

XD 60-100

Counterbalanced diesel forklifts 6.0t to 10.0t





Strong and Reliable



The XD60-100 is a strong forklift designed and built for moving heavy loads.

Functionality and reliability are coupled with compactness and elegance.

Design is engineered for a perfect ergonomics for the drivers and for the optimal use of space for the flawless handling of loads without undue obstructions to hinder the operators whilst they work.

ENGINE: The IVECO NEF engine is a guarantee of power and reliability. The Turbo intercooler, direct injection; 4 in-line cylinders and 88 kw power ensure optimum performance and maximum reliability. Other main features include a high-turbulence, cast iron mono-block head (optimised combustion), aluminium alloy pistons with an omega-shaped combustion chamber, J-jet piston cooling system, integrated oil and water pumps.

TRANSMISSION: The hydrodynamic ZF transmission is silent, compact and easy to maintain. Featuring electro-hydraulic clutch control by means of proportional valves with electronic inching and 3 forward and 3 reverse automatic gears (less wear, greater acceleration), the ZF transmission is equipped with an auto-adaptive system with slope recognition and thus engaging the correct gear and a system that recognises the driving style of the operator and engages the correct low/high gear.

FRONT AXLE: Designed by Kessler, one of the renowned suppliers of components for heavy-duty forklifts, the robust front axle with oil-bath disc brakes combines optimal braking power with less operator effort and minimal maintenance costs.

REAR AXLE: Manufactured by the Kion group, the welded rear axle is extremely compact and robust. Its wide steering angle ensures the ideal manoeuvrability and easy lubrication of the most stressed points.

MASTS: The new "C" profile masts offer maximum visibility and perfect torsional rigidity for high residual capacities with perfect visibility of the load. Simplex and Triplex masts up to 7.5m high are available.

Safe and Ergonomic

Driving a forklift for hours is a stressful job that requires concentration and physical effort. OM forklifts have been designed to ensure maximum operator comfort and safety to reduce stress to a minimum and keep the operator focused.

Comfortable and safe working conditions translate into working more efficiently, and the correct driving position is the foundation for better, more effective productivity.

CAB

The cab is fully suspended on anti-vibration bearings (FSC: Full Suspended Cab) and has been designed so that the operator can constantly climb in and out with ease, featuring a handlebar, wide steps and high ceiling.

The shock-absorbing, adjustable seat with safety belt, adjustable steering column and well-placed instruments is standard equipment in all models and ensure an ergonomic driving position with maximum operator comfort during long working shifts.

A glove compartment and bottle holder are standard features.

PEDALS

The dual directional pedal is standard equipment on OM trucks, allowing the operator to change direction without taking his/her hands off the steering wheel.

The traditional accelerator pedal with a manual reversing lever positioned near the steering wheel is available optionally. OM forklifts are also equipped with a unique inching/braking pedal, which activates the inching function during the first part of the pedal stroke and the brake function during the second part. Ease of use leads to increased productivity and less stress on the operator.

LEVERS

The modern hydraulic controls ensure precision during all phases of operation with the minimum amount of operator effort (less than 0.5kg).

The ergonomic design of the levers provides the perfect position for the hand so that it can manipulate all the controls without having to continuously move and thus without causing needless stress.





DISPLAY

The LCD display integrated into the dashboard is clear and legible even in very bright conditions. The following information, accompanied by acoustic warnings, is displayed:

- Cooling temperature
- Converter oil temperature
- Fuel level
- Hours of operation
- Clock
- Parking brake
- Oil pressure - additional hydraulics
- Maintenance interval
- Battery voltage
- State-of-cleanliness of the air filter

VISIBILITY

The standard high-visibility masts and Lexan panoramic roof allow the operator to control the lifting function constantly without having to change position.

The Triplex masts have lateral lifting cylinders to provide optimal visibility of the load and thus safe driving conditions. The standard vertical exhaust pipe on both the diesel and LPG versions is positioned so as not to interfere in any way with work operations.

