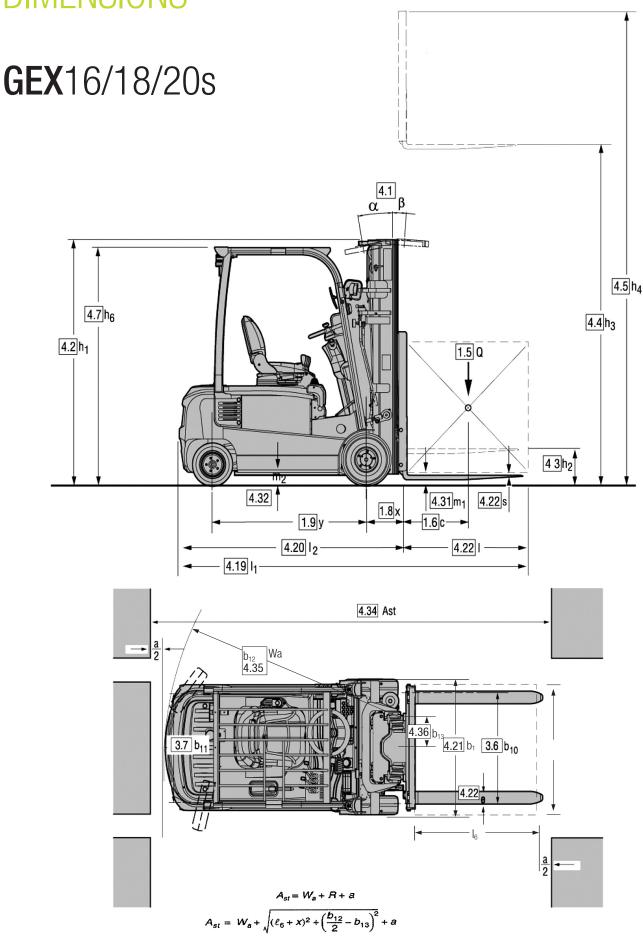


GEX16/18/20s

Electric Lift Trucks
Superelastic Tyres
1.600 kg 1.800 kg 2.000 kg



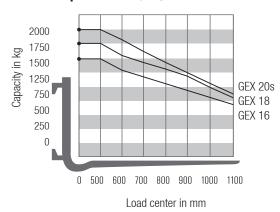
DIMENSIONS



applies only if $\frac{b_{12}}{2} \ge b_{13}$

GENERAL DATA

Truck Capacities Capacity at different load centres



Note:

The listed capacities are valid only for the standard upright in vertical position with standard fork carriage and standard forks, up to max. lifting height of 3085 mm. The centre of gravity of the load may be displaced by max. 100 mm against the longitudinal centre plane of the truck. Load centre is determined from top and front face of the forks. The values are based on a 1000 mm cube load configu-ration with the centre of gravity at the true centre of the cube with upright tilted forward lower capacity values are valid. Attachments, longer forks, exceptional load dimensions and higher lifting heights can reduce

Please talk to your CLARK dealer if you require further information.

Upright table GEX16/18/20s

Mast type	Maximum Fork Height (h3)	Mast Lowered (h1)	Mast Extended (h4)		Free lift (h2)	
			with load backrest	without load backrest	with load backrest	without load backrest
	mm	mm	mm	mm	mm	mm
	2545	1792	3771	3169	132	132
	2795	1917	4021	3419		
	3085	2060	4311	3709		
Standard	3285	2162	4511	3909		
Statiuaru	3639	2339	4865	4263		
	4069	2612	5295	4693		
	4365	2812	5591	4989		
	4653	3007	5879	5277		
	3970	1835	5194	4594	611	1211
	4345	1960	5569	4969	736	1336
	4780	2105	6004	5404	881	1481
	5185	2255	6409	5809	1031	1631
Triple	5565	2415	6789	6189	1191	1791
	5740	2480	6964	6364	1256	1856
	6015	2605	7239	6639	1381	1981
	6470	2795	7694	7094	1571	2171
	7075	3050	8299	7699	1826	2426
	2925	1960	4149	3549	736	1336
	3215	2105	4439	3839	881	1481
HI-L0	3515	2255	4739	4139	1031	1631
	3695	2345	4919	4319	1121	1721
	3810	2415	5034	4434	1191	1791

