

NR-EB/NDR-EB

REACH TRUCKS

 $3,000 \cdot 3,500 \cdot 4,000 \cdot 4,500$ lbs

Yale® NR/NDR-EB reach trucks combine the latest technology with improved performance to effectively meet the demands of high density warehousing.

Operator's compartment features a new movement forward in ergonomic design. The NR/NDR-EB offers two (2) operator compartments, the side-stance and the fore/ aft stance compartments. The fully padded operator's compartment provides back and hip support. The noticeable non-pedal large floor has room for movement and is equipped with an Operator Presence Switch.

The side stance operator compartment has a large backrest pad with integral lumbar and armrest support. The multifunction control handle assembly is adjustable 3 inches in and out, and 6 inches vertically with the standard adjustable backrest support. The control handle is ergonomically designed with an integral palm rest, thumb rest, and can be comfortably operated. The handle provides conveniently located controls for forward/reverse, lift/lower, proportional reach/retract, tilt, horn and optional sideshift.

The fore/aft stance compartment provides a support point for the operator when facing in either direction. The multifunction handle assembly is a single axis design and is mounted on the side pad assembly. The single axis design provides additional dynamic support point for operator when facing forward. The optional Aft Travel Control Handle with Laser Operator Detection provides speed & direction control when the operator is facing aft.

The performance parameters utilized by the Next Generation of reach trucks offers a high degree of customization for specific applications, optimizing unit and operator efficiency to match application requirements.

NEW Yale® iSi Technology™ offers simple on-board parameter adjustment, diagnostics and interface for operators, supervisors and service personnel.

CANbus Technology streamlines digital communications between truck systems through one main master controller. Dash display and traction controller are controlled via the CANbus network. The CANbus controller reduces wiring and electrical connections, resulting in improved reliability and improved visibility through the mast.

AC Motors include traction and main hydraulics. AC motor technology delivers high motor efficiency, braking torques, and powerful acceleration. A speed sensor built

into the motor provides feedback to the control system, allowing motor speed and direction to be continuously monitored. A thermal protection system controls the power delivered to the motor. In addition, increased motor maintenance interval is achieved through the brushless design of the auxiliary hydraulics and steer motors.

Drive unit uses a double gear reduction drive train ..with a sealed permanently lubricated steer bearing, greatly reducing the ingress of debris increasing bearing life. **NEW** sealed for life drive unit, requiring no oil changes and a service free input joint. **NEW** serviceable wheel seal.

Yale Hi-Vis™ mast is available in triplex configurations for various heights. The trunnion mounted mast design provides for good load distribution and allows for easy service. The hydraulic cylinder incorporates a chrome plated rod for corrosion resistance. The cylinders are easily serviced and provide integral cushioning for excellent mast channel staging. Velocity fuses are provided to control lowering in the event of hydraulic failure. A manual lowering valve is standard.

Brake is spring applied and electrically released. Mounted above the drive motor and controlled by the Vehicle System Manager (VSM), the assembly provides emergency stopping and parking brake for the truck.

Vehicle System Manager (VSM) is an electronic module that monitors all truck functions. The VSM is the CANbus network master node and includes the vehicle application software. Built with input/output capability, the system monitors inputs from the operator, vehicle performance and simultaneously adjusting the vehicle operation for the best performance.

Dash display features a graphic LCD Multifunction Smart Display with Back lighting, bar Graphic Battery Discharge Indicator and Lift Interrupt, Hour Meter; Truck, Traction and Hoist Pump, Performance Mode selection and Indication with lift interrupt, LED Status Indicators with symbols, Programmable Performance Modes, User passwords and Operator logs with history, Steer Wheel Angle Graphic Indication, Truck Inspection Check List, Truck Speed Indication in MPH or KPH.

Four operator selectable driver modes are

CAPACITY*									
NR		3500	4000	4500					
NDR	3000	3500*	1	_					

* 3500 lb @ 24" fork height. (Shuttle & transport application)

available; Modes 4, 3, 2, and 1. Mode 4 provides maximum acceleration and travel speeds. Mode 3 provides high travel speeds at reduced acceleration. Mode 2 reduces travel speeds and acceleration further. Mode 1 reduces travel speed by 40% and also limits acceleration. All 4 modes are completely programmable by supervisor or technician.

Console covers are thermally formed. The covers are easy to remove, providing access to main electrical components.

Reach mechanism includes strong rear frame weldment and inner arm weldment cross-members. The open carriage design and optimal hose routing provide good visibility. The proportional reach/retract cylinders are fully cushioned for smooth operation. Non-filled points have grease fittings for lubrication. Dual tilt cylinders are used to evenly distribute the load.

