

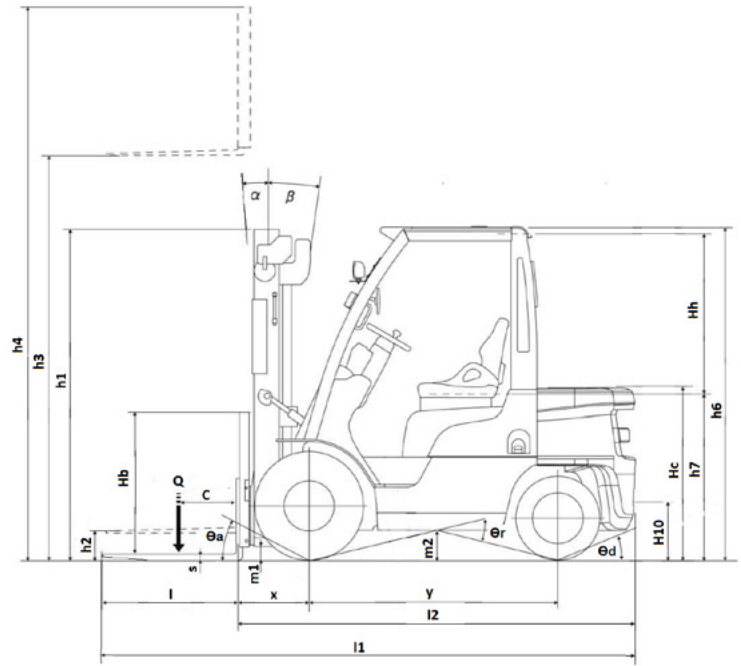
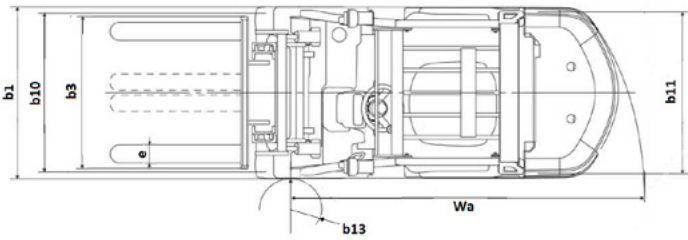
TCM

FGEJ 3.5 technical specifications



STANDARD SPECIFICATIONS

March 2014		Counterbalance trucks Designation according VDI 3586	Data sheet for materials handling equipment		VDI 2198 Registration note
		Manufacturers Data and Design Characteristics			
CHARACTERISTICS	1.1	Manufacturer			UniCarriers
	1.2	Model name			FGEJ 3.5
		Model variation			UG1F2A35DU
	1.3	Power unit			Gasoline/LPG
	1.4	Operation			Sit
	1.5	Load capacity	Q (t)		3.5
	1.6	Load centre	c (mm)		500
	1.8	Front overhang	x (mm)		485
	1.9	Wheel base	y (mm)		1700
WEIGHTS	2.1	Service weight	kg		4605
	2.2	Axle load with load, front/rear	kg		7140/965
	2.3	Axle load without load, front/rear	kg		1615/2990
WHEELS & TIRES	3.1	Tyres front/rear (C=Cushion,SE=superelastic, P=Pneumatic) ¹			P(SE)/P(SE)
	3.2	Tyre size, front			250-15-16PR(I)
	3.3	Tyre size, rear			6.50-10-12PR(I)
	3.5	Wheels, number front/rear (x=powered)			2x/2
	3.6	Tread, front	b ₁₀ (mm)		1060
	3.7	Tread, rear	b ₁₁ (mm)		980
	DIMENSIONS	4.1	Tilt Mast/carriage, forward/backward	α/β (°)	
4.2		Height mast fully lowered	h ₁ (mm)		2185
4.3		Free lift	h ₂ (mm)		160
4.4		Lift height	h ₃ (mm)		3000
4.5		Height mast fully extended	h ₄ (mm)		4140
4.7		Overhead guard height	h ₆ (mm)		2155
4.8		Seat height/Standing height	h ₇ (mm)		1055
4.12		Towing coupler height	h ₁₀ (mm)		420
4.19		Overall length	l ₁ (mm)		3850
4.20		Length to fork face	l ₂ (mm)		2780
4.21		Overall width ¹	b ₁ (mm)		1280
4.22		Fork dimensions	s,e,l (mm)		45x122x1070
4.23		Carriage DIN 15173, Class / Form A,B			3A
4.24		Carriage width	b ₃ (mm)		1020
4.31		Mast underclearance loaded	m ₁ (mm)		155
4.32		Underclearance centre wheelbase	m ₂ (mm)		190
4.33		Right angle stacking aisle with pallet 1000x1200 crossways	Ast (mm)		4105
4.34	Right angle stacking aisle with pallet 800x1200 lengthways	Ast (mm)		4305	
4.35	Turning radius	Wa (mm)		2420	
4.36	Turning radius, inner	b ₁₃ (mm)		70	
PERFORMANCE	5.1	Travelling speed with/without load	km/h		19/19
	5.2	Lifting speed with/without load	mm/s		450/470
	5.3	Lowering speed with/without load	mm/s		420/360
	5.6	Drawbar pull, with/without load	kN		17.3/11.8
	5.8	Gradeability with/without load	%		22/22
	5.9	Acceleration with/without load	s		5.1/4.2
	5.10	Service brake			Hydraulic
DRIVE	7.1	Engine manufacturer/type			UniCarriers/K25
	7.2	Engine rated power according ISO 1585	kW		46.9
	7.3	Rated engine revolutions	min ⁻¹		2700
	7.4	Number of cylinders/Displacement	cm ³		4/2488
	7.5	Fuel consumption according VDI cycle (60 cycles/hour)	kg		6.0*
OTHERS	8.1	Type of drive control			Torque converter/1
	8.2	Working pressure attachments	bar		127
	8.3	Oil flow attachment	l/min		70
	8.4	Noise level operator's ear according EN 12053	dB(A)		79



