

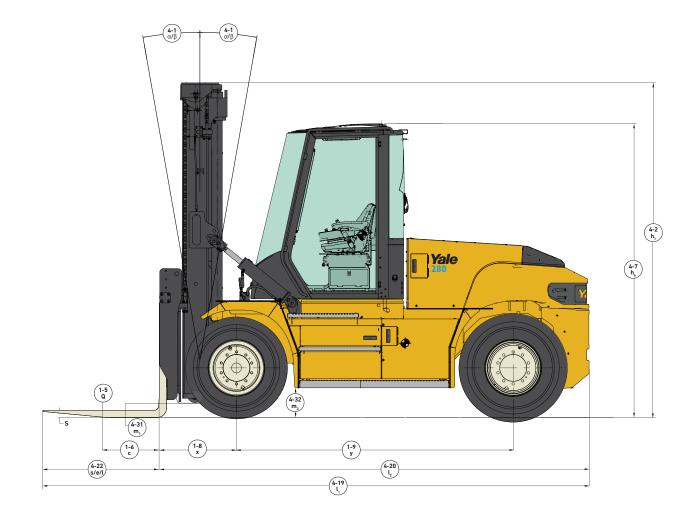


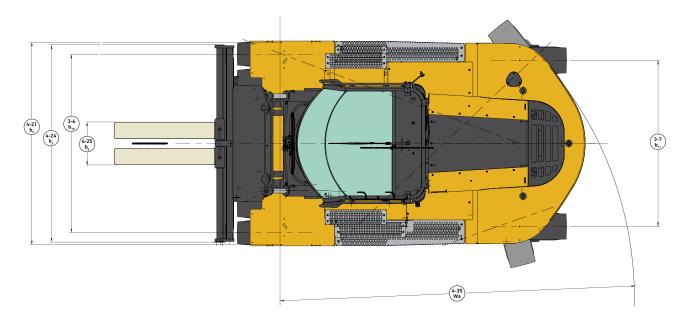
ERP 230-280DF

SPEC SHEET

High capacity pneumatic tire integrated lithium-ion forklift

23,000-28,000 lbs.





Circled dimensions correspond to the line numbers on the tabulated chart inside the spec sheet. Dimensions are in inches (millimeters).

ERF	230DF G	ENERAL SPECIFICATIONS							
	1-1	Manufacturer					Ya	ale	
	1-2	Model designation						30DF	
Ļ	1-3	Powertrain / drivetrain						ctric	
RA	1-4	Operator type						ated	
GENERAL	1-5	Rated load capacity	lb	kg	Q	23,0	000	10,4	
G	1-6	Load center	in	mm	C1	2		61	
	1-8	Load distance	in	mm	Х	31		80	
	1-9	Wheelbase	in	mm	у	11		2,9	
TS	2-1	Total truck weight without load ⁽¹⁾	lb	kg		31,3	398	14,2	242
WEIGHTS	2-2	Axle loading with load, front / rear	lb	kg		50,435	3,964	22,877	1,798
NEI N	2-3	Axle loading without load, front / rear	lb	kg		16,184	15,214	7,341	6,901
_						10,104			0,701
	3-1 3-2	Tire type Tire size, front	Туре	Туре				matic 20 16PR	
ES	3-3	Tire size, rear						20 16PR	
WHEELS	3-5	Number of tires, front / rear (X driven)	#	#				4/2	
N	3-6	Tread width, front	in	mm	b ₁₀	72		1,8	42
	3-7	Tread width, rear	in	mm	b ₁₁	79		2,0	
	4-1	Mast tilt, forward / back	0	0	α/β		15°F	/ 12°B	
	4-2	Height of mast lowered	in	mm	h1	13	38	3,5	07
	4-3	Freelift	in	mm	h ₂	C		C	
	4-4	Lift height (top of fork)	in	mm	h₃	14		3,7	
	4-4-1	Lift height (bottom of fork)	in	mm		14		3,6	
	4-5	Height, extended	in	mm	h4	21		5,3	
	4-7	Height to top of operator compartment (open cab)	in	mm	h ₆	12		3,0	
	4-7-1	Height, top of operator comp (closed cab)	in	mm	h ₆	12		3,0 3,0	
	4-7-2 4-7-3	Height, top of operator comp (closed cab w/ airco) Height, top of operator comp (closed cab w/ strobe light)	in in	mm	h₅ h₅	12		3,0	
	4-7-3	Height, top of operator comp (closed cab w/ strobe light) Height, top of operator comp (closed cab w/ work lights)	in	mm mm	h ₆	12		3,1	
	4-7-4	Height, top of operator comp (closed cab w/ work tights/ Height, top of operator comp (closed cab w/ airco & strobe)	in	mm	116	12		3,2	
DIMENSIONS	4-8	Seat height to seat point index (SIP)	in	mm	h ₂	7		1,8	
slo	4-12	Tow coupler height	in	mm	2	2		66	
Ë	4-19	Overall length	in	mm	l ₁	22		5,7	
M	4-20	Length to load face	in	mm	l2	17	7	4,5	
	4-21	Overall width of truck	in	mm	b ₂	9		2,4	
	4-22	Fork dimension	in	mm	s/e/l	3 / 8		75 / 200	
	4-23	Fork carriage type	Туре	Туре				type carriage	
	4-24	Carriage width	in	mm	b ₃	94		2,3	
		Fork spread, min (in-in)	in	mm	b ₅	5.		13	
	4-25-2	Fork spread, max (out-out) Sideshift	in in	mm	b₅ b ₈	88 C		2,2	
	4-30	Ground clearance, under mast with load	in	mm mm	m ₁	10		25	
	4-31	Ground clearance, center of wheelbase	in	mm	m ₂	10		31	
	4-34	Minimum aisle width (add load length & clearance)	in	mm	Ast	19		4,9	
	4-35	Outside turning radius	in	mm	Wa	16		4,1	