Hydraulic functions of the truck are managed by the VSM. The system employs an electro-hydraulic system which provides low noise, low heat and speed adjustment. Lift speed is adjusted by varying motor speed rather than opening a proportional

(continued on back)

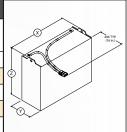


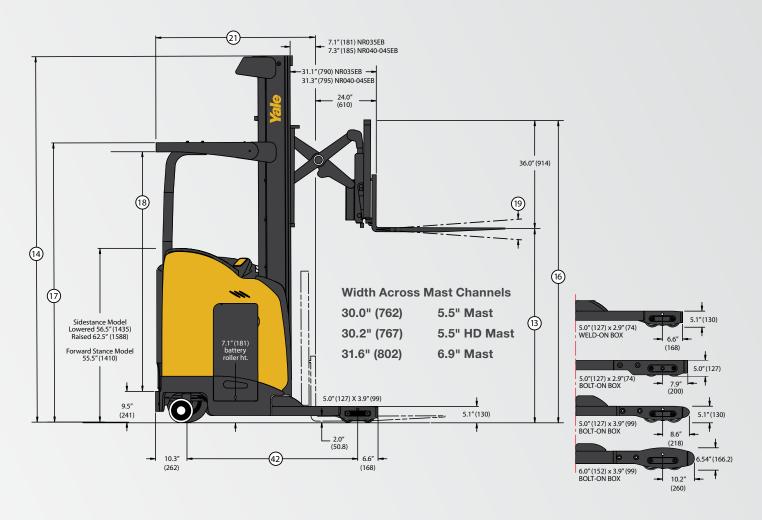
	NR035-040EB & NDR030EB - TRIPLEX HI-VIS™ MAST (5.5" STANDARD)														
Ove	erall					1	Height (tended)	Over	head			Head Le	ngth (Leng	th to Face o	of Forks)
Low	ered ight		Height Forks	Free	Lift	Highest Poi			ard t to Top		rator rance	14.5	" B.C.	16.5'	' B.C.
in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.	Single Reach	Double Reach	Single Reach	Double Reach
87	2210	191	4851	48	1219	230	5842	86.5	2197	75.3	1913	52.12	58.02	54.12	60.02
91	2311	203	5156	52	1321	242	6147	90.5	2299	79.3	2014	52.12	58.02	54.12	60.02
95	2413	212	5385	56	1422	251	6375	94.5	2400	83.3	2116	52.12	58.02	54.12	60.02
101	2565	227	5766	62	1575	266	6756	91	2311	79.8	2027	52.12	58.02	54.12	60.02
107	2718	242	6147	68	1727	281	7137	91	2311	79.8	2027	52.12	58.02	54.12	60.02
110	2794	251	6375	71	1803	290	7366	91	2311	79.8	2027	52.12	58.02	54.12	60.02
119	3023	272	6909	80	2032	311	7899	91	2311	79.8	2027	52.12	58.02	54.12	60.02

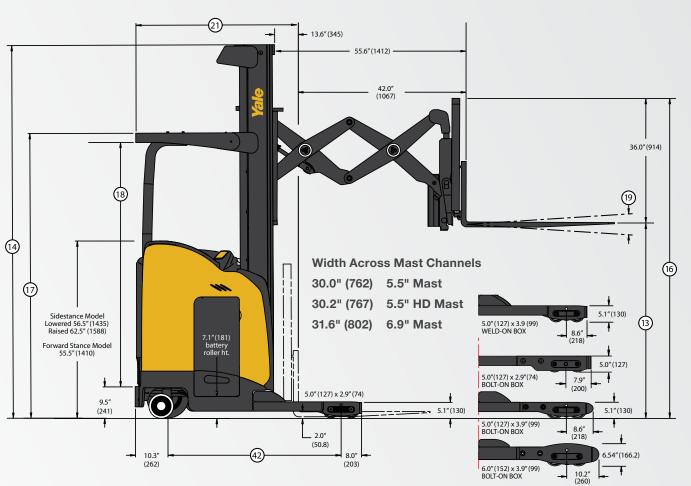
				NR	045EB	& NDF	R035EE	3 - T	RIPLE	(HI-VI	S™ MA	AST (5.	5" HEA	VY DU	TY)				
							Height						Н	ead Lenç	jth (Leng	th to Fac	e of Fork	s)	
Low	erall rered ight		leight Forks	Free	Lift	(Mast Ex Highes w/36" H	t Point		d Guard to Top		rator ance	14.5	' B.C.	16.5	" B.C.	18.5'	' B.C.	21.5'	" B.C.
in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.	Single Reach	Double Reach	Single Reach	Double Reach	Single Reach	Double Reach	Single Reach	Double Reach
95	2413	212	5385	56	1422	251	6375	94.5	2400	83.3	2116	55.47	61.38	57.47	63.38	59.47	65.38	62.47	68.38
101	2565	224	5690	62	1575	263	6680	91	2311	79.8	2027	55.47	61.38	57.47	63.38	59.47	65.38	62.47	68.38
107	2718	239	6071	68	1727	278	7061	91	2311	79.8	2027	55.47	61.38	57.47	63.38	59.47	65.38	62.47	68.38
110	2794	245	6223	71	1803	284	7214	91	2311	79.8	2027	55.47	61.38	57.47	63.38	59.47	65.38	62.47	68.38
119	3023	266	6756	80	2032	305	7747	91	2311	79.8	2027	55.47	61.38	57.47	63.38	59.47	65.38	62.47	68.38
125	3175	278	7061	86	2184	317	8052	91	2311	79.8	2027	55.47	61.38	57.47	63.38	59.47	65.38	62.47	68.38
131	3327	293	7442	92	2337	332	8433	91	2311	79.8	2027	55.47	61.38	57.47	63.38	59.47	65.38	62.47	68.38