SPECIFICATIONS

Product Specifications acc. to VDI 2198

	1.1	Manufacturer (Abbreviation)		CLARK	CLARK	CLARK
		Manufacturer's designation		GEX16	GEX18	GEX20s
	ı	Drive unit		Elec-48V	Elec-48V	Elec-48V
Specifications		Operator type stand on / driver seated		Rider-seated	Rider-seated	Rider-seated
icat		Load capacity / rated load	Q (Kg)	1600	1800	2000
ecif		Load centre distance	c (mm)	500	500	500
Sp		Load centre distance, centre of drive axle to fork		356	356	361
		Wheelbase	y (mm)	1312	1420	1420
<u>+</u>		Service weight	kg	3132	3235	3409
Weight		Axle loading, laden front / rear	kg	3979/753	4373/662	4759/650
		Axle loading, unladen front / rear	kg	1416/1716	1490/1745	1559/1850
	3.1	-	<u> </u>	SE	SE	SE
Sis		Tyre size, front, superelastic		18x7-8	18x7-8	200/50-10
Tyres, Chassis		Tyre size, rear, superelastic		15x4.5x8	15x4.5x8	15x4.5x8
		Wheels, number front/rear (x = drive wheels)		2x/2	2x/2	2x/2
lyre		Tread, front SE (C)	b10 (mm)	905	905	915
		Tread, rear	b11 (mm)	870	870	870
	4.1	Tilt of upright/fork carriage, a / b	deg	6/6	6/6	6/6
		Height, upright lowered	h1 (mm)	2060	2060	2060
		Freelift	h2 (mm)	132	132	132
		Lift height *1	h3 (mm)	3085	3085	3085
		Height, upright extended (with load backrest)	h4 (mm)	4309	4309	4304
		Height overheadguard (Cabin)	h6 (mm)	2055 (2090)	2055 (2090)	2059 (2094)
		Seat height	h7 (mm)	1020	1020	1020
		Coupling height	(mm)	360	360	360
S			I1 (mm)	3044	3154	3159
		Length to face of forks	I2 (mm)	1976	2084	2089
nen	4.21	Width	b1 (mm)	1059	1059	1122
- E		Fork dimensions	s*e*l (mm)	40x100x1070	40x100x1070	40x100x1070
		Fork carriage DIN 15173, A, B	()	II A	II A	IIA
		Fork carriage width	b3 (mm)	940	940	940
	4.31	Ground clearance minimum, laden	m1 (mm)	85	85	85
		Ground clearance centre of wheelbase	m2 (mm)	84	84	87
		Stacking aisle for pallets (l6 • b12) 1000 x 1200		3275	3391	3395
		Stacking aisle for pallets (l6 • b12) 800 x 1200 s		3410	3522	3527
		Turning radius	Wa (mm)	1620	1728	1728
		Internal turning radius	b13 (mm)	72	52	52
		Travel speed laden/unladen	Km/h	15/16	15/16	15/16
Se		Lift speed laden/unladen	m/s	0,40/0,50	0,37/0,50	0,35/0,50
Performance		Lowering speed laden/unladen	m/s	0,57/0,52	0,57/0,52	0,57/0,52
forn		Max. drawbar pull laden/unladen (S2 5 min) *2	N	7277/16357	7698/16397	7326/16053
Per		Max. gradeability laden/unladen (S2 5 min) *2	%	21,3/37,7	22,1/35,2	22,4/31,8
		Service brake	.,	electr./mech.	electr./mech.	electr./mech.
		Drive motor rating (S2 60 min)	kW	2x4.4	2x4.4	2x4.4
Drive line		Lift motor rating (S3 15%)	kW	15,2	15,2	15,2
		Battery acc. to DIN43531/35/36		DIN43531A	DIN43531A	DIN43531A
		Battery voltage, nominal capacity K5	V/Ah	48/460(500)	48/575(625)	48/575(625)
	6.5	Battery weight (min)	Kg	708	856	856
	8.1	Type of control	9	AC/Inverter	AC/Inverter	AC/Inverter
Misc.			kg/cm2	140	140	140
2		Sound level, driver's ear	dB (A)	72	72	72
		'	()	· -		

^{*1} Further lift heights see upright table

^{*2} At friction coefficient μ =0.8 with 1.6 km/h

PRODUCT DESCRIPTION

Two powerful AC motors driving the front wheels, a very sturdy design without unnecessary plastic components and an extremely short wheelbase, distinguish the GEX series from CLARK. Suitable for most applications thanks to a solid "built to last" construction and well thoughtout driver's compartment.

