33500
Plated weight on front axle (EC)	8000	8000	8000	8000	8000
Plated weight on front axle (Design)	8000	8000	8000	8000	8000
Plated weight on rear axle(s) (EC)	19000	19000	19000	19000	19000
Plated weight on rear axle(s) (Design)	26000	26000	26000	26000	26000

#### Notes :

Weights are to standard configuration and include: chassis cab (or tractor), driver (75 kg), full fuel and Adblue tanks, tools kit and spare wheel (if present).  
The values of the plated weights / GVW can vary according to the markets and local homologations.

Wheelbase	Type	Drawing
3300 1380	Left hand drive	5803034359
3500 1380	Left hand drive	5803034360
3800 1380	Left hand drive	5803034361
4200 1380	Left hand drive	5803034362
4500 1380	Left hand drive	5803034363

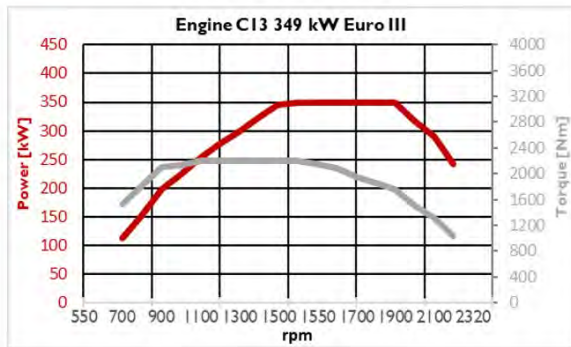
## MODEL COMPONENTS

### ENGINE

Identification Code	F3HGE611
Manufacturer	FPT Industrial
Commercial name	Cursor 13
Cycle	DIESEL
Injection type	DIRECT
4 Stroke / 2 Stroke cycle	4
No. of cylinders	6
Cylinders layout	IN-LINE
Bore mm	135
Stroke mm	150
Total displacement cm <sup>3</sup>	12.882
Exhaust gas treatment	syencer
Weight (without oil / water) Kg	1230
Injection system	Common rail
Cold starting type	THERMOSTARTER
Emissions control	EURO III
Cooling system	water



#### ENGINE EMISSION EURO III opt. 06044



#### 470 C13 - Cursor 13 - 470 CV - WG

Maximum power: 349 kW (475 HP) @ 1900 rpm

Maximum torque: 224 Kgm (2200 Nm) @ 1100 rpm

The central electronic system controls the following functions: Engine preheating, fuel preheating, turbo, injection control, engine brake, control of engine speed and torque, data exchange OBD with ScanTool, engine diagnostic (onandoff-board), control of blink-code and failure indicator light on dashboard, control of engine idling speed and max. engine speed, data exchange with VCM (vehiclecontrol module), supervision of emission values.

### DRIVELINE

#### GEARBOX

Gearbox model	Gearbox Type	Installation	Box material	Dry weight Kg	Clutch type	Max input torque Nm	No. of forward gears	No. of reverse gears	Shifting
16S 2520 TO	SYNCRONIZED	ENGINE FLANGED	ALUMINIUM ALLOY	306 - (w/o retarder)	Dry clutch	2500	16	2	Manual shifting Single - H
16TX 2240 TO	AUTOMATED	ENGINE FLANGED	ALUMINIUM	290 - (w/o retarder)		2200	16	2	

#### GEAR RATIOS

Gearbox model	1st	2 <sup>a</sup>	3rd	4th	5 <sup>a</sup>	6	7 <sup>a</sup>	8	9	10	11 <sup>a</sup>	12.	13de	14	15th	16 <sup>a</sup>	R1	M.A. 2		
16S 2520 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	.84	12.92	10.8		
16TX 2240 TO	14.68	12.05	9.92	8.14	6.78	5.56	4.57	3.75	3.22	2.64	2.17	1.78	1.49	1.22	1.00	0.82	14.14	11.61		

