

STAND-UP RIDER

TOYOTA
INDUSTRIAL EQUIPMENT
REACH NEW HEIGHTS

3000 - 4000 LBS.

SPECIFICATIONS



8BNCU15-20

CLASS

1

ELECTRIC MOTOR RIDERS

ToyotaForklift.com

STAND-UP RIDER

CAPACITY
3000 - 4000 LBS.

MAXIMUM FORK HEIGHT
277 IN.

LOAD CENTER
24 IN.

INDUSTRIES



Beverage



Cold Storage



Factory



Food Processing



Food Storage



General
Manufacturing



General
Warehousing



Retail

STANDARD FEATURES

PERFORMANCE

- 36-Volt electrical system
- AC induction drive motor
- AC transistor control system with MOSFET
- AC induction lift motor
- Independent lift, steer & auxiliary motors
- Dual rubber steer tires (8BNCU15 only)
- Dual polyurethane steer tires (8BNCU18-20 only)
- Low durometer smooth rubber drive tires
- Programmable performance parameters
- Multifunction digital display
- Power hookup for onboard terminal (10 amp)
- UL-approved model type "E"
- Mast tilt (3° forward/5° backward)

OPERABILITY

- Multifunction control handle (single-axis, simultaneous function)
- Hydrostatic power steering
- Auto-off system
- Cornering speed control
- Ventilated tractor compartment
- Auto position hold (drive motor/brake hold)
- Anti-stall protection
- Two-post overhead guard
- High-visibility mast & overhead guard
- Dual electric disc brakes (self-adjusting)
- Regenerative braking
- Proportional plugging
- 48" load backrest extension
- Hydraulic mast cushioning

ERGONOMICS

- Shock-dampened, isolated operator compartment floor
- Spacious operator compartment
- Flexible side stance operator compartment
- 7/8"-thick bubble-cushioned floor mat
- Ergonomically sloped floorboard
- Cushioned padded backrest & armrest
- Low-effort brake pedal
- Low step height
- Integrated clipboard, amenity tray & cup holder

SERVICEABILITY

- One-piece top cover
- Self-diagnostics (with instructional messages)
- Built-in analyzer
- Fault code memory
- Programmable maintenance indicator
- Battery compartment rollers (corrosion resistant)
- Battery retaining gates
- Vertically mounted motors
- Anti-static ground strap
- Reverse polarity protection
- Flashware enabled software
- SB 350 battery connector (gray)
- No directional contactors
- Multifunction hour meter
- Battery discharge indicator (with lift interrupt)
- Maintenance indicator
- Temperature indicator

OPTIONAL EQUIPMENT

LOAD HANDLING

- Full free-lift 2-stage mast (FV)
- Full free-lift 3-stage mast (FSV)
- Full free-lift 4-stage mast (QFV)
- Integral sideshift (Lift-Tek)^{2, 15}
- Mast tilt centering (two-way)¹⁵
- Hydraulic quick disconnects (single¹⁵ & dual¹⁵)

LOAD HANDLING (HOSE & VALVE ASSEMBLY) WITH SIDESHIFT

- Integral sideshift (Lift-Tek) with one auxiliary function (internal reeving)^{2,15}

WITHOUT SIDESHIFT

- One auxiliary function (fixed carriage only) (internal reeving)¹⁵
- Two auxiliary functions (fixed carriage only) (internal reeving)¹⁵

LIGHTS & INDICATORS

- Travel alarm (back up only or forward only)
- Travel alarm (forward & back up)
- Fire extinguisher 2.5 lb. dry chemical
- Warning strobe light, top or bottom mounted (amber or red)
- LED work lights (mast mounted)
- LED rear work light
- LED operator compartment light
- Operator compartment fan
- 12-Volt power supply (9 amp)
- Multi-position pillar-mounted clipboard
- Electronic key (operator pin code entry)
- Capacity plate for field-installed attachments¹

BODY

- Load backrest, optional height (30," 36," 42")
- Load backrest, optional height (54," 60" requires downrating)³
- Factory pre-programmed maximum travel speed (5 mph)
- Travel speed reduction above free-lift⁴
- Digital load weight display⁴
- Lift limit switch with bypass⁵⁻⁶
- Keyless on/off switch (in lieu of key switch)
- OHG: intermediate height 83"
- OHG: intermediate height 84" – 93"
- Mast tilt (5° forward/3° backward)⁷
- Bottler's mast tilt (10° forward/3° backward)^{6, 7, 15}
- Extended operator compartment backrest
- Compartment sensor system (CSS)
- Hinged rear operator guard (full length)¹⁵
- Battery side gate interlock switches (travel cut-out)
- Battery compartment spacer – 16.5" wide (non-weighted) (8BNCU15-18 only)^{3, 8-9}
- Battery compartment spacer – 16.5" wide (weighted: 340 lbs.) (8BNCU15-18 only)⁹⁻¹⁰
- Battery compartment spacer – 13.75" wide (non-weighted) (8BNCU15-18 only)^{3, 8-9, 15}
- Battery compartment spacer – 13.75" wide (weighted: 700 lbs.) (8BNCU15-18 only)⁹⁻¹⁰
- Dual battery connector configuration for fast charge system (without cabling & connectors)¹¹
- Battery connector (red, blue or yellow)