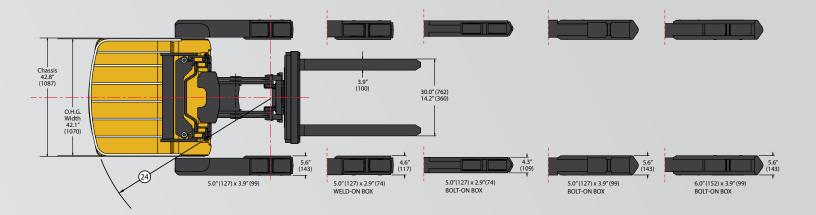
					NR045	EB & NI	DR035E	:B - T	RIPLEX	(HI-VIS	™ MAS	T (6.9")						
Ove	erall					Overall Height (Mast Extended)							Head Length (Length to Face of Forks)					
	ered		Height Forks	Free	e Lift	` Highes	st Point ligh LBR	Overhea Height	d Guard to Top		rator rance	16.5	" B.C.	18.5	" B.C.	21.5'	" B.C.	
in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.	Single Reach	Double Reach	Single Reach	Double Reach	Single Reach	Double Reach	
119	3023	272	6909	80	2032	311	7899	91	2311	79.8	2027	57.59	63.50	59.60	65.50	62.59	68.50	
125	3175	287	7290	86	2184	326	8280	91	2311	79.8	2027	57.59	63.50	59.60	65.50	62.59	68.50	
131	3327	302	7671	92	2337	341	8661	91	2311	79.8	2027	57.59	63.50	59.60	65.50	62.59	68.50	
138	3505	320	8128	99	2515	359	9119	91	2311	79.8	2027	57.59	63.50	59.60	65.50	62.59	68.50	
143	3632	332	8433	104	2642	371	9423	91	2311	79.8	2027	57.59	63.50	59.60	65.50	62.59	68.50	
146	3708	341	8661	107	2718	380	9652	91	2311	79.8	2027	57.59	63.50	59.60	65.50	62.59	68.50	
157	3988	368	9347	118	2997	407	10338	91	2311	79.8	2027	57.59	63.50	59.60	65.50	62.59	68.50	
170	4318	401	10185	131	3327	440	11176	91	2311	79.8	2027	57.59	63.50	59.60	65.50	62.59	68.50	
179	4547	422	10719	140	3556	461	11709	91	2311	79.8	2027	57.59	63.50	59.60	65.50	62.59	68.50	

	BATTERY SPECIFICATIONS											
Battery Compartment Battery Voltage	Dattami	Capa	acity	E	Battery Dimension	s	Min Batt	Max Batt				
	2 0 1100		"X" Max. "Y" Max. "Z"		"Z" Max.	Weight	Weight					
Size	Size		kw hr	in. (mm)	in. (mm)	in. (mm)	lb. (kg)	lb. (kg)				
14.5"	36	775	27.2	38.8 (985)	14.25 (362)	31.0 (788)	1600 (726)	2100 (953)				
16.5"	36	930	32.6	38.8 (985)	16.25 (413)	31.0 (788)	1850 (839)	2350 (1066)				
18.5"	36	1085	38.1	38.8 (985)	18.25 (464)	31.0 (788)	2200 (998)	2800 (1270)				
21.5"	36	1240	43.5	38.8 (985)	21.25 (540)	31.0 (788)	2500 (1134)	3100 (1406)				