SAFETY

The standard safety system on the entire product range is known as OMISP.

- **Mast Safety System (MSS):** locks all hydraulic functions within 1.5 seconds if the operator leaves the forklift with the engine still running, and every time the engine is turned off.
- **Autolock (AL):** automatically engages the parking brake if the operator leaves the forklift with the engine still running, and every time the engine is turned off.

- **Elastic support of rear axle:** the oval shape of the elastic support increases the lateral stability of the truck while steering. This is a safe, durable mechanical system that, unlike competitor trucks, does not depend on more delicate, complex electronic systems.
- **Dual gear consensus (DECOM):** unlike many competitor trucks with hydrodynamic transmissions, OM trucks with a manual reversing system move only when the accelerator pedal has been operated and not simply when they have been put into gear.



XD 60-100 Technical data

VDI 2198

Specification	1.1	Manufacturer		OM	OM	OM	OM	
	1.2	Model designation		XD 60	XD 70	XD 80	XD 100	
	1.3	Type of drive: Electric - Diesel - Petrol - GPL - Network Power (Electric)		Diesel	Diesel	Diesel	Diesel	
	1.4	Operation Type: Hand - Stand-on - Driver seated		Driver Seated	Driver Seated	Driver Seated	Driver Seated	
	1.5	Load Capacity	Q (t)	6.0 ¹⁾	7.0 ¹⁾	8.0 ¹⁾	10.0 ¹⁾	
	1.6	Load Barycenter Distance	c (mm)	600	600	600	600	
	1.8	Axle centre to fork face	x (mm)	595 ³⁾⁴⁾	635 ³⁾⁴⁾	635 ³⁾⁴⁾	660 ³⁾⁴⁾	
	1.9	Wheel Base	y (mm)	2300	2300	2300	2600	
Weights	2.1	Service Weight	kg	8845 ⁵⁾	9860 ⁵⁾	10580	11380	
	2.2	Axle Weight with Rated Load	front / rear	kg	13250 ⁵⁾ / 1595	14930 ⁵⁾ / 1930	16475 / 2105	19565/1815
	2.3	Axle Weight without load	front / rear	kg	4095 ⁵⁾ / 4750	4170 ⁵⁾ / 5690	4180 / 6400	4720/6660
Wheels and Tyres	3.1	Tyres: SE = Superelastic PN = Pneus		SE / PN (opt.)	SE / PN (opt.)	SE / PN (opt.)	SE / PN (opt.)	
	3.2	Front Tyres Size		see table	see table	see table	see table	
	3.3	Rear Tyres Size		see table	see table	see table	see table	
	3.5	Tyres: Number of Front / Rear Tyres (x = drive)		2 (4) x 2	2 (4) x 2	4 x 2	4 x 2	
	3.6	Front Track Width	b10 (mm)	1690 (1710 twin)	1690 (1710 twin)	1710	1710	
Dimensions and Overall Sizes	3.7	Rear track Width	b11 (mm)	1590	1590	1590	1560	
	4.1	Mast lift, forward / backward	Grad	6°/10° ²⁾	6°/10° ²⁾	6°/10° ²⁾	6°/10° ²⁾	
	4.2	Mast Minimum Overall Height	h1 (mm)	see table	see table	see table	see table	
	4.3	Free Lift	h2 (mm)	see table	see table	see table	see table	
	4.4	Lift Height	h3 (mm)	see table	see table	see table	see table	
	4.5	Mast Maximum Overall Height	h4 (mm)	see table	see table	see table	see table	