FORK STANDARD TAPERED

- Fork lengths (4" wide x 1.5" thickness) – 30," 36," 42," 48," 54," 60"
- Forks – delete from truck

FULLY TAPERED & POLISHED

- Fork lengths (4" wide x 1.5" thickness) – 30," 36," 42," 48," 54," 60"

WHEELS & TIRES

- Polyurethane drive (black), 83 durometer (16.25" x 11.25" x 6")
- Polyurethane drive (black), 83 durometer (16.25" x 11.25" x 7")
- Non-marking rubber drive (white), 65 durometer (16.25" x 11.25" x 6")
- Non-marking rubber drive (white), 65 durometer (16.25" x 11.25" x 7")
- Traction rubber drive (black), 64 durometer (16.25" x 11.25" x 6")
- Traction rubber drive (black), 64 durometer (16.25" x 11.25" x 7")
- Razor siped polyurethane drive (red), 83 durometer (16.25" x 11.25" x 6")
- Razor siped polyurethane drive (red), 83 durometer (16.25" x 11.25" x 7")
- Dual rubber steer (black), 72 durometer
- Dual polyurethane steer (tan), 95 durometer
- Dual polyurethane steer (red), 85 durometer

SPECIAL MODEL

- Cold storage conditioning^{12-13, 15}
- UL-approved model type "EE"^{14, 15}
- Reverse steering

¹ Must provide complete make & model number of attachment via the TSDR process.

² When ordered with an FV mast, a hang-on sideshifter will be supplied instead of an integral sideshifter.

³ Will affect rated capacity.

⁴ Only available with FSV & QFV mast.

⁵ Reference "Lift Limit with Bypass" chart on page I-E-9 of the FL Manual for lift limit ranges.

⁶ Only available with FSV mast.

⁷ Requires 18.5" battery compartment on 8BNCU15-18. Requires 21.25" battery compartment on 8BNCU20.

⁸ Only available with FV & FSV mast.

⁹ Requires 18.5" battery compartment.

¹⁰ Combined weight of the battery & spacer must meet the minimum battery weight requirements in order to maintain the published rated capacities.

¹¹ Not available with 16.5" battery compartment.

¹² Includes heater & cone-shaped 4-way auxiliary button.

¹³ This option code voids the standard UL rating.

¹⁴ "EE" option includes battery side covers & negates the requirement for an "EE"-rated battery.

¹⁵ Refer to FL Manual for option conflicts.