	4-36	Inner turning radius	in	mm		60		1,5	
			NGLE POW	RTAIN					
ш	5-1	Travel speed, with / without load (1)	mph	km/h		20	20	32	32
NCI	5-2	Lifting speed, with / without load	ft/min	m/s		93	106	0.47	0.54
MA	5-3	Lowering speed, with / without load	ft/min	m/s		106	94	0.54	0.48
PERFORMANCE	5-5	Drawbar pull - 1 mph (1.6 km/h), with / without load ⁽²⁾	lb	kN		4,100	5,000	23	25
RF	5-6	Drawbar pull - max, with / without load ⁽³⁾	lb	kN 04		9,700	10,600	48	50
PE	5-7	Gradeability - 1 mph (1.6 km/h), with / without load (2)	%	%		1		1	
	5-8 6-1	Gradeability - max, with / without load ⁽²⁾	% kW	% kW	1	2		3. •6	4
د. د	6-1	Drive motor rating, S2 60 min Lift motor rating at S3 15%	kW	kW kW				65	
ELECTRIC	6-3	Battery type	Туре	Туре				ion	
БĊ	6-4-1	Battery capacity - 2 battery packs	kWh	Type				39	
EL	&	Battery voltage / nominal capacity - 2 battery packs	V / Ah			36		38	34
	6-5-1	Battery weight - 2 battery packs	lb	kg		2,7		1,2	
	8-1	Type of drive unit	Type / #	Type / #				ectric	
DRIVE	8-3	Wheel drive / drive axle manufacturer / type	Туре	Туре			Kessle	r/D61	
DR	8-4	Service brake	Туре	Туре				ed (wet) disc	
	8-5	Parking brake	Туре	Туре				disc on drive	
	10-1	Working pressure for attachments	psi	MPa		2,8		19	
	10-2	Oil volume for attachments	gpm	l/m		26		10	
		Hydraulic oil tank, canacity				28	8	10)9
IISC	10-3	Hydraulic oil tank, capacity	gal						, ,
MISC	10-5	Steering design	Туре	Туре			Hydraulic Po	wer Steering	
MISC				Type # Type			Hydraulic Po 5		

 $^{\rm (1)}$ Laden/Unladen travel speed limited to 15.5 mph (25 km/h) from the factory $^{\rm (2)}$ Peak power

ERF	250DF G	GENERAL SPECIFICATIONS							
	1-1	Manufacturer					Ya	ale	
	1-2	Model designation						50DF	
Ļ	1-3	Powertrain / drivetrain						ctric	
GENERAL	1-4	Operator type						ated	
N.	1-5	Rated load capacity	lb	kg	Q	25,0	000	11,3	340
GB	1-6	Load center	in	mm	C1	24	4	61	
	1-8	Load distance	in	mm	х	31		80	
	1-9	Wheelbase	in	mm	у	11	4	2,9	00
TS	2-1	Total truck weight without load (1)	lb	kg		32,6	511	14,5	792
WEIGHTS	2-2	Axle loading with load, front / rear	lb	kg		53,193	3,964	24,128	1,798
VEI	2-3	Axle loading without load, front / rear	lb	kg		15,964	16,645	7,241	7,550
_						13,704			7,000
	<u>3-1</u> 3-2	Tire type Tire size, front	Туре	Туре				matic 20 16PR	
WHEELS	3-3	Tire size, rear						20 16PR	
핖	3-5	Number of tires, front / rear (X driven)	#	#				/2	
\geq	3-6	Tread width, front	in	mm	b ₁₀	72		1,8	42
	3-7	Tread width, rear	in	mm	b ₁₁	79		2,0	20
	4-1	Mast tilt, forward / back	0	0	α/β		15°F.	/ 12°B	
	4-2	Height of mast lowered	in	mm	h1	13	8	3,5	07
	4-3	Freelift	in	mm	h ₂	0		C	
	4-4	Lift height (top of fork)	in	mm	h₃	14		3,7	
	4-4-1	Lift height (bottom of fork)	in	mm		14		3,6	
	4-5 4-7	Height, extended Height to top of operator compartment (open cab)	in in	mm mm	h₄ h₀	21 12		5,3 3,0	
	4-7-1	Height, top of operator comp (closed cab)	in	mm	h ₆	12		3,0	