#### CLUTCH

Gearbox model	Type	Outer diameter mm	Outer diameter (inches)			
16S 2520 TO	Single dry plate	430	17			
16TX 2240 TO	Single dry plate	430	17			

## MODEL COMPONENTS

### TYRES & WHEELS

Code	Tyres	Front	Rear	Load index	Rolling circumference m
20081	Standard	13R22,5	13R22,5	156/150	3.428
20885	Optional	385/65R22,5	315/80R22,5	164/	3.28
20795	Optional	315/80R22,5	315/80R22,5	156/150	3.28
20079	Optional	13R22,5	13R22,5	156/150	3.428
20497	Optional	12,00R20	12,00R20	154/149	3.42
20790	Optional	315/80R22,5	315/80R22,5	156/150	3.28
20216	Optional	12,00R20	12,00R20	154/149	3.42

### REAR AXLE RATIO

Option code	05003	06017 *	06019	06021	06032	06034	06036
Ratio	6.09	4.23	4.67	5.01	3.792	5.56	6.57

\*: Standard axle ratio

### 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: 20081 - 13R22.5 TYRES - Regional / Works** **Efficiency: 0.91** **No transfer box**

#### Gearbox model I6S 2520 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		40000	
							1°	16°	1°	16°
3.792	13.8	0.84	7.47	122.69	1252	1408	100.00	3.44	55.82	1.99
4.23	13.8	0.84	6.69	109.98	1396	1571	100.00	4.07	64.92	2.40
4.67	13.8	0.84	6.06	99.62	1542	1734	100.00	4.68	75.37	2.80
5.01	13.8	0.84	5.65	92.86	1654	1861	100.00	5.14	84.68	3.09
5.56	13.8	0.84	5.09	83.67	1835	2065	100.00	5.87	100.00	3.57
6.09	13.8	0.84	4.65	76.39	2010	2262	100.00	6.56	100.00	4.01
6.57	13.8	0.84	4.31	70.81	2169	2440	100.00	7.18	100.00	4.41

#### Gearbox model I6TX 2240 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		40000	
							1°	16°	1°	16°
3.792	14.68	0.82	7.02	125.68	1222	1375	100.00	3.30	60.71	1.90
4.23	14.68	0.82	6.29	112.67	1363	1533	100.00	3.93	71.14	2.31
4.67	14.68	0.82	5.70	102.05	1505	1693	100.00	4.53	83.45	2.70
5.01	14.68	0.82	5.31	95.12	1614	1816	100.00	4.98	94.77	2.99
5.56	14.68	0.82	4.79	85.72	1792	2016	100.00	5.69	100.00	3.45
6.09	14.68	0.82	4.37	78.26	1962	2208	100.00	6.37	100.00	3.89
6.57	14.68	0.82	4.05	72.54	2117	2382	100.00	6.97	100.00	4.28

### FRONT BUMPER

Steel front bumper

## MODEL COMPONENTS

### DISC BRAKES

**DUO DUPLEX drum brake**  
 Electronic braking system (EBS)

**Front axle**  
 Drum brakes 410 mm (410 x 180)  
 Friction area: 2884 cm<sup>2</sup>

**Tandem**  
 Drum brakes 410 mm (410 x 200)  
 Friction area: 3220 cm<sup>2</sup>

or

**Disc brakes allround**  
 Electronic braking system (EBS)  
 Brake Assist System (BAS)

ESP with OFF ROAD MODE available as option

### AXLES

Position	Description
Front	5890/D OFF - Axle drop: 72 mm
Front	5890/T OFF - Assale con Drop di 72 mm
Rear	453291/2D - Tandem H.R. (Drum brake 2D)
Rear	453291_ADB - Tandem Hub Reduction (Disc Brakes)

### SUSPENSIONS

**Front parabolic suspension (semi-elliptic option):**  
 Standard capacity: 8.000 kg (options for 8.500 kg and 9.000 kg)

