

NPX

15D/17/20/22

ELECTRIC 24/36 VOLT
3000 / 3500 / 4000 / 4500 lbs.
(1350 / 1600 / 1800 / 2000 kg)





Rear posts add support to the overhead guard and help prevent objects from entering the operator compartment, helping to keep your employees as **safe** as possible.

65°

The NPX operator compartment and controls are designed with the operator standing at 65 degrees from center. This provides the widest range of flexibility and visual confirmation when traveling and handling loads to maximize productivity

Maximum Visibility + Minimum Fatigue = Increased Safety & Product Integrity

The operator compartment is designed with comfort and productivity in mind. The contoured full-support backrest, padded armrest and tiller position are fully adjustable to customize the operator compartment reducing fatigue and maximizing productivity.

Silent-staging upright helps to reduce shock and vibration. Nested I-beam rails provide strength and rigidity. Cylinder and hose routing design provides open field of vision improving operator confidence.



Reliable Performance with State of the Art Technology

The CLARK NPX 100% AC design, matched with energy-efficient components, delivers improved acceleration, travel and lifting speeds, increasing productivity. Operators have greater control to move product with more confidence. Reliable components require less service lowering overall costs.



NPX Performance and Safety in Mind

Rugged and reliable the new CLARK NPX series forklift trucks offer superior controllability, excellent front and rear visibility and high-speed operation to help increase productivity and profit while at the same time helping to improve operator safety. And maintenance has been made easier than ever. For increased performance, count on the CLARK NPX.



NPX CAPACITY	NPX 15D	3,000 lbs
	NPX 17	3,500 lbs
	NPX 20	4,000 lbs
	NPX 22	4,500 lbs

STATE OF THE ART TECHNOLOGY

- Advanced 100% AC motors and controllers.
- Electro-mechanical brakes.
- Electronic speed-sensitive power steering.
- High efficiency hydraulic system.

BRAKING

- Primary (electric) braking provided through electronic controller.
- Service brake engages automatically at zero travel.
- Electro-mechanical brake reduces components and complexity.
- Smooth, consistent braking in all load and travel conditions.



Design and Testing

At CLARK Material Handling Co. we have learned from over one hundred years designing and building forklifts that they need to be designed from the ground up to be reliable. We perform extensive testing to ensure that our electric forklift trucks meet high environmental standards and provide reliable operation in most environments. Testing of components, subassemblies and complete products goes hand in hand with all phases of the design and production cycle.



TRUE MULTIFUNCTION CONTROL

CLARK Designed Control Handle

- 3-Function design allows simultaneous operation of (1) travel, (2) lift or lower AND (3) one additional hydraulic function.

Integrated Mini-Thumbstick

- Controls Tilt & Reach + Side Shift.

Makes for One Smooth Operator

- Handle is 100% proportional using (solid state) Hall-effect components.
- Designed to fit a wide range of hand sizes and still give that "custom fit" feel for better ergonomics and less operator fatigue.



ELECTRONIC STEERING

- Speed-sensitive steering provides optimal control when transporting or positioning loads.
- Self-centering function aligns drive wheel at key-on.
- Tiller can be placed in preferred position by individual operator.
- Quiet and energy efficient.



Standard Equipment

- Key switch
- Load backrest extension
- Electronic horn
- Rear overhead guard post protection
- Heavy-duty battery rollers
- Battery retainers
- Lever type battery connect-disconnect
- Metal capacity plate

Available Equipment

- Side shifter
- Freezer conditioning
- Reverse steering
- Travel alarms
- Strobe warning lights
- Operating lights
- U.L. Classified EE rating

CALL OR VISIT CLARK TO LEARN MORE ABOUT THE NPX SERIES

North American Headquarters
866-252-5275 • www.clarkmhc.com

GENERAL DATA & STANDARD DIMENSIONS

Upright Table

Maximum Fork Height in mm		Overall Height Lowered in mm		Free Lift** in mm
Triple Stage				
198	5029	89	2261	54 1372
210	5334	95	2413	60 1524
240	6096	107	2718	72 1829
258	6553	113	2870	78 1981
270	6858	119	3023	84 2134
300	7620	131	3327	96 2438
318	8077	139	3531	104 2642
• 330	8382	149	3785	114 2896
• 366	9296	161	4089	126 3200

For overall height raised with load backrest, add 48 in (1219 mm) to maximum fork height. Other uprights available, contact Clark representative. Uprights above 270" N/A on NPX17.