		Height, top of operator comp (closed cab)	in	mm	h ₆	12		3,0	
		Height, top of operator comp (closed cab w/ strobe light)	in	mm	h ₆	12		3,1	
	4-7-4	Height, top of operator comp (closed cab w/ work lights)	in	mm	h ₆	12		3,2	
	4-7-5	Height, top of operator comp (closed cab w/ airco & strobe)	in	mm		12	6	3,2	
Ň	4-8	Seat height to seat point index (SIP)	in	mm	h ₂	7.	4	1,8	75
ISIO	4-12	Tow coupler height	in	mm		2		66	
DIMENSIONS	4-19	Overall length	in	mm	l1	22		5,7	
	4-20	Length to load face	in	mm	l ₂	17		4,5	
	4-21	Overall width of truck	in	mm	b ₂	9		2,4 75 / 200	
		Fork dimension	in	mm	s/e/l	3/8			
	4-22				5/6/1	c			
	4-23	Fork carriage type	Туре	Туре			Standard pin	type carriage	
	4-23 4-24	Fork carriage type Carriage width	Type in	Type mm	b ₃	94	Standard pin .3	type carriage 2,3	96
	4-23 4-24 4-25-1	Fork carriage type Carriage width Fork spread, min (in-in)	Type in in	Type mm mm	b ₃ b ₅	94 5.	itandard pin .3 3	type carriage 2,3 13	96
	4-23 4-24 4-25-1 4-25-2	Fork carriage type Carriage width	Type in	Type mm	b ₃	94	itandard pin .3 3 .8	type carriage 2,3	96 94 56
	4-23 4-24 4-25-1	Fork carriage type Carriage width Fork spread, min (in-in) Fork spread, max (out-out)	Type in in in	Type mm mm mm	b ₃ b ₅ b ₅	94 5. 88	itandard pin .3 3 .8	type carriage 2,3 13 2,2	96 34 56
	4-23 4-24 4-25-1 4-25-2 4-30 4-31 4-32	Fork carriage type Carriage width Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast with load Ground clearance, center of wheelbase	Type in in in	Type mm mm mm mm	b ₃ b ₅ b ₅ b ₈	94 5. 88 0 10 12	itandard pin .3 3 .8 .0 .3	type carriage 2,3 13 2,2 0 25 31	96 94 56 13 3
	4-23 4-24 4-25-1 4-25-2 4-30 4-31 4-32 4-34	Fork carriage type Carriage width Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast with load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance)	Type in in in in in in in	Type mm mm mm mm mm	$\begin{array}{c} b_3\\ b_5\\ b_5\\ b_8\\ m_1\\ m_2\\ Ast \end{array}$	94 5. 88 0 10 12 19	itandard pin .3 3 .8 .0 .3 4	type carriage 2,3 13 2,2 0 0 25 31 4,9	96 56 13 3 16
	4-23 4-24 4-25-1 4-25-2 4-30 4-31 4-32 4-34 4-35	Fork carriage type Carriage width Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast with load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance) Outside turning radius	Type in in in in in in in in	Type mm mm mm mm mm mm mm	b ₃ b ₅ b ₅ b ₈ m ₁ m ₂	94 5. 88 0 10 12 19 16	itandard pin .3 3 .8 .0 .3 4 2	type carriage 2,3 13 2,2 0 0 25 31 4,9 4,1	96 56 53 3 16 07
	4-23 4-24 4-25-1 4-25-2 4-30 4-31 4-32 4-34	Fork carriage type Carriage width Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast with load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance) Outside turning radius	Type in in in in in in in in in	Type mm mm mm mm mm mm mm	$\begin{array}{c} b_3\\ b_5\\ b_5\\ b_8\\ m_1\\ m_2\\ Ast \end{array}$	94 5. 88 0 10 12 19	itandard pin .3 3 .8 .0 .3 4 2	type carriage 2,3 13 2,2 0 0 25 31 4,9	96 56 53 3 16 07
