



# XCF-PSG16/20 Car-type Reach Forklift Truck

XCMG Forklifts, for Higher Efficiency of Material Handling!

## Comfortable and Easy Operation

- It features wide space for operation, ergonomic, and humanized design of the machine.
- It features easy and accurate operation with an integrated control console for fingertips.
- It features the omni-directional regulation of the steering wheel and control console for a better operating experience.
- It is configured with a high-elasticity seat with shock absorption, an adjustable backrest, and a standard safety belt.
- It is configured with a multi-functional color LCD instrument to indicate information including steering wheel position, battery level, low battery alarm, failure code, operation time, driving speed, etc.
- The machine can be operated at low, intermediate, or high speed which can be set by instrument.
- It is configured with an AC EPS electronic power steering system with easy operation, automatic centering function, and real-time switching of 180°/360° modes.
- It is configured with a low-noise gear oil pump to minimize the noise level during the elevation of the machine.
- It is configured with the controllers of traveling motor, oil pump motor, and steering motor controller from international famous suppliers featuring self-protection, maintenance-free and high performance.



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Official Website of XCMG Forklifts



E-shop of XCMG Forklifts



Official WeChat Account of XCMG Forklifts



## Powerful Chassis and Wide Vision

- It features a powerful chassis with rational mass center distribution to ensure the high reliability of the machine.
- It features a perfect and elegant design of the rear arc panel of the chassis with the limited turning radius of the machine.
- It is configured with a precise reach sliding rail and excellent clearance compensation design for a stable reach of the gantry.
- It features a compact design of gantry pipes and good vision with a rational arrangement of the elevating cylinder and piping system.



## Safety and Reliability

- It will improve the stability and loading capacity at height of the machine with the inclination of the fork.
- The electro-hydraulic proportional control system features high micro-motion performance, high operating reliability and safety.
- It features the speed limit at height, and the operating speed of the machine will ensure safety at height in the event that the fork is elevated to a certain height.
- It features the height limit function, that the power will be automatically disconnected by the elevating motor to ensure safety during elevation in the event that the fork is fully elevated.
- It features the speed limit during steering to prevent the machine from side rollover and ensure safety during steering operation.
- It features the end deceleration of forward and backward movement to ensure the stability of the gantry.
- It features the temperature detection and control of the motor to prevent secondary damage to the motor due to over-temperature.
- It features the current detection and control of the motor to prevent damage to the motor due to over-current.
- It is configured with the combination of solenoid brake and hydraulic brake, featuring a limited brake distance, accurate brake, no impact, safety and reliability.
- It is configured with the solenoid parking brake, featuring the one-button operation on ramps and flat roads.
- It is configured with the CAN bus communication technology with a simple wiring connection, high compatibility, and high reliability.
- It is configured with AC frequency speed control technology, featuring the infinite, closed, accurate, and reliable speed regulation of drives for traveling, elevation and steering operation.

## High-efficiency and Energy-saving

- It features high-speed elevation and descending control to improve the operating efficiency.
- It is configured with an AC drive motor, oil pump motor, and steering motor with long service life, maintenance-free and reliable performance.
- It features the regenerative brake for energy recovery and improving battery life.
- It is configured with durable and energy-saving LED lights.

