









## Highly Maneuverable, Easily Serviceable, Broadly Flexible, Extremely Dependable

The NPR/NSR family of reach and straddle trucks is designed to meet the performance and reliability requirements of today's demanding narrow aisle applications. **Ergonomic design**, **maneuverability** and **energy efficiency** combine to achieve **maximum productivity**.

# The NPR/NSR Operator Compartment and Controls are designed at 65 degrees from centerline to offer the widest range of flexibility and visual confirmation to the operator's preferred stance (no shuffling required).

 Remove two bolts and swing open the access door to expose drive and power steering motors, lift pump and spin on filter. For the technicians's reference, decals on the inside of the door display electrical, hydraulic and lubrication information. Removing the top cover reveals the drive and power steering controls, hydraulic motor and valve. Floor plate can be lifted out for access to brake components.

# Maximum Visibility + Minimum Fatigue = Ultimate Safety & Product Integrity





# NPR/NSR STANDARD FEATURES & BENEFITS



### **HEAVY DUTY DRIVE AND HYDRAULIC MOTORS**

### **■** Maximum Service Life

 Series-wound drive and hydraulic motors and a permanent-magnet power steering motor are all fan cooled, ventilated and class H insulated.



### **ARTICULATING AXLE**

### **■** Heavy Duty

- Cast axle supports both the drive and caster wheel assemblies.
- Smooth Steering & Control



### **MULTIFUNCTION CONTROL**

### **■** Control Handle

- Travel speed, direction, lift, lower, tilt, reach, retract and sideshift functions are all combined into a single handle.
- Travel and one hydraulic function can be performed simultaneously.

### ■ Featherable

 Use of handle allows full feathering of all hydraulic functions.

### **■** Reduced Operator Fatigue

 Designed to be operated by major muscle groups and requires no lifting or twisting.

### **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
- · Back-up alarm
- · Strobe warning lights
- · Operating lights
- . U.L. Classified EE rating



### FULLY ADJUSTABLE/PROGRAMMABLE

 A properly trained mechanic can completely customize parameters to operator's preference such as acceleration rate, creep speed and plugging rate.

### **DUAL WHEEL BRAKES**

### ■ Plugging

• The preferred method for stopping.

### ■ Parking Brake

· Automatically applied when foot leaves the pedal.

### **■** Drive Motor

· Brakes on drive motor output shaft and caster wheel.

### ■ 2 ways to stop the truck provides ultimate safety



### "BUILT TO LAST®" Frame

 Constructed of thick steel plates for the exceptional strength and durability you expect in a lift truck.



### **CLARK UPRIGHT**

### **■** 3-Stage Upright

- Shimmable, sealed and canted load rollers maximize load distribution and reduce free play.
- Hydraulic cushioning valves provide silent staging reducing shock and vibration.

### **■** Pantograph Assembly

- Cylinders feature hydraulic cushioning to ensure smooth reach and retraction.
- Attached using spherical bushings to reduce stress and binding.

### ■ Load Lowering

- Additional flow control valves limit lowering in the event of failure.
- · Controlled lowering speed regardless of condition.



### **OPERATOR'S COMPARTMENT**

### **65**

- Operator compartment is set to 65° from the truck centerline allowing a wide range of comfortable operating positions.
- · Excellent visibility in all directions.

### ■ 12.2" Step Height

• The NPR/NSR makes entry and exit easier than many competitive models.

### **■** On Demand Power Steering

Motor idles at low rpm until demand increases.

# GENERAL DATA & STANDARD DIMEN

### **Upright Table**

Maxin Fork H in		Overa Lower in	ll Height red mm	Free in	Lift** mm
Standar	d Two Stage				
198 210 240 258 270 300 318 • 321 • 330 • 366	5029 5334 6096 6553 6858 7620 8077 8153 8382 9296	89 95 107 113 119 131 139 139 149	2261 2413 2718 2870 3023 3327 3531 3531 3785 4089	54 60 72 78 84 96 104 104 114	1372 1524 1829 1981 2134 2438 2642 2642 2896 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 NPR17.