TRUCK SPECIFICATIONS

				MODEL NUMBERS			
GENERAL DATA				8BNCU15		8BNCU18	
Load Capacity		lb (kg)		3000 (1360)		3500 (1580)	
Battery Compartment Size		in		16.5	18.5	16.5	18.5
Power Type		in		Battery		Battery	
Operator Position				Stand-Up Rider		Stand-Up Rider	
Tire Type		Front / Rear		Solid Rubber / Solid Rubber		Solid Rubber / Polyurethane	
Wheels (x = driven)		Front / Rear		2x / 2 (dual steer)		2x / 2 (dual steer)	
EXTERIOR DIMENSIONS				8BNCU15		8BNCU18	
				16.5"	18.5"	16.5"	18.5"
A	Maximum Fork Height (top of forks)	in (mm)		188 (4775)		188 (4775)	
B	Free-Lift (top of forks)	in (mm)		35 (889)		35 (889)	
C	Fork Size (T x W x L)	in (mm)		42 x 1.5 x 4 (1065 x 38 x 100)		42 x 1.5 x 4 (1065 x 38 x 100)	
D	Tilt Range (forward / backward)	deg		3 / 5		3 / 5	
E	Length to Fork Face ³	in (mm)		68.5 (1741)	70.5 (1791)	68.5 (1741)	70.5 (1791)
F	Mast Lowered Height	in (mm)		83 (2108)		83 (2108)	
G	Mast Extended Height (top of load backrest)	in (mm)		236 (5994)		236 (5994)	
H	Overhead Guard Height ⁴	in (mm)		88 (2235)		88 (2235)	
I	Turning Radius (inside / outside)	in (mm)		56.1 (1425)	58.1 (1476)	56.1 (1425)	58.1 (1476)
J	Load Distance ^{1,3}	in (mm)		12.7 (323)		12.7 (323)	
K	Basic Right-Angle Stacking Aisle Width ^{2,3}	in (mm)		68.8 (1748)	70.8 (1798)	68.8 (1748)	70.8 (1798)
PERFORMANCE DATA				8BNCU15		8BNCU18	
Speeds	Maximum Travel (fwd. / rev.)	Full Load	mph (km/h)	7.5 (12.1)		7.5 (12.1)	
		No Load	mph (km/h)	7.5 (12.1)		7.5 (12.1)	
	Lifting	Full Load	fpm (mm/sec)	70 (356)		65 (330)	
		No Load	fpm (mm/sec)	110 (559)		110 (559)	
	Lowering	Full Load	fpm (mm/sec)	100 (508)		100 (508)	
		No Load	fpm (mm/sec)	85 (432)		85 (432)	
Gradeability		Full Load	%	15		15	
TRUCK WEIGHTS				8BNCU15		8BNCU18	
				16.5"	18.5"	16.5"	18.5"
Total Weight (without battery)		lb (kg)		6625 (3005)	6865 (3114)	6625 (3005)	6865 (3114)
TIRES				8BNCU15		8BNCU18	
				16.5"	18.5"	16.5"	18.5"
Tires	Number (front / rear)			2 / 2 (dual steer)		2 / 2 (dual steer)	
	Size (OD x W x ID)	Front (drive)	in (mm)	16.25 x 6 x 11.25 (413 x 152 x 286)		16.25 x 6 x 11.25 (413 x 152 x 286)	
		Rear (steer)	in (mm)	10 x 5 x 6.5 (254 x 127 x 165) (dual)		10 x 5 x 6.5 (254 x 127 x 165) (dual)	
Wheelbase		in (mm)		48.4 (1230)	50.4 (1280)	48.4 (1230)	50.4 (1280)
Underclearance		in (mm)		4 (102)		4 (102)	
Brake Pedal				Plugging / Electric Disc Brake		Plugging / Electric Disc Brake	
POWER SYSTEM				8BNCU15		8BNCU18	
				16.5"	18.5"	16.5"	18.5"
Battery (max. size)	Compartment Size (L x W x H)		in (mm)	38.5 x 16.5 x 32.3 (978 x 419 x 820)	38.5 x 18.5 x 32.3 (978 x 470 x 820)	38.5 x 16.5 x 32.3 (978 x 419 x 820)	38.5 x 18.5 x 32.3 (978 x 470 x 820)
	Voltage / Capacity (6-hour rating)		V / Ah	36 / 930	36 / 1085	36 / 930	36 / 1085
	Battery Size (L x W x H)		in (mm)	38.5 x 16.25 x 32.3 (978 x 413 x 820)	38.5 x 18.25 x 32.3 (978 x 464 x 820)	38.5 x 16.25 x 32.3 (978 x 413 x 820)	38.5 x 18.25 x 32.3 (978 x 464 x 820)
	Weight (minimum)		lb (kg)	1980 (898)	2300 (1043)	1980 (898)	2300 (1043)
Motors	Drive	6.70" dia.	4 Pole Induction AC 3-Phase		4 Pole Induction AC 3-Phase		
		hp (kW)	7.0 (5.2)		7.0 (5.2)		
	Load Handling (hydraulic)	6.63" dia.	4 Pole Induction AC 3-Phase		4 Pole Induction AC 3-Phase		
		hp (kW)	14.1 (10.5)		14.1 (10.5)		
Hydrostatic Power Steering		5.63" dia.	Permanent Magnet DC		Permanent Magnet DC		
Control Type	Drive		Transistor – MOSFET		Transistor – MOSFET		
	Load Handling		Transistor – MOSFET		Transistor – MOSFET		
	Power Steering		Contactor		Contactor		
Operating Pressure (for attachments)		psi (kg/cm2)		2200		2200	
Auxiliary Flow Rate (4th function)		gpm		3 – 10		3 – 10	

1 At centerline of front axle to front face of forks.
2 Add load length & clearance.
3 If truck is equipped with an integral shifter, add (+0.9" if equipped with FSV) (+1.4" if equipped with QFV).
4 Overhead guard height tolerance is 0.5."