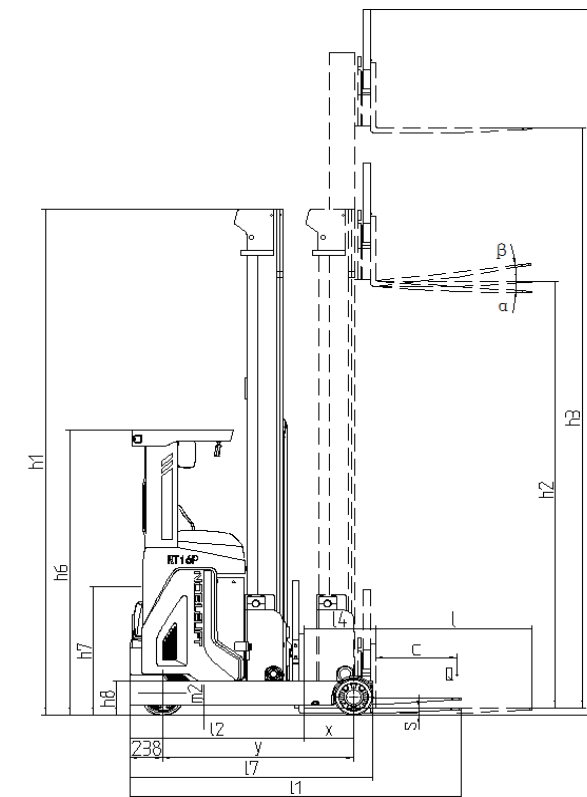
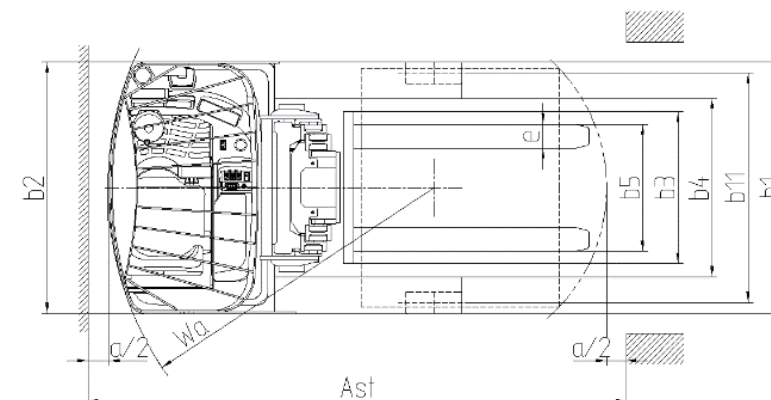
## Optional Functions

- Replacement of side-pull battery.
- HD video camera.
- Electronic height display.
- Electronic height pre-selection system.
- Drive-in rack model.



Specifications of three-stage free elevating gantry					
Gantry model	Elevating height	Free elevating height	Min. height of the gantry	Max. height of the gantry	Loading capacity at the max. height
16M450	4500	1563	2235	5410	1600
16M500	5000	1730	2400	5910	1600
16M550	5500	1897	2568	6410	1600
16M600	6000	2063	2735	6910	1600
16M650	6500	2230	2900	7410	1500
16M700	7000	2397	3068	7910	1400
16M750	7500	2563	3234	8410	1200
16M800	8000	2730	3400	8910	1000
16M850	8500	2897	3567	9410	900
16M900	9000	3063	3734	9910	800
16M950	9500	3230	3900	10410	600
20M450	4500	1563	2235	5410	2000
20M500	5000	1730	2400	5910	2000
20M550	5500	1897	2568	6410	2000
20M600	6000	2063	2735	6910	2000
20M650	6500	2230	2900	7410	1900
20M700	7000	2397	3068	7910	1800
20M750	7500	2563	3234	8410	1600
20M800	8000	2730	3400	8910	1400
20M850	8500	2897	3567	9410	1200
20M900	9000	3063	3734	9910	1000
20M950	9500	3230	3900	10410	800
20M1000	10000	3397	4067	10910	900
20M1050	10500	3563	4234	11410	800
20M1100	11000	3730	4400	11910	700
20M1150	11500	3897	4567	12410	600
20M1200	12000	4063	4733	12910	550
20M1250	12500	4230	4900	13410	500

Type	XCF-PSG16			Type	XCF-PSG20		
Gantry	9500 mm			Gantry	9500 mm		
h3 (mm)	Q (kg)			h3 (mm)	Q (kg)		
9500	600	400	200	9500	800	600	400
9000	800	500	300	9000	1000	700	600
8500	900	600	400	8500	1200	900	800
8000	1000	750	500	8000	1400	1100	1000
7500	1200	950	700	7500	1600	1300	1200
7000	1400	1150	900	7000	1800	1500	1400
6300	1600	1350	1100	6300	2000	1700	1600
c(mm)	600	700	800	c(mm)	600	700	800