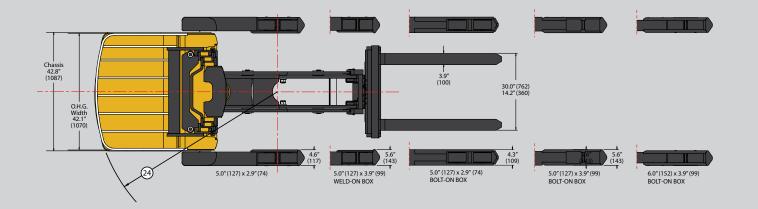






	Manufacturer	Manufacturer's Name		Ya	lo.	
	Model Designation	Manufacturer's Model Designation		NR03		
	Model Configuration	Wheel Base Designation ²		SW		
₽₹₽₽	Rated Capacity	Load Capacity	lbs.	3500 (
	Load Center	Distance	in.	24 (6		
	Power type	Electric, Diesel, LPG		Electric -		
	Operator type	Pedestrian, Stand, Seated Rider		Sta		
	Tire type	Load / Caster / Drive		Poly / Po		
0	Wheels (x = driven)	Load / Drive		4/2		
10	Truck Weight	without Battery (approximate)	lbs.	495		
5 10 11	-	1 ' ' '		Front	Rear	
≥ 11 12	Axle Loading - Front / Rear with Assembly Retracted	Static with Rated Load and Max. Wt. Battery	lbs.	6750	3800	
13		Standard Lift (Max Fork Height)	in. (mm)	0730	3000	
14		Standard Mast Lowered (OALH)	in. (mm)			
15		Freelift (Max Fork Height)	in. (mm)			
16	Mast Triplex Hi-Vis	Standard Mast Extended w/ LBR	in. (mm)	See Mas	st Table	
17		Top of OHG	in. (mm)			
18		Operator Clearance	in. (mm)			
10	Carriage	Tilt Angle (forward / back)	degrees	3° Fwd /	4° Back	
	Forks	Standard (length x width x thickness)	in.	1.60 x 3		
9 21	Headlength to Face of Forks ¹	All - Battery Compartments	in.	See Mas		
WENSI 22	Outrigger ID	1 Dattory comparationto	in.	34"- 49" (1"		
<u> </u>	ourigger is	14.5" Battery Compartment	in.	39.0 x 14		
I≥		16.5" Battery Compartment	in.	39.0 x 16		
<u> </u>	Battery Compartment Size - Length x Width x Height	18.5" Battery Compartment	in.	N/		
		21.5" Battery Compartment	in.	N/A		
		14.5" Battery Compartment	in.	65.74		
		16.5" Battery Compartment	in.	67.		
24	Turning Radius - Minimum Outside ¹	18.5" Battery Compartment	in.	N/		
		21.5" Battery Compartment	in.	N/		
25	Aisle Width - Zero Clearance - Right Angle Stack ¹		see chart	See "RAS		
20	Stability - Comply with ANSI			Ye	S	
27				Ye Standard	S Optional	
27 28	Travel Speed	Rearward (chassis first) - Empty / Rated Load	mph	Standard 7.4/6.5	Optional N/A	
27 28 29	Travel Speed	Rearward (chassis first) - Empty / Rated Load Forward (forks first) - Empty / Rated Load	mph mph	Standard 7.4/6.5 7.4/6.5	Optional N/A N/A	
27 28 29 30	Travel Speed			Standard 7.4/6.5 7.4/6.5 Standard	Optional N/A N/A Optional	
27 28 29 30	Travel Speed	Forward (forks first) - Empty / Rated Load Empty	mph ft/min	Standard 7.4/6.5 7.4/6.5 Standard 100	Optional N/A N/A Optional N/A	
27 28 29 30 31 32	Travel Speed	Forward (forks first) - Empty / Rated Load Empty 2000	mph ft/min ft/min	Standard 7.4/6.5 7.4/6.5 Standard 100 75	Optional N/A N/A Optional N/A N/A	
27 28 29 30 31 32 33	Travel Speed Lift Speeds - Standard / Optional	Forward (forks first) - Empty / Rated Load Empty 2000 3000	mph ft/min ft/min ft/min	Standard 7.4/6.5 7.4/6.5 Standard 100 75 69	Optional N/A N/A Optional N/A N/A N/A	
27 28 29 30 31 32 33 33	Travel Speed Lift Speeds - Standard / Optional	Forward (forks first) - Empty / Rated Load Empty 2000 3000 3500	ft/min ft/min ft/min ft/min ft/min	Standard 7.4/6.5 7.4/6.5 Standard 100 75 69 64	Optional N/A N/A Optional N/A N/A N/A N/A N/A	
PERFORMANCE 82 82 82 82 82 82 82 82 82 82 82 82 82	Travel Speed Lift Speeds - Standard / Optional	Forward (forks first) - Empty / Rated Load Empty 2000 3000 3500 4000	mph ft/min ft/min ft/min ft/min ft/min ft/min	Standard 7.4/6.5 7.4/6.5 Standard 100 75 69 64 N/A	Optional N/A N/A Optional N/A N/A N/A N/A N/A N/A N/A	
PERFORMANCE 82 82 82 82 82 82 82 82 82 82 82 82 82	Travel Speed Lift Speeds - Standard / Optional	Forward (forks first) - Empty / Rated Load Empty 2000 3000 3500 4000 4500	ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min	Standard 7.4/6.5 7.4/6.5 Standard 100 75 69 64 N/A N/A	Optional N/A N/A Optional N/A	
PERFORMANCE 82 82 82 82 82 82 82 82 82 82 82 82 82	Travel Speed Lift Speeds - Standard / Optional	Forward (forks first) - Empty / Rated Load Empty 2000 3000 3500 4000 4500 Empty	mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min	Standard 7.4/6.5 7.4/6.5 Standard 100 75 69 64 N/A N/A 95	Optional N/A N/A Optional N/A	
PERFORMANCE	Travel Speed Lift Speeds - Standard / Optional Lowering Speeds - Standard / Optional	Forward (forks first) - Empty / Rated Load Empty 2000 3000 3500 4000 4500 Empty Rated Load	ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min	Standard 7.4/6.5 7.4/6.5 Standard 100 75 69 64 N/A N/A 95	Optional N/A N/A Optional N/A	