• NPR 15D, NPR 22, NSR 25 only.

### Carriage Widths\*/Fork Spread in(mm)

Carria Width in		Fork Sprea w/o Side S max		Fork Sprea w/ Side Sh max	
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)

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

### NPR Min. Right Angle Stack Aisle in(mm)\*

Pallet or Load Size Length x Width	13.88(353)	Battery Com 16.13(410)	npartment (L) 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)
48x42(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)

 $<sup>^\</sup>star$  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.

### NSR Min. Right Angle Stack Aisle in(mm)\*

13.88(353)	16.13(410)	18.5(470)**	<sup>*</sup> 21.0(533)**
79.7(2024)	81.6(2073)	86.1(2187)	88.3(2243)
82.3(2090)	84.3(2141)	87.6(2225)	89.8(2281)
82.0(2083)	83.9(2131)	88.2(2240)	90.4(2296)
82.0(2083)	83.9(2131)	88.2(2240)	90.4(2296)
89.5(2273)	91.6(2327)	95.1(2416)	97.4(2474)
89.1(2263)	91.2(2316)	94.7(2405)	97.1(2466)
88.8(2256)	90.9(2309)	94.4(2398)	96.7(2456)
88.3(2243)	90.4(2296)	94.0(2388)	96.0(2438)
	79.7(2024) 82.3(2090) 82.0(2083) 82.0(2083) 89.5(2273) 89.1(2263) 88.8(2256)	13.88(353) 16.13(410) 79.7(2024) 81.6(2073) 82.3(2090) 84.3(2141) 82.0(2083) 83.9(2131) 82.0(2083) 83.9(2131) 89.5(2273) 91.6(2327) 89.1(2263) 91.2(2316) 88.8(2256) 90.9(2309)	82.3(2090) 84.3(2141) 87.6(2225) 82.0(2083) 83.9(2131) 88.2(2240) 82.0(2083) 83.9(2131) 88.2(2240) 89.5(2273) 91.6(2327) 95.1(2416) 89.1(2263) 91.2(2316) 94.7(2405) 88.8(2256) 90.9(2309) 94.4(2398)

 $<sup>^{\</sup>star}$  Add 6 to 8 inches clearance for ease of operation. Dimensions are based on I.D. 2" wider than load, 5 x 3.76 load wheels and 7" clearance each side of load.

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

Load Toe B	5 x 3.76 Wheels Box 1 5.5 in O.D.	Load Toe E	h 4.5 in	Single 1 Load W Toe Box Width 6 I.D.	(	Dual 4: Load W Toe Box Width 4 I.D.	/heels
33 34 36 38 40 41 42 44 46 48 50	44 45 47 49 51 52 53 55 57 59 61	33 34 35 37 39 41 42 43 45 47	42 43 44 46 48 50 51 52 54 56	36.25 38.25 40.25 41.25 42.25 44.25 46.25 48.25 50.25	48.25 50.25 52.25 53.25 54.25 56.25 58.25 60.25 62.25	33 34 35 37 39 41 42 43 45 47	42 43 44 46 48 50 51 52 54 56
-	-	51	60	-	-	51	60

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

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

### **Battery Weights & Compartment Dimensions**

			•				
Width	(W)	Length	(L)	Heigh	t (H)	Min. W	/eight
in	mm	in	mm	in	mm	lbs.	kg
38.75	984	13.38	340	32.0	813	1400	636
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)	Length (L)	Height (H)
in mm	in mm	in mm
38.69 983	13.00 330	31.5 800
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

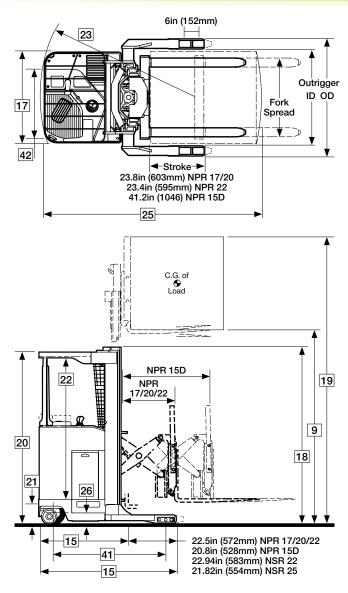
### **Operator Compartment/ Overhead Guard Dimensions**