- NPX 15D, NPX 22 only.

Carriage Widths*/Fork Spread in(mm)

Carriage Width in mm	Fork Spread w/o Side Shifter max min	Fork Spread w/ Side Shifter max min
33 838	31.0(787) 13.0(330)	27.7(704) 22.3(566)
37 940	35.0(889) 13.0(330)	27.7(704) 22.3(566)

* 37 in. wide carriages available with outrigger I.D. 38 in. and greater (40 in. and greater with 10.5 in. load wheels.)

NPX Min. Right Angle Stack Aisle in(mm)*

Pallet or Load Size Length x Width	Battery Compartment (L) 13.88(353) 16.13(410) 18.5(470)** 21.0(533)**			
36x30(914x762)	82.2(2088)	84.1(2136)	86.8(2205)	89.0(2261)
42x36(1067x914)	87.1(2212)	89.2(2266)	92.1(2339)	94.5(2400)
36x40(914x1016)	82.0(2083)	83.9(2131)	86.8(2205)	89.0(2261)
40x40(1016x1016)	84.8(2154)	86.8(2205)	89.6(2276)	91.9(2334)
48x40(1219x1016)	93.0(2362)	95.1(2416)	98.2(2494)	100.6(2555)
48x42(1219x1067)	92.8(2357)	94.9(2410)	98.0(2489)	100.4(2550)
48x44(1219x1118)	92.6(2352)	94.7(2405)	97.7(2482)	100.2(2545)
48x48(1219x1219)	92.2(2342)	94.3(2395)	97.3(2471)	99.8(2535)

* Add 6 to 8 inches clearance for ease of operation. Dimensions are based on 42 inch I.D. outrigger with 5 x 3.76 in. load wheels and 4" clearance each side of load.

**Add 8" for NPX 15D (plus operating clearance).



Outrigger Dimensions - I.D./O.D. (in)

Dual 5 x 3.76 Load Wheels Toe Box Width 5.5 in I.D. O.D.	Dual 5 x 3.01 Load Wheels Toe Box Width 4.5 in I.D. O.D.	Single 10.5 x 4.5 Load Wheels Toe Box Width 6.0 in I.D. O.D.	Dual 4 x 2.62 Load Wheels Toe Box Width 4.5 in I.D. O.D.
33 44	33 42	- -	33 42
34 45	34 43	- -	34 43
36 47	35 44	36.25 48.25	35 44
38 49	37 46	38.25 50.25	37 46
40 51	39 48	40.25 52.25	39 48
41 52	41 50	41.25 53.25	41 50
42 53	42 51	42.25 54.25	42 51
44 55	43 52	44.25 56.25	43 52
46 57	45 54	46.25 58.25	45 54
48 59	47 56	48.25 60.25	47 56
50 61	49 58	50.25 62.25	49 58
- -	51 60	- -	51 60

Outrigger Dimensions - I.D./O.D. (mm)

Dual 127 x 96 Load Wheels Toe Box Width 140mm I.D. O.D.	Dual 127 x 76 Load Wheels Toe Box Width 114mm I.D. O.D.	Single 267 x 114 Load Wheels Toe Box Width 152mm I.D. O.D.	Dual 102 x 67 Load Wheels Toe Box Width 114mm I.D. O.D.
838 1118	838 1067	- -	838 1067
864 1143	864 1092	- -	864 1092
914 1194	889 1118	921 1226	889 1118
965 1245	940 1168	972 1276	940 1168
1016 1295	991 1219	1022 1327	991 1219
1041 1321	1041 1270	1048 1353	1041 1270
1067 1346	1067 1295	1073 1378	1067 1295
1118 1397	1092 1321	1124 1429	1092 1321
1168 1448	1143 1372	1175 1480	1143 1372
1219 1499	1194 1422	1226 1530	1194 1422
1270 1549	1245 1473	1276 1581	1245 1473
- -	1295 1524	- -	1295 1524

Battery Weights & Compartment Dimensions

Width (W) in mm	Length (L) in mm	Height (H) in mm	Min. Weight lbs. kg
38.75 984	13.88 353	32.0 813	1590 721
38.75 984	16.13 410	32.0 813	1885 855
38.75 984	18.50 470	32.0 813	2175 987
38.75 984	21.00 533	32.0 813	2460 1116