GENERAL DATA				8BNCU20			
Load Capacity			lb (kg)	4000 (1810)			
Battery Compartment Size			in	18.5		21.25	
Power Type			in	Battery			
Operator Position			Stand-Up Rider				
Tire Type		Front / Rear		Solid Rubber / Polyurethane			
Wheels (x = driven)		Front / Rear		2x / 2 (dual steer)			
EXTERIOR DIMENSIONS				8BNCU20			
				18.5"		21.25"	
A	Maximum Fork Height (top of forks)		in (mm)	188 (4775)			
B	Free-Lift (top of forks)		in (mm)	35 (889)			
C	Fork Size (T x W x L)		in (mm)	42 x 1.5 x 4 (1065 x 38 x 100)			
D	Tilt Range (forward / backward)		deg	3 / 5			
E	Length to Fork Face ³		in (mm)	70.5 (1791)		73.3 (1861)	
F	Mast Lowered Height		in (mm)	83 (2108)			
G	Mast Extended Height (top of load backrest)		in (mm)	236 (5994)			
H	Overhead Guard Height ⁴		in (mm)	88 (2235)			
I	Turning Radius (inside / outside)		in (mm)	58.1 (1476)		60.8 (1544)	
J	Load Distance ^{1,3}		in (mm)	12.7 (323)			
K	Basic Right-Angle Stacking Aisle Width ^{2,3}		in (mm)	70.8 (1798)		73.5 (1867)	
PERFORMANCE DATA				8BNCU20			
Speeds	Maximum Travel (fwd. / rev.)	Full Load	mph (km/h)	7.5 (12.1)			
		No Load	mph (km/h)	7.5 (12.1)			
	Lifting	Full Load	fpm (mm/sec)	60 (305)			
		No Load	fpm (mm/sec)	110 (559)			
	Lowering	Full Load	fpm (mm/sec)	100 (508)			
		No Load	fpm (mm/sec)	85 (432)			
Gradeability	Full Load		%	15			
TRUCK WEIGHTS				8BNCU20			
Total Weight (without battery)			lb (kg)	6865 (3114)		6965 (3159)	
TIRES				8BNCU20			
				18.5"		21.25"	
Tires	Number (front / rear)			2 / 2 (dual steer)			
	Size (OD x W x ID)	Front (drive)	in (mm)	16.25 x 6 x 11.25 (413 x 152 x 286)			
		Rear (steer)	in (mm)	10 x 5 x 6.5 (254 x 127 x 165) (dual)			
Wheelbase		in (mm)		50.4 (1280)		53.1 (1349)	
Underclearance		in (mm)		4 (102)			
Brake Pedal				Plugging / Electric Disc Brake			
POWER SYSTEM				8BNCU20			
				18.5"		21.25"	
Battery (max. size)	Compartment Size (L x W x H)		in (mm)	38.5 x 18.5 x 32.3 (978 x 470 x 820)		38.5 x 21.25 x 32.3 (978 x 540 x 820)	
	Voltage / Capacity (6-hour rating)		V / Ah	36 / 1085		36 / 1240	
	Battery Size (L x W x H)		in (mm)	38.5 x 18.25 x 32.3 (978 x 464 x 820)		38.5 x 21 x 32.3 (978 x 533 x 820)	
	Weight (minimum)		lb (kg)	2300 (1043)		2593 (1176)	
Motors	Drive	6.70" dia.		4 Pole Induction AC 3-Phase			
		hp (kW)		7.0 (5.2)			
	Load Handling (hydraulic)	6.63" dia.		4 Pole Induction AC 3-Phase			
		hp (kW)		14.1 (10.5)			
Hydrostatic Power Steering		5.63" dia.		Permanent Magnet DC			
Control Type	Drive		Transistor - MOSFET				
	Load Handling		Transistor - MOSFET				
	Power Steering		Contactor				
Operating Pressure (for attachments)		psi (kg/cm2)		2200			
Auxiliary Flow Rate (4th function)		gpm		3 - 10			