	4.7	Overhead Guard Height	h6 (mm)	2600	2600	2600	2600	
	4.8	Seat Height	h7 (mm)	1485	1485	1485	1485	
	4.12	Drawbar Height	h10 (mm)	575	575	575	575	
	4.19	Overall Length	l1 (mm)	4900 ³⁾⁴⁾	4935 ³⁾⁴⁾	4935 ³⁾⁴⁾	5260 ³⁾⁴⁾	
	4.20	Overall Length Including Fork Arms	l2 (mm)	3700 ³⁾⁴⁾	3735 ³⁾⁴⁾	3735 ³⁾⁴⁾	4060 ³⁾⁴⁾	
	4.21	Overall Width	b1/b2 (mm)	2030 (2210 twin)	2030 (2210 twin)	2210	2350	
	4.22	Fork Arms Dimensions	s/e/l (mm)	60 / 130 / 1200	70 / 150 / 1200	70 / 150 / 1200	70x200x1200	
	4.23	Fork Carriage in Compliance with DIN 15173 Class / Form A, B		4A	4A	4A	5A	
	4.24	Fork Carriage Width	b3 (mm)	1800 (2000 twin)	1800 (2000 twin)	2000	2200	
	4.31	Mast Ground Clearance (with load)	m1 (mm)	160 (170 twin)	160 (170 twin)	160	160	
	4.32	Chassis Ground Clearance (with load) [middle of the chassis]	m2 (mm)	235	235	235	235	
	4.33	Aisle Width with Pallet 1000x1200 and Fork Arms Pitch 1200	Ast (mm)	5245 ³⁾⁴⁾	5270 ³⁾⁴⁾	5270 ³⁾⁴⁾	5595 ³⁾⁴⁾	
	4.34	Aisle Width with Pallet 800x1200 and Fork Arms Pitch 800	Ast (mm)	5245 ³⁾⁴⁾	5270 ³⁾⁴⁾	5270 ³⁾⁴⁾	5595 ³⁾⁴⁾	
	4.35	Turning Radius	Wa (mm)	3360	3360	3360	3640	
4.36	Turning Point Minimum Distance from the Truck Center Line	b13 (mm)	1110	1110	1110	1220		
Performance	5.1	Drive Speed	with / without load	km/h	24 / 25	24 / 25	23,8 / 25	24 / 25
	5.2	Lifting speed	with / without load	m/s	0,51 / 0,55	0,50 / 0,55	0,48 / 0,56	0,37 / 0,43
	5.3	Lowering speed	with / without load	m/s	0,55 / 0,53	0,48 / 0,47	0,53 / 0,52	0,50 / 0,49
	5.5	Drawbar Pull Tractive Effort (at 2 km/h)	with / without load	N	72900 / 27300 ⁶⁾	72750 / 27600 ⁶⁾	90600 / 27050 ⁶⁾	89600 / 31500 ⁶⁾
	5.7	Gradeability (at 2 km/h)	with / without load	%	57/31 ⁷⁾ (58 MIV) ⁸⁾	50/28 ⁷⁾ (53 MIV) ⁸⁾	55/26 ⁷⁾ (49 MIV) ⁸⁾	46/28 ⁷⁾ (49 MIV) ⁸⁾
	5.9	Acceleration Time (15 m)	with / without load	s	7,0 / 6,0	7,2 / 6,1	7,3 / 6,1	7,7 / 6,2
5.10	Service Brake			Wet oil disk	Wet oil disk	Wet oil disk	Wet oil disk	
Engine	7.1	Engine Manufacturer / Engine Type		IVECO / N45MNTX	IVECO / N45MNTX	IVECO / N45MNTX	IVECO / N45MNTX	
	7.2	Engine Power	kW	88	88	88	88	
	7.3	Rated Number of Revolutions	min -1	2200	2200	2200	2200	
	7.4	Cylinder Number / Displacement	cm 3	4 / 4500	4 / 4500	4 / 4500	4 / 4500	
	7.5	Fuel Consumption in compliance with VD-Cycle	l/h	8,0	9,6	10,4	12,4	
Others	8.1	Drive Control Type		Hydrodynamic	Hydrodynamic	Hydrodynamic	Hydrodynamic	
	8.2	Service Pressure for Attachments	bar	150	150	150	150	
	8.3	Oil Flow rate for Attachments (max. available)	l/min	30 ⁹⁾	30 ⁹⁾	30 ⁹⁾	30 ⁹⁾	
	8.4	Noise at Operator's Ear	dB (A)	82	82	82	82	
	8.5	Drawbar, model / type DIN		***	***	***	***	