Maximum Battery Size

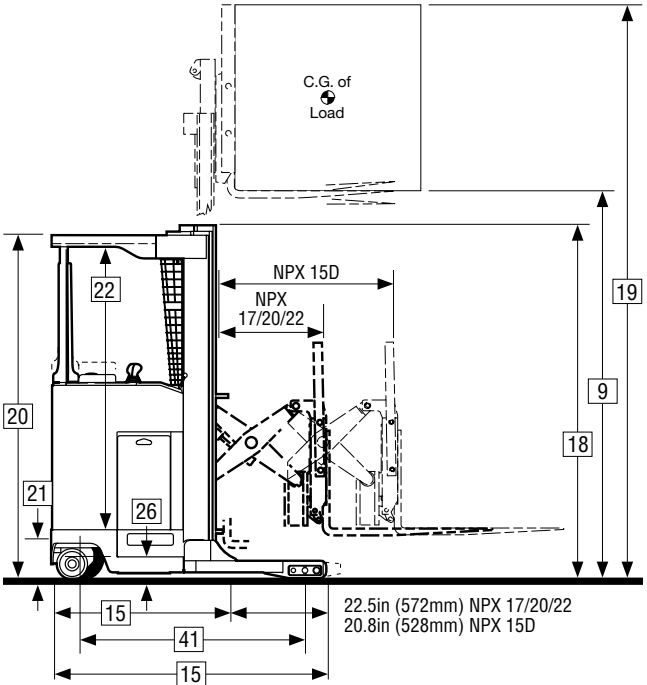
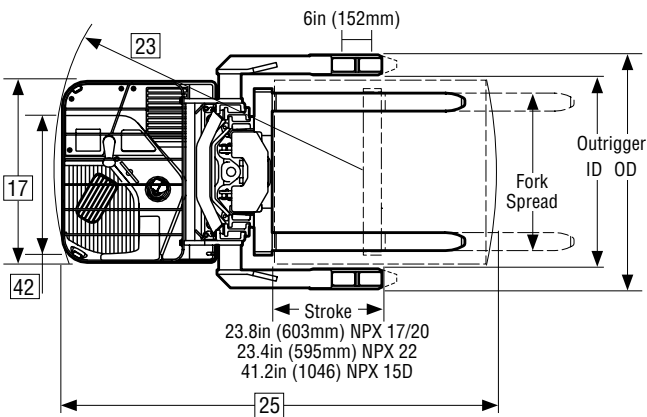
Width (W) in mm	Length (L) in mm	Height (H) in mm
38.69 983	13.50 343	31.5 800
38.69 983	15.75 400	31.5 800
38.69 983	18.00 457	31.5 800
38.69 983	20.50 521	31.5 800

Operator Compartment/ Overhead Guard Dimensions

Maximum Fork Height in mm	Compartment Inside in mm	Overhead Guard Height in mm
198 5029	75 1905	89 2261
210 5334	81 2057	95 2413
240 6096	81 2057	95 2413
258 6553	81 2057	95 2413
270 6858	81 2057	95 2413
300 7620	81 2057	95 2413
318 8077	81 2057	95 2413
* 330 8382	81 2057	95 2413
* 366 9296	81 2057	95 2413

* NPX 15D, NPX 22 only.

STANDARD SPECIFICATIONS



For corresponding data see Specification Chart

ANSI/ITSDF and Insurance Classification

Standard truck meets all applicable mandatory requirements of Part III-ANSI/ITSDF B56.1 Safety Standard for Powered Industrial Trucks (latest edition at time of manufacture) and Underwriters Laboratories requirements as to fire and electrical shock hazard only for "E" classification. For further information contact a Clark representative.

Users should be aware of, and adhere to, applicable codes and regulations regarding operator training, use, operation and maintenance of powered industrial trucks, including:

- ANSI/ITSDF B56.1
- NFPA 505, fire safety standard for powered industrial trucks - type designations, areas of use, maintenance and operation.
- Occupational Safety and Health Administration (OSHA) regulations that may apply.

Contact your authorized CLARK forklift truck dealer for further information including operator training programs and auxiliary visual and audible warning systems, fire extinguishers, etc., as available for specific user applications and requirements.

Performance may vary +5% and -10% due to motor and systems efficiency tolerance. The performance shown represents nominal values which may be obtained under typical operating conditions of a standard machine.

Grade Clearance: The NPX is not designed for operation on or over grades. NPX is designed to operate on level ground only.