PERFORMANCE 22 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Travel Speed Lift Speeds - Standard / Optional Lowering Speeds - Standard / Optional Size - front load wheels (tandem articulating)	Forward (forks first) - Empty / Rated Load Empty 2000 3000 3500 4000 4500 Empty	mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min	Standard 7.4/6.5 7.4/6.5 Standard 100 75 69 64 N/A N/A 95 95	Optional N/A N/A Optional N/A	
ES PERFORMANCE	Travel Speed Lift Speeds - Standard / Optional Lowering Speeds - Standard / Optional Size - front load wheels (tandem articulating)	Forward (forks first) - Empty / Rated Load Empty 2000 3000 3500 4000 4500 Empty Rated Load	mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min	Standard 7.4/6.5 7.4/6.5 Standard 100 75 69 64 N/A N/A 95 95 Drive	Optional N/A N/A Optional N/A	
ES PERFORMANCE	Travel Speed Lift Speeds - Standard / Optional Lowering Speeds - Standard / Optional Size - front load wheels (tandem articulating)	Forward (forks first) - Empty / Rated Load Empty 2000 3000 3500 4000 4500 Empty Rated Load Standard Standard	mph ft/min	Standard 7.4/6.5 7.4/6.5 Standard 100 75 69 64 N/A N/A 95 95 5 X Drive 12.0 x 5.5	Optional N/A N/A Optional N/A	
ES PERFORMANCE	Travel Speed Lift Speeds - Standard / Optional Lowering Speeds - Standard / Optional Size - front load wheels (tandem articulating)	Forward (forks first) - Empty / Rated Load Empty 2000 3000 3500 4000 4500 Empty Rated Load Standard Standard 14.5" Battery Compartment	mph ft/min	Standard 7.4/6.5 7.4/6.5 Standard 100 75 69 64 N/A N/A 95 95 5x Drive 12.0 x 5.5	Optional N/A N/A Optional N/A	
28 A TIRES PERFORMANCE 8.5 & TIRES 9.9 9.9 9.9 9.9 9.9 9.9 9.9 9.9 9.9 9.	Lift Speeds - Standard / Optional Lowering Speeds - Standard / Optional Size - front load wheels (tandem articulating) Size - drive tire / dual casters	Forward (forks first) - Empty / Rated Load Empty 2000 3000 3500 4000 4500 Empty Rated Load Standard Standard 14.5" Battery Compartment 16.5" Battery Compartment	mph ft/min	Standard 7.4/6.5 7.4/6.5 Standard 100 75 69 64 N/A N/A N/A 95 95 Drive 12.0 x 5.5 57.	Optional N/A N/A Optional N/A	
28 A TIRES PERFORMANCE 8.5 & TIRES 9.9 9.9 9.9 9.9 9.9 9.9 9.9 9.9 9.9 9.	Travel Speed Lift Speeds - Standard / Optional Lowering Speeds - Standard / Optional Size - front load wheels (tandem articulating)	Forward (forks first) - Empty / Rated Load Empty 2000 3000 3500 4000 4500 Empty Rated Load Standard Standard 14.5" Battery Compartment 16.5" Battery Compartment 18.5" Battery Compartment	mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min in. in.	Standard 7.4/6.5 7.4/6.5 Standard 100 75 69 64 N/A N/A N/A 95 95 5 x Drive 12.0 x 5.5 57.	Optional N/A N/A Optional N/A	
28 A TIRES PERFORMANCE 8.5 & TIRES 9.9 9.9 9.9 9.9 9.9 9.9 9.9 9.9 9.9 9.	Lift Speeds - Standard / Optional Lowering Speeds - Standard / Optional Size - front load wheels (tandem articulating) Size - drive tire / dual casters Wheel Base	Forward (forks first) - Empty / Rated Load Empty 2000 3000 3500 4000 4500 Empty Rated Load Standard Standard Standard 14.5" Battery Compartment 16.5" Battery Compartment 18.5" Battery Compartment 21.5" Battery Compartment	mph ft/min	Standard 7.4/6.5 7.4/6.5 Standard 100 75 69 64 N/A N/A 95 95 5 x Drive 12.0 x 5.5 57. N/	Optional	
WHEELS & TIRES PERFORMANCE 1	Lift Speeds - Standard / Optional Lowering Speeds - Standard / Optional Size - front load wheels (tandem articulating) Size - drive tire / dual casters Wheel Base	Forward (forks first) - Empty / Rated Load Empty 2000 3000 3500 4000 4500 Empty Rated Load Standard Standard Standard 14.5" Battery Compartment 16.5" Battery Compartment 18.5" Battery Compartment 18.5" Battery Compartment 21.5" Battery Compartment	mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min in. in.	Standard 7.4/6.5 7.4/6.5 Standard 100 75 69 64 N/A N/A 95 95 5x Drive 12.0 x 5.5 57. N/ N/ Fo	Optional	
WHEELS & TIRES PERFORMANCE 4 1 <td>Lift Speeds - Standard / Optional Lowering Speeds - Standard / Optional Size - front load wheels (tandem articulating) Size - drive tire / dual casters Wheel Base Brakes, service / parking</td> <td>Forward (forks first) - Empty / Rated Load Empty 2000 3000 3500 4000 4500 Empty Rated Load Standard Standard Standard 14.5" Battery Compartment 16.5" Battery Compartment 18.5" Battery Compartment 21.5" Battery Compartment</td> <td>mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min in. in.</td> <td>Standard 7.4/6.5 7.4/6.5 Standard 100 75 69 64 N/A N/A 95 95 5x Drive 12.0 x 5.5 57. N/ N/ For</td> <td>Optional N/A N/A Optional N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A</td>	Lift Speeds - Standard / Optional Lowering Speeds - Standard / Optional Size - front load wheels (tandem articulating) Size - drive tire / dual casters Wheel Base Brakes, service / parking	Forward (forks first) - Empty / Rated Load Empty 2000 3000 3500 4000 4500 Empty Rated Load Standard Standard Standard 14.5" Battery Compartment 16.5" Battery Compartment 18.5" Battery Compartment 21.5" Battery Compartment	mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min in. in.	Standard 7.4/6.5 7.4/6.5 Standard 100 75 69 64 N/A N/A 95 95 5x Drive 12.0 x 5.5 57. N/ N/ For	Optional N/A N/A Optional N/A	