Values are indicative only and not binding and refer to standard configurations

1) Real capacity are connected to the balance of the load, the type of mast, the lifting high, the type of wheels and possible attachments

2) DX: 6°/10° - TX: 3°/7°. Optional SX and DX with h3<4500: 11°/10°

3) With ISS XD60: "x" +50 mm ; XD70/80: +40 mm ; XD100 +30 mm

4) "x" SX = DX. for TX "x" + 30mm (XD 60-70-80) and +45 mm (XD 100)

5) with TWIN SE +80kg

6) At limit of the adherence in front driving with f=0,9

7) At limit of the adherence in front driving with f=0,9; max gradient positioning respecting ISO 6292

8) Theoretical data

9) Both 3rd both 4th ways, for increased load capacity it needs to change hydraulics hoses after distributor with bigger hoses (request special machine).

With new hoses 3/4 inches (instead of 5/16 inches) at pressure 150 bar:

XD60/70: 110 l/min ; XD80/100: 130 l/min

MASTS

		Simplex								Triplex			
XD 60	Lift height	h_3	mm	3300	3900	4500	5400	6000	4500	5250	6000		
	Minimum overall height	h_1	mm	2760	3060	3360	3810	4110	2610	2860	3110		
	Maximum overall height	h_4	mm	4660	5260	5860	6760	7360	5860	6610	7360		
	Free lift	h_2	mm	150	150	150	150	150	1345	1495	1745		
XD 70	Lift height	h_3	mm	3300	3900	4500	5400	6000	4500	5250	6000		
	Minimum overall height	h_1	mm	2810	3110	3410	3860	4160	2660	2910	3160		
	Maximum overall height	h_4	mm	4660	5260	5860	6760	7360	5860	6610	7360		
	Free lift	h_2	mm	150	150	150	150	150	1395	1545	1795		
XD 80	Lift height	h_3	mm	3300	3900	4500	5400	6000	4500	5250	6000		
	Minimum overall height	h_1	mm	2810	3110	3410	3860	4160	2660	2910	3160		
	Maximum overall height	h_4	mm	4660	5260	5860	6760	7360	5860	6610	7360		
	Free lift	h_2	mm	150	150	150	150	150	1395	1545	1795		
XD 100	Lift height	h_3	mm	3300	3900	4500	5400	6000	4500	5250	6000		
	Minimum overall height	h_1	mm	2885	3185	3485	3935	4235	2735	2985	3235		
	Maximum overall height	h_4	mm	4660	5260	5860	6760	7360	5860	6610	7360		
	Free lift	h_2	mm	150	150	150	150	150	1370	1620	1870		

TYRES

Type		Superelastic				Pneumatic			
		Front		Rear		Front		Rear	
XD 60	sing std	355/65 - 15		8.25 - 15		355/65 - 15 / 24 p.r.		8.25 - 15 / 16 p.r.	
	twin opt	8.25 - 15				8.25 - 15 p.r.			
XD 70	sing std	355/65 - 15		8.25 - 15		355/65 - 15 / 24 p.r.		8.25 - 15 / 16 p.r.	
	twin opt	8.25 - 15				8.25 - 15 p.r.			
XD 80	twin std	8.25 - 15		8.25 - 15		8.25 - 15 / 16 p.r.		8.25 - 15 / 16 p.r.	
XD 100	twin std	300 - 15		300 - 15		300 - 15 / 22 p.r.		300 - 15 / 22 p.r.	