Operator's Compartment

A large low positioned step, together with a grab handle on the drivers guard column allows easy access to the ergonomically designed operator's compartment. A full width rubber floor covering in the footwell ensures a firm footing in all conditions. The tilting steering column and an easily adjustable comfort seat, gives maximum legroom enabling optimal adjustment to suit any driver.

The operator's foot pedals are arranged in the automotive fashion to avoid any confusion. The fully directional operating levers move smoothly giving precise control and are located at a perfect height to enable easy handling and a firm grip.

Essential operating data is displayed in real-time on the clear TFT LCD colour display. Three individually programmable operating modes (Economy-Normal-Power) as well as an additional crawl function allows you to optimally adapt the vehicle to the relevant work situation.

Easily accessible stowage compartments as well as quick access to the hand brake and emergency stop switch complete this impressive operator's compartment.

Motor, drive and control

Two powerful 4.4 kW AC motors driving the front wheels and 48 Volt three-phase current technology ensure excellent acceleration and high performance. The maintenance free AC motors ensure running costs are kept to a minimum.

The temperatures of the motors and controller are constantly monitored with the power being automatically adjusted to prevent design limits being exceeded.

The ZAPI DUAL AC control is equipped with modern MOSFET and CAN bus technology and is located safely, high in the counterweight, where it is protected, yet easily accessible. The motor and controller temperature monitoring devices serves to protect your investment.

Brake system

Three independent brake systems (electrical, foot and parking brake) ensure increase efficiency through improved utilisation of the battery capacity and high safety. Fully enclosed oil-immersed multiple-disc, foot and parking brake provide constant brake performance in all conditions. The regenerative electrical brakes return energy to the battery during each braking action. This process saves energy costs, reduces brake wear and extends the driving time per battery charge.

If the driving direction is changed by operation of the direction lever, the electronics ensure gentle braking and progressive acceleration in the new direction of travel. The fully enclosed service brakes are protected against dust, damp and aggressive particles. Use under difficult environmental conditions is therefore possible without any problems. The standard ramp start feature enables controlled operation of the truck on gradients and precise handling on loading platforms.

Steering system

The 101° degree angle of the steer wheels turns the GEX four-wheel forklift almost on the spot – similar to the three-wheel forklift. Even in this position, smooth start up and control is maintained due to the independent front wheel drive.

Depending on the angle of the steer wheels, the speed and direction of rotation of the front wheels is controlled in such a way that significant wear of the tyres is avoided. When cornering, the traction speed is automatically reduced proportional to the degree of turn.

Hydraulic system

The independent, AC powered hydraulic pump only pumps the required oil volume for the relevant task, ensuring optimum energy efficiency and longer battery shift life. The internal gear hydraulic pump is distinguished by especially low pump noise combined with high efficiency. This saves energy and reduces the heat load on the hydraulics.

The steel hydraulic tank ensures good heat dissipation for the hydraulic oil ensuring long service life for the hydraulic components.

The full-flow return line filtration filters the oil to the tank at each reverse flow. Large particles are filtered directly via a suction filter, thereby preventing them from entering the oil circuit. This ensures a long service life for all hydraulic components.

The clear-view uprights are available in Standard, Hilo and Triplex versions. The interlocking profiles provide high strength and improved safety, even at high levels. Enclosed canted rollers minimize deflection and can easily be adjusted without major disassembly.

Tilt cylinders are mounted in spherical bushings, eliminating hydraulic seal strain, thereby increasing the service life of the complete cylinder. An integral tilt-lock valve prevents excessive tilt speeds and unintentional operation of the upright.

The upset forged forks ensure long service life and are hook mounted and pin lockable to ensure accurate for positioning.

A hydraulic cushioning valve reduces upright shocks and allows smooth lifting and lowering at all times, ensuring a long service life and less product damage. The sturdy 6-roller fork carriage features enclosed canted rollers together with adjustable side thrust rollers, preventing carriage jamming when handling offset loads.

Further standard equipment

Working headlights, acoustic reversing alarm, combination rear lights incorporating brake and reverse light, paintwork in a bright safety colour "CLARK Green", driver's compartment and upright in matt black, wheel rims in white finish.

Optional equipment

Pneumatic or non-marking tyres, side battery change, attachments, cabs, mini- or multifunction levers and much more

Safety

The GEX series is CE certified and corresponds to all European safety standards for counterbalanced forklift trucks.

Talk to your CLARK dealer to find the optimum equipment for you.



	Dealer:
CLARK Europe GmbH	

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