Maxii	mum	Com	partment		head
Fork	Height	Insid	de		Height
in	mm	in	mm		mm
198 210 240 258 270 300 318 321 330 366	5029 5334 6096 6553 6858 7620 8077 8153 8382 9296	75 81 81 81 81 81 81 81 81	1905 2057 2057 2057 2057 2057 2057 2057 20	89 95 95 95 95 95 95 95	2261 2413 2413 2413 2413 2413 2413 2413 241

<sup>\*</sup> NPR 15D, NPR 22, NSR25 only.

<sup>\*\*</sup>Add 8" for NPR 15D (plus operating clearance).

# IDARD SPECIFICATIONS



For corresponding data see Specification Chart

### **Notes**

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.

### **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
- MFPA 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.

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. 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. See Upright Table for other available uprights.

	1	Manufacturor	I	
_		Manufacturer	Manufactural Desirantian	
뜵	2	Model	Manufacturer's Designation	
Ë	3	Load Capacity	F   F   1   100	11 - (1 - )
물	4	Load Center	Fork Face to Load CG	lbs(kg)
General Information	5	Power Unit	Electric	in(mm)
ē	6	Operator Type		
ğ	7	Tire Type		
	8	Wheels (x=driven)	Front/Rear	
	9			
	10	Upright <sup>3</sup>	Lift Height (Preferred Upright)	in(mm)
	11		Freelift	in(mm)
	12	Fork Tilt	Back/Forward	degrees
	13	Fork	Std. Fork Size (T x W x L)	in(mm)
	14	Carriage	Width of Carriage	in(mm)
	15	Overall Dimensions	Length to Fork Face	in(mm)
S <sup>1,2</sup>			Overall length, less forks	in(mm)
Basic Dimensions <sup>1,2</sup>	16		Outrigger ID/OD	in(mm)
ens	17		Frame Width	in(mm)
Ë	18		Height, Upright Lowered	in(mm)
. <u>;;</u>	19		Height, Upright Extended	in(mm)
Bas	20		Height, Overhead Guard	in(mm)
	21	Step Height	Ground to Top of Floor Plate	in(mm)
	22	Head Clearance	Top of Floor Plate to Bottom of OHG	in(mm)
	23	Turning Radius		in(mm)
	24			
	25	Right Angle Stack Aisle4	48 in x 40 in pallet	in(mm)
	26	Battery Compartment	WxLxH	in(mm)
		Battery Roller Height	Ground to Top of Rollers	in(mm)
	27	Stability	According to ANSI	
_	28	Speeds	Travel Speed, Max, With Load	mph(kph)
Performance	29	'	Travel Speed, Max, Without Load	mph(kph)
	30		Lift Speeds, Loaded <sup>5</sup>	fpm(mps)
Ē	31		Lift Speeds, Unloaded <sup>5</sup>	fpm(mps)
P	32		Lower Speeds, Loaded	fpm(mps)
	33		Lower Speeds, Unloaded	fpm(mps)
	34	Service Weight, TSU	W/Min Battery Weight	lbs(kg)
$\mathbf{S}_{2}$	35	Axle loading	With Load, Front	lbs(kg)
Weights²	36	, and to a a mig	With Load, Rear	lbs(kg)
Wei	37		W/O Load, Front	lbs(kg)
_	38		W/O Load, Rear	lbs(kg)
	39	Tires/Wheels	Number, Front/Rear	( 3)
	40		Size, Load Wheels	in(mm)
			Size, Rear Drive/Steer	in(mm)
			Size, Rear Caster	in(mm)
	41	Wheelbase	Cizo, riodi Gastoi	()
Sis	42	Track	Rear	in(mm)
Chassis	43	Truck .		()
5	44	Ground Clearance	With 5 in diameter load wheels	in(mm)
	45	Ground Grounding	That is an area road mission	()
	46	Service Brake	Туре	
	47	Parking Brake	Туре	
		Steering	Туре	
	48	Battery	Туре	
		Dation	Max Capacity (6 hr. Rate)	kWh
			Weight, Min	lbs(kg)
•	49	Motors, Controls	Drive Motor, Diameter	in(mm)
<b>Drive Line</b>	.,		Hydraulic Motor, Diameter	in(mm)
Ve			Steer/Auxiliary Motor, diameter	in(mm)
Dri			Drive Motor Control	Type
			Speed Control	Туре
			Hydraulic Motor Control	Туре
			Steer/Auxiliary Motor, control	Туре
	57		5.501/1 taxinary iviolot, continu	1300
	58			
	33	I	I	

