

STAND-UP RIDER



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
- Programmable performance parameters
- Independent lift, steer, and auxiliary motors
- Dual rubber steer tires (8BNCU15 only)
- Dual polyurethane steer tires (8BNCU18-20 only)
- Low durometer smooth rubber drive tires
- 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
- Ventilated tractor compartment
- Auto position hold
- (drive motor/brake hold)
- Anti-stall protection
- Two-post overhead guard
- High-visibility mast and overhead guard
- Dual electric disc brakes (self-adjusting)
- Regenerative braking
- Proportional plugging
- 48" load backrest extension
- Hydraulic mast cushioning

ERGONOMICS

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

SERVICEABILITY

- One-piece top cover
- Self-diagnostics (with instructional messages)
- 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
- Mast tilt centering (two-way)
- Hydraulic quick disconnects (single/dual)

LOAD HANDLING (HOSE & VALVE ASSEMBLY) WITH SIDESHIFT

- Integral sideshift with one auxiliary function (internal reeving)

WITHOUT SIDESHIFT

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

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 attachments

BODY

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

FORKS 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
- UL-approved model type "EE"
- Reverse steering

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)
L Chassis Width		in (mm)		41 (1041)		41 (1041)	
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 and 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)
L Chassis Width	in (mm)	41 (1041)		42.5 (1080)
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	
			18.5"	21.25"
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	

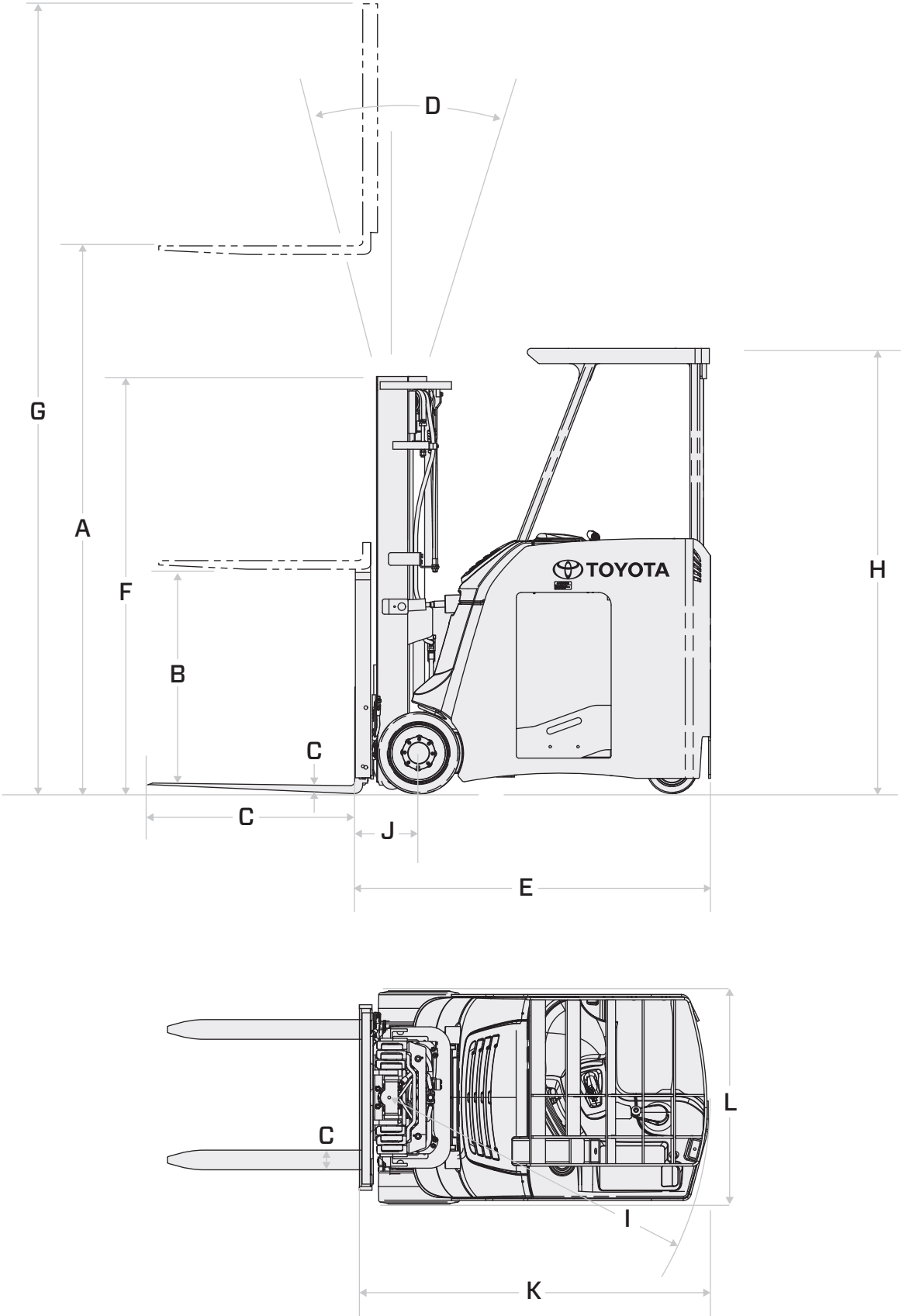
1 At centerline of front axle to front face of forks.

2 Add load length and 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 and 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	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	3300 (1496)	3075 (1396)
	203 (5156)	88 (2235)	227 (5766)	251 (6375)	64 (1626)	40 (1016)	3	5	3200 (1451)	2950 (1338)
	224 (5690) ⁶	95 (2413)	248 (6299)	272 (6909)	71 (1803)	47 (1194)	3	5	2700 (1225)	—
	227 (5765)	99 (2514)	251 (6375)	275 (6985)	75 (1905)	51 (1295)	3	5	2700 (1225)	2700 (1225)

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 and 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 and 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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