

ELECTRIC RIDERS

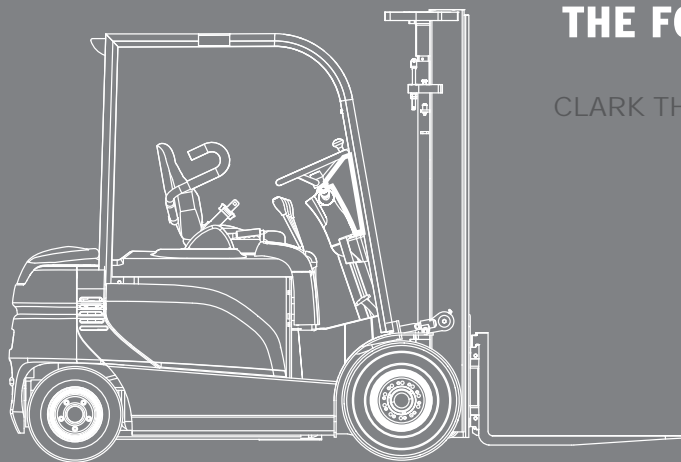
Electric Lift Trucks
Superelastic Tires

GEX16
GEX18
GEX20s

1600 kg
1800 kg
2000 kg

GEX16/18/20s

CLARK
THE FORKLIFT



CLARK THE FORKLIFT

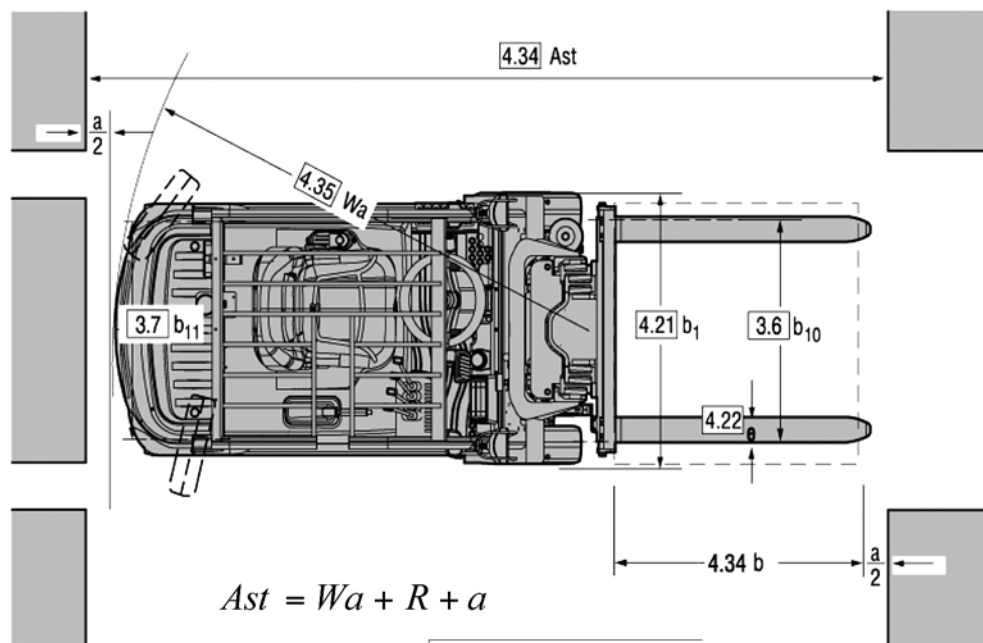
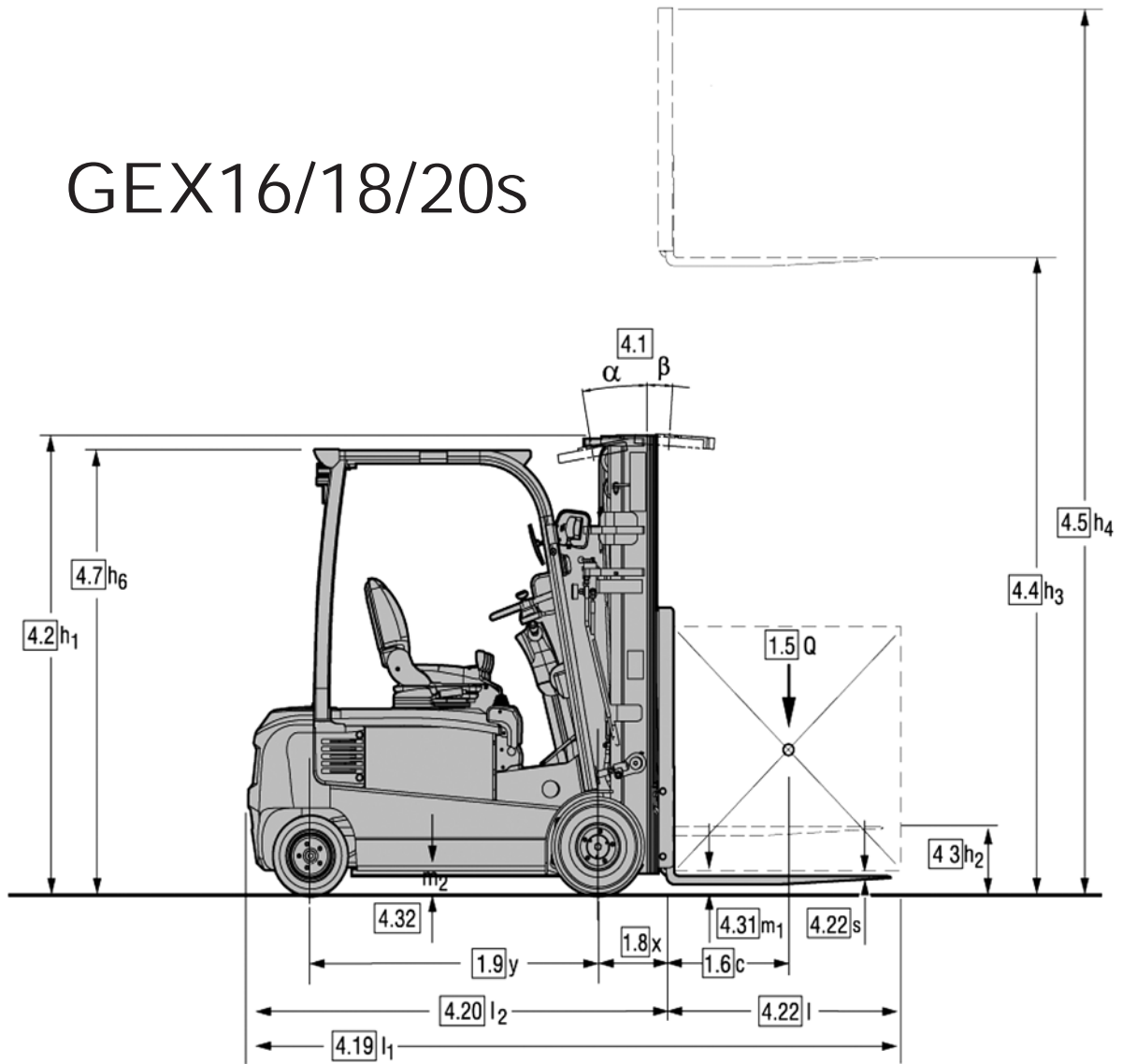
Europe