# NPR/NSR 15D/17/20/22/25

Clark	Clark	Clark	Clark	Clark	Clark
Clark	Clark	Clark	Clark	Clark	Clark
NPR17	NPR20	NPR22	NPR15D	NSR22	NSR25
3500 (1600)	4000 (1800)	4500 (2000)	3000 (1350)	4500 (2000)	5000 (2275)
24 (600)	24 (600)	24 (600)	24 (600)	24 (600)	24 (600)
24 volt / 36 volt	24 volt / 36 volt	36 volt	36 volt	24 volt / 36 volt	36 volt
Rider Reach	Rider Reach	Rider Reach	Rider Double Reach	Rider Straddle	Rider Straddle
Solid	Solid	Solid	Solid	Solid	Solid
4/2 (1x)					
210 (5334)	210 (5334)	210 (5334)	210 (5334)	210 (5334)	210 (5334)
60 (1524)	60 (1524)	60 (1524)	60 (1524)	60 (1524)	60 (1524)
4/3	4/3	4/3	4/3	4/3	4/3
1.75 x 4 x 42 (44 x 102 x 1067)	1.75 x 4 x 42 (44 x 102 x 1067)	1.75 x 4 x 42 (44 x 102 x 1067)	1.75 x 4 x 42 (44 x 102 x 1067)	1.75 x 4 x 42 (44 x 102 x 1067)	1.75 x 4 x 42 (44 x 102 x 1067)
33 (838)	33 (838)	33 (838)	33 (838)	33 (838)	33 (838)
48.1 (1222)	` '	` '	61.0 (1550)	, ,	` ,
	48.1 (1222)	51.1 (1298)		49.3 (1251)	54.1 (1374)
70.25 (1784)	70.25 (1784)	75.9(1928)	81.8(2078)	72.2(1834)	75.9(1928)
See Outrigger Dimension Chart					
40.25 (1022)	40.25 (1022)	40.25 (1022)	40.25 (1022)	40.25 (1022)	40.25 (1022)
95 (2413)	95 (2413)	95 (2413)	95 (2413)	95 (2413)	95 (2413)
258 (6553)	258 (6553)	258 (6553)	258 (6553)	258 (6553)	258 (6553)
95 (2413)	95 (2413)	95 (2413)	95 (2413)	95 (2413)	95 (2413)
12.2 (310)	12.2 (310)	12.2 (310)	12.2 (310)	12.2 (310)	12.2 (310)
, ,			` '		` '
81 (2057)	81 (2057)	81 (2057)	81 (2057)	81 (2057)	81 (2057)
66.5 (1689)	66.5 (1689)	69.7 (1770)	76.14 (1934)	66.5 (1689)	72.1 (1832)
93 (2362)	93 (2362)	98.2 (2494)	106 (2692)	91.6 (2327)	95.1 (2416)
38.75x13.88x32 (984x353x813)	38.75x13.88x32 (984x353x813)	38.75x18.5x32 (984x470x813)	38.75x18.5x32 (984x470x813)	38.75x13.88x32 (984x353x813)	38.75x18.5x32 (984x470x813)
6.25 (159)	6.25 (159)	6.25 (159)	6.25 (159)	6.25 (159)	6.25 (159)
Yes	Yes	Yes	Yes	Yes	Yes
5.8 (9.3) / 6.7 (10.8)	5.7 (9.2) / 6.6 (10.6)	6.5 (10.5)	6.5 (10.5)	5.7 (9.2) / 6.6 (10.6)	6.2 (10.0)
6.3 (10.1) / 7.2 (11.6)	6.3 (10.1) / 7.2 (11.6)	7.1 (11.4)	7.1 (11.4)		7.1 (11.4)
. , , , ,			, ,	6.3 (10.1) / 7.2 (11.6)	, ,
42 (.21) / 62 (.31)	40 (.20) / 60 (.30)	72 (.37)	82 (.42)	40 (.20) / 60 (.30)	70 (.36)
65 (.33) / 95 (.48)	65 (.33) / 95 (.48)	108 (.55)	108 (.55)	65 (.33) / 95 (.48)	108 (.55)