Characteristics	XCMG						
			XCF-PSG16 (P)	XCF-PSG20 (P)	XCF-PSG16 (B)	XCF-PSG20 (B)	
Brand							
Model							
Power type			Electric	Electric	Electric	Electric	
Operating type			Car-type	Car-type	Car-type	Car-type	
Rated loading capacity	Q	kg	1600	2000	1600	2000	
Load center distance	c	mm	600	600	600	600	
Front clearance	x	mm	365/176	395/200	365/176	395/200	
Wheelbase	y	mm	1400	1500	1400	1500	
Dead load (including the battery)			kg	3960	4220	3990	4250
Axle load, with the non-load gantry retracted (drive wheel/support wheel)			kg	2420/1540	2560/1660	2450/1540	2580/1670
Drive axle, with the heavy-load gantry extended (drive wheel/support)			kg	830/4760	746/5474	890/4700	766/5484
Axle load, with the heavy-load gantry retracted (drive wheel/support wheel)			kg	2100/3460	2270/3950	2180/3410	2290/3960
Tyre material Drive wheel/support wheel			PU	PU	PU	PU	
Tyre dimensions Front wheels (drive wheel)	øxw (mm)		ø343 x140	ø343 x140	ø343 x140	ø343 x140	
Tyre dimensions Rear wheels (support wheel)	øxw (mm)		ø285 x 110	ø330 x 110	ø285 x 110	ø330 x 110	
Number of wheels (drive wheel/support wheel)			1x/2	1x/2	1x/2	1x/2	
Rear wheel tread	b11		1160	1160	1160	1160	
Fork inclination	α / β	deg	4° /-2°	4° /-2°	4° /-2°	4° /-2°	
Gantry height	h1	mm	3900	3900	3900	3900	
Free elevating height	h2	mm	3290	3290	3290	3290	
Elevating height	h3	mm	9500	9500	9500	9500	
Max. elevating height	h4	mm	10410	10410	10410	10410	
Overhead guard height	h6	mm	2200	2200	2200	2200	
Seat height	h7	mm	960	960	960	960	
Support height	h8	mm	270	270	270	270	
Min. height of the fork	h13	mm	40	40	40	40	
Overall length	l1	mm	2412	2488	2412	2488	
Length to end face of the fork	l2	mm	1262	1338	1262	1338	
Overall width	b1	mm	1270	1270	1270	1270	
Fork dimension	s/e/1	mm	40/100/1150	40/120/1150	40/100/1150	40/120/1150	
Installation level of the fork carrier			2/A	2/A	2/A	2/A	
Adjustable width of the fork	b5	mm	200/750	240/750	200/750	240/750	
Inner width of the support	b4	mm	900	900	900	900	
Reach distance	l4	mm	525	595	525	595	
Ground clearance of the gantry	m1	mm	90	90	90	90	
Ground clearance of the body	m2	mm	75	75	75	75	
Passage width (1000 x 1200 cross with the fork)	As t	mm	2720	2840	2720	2840	
Passage width (800 x 1200 parallel to the fork)	As t	mm	2780	2900	2780	2900	
Turning radius	Wa	mm	1650	1750	1650	1750	
Body length	l7	mm	1780	1900	1780	1900	
Driving speed Heavy-load/non-load			km/h	10.5/10.5	10.5/10.5	10.5/10.5	
Elevating speed Heavy-load/non-load			m/s	0.35/0.5	0.35/0.5	0.35/0.5	
Descending speed Heavy-load/non-load			m/s	0.45/0.45	0.45/0.45	0.45/0.45	
Reaching distance Heavy-load/non-load			m/s	0.1 / 0.1	0.1 / 0.1	0.1 / 0.1	
Max. gradeability Heavy-load/non-load (5min)			%	10/10	10/10	10/10	
Service brake			Hydraulic/ electric	Hydraulic/ electric	Hydraulic/ electric	Hydraulic/ electric	
Drive motor power			kW	6.4	6.4	7	
Elevating motor power			kW	12.5	12.5	8.2	
Voltage/capacity of the storage battery (discharging rate K5)			V/Ah	48/420, 560, 700	48/560, 420, 700	48/420, 560, 700	
Battery weight			kg	750	950	750	
Drive control type			AC	AC	AC	AC	
Noise			dB (A)	68	68	68	

With the technical progress, the product structure and specifications shall be subject to update without further notice. In case of any differences between the specifications and product, the product shall prevail.