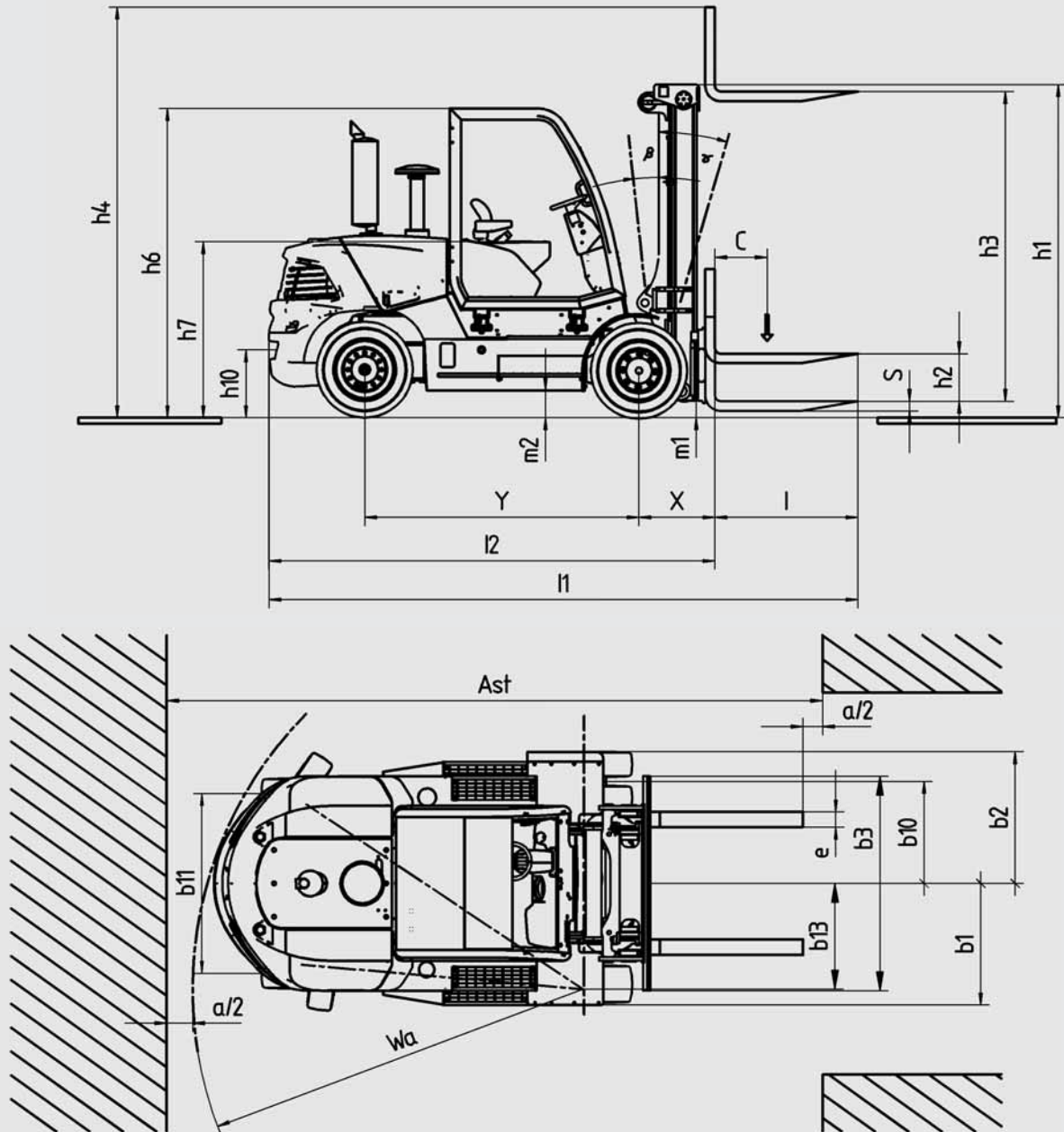
RESIDUAL CAPACITIES

TYPE	(h ₃) (mm)	Bal. (mm)	XD 60 SE SINGLE TYRES				XD 60 SE TWIN TYRES				XD 70 SE SINGLE TYRES				XD 70 SE TWIN TYRES				XD 80 SE TWIN TYRES				XD 100 SE TWIN TYRES				
			WITH ISS		WITHOUT ISS		WITH ISS		WITHOUT ISS		WITH ISS		WITHOUT ISS		WITH ISS		WITHOUT ISS		WITH ISS		WITHOUT ISS		WITH ISS		WITHOUT ISS		
			Lift max	Lift 3300	Lift max	Lift 3300	Lift max	Lift 3300	Lift max	Lift 3300	Lift max	Lift 3300	Lift max	Lift 3300	Lift max	Lift 3300	Lift max	Lift 3300	Lift max	Lift 3300	Lift max	Lift 3300	Lift max	Lift 3300	Lift max	Lift 3300	
SIMPLEX 2 stages without free lift	3300	600	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	7000	7000	7000	7000	7000	7000	8000	8000	8000	8000	10000	10000	10000	10000	
		1100	4200	4200	4200	4200	4200	4200	4200	4200	4200	4200	4200	5000	5000	4950	4950	5000	5000	5600	5600	5600	5600	7200	7200	7200	7200
		1500	3400	3400	3400	3400	3400	3400	3400	3400	3400	3400	3400	4100	4100	4050	4050	4100	4100	4600	4600	4600	4600	5900	5900	5900	5900
	3900	600	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	7000	7000	7000	7000	7000	7000	8000	8000	8000	8000	10000	10000	10000	10000	
		1100	4200	4200	4200	4200	4200	4200	4200	4200	4200	4200	5000	5000	4950	4950	5000	5000	5600	5600	5600	5600	7200	7200	7200	7200	
		1500	3400	3400	3400	3400	3400	3400	3400	3400	3400	3400	4100	4100	4050	4050	4100	4100	4600	4600	4600	4600	5900	5900	5900	5900	
	4500	600	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	7000	7000	7000	7000	7000	7000	8000	8000	8000	8000	9650	10000	10000	10000	
		1100	4200	4200	4200	4200	4200	4200	4200	4200	4200	4200	5000	5000	4950	4950	5000	5000	5600	5600	5600	5600	6950	7200	7150	7200	
		1500	3400	3400	3400	3400	3400	3400	3400	3400	3400	3400	4100	4100	4050	4050	4100	4100	4600	4600	4600	4600	5650	5900	5800	5900	
	5400	600	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	7000	7000	7000	7000	7000	7000	8000	8000	8000	8000	9300	9900	9600	10000	