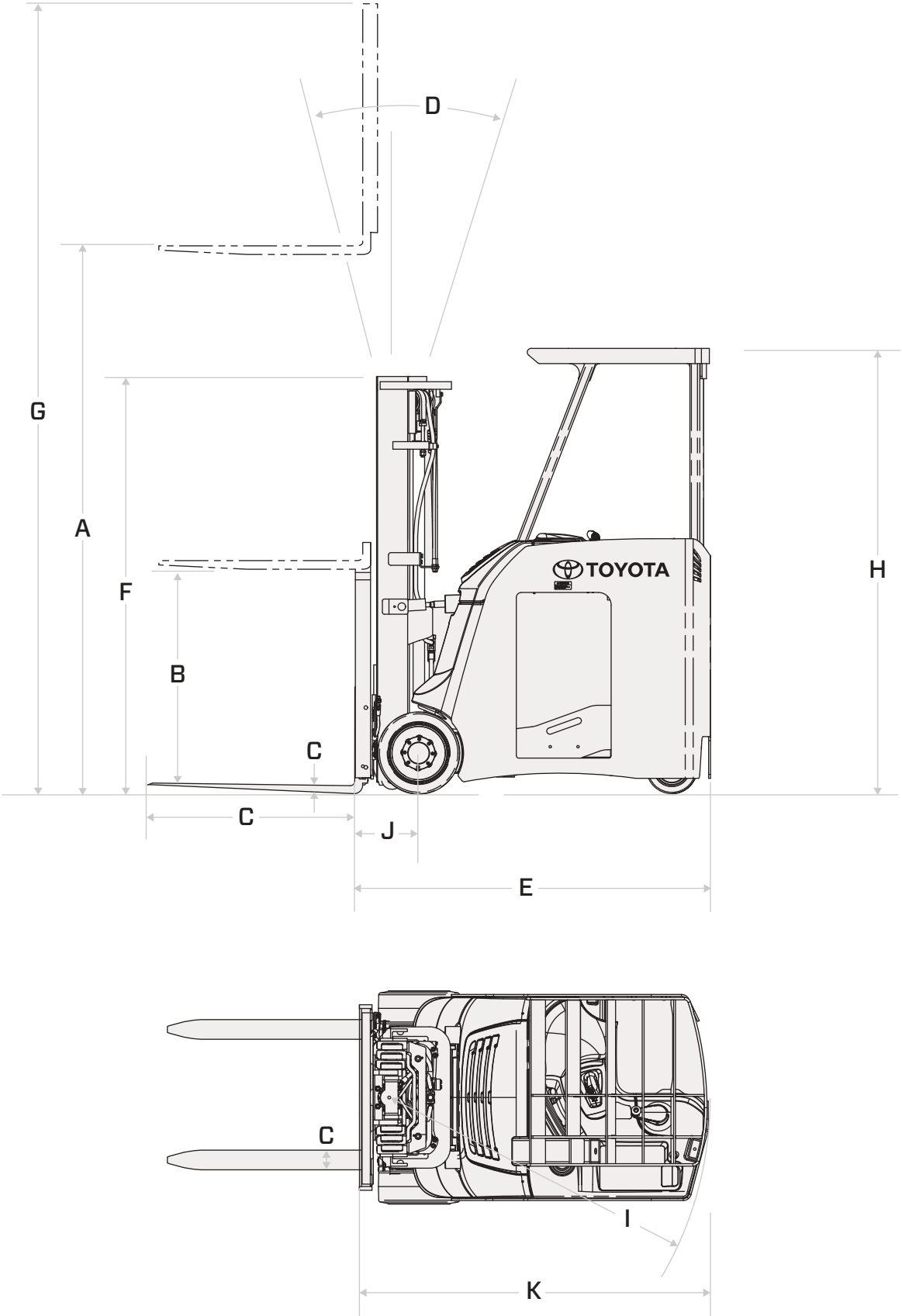
1 At centerline of front axle to front face of forks.

2 Add load length & clearance.

3 If truck is equipped with an integral shifter, add (+0.9" if equipped with FSV) (+1.4" if equipped with QFV).

4 Overhead guard height tolerance is 0.5."

EXTERIOR DIMENSIONS





MAST SPECIFICATIONS

MAST TYPE	MAXIMUM FORK HEIGHT (TOP OF FORKS)	OVERALL HEIGHT			FREE-LIFT		TILT RANGE		LOAD CAPACITY AT 24 IN. (610 MM) LOAD CENTER	
		LOWERED	EXTENDED		WITHOUT LOAD BACKREST¹	WITH STANDARD LOAD BACKREST²	FWD	BWD	FIXED CARRIAGE	4" INTEGRAL SS
			WITHOUT LOAD BACKREST¹	WITH STANDARD LOAD BACKREST²						
	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	deg	deg	lb (kg)	lb (kg)
8BNCU15: 16.5" BATTERY COMPARTMENT										
Full Free-Lift 2-Stage (FV)³	128 (3251)	83 (2108)	152 (3861)	176 (4470)	59 (1499)	35 (889)	3	5	3000 (1360)	3000 (1360)
	140 (3556)	89 (2261)	164 (4166)	188 (4775)	64 (1626)	40 (1016)	3	5	3000 (1360)	3000 (1360)
	152 (3860)	95 (2413)	176 (4470)	200 (5080)	71 (1803)	47 (1194)	3	5	3000 (1360)	3000 (1360)
Full Free-Lift 3-Stage (FSV)³	188 (4775)	83 (2108)	212 (5385)	236 (5994)	59 (1499)	35 (889)	3	5	2900 (1317)	2700 (1225)
	203 (5156)	88 (2235)	227 (5766)	251 (6375)	64 (1626)	40 (1016)	3	5	2800 (1270)	2600 (1180)
	224 (5690)⁵	95 (2413)	248 (6299)	272 (6909)	71 (1803)	47 (1194)	3	5	2600 (1180)	—
	227 (5765)	99 (2514)	251 (6375)	275 (6985)	75 (1905)	51 (1295)	3	5	2600 (1180)	2450 (1112)