DIMENSIONS

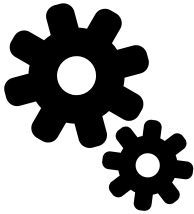
MAST SPECIFICATIONS & RATED CAPACITIES: FGEJ: 3.5 TONNE

Mast type	Mast name	Maximum fork height mm ¹	Overall height			Free lift		Tilt angle Forward/backward degrees	Load capacity Load center 500 mm
			Fully lowered mm ¹	Fully extended		Without backrest mm ¹	With Std backrest mm ¹		3.5 tonne kg ¹⁾
				Without backrest mm ¹	With Std backrest mm ¹				
TWO STAGE WIDE VIEW	2W300	3000	2185	3740	4140	160	160	6/12	3500
	2W330	3300	2320	4040	4440	160	160	6/12	3500
	2W350	3500	2445	4240	4640	160	160	6/12	3500
	2W370	3700	2635	4440	4840	160	160	6/12	3500
	2W400	4000	2885	4740	5140	160	160	6/12	3450
	2W450	4500	3135	5240	5640	160	160	6/6	3400
	2W500	5000	3385	5740	6140	160	160	6/6	3300
TWO STAGE FULL FREE	2F300	3000	2185	3790	4140	1440	1090	6/12	3500
	2F330	3300	2320	4090	4440	1575	1225	6/12	3500
	2F350	3500	2445	4290	4640	1700	1350	6/12	3500
	2F370	3700	2635	4490	4840	1890	1540	6/12	3500
	2F400	4000	2885	4790	5140	2140	1790	6/12	3450
THREE STAGE FULL FREE	3F385	3850	2035	4670	4990	1260	940	6/6	3500
	3F430	4300	2185	5120	5440	1410	1090	6/6	3450
	3F475	4750	2320	5570	5890	1545	1225	6/6	3400
	3F515	5150	2445	5975	6295	1670	1350	6/6	3200
	3F550	5500	2635	6320	6640	1860	1540	6/6	2700
	3F600	6000	2885	6820	7140	2110	1790	6/6	2000
	3F650	6500	3135	7320	7640	2360	2040	6/6	2500*
	3F700	7000	3385	7820	8140	2610	2290	6/6	2200*

¹⁾ 1 inch = 25.4 mm 1 kg = 0.4536 lb *Load capacity with double tires. Overall truck width: 1720 mm



Especially developed to provide our customers with the most reliable and efficient technology in daily operation, TCM's counterbalanced trucks have been designed to meet the most challenging requirements even in the most demanding environments.



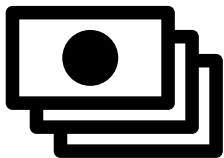
RELIABLE

Proven technology paired with practical features: TCM stands for a unique mixture of customer-oriented solutions you can count on.



DURABLE

Harsh conditions can be a challenge. For TCM trucks, it's their natural habitat. 24 hours a day, 7 days a week.



ECONOMICAL

Balancing economy and environmentally friendly performance in TCM trucks has always been a top priority, facilitating a profitable and energy-efficient deployment of our high-end material handling solutions.

TCM - A BRAND OF UNICARRIERS CORPORATION
T-FGEJ3.5.S.EN/TCM-2016-12

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