		1100	4200	4200	4200	4200	4200	4200	4200	4200	4200	4200	5000	5000	4950	4950	5000	5000	5600	5600	5600	5600	6700	7100	6850	7150	
		1500	3400	3400	3400	3400	3400	3400	3400	3400	3400	3400	4100	4100	4050	4050	4100	4100	4600	4600	4600	4600	5450	5800	5600	5800	
6000	600	5850	5850	5950	6000	5850	5850	6000	6000	6900	7000	6900	7000	7000	7000	7000	7000	8000	8000	8000	8000	9050	9850	9400	10000		
	1100	4200	4200	4190	4200	4200	4200	4200	4200	4950	5000	4900	4950	5000	5000	4950	4950	5600	5600	5600	5600	6500	7100	6700	7150		
	1500	3400	3400	3400	3400	3400	3400	3400	3400	4000	4100	4000	4050	4100	4100	4050	4050	4600	4600	4600	4600	5300	5800	5450	5800		
TRIPLEX 3 stages with free lift	4500	600	5600	5850	5900	6000	5600	5850	5900	6000	6650	6900	7000	7000	6650	6900	7000	7000	7500	7800	7750	8000	8700	9050	8950	9300	
		1100	4050	4200	4200	4200	4050	4200	4200	4200	4850	5050	5050	5050	4850	5050	5050	5050	5450	5600	5600	5800	6350	6650	6500	6750	
		1500	3300	3400	3400	3400	3400	3400	3400	3400	4000	4150	4150	4150	4000	4150	4150	4150	4500	4600	4600	4600	5250	5450	5350	5550	
	5250	600	5400	5800	5700	6000	5400	5800	5700	6000	6350	6700	6850	6950	6400	6850	6900	7000	7250	7750	7500	8000	8500	9000	8700	9250	
		1100	3900	4200	4100	4200	3900	4200	4100	4200	4650	5000	4950	5050	4650	5000	5000	5050	5300	5600	5450	5800	6250	6600	6350	6750	
		1500	3200	3400	3350	3400	3200	3400	3350	3400	3800	4100	4050	4150	3850	4100	4100	4150	4350	4600	4450	4600	5150	5450	5200	5550	
	6000	600	5145	5750	5345	5950	5200	5750	5400	5950	6100	6500	6550	6750	6200	6800	6650	7000	7000	7650	7250	7900	8200	8950	8450	9200	
		1100	3730	4170	3850	4200	3770	4170	3890	4200	4450	4950	4750	5050	4500	4950	4800	5050	5100	5600	5250	5700	6000	6650	6150	6700	
		1500	3050	3400	3150	3400	3090	3400	3180	3400	3650	4050	3900	4150	3700	4050	3950	4150	4200	4600	4300	4600	4950	5400	5050	5500	