Specifications, equipment, technical data, photos and illustrations are based on information at time of printing and are subject to change without notice. Some products may be shown with optional equipment.

- Notes:
- 1 Specifications are for truck with tandem 5 in (127 mm) diameter x 3.76 in (96mm) wide load wheels. Other sizes are also available.
 - 2 Specifications are for truck with 210 in (5334 mm) MFH upright, 42 in (1067 mm) outrigger ID and 33 in (838 mm) sideshifter (deduct 50 lb. (23kg) for weight less SS). Battery compartment dimensions as noted.
 - 3 See Upright Table for other available uprights.

General Information	1	Manufacturer	CLARK	CLARK	CLARK	CLARK
	2	Model	NPX17	NPX20	NPX22	NPX15D
	3	Load Capacity	lbs(kg)	3500 (1600)	4000 (1800)	4500 (2000)
	4	Load Center	Fork Face to Load CG	24 (600)	24 (600)	24 (600)
	5	Power Unit	Electric	Dual 24 volt / 36 volt	Dual 24 volt / 36 volt	36 volt
	6	Operator Type	Rider Reach	Rider Reach	Rider Reach	Rider Double Reach
	7	Tire Type	Solid	Solid	Solid	Solid
	8	Wheels (x=driven)	Front/Rear	4/2 (1x)	4/2 (1x)	4/2 (1x)
Basic Dimensions ^{1,2}	9					
	10	Upright ³	Lift Height (Preferred Upright)	in(mm)	210 (5334)	210 (5334)
	11	Freelift		in(mm)	60 (1524)	60 (1524)
	12	Fork Tilt	Back/Forward	degrees	4/3	4/3
	13	Fork	Std. Fork Size (T x W x L)	in(mm)	1.75 x 4 x 42 (44 x 102 x 1067)	1.75 x 4 x 42 (44 x 102 x 1067)
	14	Carriage	Width of Carriage	in(mm)	33 (838)	33 (838)
	15	Overall Dimensions	Length to Fork Face	in(mm)	48.1 (1222)	51.1 (1298)
			Overall length, less forks	in(mm)	70.25 (1784)	75.9(1928)
	16	Outrigger ID/OD		in(mm)	See Outrigger Dimension Chart	See Outrigger Dimension Chart
	17	Frame Width		in(mm)	40.25 (1022)	40.25 (1022)
	18	Height, Upright Lowered		in(mm)	95 (2413)	95 (2413)
	19	Height, Upright Extended		in(mm)	258 (6553)	258 (6553)
Performance	20	Height, Overhead Guard		in(mm)	95 (2413)	95 (2413)
	21	Step Height	Ground to Top of Floor Plate	in(mm)	12.2 (310)	12.2 (310)
	22	Head Clearance	Top of Floor Plate to Bottom of OHG	in(mm)	81 (2057)	81 (2057)
	23	Turning Radius		in(mm)	66.5 (1689)	69.7 (1770)
	24					
	25	Right Angle Stack Aisle ⁴	48 in x 40 in pallet	in(mm)	93 (2362)	98.2 (2494)
	26	Battery Compartment	W x L x H	in(mm)	38.75x13.88x32 (984x353x813)	38.75x18.5x32 (984x470x813)
		Battery Roller Height	Ground to Top of Rollers	in(mm)	6.25 (159)	6.25 (159)
Weights ⁵	27	Stability	According to ANSI	Yes	Yes	Yes
	28	Speeds- Forks Trailing	Travel Speed, Max, With Load ⁵	mph(kph)	6.8 (10.9) / 7.5 (12.0)	7.5 (12.0)
	29		Travel Speed, Max, Without Load ⁵	mph(kph)	7.5 (12.0) / 7.5 (12.0)	7.5 (12.0)
	30		Lift Speeds, Loaded	fpm(mps)	69 (.35) / 98 (.50)	77 (0.39)
	31		Lift Speeds, Unloaded	fpm(mps)	115 (.58) / 130 (.66)	130 (0.66)
	32		Lower Speeds, Loaded	fpm(mps)	105 (.53)	105 (.53)
	33		Lower Speeds, Unloaded	fpm(mps)	95 (.48)	95 (.48)
	34	Service Weight, TSU	W/Min Battery Weight	lbs(kg)	6620 (3002)	7988 (3623)
Chassis	35	Axle loading	With Load, Front	lbs(kg)	6402 (2903)	8274 (3752)
	36		With Load, Rear	lbs(kg)	3718 (1686)	3875 (1757)
	37		W/O Load, Front	lbs(kg)	2570 (1166)	2645 (1200)
	38		W/O Load, Rear	lbs(kg)	4050 (1837)	4255 (1930)
	39	Tires/Wheels	Number, Front/Rear	4/2	4/2	4/2
	40		Size, Load Wheels	in(mm)	(4) 5 x 3.76 urethane (127x96)	(4) 5 x 3.76 urethane (127x96)
			Size, Rear Drive/Steer	in(mm)	13.5 x 5.5 rubber (343 x 140)	13.0 x 5.5 urethane (330 x 140)
			Size, Rear Caster	in(mm)	8 x 4 urethane (203 x 102)	8 x 4 urethane (203 x 102)
Drive Line	41	Wheelbase		in(mm)	56.1 (1425)	61.7 (1567)
	42	Track	Rear	in(mm)	28.7 (729)	28.7 (729)
	43					
	44	Ground Clearance	With 5 in diameter load wheels	in(mm)	1.75 (44)	1.75 (44)
	45					
	46	Service Brake	Type	Regenerative	Regenerative	Regenerative
	47	Parking Brake	Type	Auto-Electro-Magnetic	Auto-Electro-Magnetic	Auto-Electro-Magnetic
		Steering	Type	Power	Power	Power
	48	Battery	Type	Lead-Acid	Lead-Acid	Lead-Acid
			Max Capacity (6 hr. Rate) 24V/36V	kWh	28.9 / 27.0	37.6
			Weight, Min	lbs(kg)	1590 (722)	2175 (987)
	49	Motors, Controls	Drive Motor, Diameter	in(mm)	7.9 (200)	7.9 (200)
			Hydraulic Motor, Diameter	in(mm)	6.7 (170)	6.7 (170)
			Steer Motor, diameter	in(mm)	4.2 (106.5)	4.2 (106.5)
			Drive Motor Control	Type	AC Induction Motor Controller	AC Induction Motor Controller
			Speed Control	Type	Solid State	Solid State
			Hydraulic Motor Control	Type	AC Induction Motor Controller	AC Induction Motor Controller
			Steer Motor Control	Type	AC Induction Motor Controller	AC Induction Motor Controller