North Amerika

South Korea

w w w . c l a r k m h e u . c o m

GEX16/18/20s



$$Ast = Wa + R + a$$

$$Ast = Wa + \sqrt{(l_6 + x)^2 + \left(\frac{b_{12}}{2}\right)^2} + a$$

$$a = 200 \text{ mm}$$

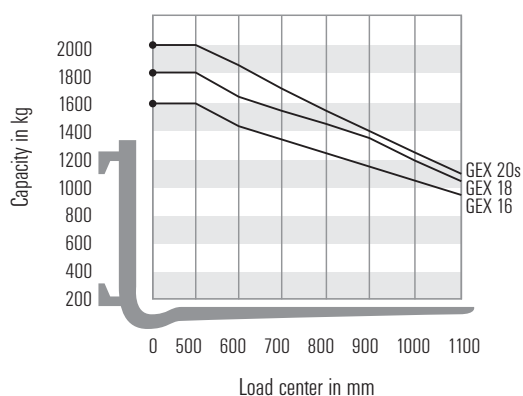
For data see corresponding number in chart "Product Specifications".

DIMENSIONS

Performance may vary +5% and - 10% due to motor and system efficiency tolerance. The performance shown represents nominal values which may be obtained under typical operating conditions of a machine. CLARK products and specifications are subject to change without notice.

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

Upright table

Capacity at different load centres

Upright table metrics in mm

| CLARK Ref. | max. fork height h3 | overall height lowered h1 | free lift h2h5* |
|------------|---------------------|---------------------------|-----------------|
|------------|---------------------|---------------------------|-----------------|

Standard GEX 16, 18, 20s

(2 Stage Mast, standard free lift)

| | | | |
|---|------|------|-----|
| V | 2085 | 1560 | 132 |
| V | 2585 | 1810 | 132 |
| V | 2785 | 1905 | 132 |
| V | 3085 | 2060 | 132 |
| V | 3385 | 2205 | 132 |
| V | 3585 | 2310 | 132 |
| V | 3795 | 2415 | 132 |
| V | 4075 | 2555 | 132 |
| V | 4585 | 3010 | 132 |
| V | 5085 | 3260 | 132 |