Standard configuration: Industrial type engine - Hydrodynamic transmission with oil-bath disc brakes - High-visibility, anti-vibration driving position - Closed lexan panoramic roof - Ergonomic seat with safety belts - 3-way distributor - Multifunctional display - OMISP safety system - Glove compartment - Bottle holder - Dual directional pedal with unique inching/braking pedal - Push button parking brake - Adjustable steering column - Vertical exhaust pipe - Protection grill on counterweight - 1200mm forks - Superelastic tyres - Reversing alarm - Cab handlebar

Options available: Simplex and Triplex masts up to 7.5m - Integrated sideshift - Fork positioner - Load backrest - Semi-closed and closed cabs - Ultra-comfort seats - Headlights - Manual reversing gear - Dusty environment configuration - Catalytic muffler and particulate filter - Different-sized forks - Pneumatic tyres - Wide range of attachments for all applications.

All special requests will be evaluated by the OM Technical department to determine their feasibility.



TOTAL TILTABLE CAB

Easy maintenance is a key factor for this family of trucks that works over several shifts and in difficult conditions.

The engine compartment is easily accessed by means of two raisable bonnets whilst the cab can be hydraulically tilted to provide direct access to all the components.

OM, Customer service professionals

- **FORKLIFTS:** The wide range of trucks has been developed by experts and assembled using the most advanced production systems. Every design and manufacturing phase is certified and meets the strictest EU regulations.
- **SALES and RENTAL:** OM's professional and versatile network offers a wide range of sales and rental solutions to meet all customer needs.
- **OPTIONS:** OM forklift trucks are available with a full range of factory-tested and certified options and special attachments.
- **SERVICE:** OM has a network of over 200 service points and 2500 mechanics specialised in the maintenance and repair of OM trucks. We guarantee speed and professionalism.
- **TRAINING FOR MECHANICS AND OPERATORS:** OM offers its long experience with forklifts and team of professionals to provide theoretical and practical training for OM truck operators and maintenance mechanics.



Reliability
User-friendliness
Dynamism

www.om-mh.com



Reliability

Every OM product is backed by over 50 years of experience in the forklift sector.

User-friendliness

The OM product range has been designed to lighten your workload.

Dynamism

Wide range of options and professional Customer Service.



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