- 4 Right angle stacking aisle for pallet size shown. Add 6-8 in (152-203 mm) for operating clearance. See "General Data" for other pallet sizes.
- 5 Travel speed reduced to 6.75 mph (10.8 kph) when traveling forks leading.



& Don't Forget... **Safety Starts With You!**

Before operating a lift truck, an operator must:

- Be trained and authorized
- Read and understand operator's manual
- Not operate a faulty lift truck
- Not repair a lift truck unless trained and authorized
- Have the overhead guard and load backrest extension in place
- Perform daily inspections

During operation, a lift truck operator must:

- Keep feet, legs and all parts of body inside operator compartment
- Never carry passengers or lift people
- Keep truck away from people and obstructions
- Travel with lift mechanism as low as possible and tilted back
- Allow safe stopping distance and come to a complete stop before leaving operator compartment

To park a lift truck, an operator must:

- Completely lower forks or attachments
- Turn key off

- We don't just build forklifts. As a company, we are also focused on providing our customers with the best possible technical service support and aftermarket parts available.

- Even though our business starts with a quality, cost-effective product, our organization understands that it is the support and services we provide after the sale that help keep your business running at peak efficiency.

- **THE CLARK PartsPRO Plus® SYSTEM** is our industry-leading electronic parts and service documentation tool that provides dealers with a quick and accurate method of identifying parts for every CLARK forklift built since 1961. PartsPRO® ensures the availability of the most current technical information and has the unique capability to create parts manuals specific to your mixed CLARK fleet, making it simple to positively identify and order the correct part(s) from your local CLARK dealer. The right CLARK part — The First Time, Every Time.

- **UNRIVALED PARTS SUPPORT** Our Aftermarket Distribution Center provides parts to over 250 North American CLARK dealer locations and many international dealers. This CLARK operated 184,000 square foot facility is dedicated to supporting the CLARK models built over the last 90 years. This facility is focused on providing excellent off-the-shelf availability, quality parts, quick response time and competitive pricing.

DEPENDABLE PARTS = DEPENDABLE TRUCKS

To Find Your Nearest Authorized CLARK Dealer, Visit Our Website www.clarkmhc.com



BUILT TO LAST.



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