MAST TYPE	MAXIMUM FORK HEIGHT (TOP OF FORKS)	OVERALL HEIGHT			FREE-LIFT		TILT RANGE		LOAD CAPACITY AT 24 IN. (610 MM) LOAD CENTER	
		LOWERED	EXTENDED		WITHOUT LOAD BACKREST¹	WITH STANDARD LOAD BACKREST²	FWD	BWD	FIXED CARRIAGE	4" INTEGRAL SS
			WITHOUT LOAD BACKREST¹	WITH STANDARD LOAD BACKREST²						
	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	deg	deg	lb (kg)	lb (kg)
8BNCU15: 18.5" BATTERY COMPARTMENT										
Full Free-Lift 2-Stage (FV)³	128 (3251)	83 (2108)	152 (3861)	176 (4470)	59 (1499)	35 (889)	3	5	3000 (1360)	3000 (1360)
	140 (3556)	89 (2261)	164 (4166)	188 (4775)	64 (1626)	40 (1016)	3	5	3000 (1360)	3000 (1360)
	152 (3860)	95 (2413)	176 (4470)	200 (5080)	71 (1803)	47 (1194)	3	5	3000 (1360)	3000 (1360)
Full Free-Lift 3-Stage (FSV)³	188 (4775)	83 (2108)	212 (5385)	236 (5994)	59 (1499)	35 (889)	3	5	3000 (1360)	3000 (1360)
	203 (5156)	88 (2235)	227 (5766)	251 (6375)	64 (1626)	40 (1016)	3	5	3000 (1360)	3000 (1360)
	224 (5690)⁵	95 (2413)	248 (6299)	272 (6909)	71 (1803)	47 (1194)	3	5	3000 (1360)	—
	227 (5765)	99 (2514)	251 (6375)	275 (6985)	75 (1905)	51 (1295)	3	5	3000 (1360)	3000 (1360)
	251 (6375)	107 (2717)	275 (6985)	299 (7595)	83 (2108)	59 (1499)	3	5	2950 (1338)	2700 (1225)
Full Free-Lift 4-Stage (QFV)⁴	222.5 (5652)⁵	78.5 (1994)	246.5 (6261)	270.5 (6871)	54.5 (1384)	30.5 (775)	3	5	3000 (1360)	3000 (1360)
	240.5 (6109)	83 (2108)	265 (6731)	289 (7341)	59 (1499)	35 (889)	3	5	3000 (1360)	2700 (1225)
	258.5 (6566)	89 (2260)	283 (7188)	307 (7798)	65 (1651)	41 (1041)	3	5	2500 (1133)	2350 (1066)
	270.5 (6871)⁶	93.5 (2375)	295 (7493)	319 (8103)	69 (1753)	45 (1143)	3	5	1950 (885)	—

1 Dimension is approximate & will need to be adjusted if any hoses or quick disconnects extend above the carriage.
2 Height of standard load backrest is 48" (1220 mm).
3 Tread DAW is 41"
4 Tread DAW is 46"
5 Requires option 9816.
6 Must be ordered as a TSDR.

MAST TYPE	MAXIMUM FORK HEIGHT (TOP OF FORKS)	OVERALL HEIGHT			FREE-LIFT		TILT RANGE		LOAD CAPACITY AT 24 IN. (610 MM) LOAD CENTER	
		LOWERED	EXTENDED		WITHOUT LOAD BACKREST ¹	WITH STANDARD LOAD BACKREST ²	FWD	BWD	FIXED CARRIAGE	4" INTEGRAL SS
			WITHOUT LOAD BACKREST ¹	WITH STANDARD LOAD BACKREST ²						
	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	deg	deg	lb (kg)	lb (kg)
8BNCU18: 16.5" BATTERY COMPARTMENT										
Full Free-Lift 2-Stage (FV) ³	128 (3251)	83 (2108)	152 (3861)	176 (4470)	59 (1499)	35 (889)	3	5	3000 (1360)	3000 (1360)
	140 (3556)	89 (2261)	164 (4166)	188 (4775)	64 (1626)	40 (1016)	3	5	3000 (1360)	3000 (1360)
	152 (3860)	95 (2413)	176 (4470)	200 (5080)	71 (1803)	47 (1194)	3	5	3000 (1360)	3000 (1360)
Full Free-Lift 3-Stage (FSV) ³	188 (4775)	83 (2108)	212 (5385)	236 (5994)	59 (1499)	35 (889)	3	5	2900 (1317)	2700 (1225)
	203 (5156)	88 (2235)	227 (5766)	251 (6375)	64 (1626)	40 (1016)	3	5	2800 (1270)	2600 (1180)
	224 (5690) ⁶	95 (2413)	248 (6299)	272 (6909)	71 (1803)	47 (1194)	3	5	2600 (1180)	—
	227 (5765)	99 (2514)	251 (6375)	275 (6985)	75 (1905)	51 (1295)	3	5	2600 (1180)	2450 (1112)