* without LBR

Upright table metrics in mm

| CLARK Ref. | max. fork height h3 | overall height lowered h1 | free lift h2h5* |
|------------|---------------------|---------------------------|-----------------|
|------------|---------------------|---------------------------|-----------------|

Triple GEX 16, 18, 20s

(3 Stage Mast, full free lift)

| | | | |
|---|------|------|------|
| M | 3970 | 1835 | 597 |
| M | 4345 | 1960 | 722 |
| M | 4780 | 2105 | 867 |
| M | 5185 | 2255 | 1017 |
| M | 5565 | 2415 | 1177 |
| M | 5740 | 2480 | 1242 |
| M | 6015 | 2605 | 1367 |
| M | 6470 | 2795 | 1557 |
| M | 7075 | 3050 | 1812 |

* without LBR

Upright table metrics in mm

| CLARK Ref. | max. fork height h3 | overall height lowered h1 | free lift h2h5* |
|------------|---------------------|---------------------------|-----------------|
|------------|---------------------|---------------------------|-----------------|

Hi-Lo GEX 16, 18, 20s

(2 Stage Mast, full free lift)

| | | | |
|---|------|------|------|
| H | 2925 | 1960 | 722 |
| H | 3215 | 2105 | 867 |
| H | 3515 | 2255 | 1017 |
| H | 3695 | 2345 | 1107 |
| H | 3810 | 2415 | 1177 |

* without LBR

Product Specifications

nach VDI 2198

| | 1.1 Manufacturer (Abbreviation) | CLARK | CLARK | CLARK | | |
|---------------------------------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------|---------------|---------------|--------------|----------|
| Specifications | 1.2 Manufacturer's designation | GEX16 | GEX18 | GEX20s | | |
| | 1.3 Drive unit battery | Elec-48V | Elec-48V | Elec-48V | | |
| | 1.4 Operator type stand on/ driver seated | Rider-seated | Rider-seated | Rider-seated | | |
| | 1.5 Load capacity/ rated load | Q (kg) | 1600 | 1800 | 2000 | |
| | 1.6 Load centre distance | c (mm) | 500 | 500 | 500 | |
| | 1.8 Load centre distance, centre of drive axle to fork face | x (mm) | 358 | 358 | 358 | |
| | 1.9 Wheelbase | y (mm) | 1312 | 1420 | 1420 | |
| | Weight | 2.1 Service weight | kg | 3132 | 3235 | 3409 |
| | | 2.2 Axle loading, laden front/rear | kg | 3979/753 | 4373/662 | 4759/650 |
| 2.3 Axle loading, unladen front/rear | | kg | 1416/1716 | 1490/1745 | 1559/1850 | |
| Tires, Chassis | 3.1 Tyre type, SE = superelastic, C = cushion | SE | SE | SE | | |
| | 3.2 Tyre size, front, superelastic | 18x7-8 | 18x7-8 | 200/50-10 | | |
| | 3.3 Tyre size, rear, superelastic | 15x4.5x8 | 15x4.5x8 | 15x4.5x8 | | |
| | 3.5 Wheels, number front/rear (x = drive wheels) | 2x/2 | 2x/2 | 2x/2 | | |
| | 3.6 Tread, front SE (C) | b ₁₀ (mm) | 905 | 905 | 915 | |
| | 3.7 Tread, rear | b ₁₁ (mm) | 870 | 870 | 870 | |
| | Dimensions | 4.1 Tilt of upright/fork carriage, a/b | deg | 6/6 | 6/6 | 6/6 |
| 4.2 Height, upright lowered | | h ₁ (mm) | 2060 | 2060 | 2060 | |
| 4.3 Freelift | | h ₂ (mm) | 132 | 132 | 132 | |
| 4.4 Lift height | | h ₃ (mm) | 3085 | 3085 | 3085 | |
| 4.5 Height, upright extended | | h ₄ (mm) | 4323 | 4323 | 4323 | |
| 4.7 Height overheadguard (Container) | | h ₆ (mm) | 2055 | 2055 | 2059 | |
| 4.8 Seat height MSG 20 (MSG 12) | | (mm) | 856 | 856 | 856 | |
| 4.12 Coupling height | | (mm) | 351 | 351 | 351 | |
| 4.19 Overall length | | l ₁ (mm) | 3048 | 3156 | 3156 | |
| 4.20 Length to face of forks | | l ₂ (mm) | 1978 | 2086 | 2086 | |
| 4.21 Width | | b ₁ (mm) | 1059 | 1059 | 1122 | |
| 4.22 Fork dimensions | | s*e*l (mm) | 40x100x1070 | 40x100x1070 | 40x100x1070 | |
| 4.23 Fork carriage DIN 15173, A, B | | | CL II A | CL II A | CL II A | |
| 4.24 Fork carriage width | | b ₃ (mm) | 940 | 940 | 940 | |
| 4.31 Ground clearance minimum, laden | | m ₁ (mm) | 85 | 85 | 85 | |
| 4.32 Ground clearance centre of wheelbase | | m ₂ (mm) | 84 | 84 | 87 | |
| 4.34 Stacking aisle for pallets (l ₆ -b ₁₂) 800 x 1200 across | | (mm) | 3142 | 3250 | 3250 | |
| 4.34 Stacking aisle for pallets (l ₆ -b ₁₂) 1000 x 1200 across | (mm) | 3322 | 3430 | 3430 | | |
| 4.34 Stacking aisle for pallets (l ₆ -b ₁₂) 800 x 1200 along | (mm) | 3447 | 3555 | 3555 | | |
| 4.35 Turning radius | W _a (mm) | 1638 | 1746 | 1746 | | |
| Performance | 5.1 Travel speed laden/unladen | km/h | 15/16 | 15/16 | 15/16 | |
| | 5.2 Lift speed laden/unladen | m/s | 0,40/0,50 | 0,37/0,50 | 0,35/0,50 | |
| | 5.3 Lowering speed laden/unladen | m/s | 0,57/0,52 | 0,57/0,52 | 0,57/0,52 | |
| | 5.6 max. drawbar pull laden/unladen (S2 5 min) | kg | 7277/16357 | 7698/16397 | 7326/16053 | |
| | 5.8 max. gradeability laden/unladen (S2 5 min) | % | 21,3/37,7 | 22,1/35,2 | 22,4/31,8 | |
| 5.10 Service brake | | electr./mech. | electr./mech. | electr./mech. | | |
| Drive Line | 6.1 Drive motor rating (S2 60 min) | kW | 2x4.4 | 2x4.4 | 2x4.4 | |
| | 6.2 Lift motor rating (S3 15 %) | kW | 15,2 | 15,2 | 15,2 | |
| | 6.3 Battery acc. To DIN 43531/35/36 A,B,C, no | | DIN43531A | DIN43531A | DIN43531A | |
| | 6.4 Battery voltage / nominal capacity K5 | V/Ah | 48/460 | 48/575 | 48/575 | |
| | 6.5 Battery weight (min.) | kg | 708 | 856 | 856 | |
| Miscellaneous | 8.1 Type of control | | AC/ Inverter | AC/ Inverter | AC/ Inverter | |
| | 8.2 Operating pressure for attachments | kg/cm ² | 140 | 140 | 140 | |
| | 8.4 Sound level, driver's ear | dB (A) | 72 | 72 | 72 | |