	4-23 4-24 4-25-1 4-25-2 4-30 4-31 4-32 4-34 4-35 4-36	Fork carriage type Carriage width Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast with load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance) Outside turning radius Inner turning radius	Type in in in in in in in SGLE POW	Type mm mm mm mm mm mm mm mm	$\begin{array}{c} b_3\\ b_5\\ b_5\\ b_8\\ m_1\\ m_2\\ Ast \end{array}$	94 5. 888 00 10 12 19 16 60	itandard pin .3 .3 .8 .0 .0 .3 .4 .2 .6	type carriage 2,3 13 2,2 0 25 31 4,9 4,1 1,5	96 56 33 3 16 07 38
CE	4-23 4-25-1 4-25-2 4-30 4-31 4-32 4-34 4-35 4-36 5-1	Fork carriage type Carriage width Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast with load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance) Outside turning radius Inner turning radius Slit	Type in in in in in in solle POW mph	Type mm mm mm mm mm mm mm TTAIN km/h	$\begin{array}{c} b_3\\ b_5\\ b_5\\ b_8\\ m_1\\ m_2\\ Ast \end{array}$	94 5. 88 0 10 12 19 16 60 20	itandard pin .3 3 .8 .0 .0 .3 .4 2 .6 20	type carriage 2,3 13 2,2 0 0 25 31 4,9 4,1 1,5 32	96 56 3 3 16 07 38 32
ANCE	4-23 4-24 4-25-1 4-25-2 4-30 4-31 4-32 4-34 4-35 4-36 5-1 5-2	Fork carriage type Carriage width Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast with load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance) Outside turning radius Inner turning radius SII Travel speed, with / without load ⁽¹⁾ Lifting speed, with / without load	Type in in in in in in SGLE POW ft/min	Type mm mm mm mm mm mm mm mm ERTAIN km/h m/s	$\begin{array}{c} b_3\\ b_5\\ b_5\\ b_8\\ m_1\\ m_2\\ Ast \end{array}$	94 5. 88 0 10 12 19 16 60 20 93	itandard pin .3 3 .8 .0 .3 .4 2 .6 .6 .20 106	type carriage 2,3 13 2,2 0 25 31 4,9 4,1 1,5 32 0,47	96 56 33 3 16 07 38 32 0.54
RMANCE	4-23 4-24 4-25-1 4-25-2 4-30 4-31 4-32 4-34 4-35 4-36 5-1 5-2 5-3	Fork carriage type Carriage width Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast with load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance) Outside turning radius Inner turning radius SII Travel speed, with / without load ⁽¹⁾ Lifting speed, with / without load Lowering speed, with / without load	Type in in in in in in in SGLE POW ft/min ft/min	Type mm mm mm mm mm mm mm mm ERTAIN km/h m/s m/s	$\begin{array}{c} b_3\\ b_5\\ b_5\\ b_8\\ m_1\\ m_2\\ Ast \end{array}$	94 5. 88 0 10 12 19 16 60 20 93 106	itandard pin .3 .3 .8 .0 .3 .4 .2 .6 .6 .20 .106 .94	type carriage 2,3 13 2,2 0 25 31 4,9 4,1 1,5 32 0.47 0.54	96 96 56 3 3 16 07 38 <u>32</u> 0.54 0.48