MAST TYPE	MAXIMUM FORK HEIGHT (TOP OF FORKS)	OVERALL HEIGHT			FREE-LIFT		TILT RANGE		LOAD CAPACITY AT 24 IN. (610 MM) LOAD CENTER	
		LOWERED	EXTENDED		WITHOUT LOAD BACKREST ¹	WITH STANDARD LOAD BACKREST ²	FWD	BWD	FIXED CARRIAGE	4" INTEGRAL SS
			WITHOUT LOAD BACKREST ¹	WITH STANDARD LOAD BACKREST ²						
	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	deg	deg	lb (kg)	lb (kg)
8BNCU18: 18.5" BATTERY COMPARTMENT										
Full Free-Lift 2-Stage (FV) ³	128 (3251)	83 (2108)	152 (3861)	176 (4470)	59 (1499)	35 (889)	3	5	3500 (1587)	3500 (1587)
	140 (3556)	89 (2261)	164 (4166)	188 (4775)	64 (1626)	40 (1016)	3	5	3500 (1587)	3500 (1587)
	152 (3860)	95 (2413)	176 (4470)	200 (5080)	71 (1803)	47 (1194)	3	5	3500 (1587)	3500 (1587)
Full Free-Lift 3-Stage (FSV) ³	188 (4775)	83 (2108)	212 (5385)	236 (5994)	59 (1499)	35 (889)	3	5	3500 (1587)	3500 (1587)
	203 (5156)	88 (2235)	227 (5766)	251 (6375)	64 (1626)	40 (1016)	3	5	3500 (1587)	3350 (1523)
	224 (5690) ⁶	95 (2413)	248 (6299)	272 (6909)	71 (1803)	47 (1194)	3	5	3400 (1542)	—
	227 (5765)	99 (2514)	251 (6375)	275 (6985)	75 (1905)	51 (1295)	3	5	3400 (1542)	3050 (1383)
	251 (6375)	107 (2717)	275 (6985)	299 (7595)	83 (2108)	59 (1499)	3	5	2950 (1338)	2700 (1225)
Full Free-Lift 4-Stage (QFV) ⁴	222.5 (5652) ⁵	78.5 (1994)	246.5 (6261)	270.5 (6871)	54.5 (1384)	30.5 (775)	3	5	3500 (1587)	3175 (1440)
	240.5 (6109)	83 (2108)	265 (6731)	289 (7341)	59 (1499)	35 (889)	3	5	3300 (1496)	2975 (1349)
	258.5 (6566)	89 (2260)	283 (7188)	307 (7798)	65 (1651)	41 (1041)	3	5	2500 (1133)	2350 (1066)
	270.5 (6871) ⁶	93.5 (2375)	295 (7493)	319 (8103)	69 (1753)	45 (1143)	3	5	2350 (1066)	—
	277 (7036) ⁶	95 (2413)	300 (7620)	324 (8230)	70 (1778)	46 (1168)	3	5	2300 (1043)	—

¹ Dimension is approximate & will need to be adjusted if any hoses or quick disconnects extend above the carriage.

² Height of standard load backrest is 48" (1220 mm).

³ Tread DAW is 41"

⁴ Tread DAW is 46"

⁵ Requires option 9816.

⁶ Must be ordered as a TSDR.