**Rear parabolic suspension STD (semi-elliptic option):**  
 Standard capacity: 26.000 kg

### 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

### FUEL TANK 290 L

#### Fuelling

Capacity (l.)	290
Material	Aluminium

### 390L FUEL TANK

#### Fuelling

Capacity (l.)	390
Material	Aluminium

## MODEL COMPONENTS

### MISCELLANEOUS

#### THE AVAILABILITY OF THE FOLLOWING OPTIONS DEPENDS ON VERSIONS AND MARKETS :

##### SAFETY :

**TPMS (on cluster): Tyre Pressure Monitoring System** is an electronic system which monitors the air pressure inside a tyre and provides information on faults in real time to the driver. In addition to improving vehicle safety, **TPMS** helps the driver plan tyre maintenance and contributes to reducing fuel consumption.

##### **ESP: Electronic Stability Program (ESP).**

The **ESP** system acts in skidding phase, by adjusting the engine power and braking on individual wheels with different intensities so as to stabilise the position of the vehicle. It is effective both in case of sudden deviations from the trajectory and in correcting situations of oversteer or understeer, which may occur in case of incorrectly approaching a bend.

##### **LDWS: Lane Departure Warning System**

**(LDWS).** The Lane Departure Warning System beeps when the vehicle strays from the lines that mark the driving lane without the indicators being activated. The system is very effective in preventing accidents due to distraction or sleepiness.

##### FUEL CONSUMPTION OPTIMIZATION:

**ECOSWITCH:** Designed to reduce fuel consumption, **ECOSWITCH** is an important aid for the driver. It activates the "iEco program" in order to optimise gear shifting strategy and performance according to actual vehicle weight, assuring the best productivity under any operating condition.

**ECO ROLL:** On all type of incline (also on moderate one), the eco-roll function serves to open the driveline and retain the kinetic energy of the vehicle for longer or to slightly increase it by reducing the engine-drag torque that affects the impellers. If the vehicle subsequently slows down, the engine must increase the injected fuel quantity at a later point. Driver actions during an active rolling function such as accelerator pedal, brake actuation, changing to manual, or speed range selector actuation lead to the termination of the rolling function and the closing of the driveline. Depending upon the speed range, the last gear before the rolling phase can be engaged or a new gear can be calculated and engaged when the rolling function is terminated.

**ECO ROLL** works in the range (50km/h ; 92km/h) and is independent from Cruise Control setting.

##### **GPS-PREDICTIVE DRIVING** (OPT Code 78878)

GPS-predictive driving is the driving strategy implemented in TraXon with predictive functionality to determine the optimal gear early for any driving situation, according to the electronic horizon information acquired via GPS by a provider and made available on the CAN bus. The electronic horizon acquires the current location of the vehicle via GPS and determines the route from topographical street maps (uphill gradient, curves, max permissible speed). GPS-predictive driving is used to improve the gear shifting and Eco-rolling strategy.

##### DRIVEABILITY :

**ROCKING MODE** (OPT Code 78507) TRAXON provides a Rocking function to have the clutch reating directly to accelerator pedal movements for rocking the vehicle out of a depression in the terrain in low grip conditions. When the Rocking mode is activated, it is possible to disengage the clutch immediately by releasing the accelerator pedal, roll back the vehicle and engage the clutch immediately again by depressing the accelerator pedal. The HMI provided for the Rocking mode includes: a dedicated switch to let the driver activate / deactivate the Rocking mode. A specific indication on the Instrument Cluster to inform when the Rocking function is active ("ROCK" indication in the transmission modes area).

**OFF-ROAD MODE** is an high mobility function with which the gearshifting logic allows higher rpms before shifting to faster gears, thus providing higher engine power and torque.

**CREEPING MODE** is an high mobility function with which the vehicle moves forward at minimum speed, simply by releasing the service brake pedal, useful for precise maneuvering operations at low speed (active via Quick Menu).





**IVECO**

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