FORMANCE	4-23 4-24 4-25-1 4-25-2 4-30 4-31 4-32 4-34 4-35 4-36 5-1 5-2	Fork carriage type Carriage width Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast with load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance) Outside turning radius Inner turning radius Inner turning radius Inner turning radius SII Travel speed, with / without load ⁽¹⁾ Lifting speed, with / without load Lowering speed, with / without load Drawbar pull - 1 mph (1.6 km/h), with / without load ⁽²⁾	Type in in in in in in SGLE POW ft/min	Type mm mm mm mm mm mm mm mm ERTAIN km/h m/s	$\begin{array}{c} b_3\\ b_5\\ b_5\\ b_8\\ m_1\\ m_2\\ Ast \end{array}$	94 5. 88 0 10 12 19 16 60 20 93	itandard pin .3 3 .8 .0 .3 .4 2 .6 .6 .20 106	type carriage 2,3 13 2,2 0 25 31 4,9 4,1 1,5 32 0,47	96 56 33 3 16 07 38 32 0.54
PERFORMANCE	4-23 4-24 4-25-1 4-25-2 4-30 4-31 4-32 4-34 4-35 4-36 5-1 5-2 5-3 5-5	Fork carriage type Carriage width Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast with load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance) Outside turning radius Inner turning radius Inner turning radius Travel speed, with / without load ⁽¹⁾ Lifting speed, with / without load Lowering speed, with / without load Drawbar pull - 1 mph (1.6 km/h), with / without load ⁽²⁾ Drawbar pull - 1 mph (1.6 km/h), with / without load ⁽²⁾	Type in in in in in in in IGLE POW ft/min ft/min lb	Type mm mm mm mm mm mm mm ERTAIN km/h m/s m/s kN	$\begin{array}{c} b_3\\ b_5\\ b_5\\ b_8\\ m_1\\ m_2\\ Ast \end{array}$	94 5. 88 0 10 12 19 16 60 20 93 106 4,000	itandard pin .3 .3 .8 .0 .3 .4 .2 .6 .6 .20 .106 .94 .5,000 .10,600	type carriage 2,3 13 2,2 0 25 31 4,9 4,1 1,5 32 0.47 0.54 23	96 56 53 3 16 07 38 32 0.54 0.48 25 50
PERFORMANCE	4-23 4-24 4-25-1 4-25-2 4-30 4-31 4-32 4-34 4-35 4-36 5-1 5-2 5-3 5-5 5-6	Fork carriage type Carriage width Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast with load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance) Outside turning radius Inner turning radius SIT Travel speed, with / without load ⁽¹⁾ Lifting speed, with / without load Lowering speed, with / without load Drawbar pull - 1 mph (1.6 km/h), with / without load ⁽²⁾ Drawbar pull - max, with / without load ⁽³⁾	Type in in in in in in in IGLE POW ft/min ft/min ft/min lb	Type mm mm mm mm mm mm mm RTAIN km/h m/s m/s kN kN	$\begin{array}{c} b_3\\ b_5\\ b_5\\ b_8\\ m_1\\ m_2\\ Ast \end{array}$	94 5. 88 0 10 12 19 16 60 20 93 106 4,000 9,600 9	itandard pin .3 .3 .8 .0 .3 .4 .2 .6 .6 .6 .6 .0 .0 .3 .4 .2 .6 .6 .0 .0 .0 .0 .3 .4 .5 .0 .0 .0 .3 .4 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5	type carriage 2,3 13 2,2 0 25 31 4,9 4,1 1,5 32 0.47 0.54 23 48	96 96 56 13 3 16 07 38 32 0.54 0.54 0.54 25 50 8