MAST SPECIFICATIONS

MAST TYPE	MAXIMUM FORK HEIGHT (TOP OF FORKS)	OVERALL HEIGHT			FREE-LIFT		TILT RANGE		LOAD CAPACITY AT 24 IN. (610 MM) LOAD CENTER	
		LOWERED	EXTENDED		WITHOUT LOAD BACKREST ¹	WITH STANDARD LOAD BACKREST ²	FWD	BWD	FIXED CARRIAGE	4" INTEGRAL SS
			WITHOUT LOAD BACKREST ¹	WITH STANDARD LOAD BACKREST ²						
	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	deg	deg	lb (kg)	lb (kg)
8BNCU20: 18.5" BATTERY COMPARTMENT										
Full Free-Lift 2-Stage (FV) ³	128 (3251)	83 (2108)	152 (3861)	176 (4470)	59 (1499)	35 (889)	3	5	4000 (1814)	3675 (1666)
	140 (3556)	89 (2261)	164 (4166)	188 (4775)	64 (1626)	40 (1016)	3	5	4000 (1814)	3675 (1666)
	152 (3860)	95 (2413)	176 (4470)	200 (5080)	71 (1803)	47 (1194)	3	5	4000 (1814)	3675 (1666)
Full Free-Lift 3-Stage (FSV) ³	188 (4775)	83 (2108)	212 (5385)	236 (5994)	59 (1499)	35 (889)	3	5	3500 (1587)	3500 (1587)
	203 (5156)	88 (2235)	227 (5766)	251 (6375)	64 (1626)	40 (1016)	3	5	3500 (1587)	3350 (1523)
	224 (5690) ⁶	95 (2413)	248 (6299)	272 (6909)	71 (1803)	47 (1194)	3	5	3400 (1542)	—
	227 (5765)	99 (2514)	251 (6375)	275 (6985)	75 (1905)	51 (1295)	3	5	3400 (1542)	3050 (1383)
	251 (6375)	107 (2717)	275 (6985)	299 (7595)	83 (2108)	59 (1499)	3	5	2950 (1338)	2700 (1225)
Full Free-Lift 4-Stage (QFV) ⁴	222.5 (5652) ⁵	78.5 (1994)	246.5 (6261)	270.5 (6871)	54.5 (1384)	30.5 (775)	3	5	3500 (1587)	3175 (1440)
	240.5 (6109)	83 (2108)	265 (6731)	289 (7341)	59 (1499)	35 (889)	3	5	3300 (1496)	2975 (1349)
	258.5 (6566)	89 (2260)	283 (7188)	307 (7798)	65 (1651)	41 (1041)	3	5	2500 (1133)	2350 (1066)
	270.5 (6871) ⁶	93.5 (2375)	295 (7493)	319 (8103)	69 (1753)	45 (1143)	3	5	2350 (1066)	—
	277 (7036) ⁶	95 (2413)	300 (7620)	324 (8230)	70 (1778)	46 (1168)	3	5	2300 (1043)	—

MAST TYPE	MAXIMUM FORK HEIGHT (TOP OF FORKS)	OVERALL HEIGHT			FREE-LIFT		TILT RANGE		LOAD CAPACITY AT 24 IN. (610 MM) LOAD CENTER	
		LOWERED	EXTENDED		WITHOUT LOAD BACKREST ¹	WITH STANDARD LOAD BACKREST ²	FWD	BWD	FIXED CARRIAGE	4" INTEGRAL SS
			WITHOUT LOAD BACKREST ¹	WITH STANDARD LOAD BACKREST ²						
	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	deg	deg	lb (kg)	lb (kg)
8BNCU20: 21.25" BATTERY COMPARTMENT										
Full Free-Lift 2-Stage (FV) ³	128 (3251)	83 (2108)	152 (3861)	176 (4470)	59 (1499)	35 (889)	3	5	4000 (1814)	3675 (1666)
	140 (3556)	89 (2261)	164 (4166)	188 (4775)	64 (1626)	40 (1016)	3	5	4000 (1814)	3675 (1666)
	152 (3860)	95 (2413)	176 (4470)	200 (5080)	71 (1803)	47 (1194)	3	5	4000 (1814)	3675 (1666)
Full Free-Lift 3-Stage (FSV) ³	188 (4775)	83 (2108)	212 (5385)	236 (5994)	59 (1499)	35 (889)	3	5	4000 (1814)	4000 (1814)
	203 (5156)	88 (2235)	227 (5766)	251 (6375)	64 (1626)	40 (1016)	3	5	4000 (1814)	4000 (1814)
	224 (5690) ⁶	95 (2413)	248 (6299)	272 (6909)	71 (1803)	47 (1194)	3	5	3800 (1723)	—
	227 (5765)	99 (2514)	251 (6375)	275 (6985)	75 (1905)	51 (1295)	3	5	3800 (1723)	3450 (1565)
	251 (6375)	107 (2717)	275 (6985)	299 (7595)	83 (2108)	59 (1499)	3	5	3000 (1360)	2750 (1247)
Full Free-Lift 4-Stage (QFV) ⁴	222.5 (5652) ⁵	78.5 (1994)	246.5 (6261)	270.5 (6871)	54.5 (1384)	30.5 (775)	3	5	3500 (1587)	3175 (1440)
	240.5 (6109)	83 (2108)	265 (6731)	289 (7341)	59 (1499)	35 (889)	3	5	3300 (1496)	2975 (1349)
	258.5 (6566)	89 (2260)	283 (7188)	307 (7798)	65 (1651)	41 (1041)	3	5	3110 (1410)	2800 (1270)
	270.5 (6871) ⁶	93.5 (2375)	295 (7493)	319 (8103)	69 (1753)	45 (1143)	3	5	2500 (1133)	—
	277 (7036) ⁶	95 (2413)	300 (7620)	324 (8230)	70 (1778)	46 (1168)	3	5	2450 (1110)	—

1 Dimension is approximate & will need to be adjusted if any hoses or quick disconnects extend above the carriage.
2 Height of standard load backrest is 48" (1220 mm).
3 Tread DAW is 41"
4 Tread DAW is 46"
5 Requires option 9816.
6 Must be ordered as a TSDR.



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