MHEELS & TIRES PERFORMANGE 32, 83, 93, 94, 11, 12, 13, 13, 13, 13, 14, 14, 14, 14, 14, 14, 14, 14, 14, 14	Lift Speeds - Standard / Optional Lowering Speeds - Standard / Optional Size - front load wheels (tandem articulating) Size - drive tire / dual casters Wheel Base Brakes, service / parking Battery, type	Forward (forks first) - Empty / Rated Load Empty 2000 3000 3500 4000 4500 Empty Rated Load Standard Standard Standard 14.5" Battery Compartment 16.5" Battery Compartment 18.5" Battery Compartment 18.5" Battery Compartment 18.5" Battery Compartment Method of Control Method of Operation	mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min in. in. in.	Standard 7.4/6.5 7.4/6.5 Standard 100 75 69 64 N/A N/A N/A 95 95 5x Drive 12.0 x 5.5 57. N/ Spring Apply / E Lead	Optional N/A N/A Optional N/A	
ON WHEELS & TIRES PERFORMANCE	Lift Speeds - Standard / Optional Lowering Speeds - Standard / Optional Size - front load wheels (tandem articulating) Size - drive tire / dual casters Wheel Base Brakes, service / parking Battery, type	Forward (forks first) - Empty / Rated Load Empty 2000 3000 3500 4000 4500 Empty Rated Load Standard Standard Standard 14.5" Battery Compartment 16.5" Battery Compartment 18.5" Battery Compartment 21.5" Battery Compartment Method of Control Method of Operation Traction motor rating (60 minute rating)	mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min in. in. in. in.	Standard 7.4/6.5 7.4/6.5 Standard 100 75 69 64 N/A N/A N/A 95 95 5x Drive 12.0 x 5.5 57. N/ Foo Spring Apply / E Lead 7.5 (Optional N/A N/A Optional N/A	
ON WHEELS & TIRES PERFORMANCE	Lift Speeds - Standard / Optional Lowering Speeds - Standard / Optional Size - front load wheels (tandem articulating) Size - drive tire / dual casters Wheel Base Brakes, service / parking Battery, type	Forward (forks first) - Empty / Rated Load Empty 2000 3000 3500 4000 4500 Empty Rated Load Standard Standard 14.5" Battery Compartment 16.5" Battery Compartment 18.5" Battery Compartment 21.5" Battery Compartment Method of Control Method of Operation Traction motor rating (60 minute rating) Hoist motor rating (5 minute rating)	mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min in. in. in.	Standard 7.4/6.5 7.4/6.5 Standard 100 75 69 64 N/A N/A N/A 95 95 5x Drive 12.0 x 5.5 57. N/ Spring Apply / E Lead 7.5 (14.8 (Optional	
ECTRIC WHEELS & TIRES PERFORMANCE	Lift Speeds - Standard / Optional Lowering Speeds - Standard / Optional Size - front load wheels (tandem articulating) Size - drive tire / dual casters Wheel Base Brakes, service / parking Battery, type Electric Motors	Forward (forks first) - Empty / Rated Load Empty 2000 3000 3500 4000 4500 Empty Rated Load Standard Standard 14.5" Battery Compartment 16.5" Battery Compartment 18.5" Battery Compartment 21.5" Battery Compartment Traction motor rating (60 minute rating) Hoist motor rating (6 minute rating) Traction motor control method	mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min in. in. in. in.	Standard 7.4/6.5 7.4/6.5 Standard 100 75 69 64 N/A N/A N/A 95 95 5x Drive 12.0 x 5.5 57. N/ Spring Apply / E Lead 7.5 (14.8 (Trans	Optional N/A N/A Optional N/A	
ON WHEELS & TIRES PERFORMANCE	Lift Speeds - Standard / Optional Lowering Speeds - Standard / Optional Size - front load wheels (tandem articulating) Size - drive tire / dual casters Wheel Base Brakes, service / parking Battery, type Electric Motors	Forward (forks first) - Empty / Rated Load Empty 2000 3000 3500 4000 4500 Empty Rated Load Standard Standard 14.5" Battery Compartment 16.5" Battery Compartment 18.5" Battery Compartment 21.5" Battery Compartment Method of Control Method of Operation Traction motor rating (60 minute rating) Hoist motor rating (5 minute rating)	mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min in. in. in. in.	Standard 7.4/6.5 7.4/6.5 Standard 100 75 69 64 N/A N/A N/A 95 95 5x Drive 12.0 x 5.5 57. N/ Spring Apply / E Lead 7.5 (14.8 (Optional N/A N/A Optional N/A	