Operator cell

- Driver oriented coloured TFT-LCD-display showing real time operating data
- Customised adjustment of 80 operating parameters to suit working conditions and drivers preference
- Input of parameters via intelligent display instead of expensive handset or notebook
- Generous foot space, simple and comfortable handling of pedals
- Easily accessible emergency switch
- Easy entry and exit as well as customised adjustment to the driver via tilting steer pylon
- Ergonomically designed workplace
- Noise reduced hydraulic pump

Engines

- Dual drive motors which provide increased traction especially on wet or uneven surface
- Precise and dynamic response to lift- and tilt controls
- Optimisation of energy consumption
- Return of energy by regenerative braking
- All motors are completely enclosed and thus protected against dust, water and dirt
- Equipped with thermistor which constantly monitors temperature; control cuts back current when temperature approaches thermal limit

Brakes

- Continuous brake power by completely enclosed wet disk brakes – even in humid, abrasive or corrosive-prone environment
- No adjustment or regular replacement of the brake pads necessary

Steering

- 90° turn steer axle (GTX)
- 101° steer angle (GEX)
- Tightest possible turn radius as pivot point is centered between drive wheels
- Constant transmission of steering wheels position by sensor

Hydraulic system

- A single gear driven pump provides oil for hydraulic functions and steering
- Gentle load handling thanks to sensitively operated and precisely responsive control valve
- Optional: Mini-Joystick-hydraulic controls integrated into armrest
- Optional: Mini-Lever-hydraulic controls integrated into armrest

Upright

- CLARK Standard-, Hi-Lo- and Triplex-full free lift uprights
- Extremely distortion resistant due to special rolled profiles
- Hydraulically shock absorbing lift cylinders ensure silent operation, especially during free lift
- Sealed canted rollers minimise deflection and free play in both upright and carriage
- Even distribution of load weight via six carriage rollers
- Robust chassis made of thick steel ensures high torsional chassis strength.

Additional features

- Fork leveller
- Video-Camera (rear, carriage)
- Seat cutoff
- Automatic seat brake
- Incline limiter



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