	4-23 4-24 4-25-1 4-25-2 4-30 4-31 4-32 4-34 4-35 4-36 5-1 5-2 5-3 5-5 5-6 5-7 5-8 6-1	Fork carriage type Carriage width Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast with load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance) Outside turning radius Inner turning radius Travel speed, with / without load ⁽¹⁾ Lifting speed, with / without load Lowering speed, with / without load Drawbar pull - 1 mph (1.6 km/h), with / without load ⁽²⁾ Drawbar pull - max, with / without load ⁽²⁾ Gradeability - 1 mph (1.6 km/h), with / without load ⁽²⁾ Drive motor rating, S2 60 min	Type in in in in in in in in in in SGLE POW Mph ft/min ft/min tb b b % %	Type mm mm/s m/s kN % % kW	$\begin{array}{c} b_3\\ b_5\\ b_5\\ b_8\\ m_1\\ m_2\\ Ast \end{array}$	94 5. 88 0 10 12 19 16 60 20 93 106 4,000 9,600 9	itandard pin .3 .3 .8 .0 .0 .3 .4 .2 .6 .6 .6 .6 .0 .0 .3 .4 .2 .6 .6 .0 .0 .0 .3 .4 .5 .0 .0 .0 .3 .4 .5 .6 .0 .0 .3 .4 .5 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6	type carriage 2,3 13 2,2 0 25 31 4,9 4,1 1,5 32 0,47 0,54 23 48 11 33 48 44 44 44 44 44 44 44 44 44	96 96 56 13 3 16 07 38 32 0.54 0.54 0.54 25 50 8 3
	4-23 4-24 4-25-1 4-25-2 4-30 4-31 4-32 4-34 4-35 4-36 5-1 5-2 5-3 5-5 5-6 5-7 5-8 6-1 6-2	Fork carriage type Carriage width Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast with load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance) Outside turning radius Inner turning radius Travel speed, with / without load ⁽¹⁾ Lifting speed, with / without load Dorawbar pull - 1 mph (1.6 km/h), with / without load ⁽²⁾ Drawbar pull - 1 mph (1.6 km/h), with / without load ⁽²⁾ Gradeability - 1 mph (1.6 km/h), with / without load ⁽²⁾ Drive motor rating, S2 60 min Lift motor rating at S3 15%	Type in in in in in in in in in in in in in	Type mm mm/s m/s kN % kW kW	$\begin{array}{c} b_3\\ b_5\\ b_5\\ b_8\\ m_1\\ m_2\\ Ast \end{array}$	94 5. 88 0 10 12 19 16 60 20 93 106 4,000 9,600 9	itandard pin .3 .3 .8 .0 .0 .3 .4 2 .6 .6 .6 .6 .0 .0 .3 .4 .2 .6 .0 .0 .3 .4 .5 .00 .106 .94 .5,000 .10,600 .20 .20 .20 .20 .20 .20 .20	type carriage 2,3 13 2,2 0 25 31 4,9 4,1 1,5 32 0.47 0.54 23 48 11 33 48 11 33 48 11 33 48 11 33 48 11 33 48 11 33 48 11 33 48 11 13 13 13 13 13 13 13 13 13	96 96 56 13 3 16 07 38 32 0.54 0.54 0.54 25 50 8 3
	4-23 4-24 4-25-1 4-25-2 4-30 4-31 4-32 4-34 4-35 4-36 5-1 5-2 5-3 5-5 5-6 5-7 5-8 6-1 6-2 6-3	Fork carriage type Carriage width Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast with load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance) Outside turning radius Inner turning radius Travel speed, with / without load ⁽¹⁾ Lifting speed, with / without load Drawbar pull - 1 mph (1.6 km/h), with / without load ⁽²⁾ Gradeability - 1 mph (1.6 km/h), with / without load ⁽²⁾ Gradeability - 1 mph (1.6 km/h), with / without load ⁽²⁾ Drive motor rating, S2 60 min Lift motor rating at S3 15% Battery type	Type in in in in in in in in in in in in in	Type mm mm/s m/s kN % % kW	$\begin{array}{c} b_3\\ b_5\\ b_5\\ b_8\\ m_1\\ m_2\\ Ast \end{array}$	94 5. 88 0 10 12 19 16 60 20 93 106 4,000 9,600 9	itandard pin .3 .3 .8 .0 .0 .3 .4 .2 .6 .6 .0 .0 .3 .4 .2 .6 .0 .0 .3 .4 .2 .6 .0 .0 .0 .3 .4 .5 .0 .0 .0 .3 .4 .5 .6 .0 .0 .3 .4 .5 .6 .0 .0 .3 .4 .5 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6	type carriage 2,3 13 2,2 0 25 31 4,9 4,1 1,5 32 0.47 0.54 23 48 11 33 65 ion	96 96 56 13 3 16 07 38 32 0.54 0.54 0.54 25 50 8 3