¹ Single Reach - add 1" for Sideshift, Double Reach is standard with Sideshift
² Short or Long Wheelbase is determined by Mast Height
³ Travel Speed will be reduced to 6.8 / 5.8 (Empty / Rated Load) with MFHs above 341" in the Rearward and Forward direction.



Ve	la .	Va	la.	T V	ala.	Yale			
Yai NR04		Ya NDR0			ale 45EB	NDR0		2	
SW		LWB	SWB		WB	LWB	SWB		
4000 (3000			(2041)	3500		3 GENERAL 5 6 7	
24 (6		24 ((610)	24 (5 m	
Electric -		Electric -			- 36 volt	Electric -		6 2	
Sta		Sta			and	Sta		<u>7</u> ₽	
Poly / Po		Poly / Po			oly / Vulk	Poly / Po		8	
4/2		4/2			2 (1x)	4/2		9	
500		5250	N/A		100	5650	N/A	10	
Front	Rear	Front	Rear	Front	Rear	Front	Rear	111 3	
7400	3700	6300	4050	8400	3800	6700	4250	12	
See Mas	See Mast Table		See Mast Table		See Mast Table		st Table	13 14 15 16 17 18 19 20	
3° Fwd /	4° Back	3° Fwd / 4° Back		3° Fwd	/ 4° Back	3° Fwd /	4° Back	19	
1.80 x 3	3.9 x 42	1.60 x 3.9 x 42			3.9 x 42	1.60 x 3		20 21 22 22 23	
See Mas		See Ma			ıst Table	See Ma		21 <u>π</u>	
34"- 49" (1"		34"- 49" (1"			' increments)	34"- 49" (1"		22 K	
39.0 x 14		39.0 x 14			/A	N/		T 👸	
39.0 x 16		39.0 x 16			6.5 x 31.5	39.0 x 16		23 $\frac{Z}{\omega}$	
N/		N/			8.5 x 31.5	39.0 x 18			
N/		N/A		39.0 x 21.5 x 31.5		39.0 x 21.5 x 31.5			
65.		70.74	65.74	N/A		N/A			
67.		72.74	67.74	67.90		72.90	67.90	24	
N/		N/		69.90 72.90		74.90	69.90		
N/		N/				77.90 72.9			
See "RAS		See "RA		See "RAS" Table		See "RAS" Table		25	
Ye		Ye			es	Yes		26	
Standard	Optional	Standard	Optional	Standard	Optional	Standard	Optional	27 28	
7.4/6.5	N/A	7.4/6.8	N/A	7.4/6.5 ³	8.0/6.5 ³	7.4/6.8 ³	8.0/6.8 ³	28	
7.4/6.0 Standard	N/A Optional	7.4/6.8 Standard	N/A Optional	7.4/5.8 ³ Standard	8.0/5.8 ³ Optional	7.4/6.5 ³ Standard	8.0/6.5 ³ Optional	29 30 31 32 33 34 35	
100	114	100	114	114	130	114	130	31 8	
75	86	71	82	86	98	82	93	31 O	
69	78	65	73	78	90	73	85	33	
64	72	N/A	N/A	72	84	70	79	34 P	
60	68	N/A	N/A	68	78	N/A	N/A	35 유	
N/A	N/A	N/A	N/A	65	74	N/A	N/A	36	
95	N/A	95	N/A	105	105	105	105	37	
95	N/A	95	N/A	105	105	105	105	37 38	
5 x :		5 x			3.9	5 x		39	
Drive	Caster	Drive	Caster	Drive	Caster	Drive	Caster	39 40 41 EELS	
12.0 x 5.5	7.9 x 2.2	12.0 x 5.5	7.9 x 2.2	13.5 x 5.5	7.9 x 2.2	13.5 x 5.5	7.9 x 2.2	41 m	
55.		60.35	N/A		/A	N/			
57.		62.36	N/A	57	.36	62.36	57.36	42 8	
N/		N/			.37	64.37	59.37		
N/	'A	N/			.36	67.36	62.36		
Fo		Fo			oot	F ₀		43 ES	
Spring Apply / E		Spring Apply / E			Electric Release	Spring Apply / E		44	
Lead		Lead			Acid	Lead		45	
7.5 (7.5 (7.5 (5.6)	8.7 (6.5)	7.5 (5.6)	8.7 (6.5)	45 46 47 48 49	
14.8 (11.0)	18.0 (13.4)	14.8 (11.0)	18.0 (13.4)	18.0 (13.4)	20.7 (15.4)	18.0 (13.4)	20.7 (15.4)	47 C	
Trans		Trans			sistor	Transistor		46 ELECTRIC 48 49 CC	
Trans		Trans			sistor	Transistor		<u>49</u> $\stackrel{\sim}{\Omega}$	
Infinitely	variable	Infinitely	variable	Infinitely	<u>/</u> Variable	Infinitely	50		

valve. Lowering function is provided via regenerative lowering. Efficient design and the use of O-ring face seals have allowed significant reduction of hydraulic fittings reducing potential leak points. The hydraulic fluid reservoir is baffled to prevent foaming and is located away from the operator for heat reduction. A strainer and 10 micron spin-on filter are standard.