80 (.41)	80 (.41)	80 (.41)	77 (.39)	80 (.41)	80 (.41)
90 (.46)	90 (.46)	90 (.46)	90 (.46)	80 (.41)	90 (.46)
6660 (3024)	6940 (3151)	8329 (3781)	8708 (3953)	6780 (3082)	7879 (3581)
6390 (2901)	7030 (3192)	8442 (3833)	6882 (3124)	7583 (3447)	8717 (3962)
3770 (1712)	3910 (1775)	4387 (1992)	4826 (2191)	3697 (1680)	4162 (1892)
2445 (1110)	2520 (1144)	3259 (1480)	3427 (1556)	2460 (1118)	2962 (1346)
4215 (1914)	4420 (2007)	5070 (2302)	5281 (2398)	4320 (1964)	4917 (2235)
4/2	4/2	4/2	4/2	4/2	4/2
(4) 5 x 3.76 urethane (127x96)					
13.5 x 5.5 rubber (343 x 140)	13.5 x 5.5 rubber (343 x 140)	13.0 x 5.5 urethane (330 x 140)	13.0 x 5.5 urethane (330 x 140)	13.5 x 5.5 rubber (343 x 140)	13.0 x 5.5 urethane (330 x 140)
8 x 4 urethane (203 x 102)					
56.1 (1425)	56.1 (1425)	61.7 (1567)	65.75 (1670)	56.1 (1425)	61.8 (1568)
28.7 (729)	28.7 (729)	28.7 (729)	28.7 (729)	28.7 (729)	28.7 (729)
(. =0)	(· ==/)	(· ==/	5 (. = 3)	(· ==/	>:: \: ==/
1.75 (44)	1.75 (44)	1.75 (44)	1.75 (44)	1.75 (44)	1.75 (44)
1.73 (44)	1.73 (44)	1.73 (44)	1.73 (44)	1.73 (44)	1.75 (44)
D. 101	D. 10	D 16:	D. 16:	D. 10	D 101
Drum and Shoe					
Automatic, Spring Applied					
Hydraulic Assist, Variable					
Lead-Acid	Lead-Acid	Lead-Acid	Lead-Acid	Lead-Acid	Lead-Acid
28.9 / 27.0	28.9 / 27.0	37.6	37.6	28.9 / 27.0	37.6
1590 (722)	1590 (722)	2175 (987)	2175 (987)	1590 (722)	2175 (987)
6.7 (170)	6.7 (170)	6.7 (170)	6.7 (170)	6.7 (170)	
					6.7 (170)
8.0 (203)	8.0 (203)	8.0 (203)	8.0 (203)	8.0 (203)	8.0 (203)
6.4(163)	6.4(163)	6.4(163)	6.4(163)	6.4(163)	6.4(163)
Transistor, infinite					
Solid State					
Contactor	Contactor	Contactor	Contactor	Contactor	Contactor
Transistor, infinite					
,	, ,		, , , ,	,	,
I	İ		1	İ	I

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. High speed lift is standard on NPR 22, 15D and NSR 25 with 18.5 in (470 mm) and 21.0 in (533 mm) battery compartments; lift speeds will reduce with 16.13 in (410 mm) compartment.



- 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, costeffective 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® 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 —
- UNRIVALED PARTS SUPPORT Our Aftermarket Distribution Center provides parts to over 250 North American CLARK dealers 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.