Frame features a fixed drive unit mounting with spring loaded caster assembly to compensate for uneven floors. It also incorporates thick plates, strong rear frame, and mast connections for enhanced durability. The frame is available in various battery compartment sizes based on truck capacity. The frame is available in 14.5 inches and 16.5 inches for the 3500 lb. and 4000 lb. trucks. The 16.5, 18.5 and 21.5 inch battery compartments are available for the 4500 lb. models.

All wiring is numbered for easy trouble-shooting and meets the UL 583 requirements. Sealed electrical connectors are used throughout the truck. Electrical connections are provided for convenient field installation of electric options.

Additional features include a bolt-on 36 inch (910 mm) high load backrest extension and 42 inch (1067 mm) long hook type forks as standard. All non-sealed friction points are equipped with grease fittings. The truck is painted gold, parchment, and black.

Options

- · Auto Fork Leveling
- · Fork Height Display
- · Fork Camera
- Shelf Height Selector
- Audible Alarm
 - Reverse Operated
 - Forward and Reverse Operation
 - Forward/Reverse and Lift/Lower Operation
- Visible Alarm
 - Amber Strobe (Continuous operation with Key-on)
 - Amber Strobe (FWD and REV Operation)
- Lights
 - Operator Desktop LED Light (OHG Mounted)
 - Dual Headlight 12 Volt (OHG Mounted)
 - Rear Worklight 12 Volt (OHG Mounted)
- Operator Compartment Rear Door¹
- · Various Fork Lengths
- Various I.D. Outriggers
- Operator Overhead Fan
- Cooler/Freezer and SUBZERO Packages
- Sideshifter (STD on Double Reach)
- Various Load Wheels/Drive Tires
- Steer Caster Electrically Steered
- Side Stance Adjustable Steering wheel position
- Fore/Aft/Stance w/Adjustable steering wheel position, with or without Aft travel control handle
- · Load weight display



YALE MATERIALS HANDLING CORPORATION

P.O. Box 7367, Greenville, NC 27835-7367 www.yale.com

Yale is a Registered Trademark and is a Registered Copyright.

©Yale Materials Handling Corporation 2015. All Rights Reserved.

Manufactured in our own ISO 9001 and 14001 Registered Facilities

Right angle aisle stacking ("RAS" table)

Note: These are "Zero Clearance" aisles and require an additional 6" to 12" to be added to provide for easier maneuvering.

NR035/40EB								
Truck with 14.5" Battery Compartment and 42" ID								
Triplex - 4" Between Loads								
	Pallet Width (inches)							
		36	40	44	48			
Pallet Length	36	85	85	85	85			
(inches)	40	87	87	86	86			
	44	92	91	91	90			
	48	96	96	95	95			

Add 2" for 16.5" Battery Compartment Add 1" for Sideshift

NDR030EB									
Truck with 14.5" Battery Compartment and 42" ID									
Triplex - 4" Between Loads									
	Pallet Width (inches)								
		36	40	44	48				
Pallet Lenath	36	90	90	90	90				
Length (inches)	40	91	91	91	91				
	44	95	94	94	93				
	48	99	99	98	98				

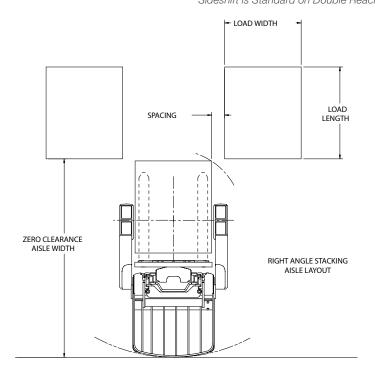
Add 2" for 16.5" Battery Compartment Sideshift is Standard on Double Reach

NR045EB								
Truck with 16.5" Battery Compartment and 42" ID								
Triplex - 4" Between Loads								
	Pallet Width (inches)							
		36	40	44	48			
Pallet Length	36	88	88	87	87			
Length (inches)	40	93	92	92	91			
	44	97	97	96	96			
	48	102	101	101	100			

Add 2" for 18.5" Battery Compartment Add 5" for 21.5" Battery Compartment Add 1" for Sideshift

	NE	DR03	5EB						
Truck with 16.5" Battery Compartment and 42" ID									
Triplex - 4" Between Loads									
	Pallet Width (inches)								
		36	40	44	48				
Pallet Length	36	92	91	91	91				
Length (inches)	40	96	96	95	94				
	44	101	100	100	99				
	48	105	105	104	104				

Add 2" for 18.5" Battery Compartment Add 5" for 21.5" Battery Compartment Sideshift is Standard on Double Reach



¹ Doors are intended to protect the operator from objects that may enter the operator's compartment, but they may also slow the operator's egress in emergency situations. A review of the forklift's intended environment should be conducted before selecting a door as optional equipment.

Truck performance may be affected by the condition of the vehicle, how it is equipped and the application. Consult your Yale® Industrial Truck Dealer if any of the information shown is critical to your application. Specifications are subject to change without notice.

This truck meets all applicable mandatory requirements of ANSI B56.1 Safety Standard for Powered Industrial Trucks at the time of manufacture. Classified by Underwriters' Laboratories, Inc., as to fire and electric shock hazard only for Type E industrial trucks.