	4-23 4-24 4-25-1 4-25-2 4-30 4-31 4-32 4-34 4-35 4-36 5-1 5-2 5-3 5-5 5-6 5-7 5-8 6-1 6-2 6-3 6-4-1	Fork carriage type Carriage width Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast with load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance) Outside turning radius Inner turning radius Travel speed, with / without load ⁽¹⁾ Lifting speed, with / without load Drawbar pull - 1 mph (1.6 km/h), with / without load ⁽²⁾ Drawbar pull - 1 mph (1.6 km/h), with / without load ⁽²⁾ Gradeability - 1 mph (1.6 km/h), with / without load ⁽²⁾ Drive motor rating, S2 60 min Lift motor rating at S3 15% Battery type Battery capacity - 2 battery packs	Type in in in in in in in in in in in in in	Type mm mm/s m/s kN % kW kW	$\begin{array}{c} b_3\\ b_5\\ b_5\\ b_8\\ m_1\\ m_2\\ Ast \end{array}$	94 5. 88 0 10 12 19 16 60 20 93 106 4,000 9,600 9,600	itandard pin .3 .3 .8 .0 .0 .3 .4 .2 .6 .0 .3 .4 .2 .6 .0 .0 .3 .4 .2 .6 .0 .0 .3 .4 .2 .6 .0 .0 .0 .3 .4 .5 .0 .0 .3 .4 .5 .6 .0 .0 .0 .3 .4 .5 .6 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	type carriage 2,3 13 2,2 0 25 31 4,9 4,1 1,5 32 0.47 0.54 23 48 11 33 48 14 55 ion 39	96 96 56 13 3 16 07 38 32 0.54 0.48 25 50 8 3 6 50
ELECTRIC PERFORMANCE	4-23 4-24 4-25-1 4-25-2 4-30 4-31 4-32 4-34 4-35 4-36 5-1 5-2 5-3 5-5 5-6 5-7 5-8 6-1 6-2 6-3 6-4-1 &	Fork carriage type Carriage width Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast with load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance) Outside turning radius Inner turning radius Travel speed, with / without load ⁽¹⁾ Lifting speed, with / without load Drawbar pull - 1 mph (1.6 km/h), with / without load ⁽²⁾ Gradeability - 1 mph (1.6 km/h), with / without load ⁽²⁾ Gradeability - 1 mph (1.6 km/h), with / without load ⁽²⁾ Drive motor rating, S2 60 min Lift motor rating at S3 15% Battery type Battery capacity - 2 battery packs	Type in in in in in in in in in in in in in	Type mm mr km/h m/s kN % % kW kW Type	$\begin{array}{c} b_3\\ b_5\\ b_5\\ b_8\\ m_1\\ m_2\\ Ast \end{array}$	94 5. 88 0 10 12 19 16 60 20 93 106 4,000 9,600 9,600 9 11 4,000 9,600	itandard pin .3 .3 .8 .0 .0 .3 .4 .2 .6 .0 .3 .4 .2 .6 .0 .0 .3 .4 .2 .6 .0 .0 .3 .4 .2 .6 .0 .0 .3 .4 .2 .6 .0 .0 .3 .4 .5 .0 .0 .3 .4 .5 .0 .0 .5 .6 .0 .0 .3 .4 .6 .0 .0 .3 .4 .6 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	type carriage 2,3 13 2,2 0 25 31 4,9 4,1 1,5 32 0,47 0,54 23 48 11 33 48 14 55 ion 39 38	96 96 14 56 13 3 16 07 38 32 0.54 0.48 25 50 8 3 6
ELECTRIC	4-23 4-24 4-25-1 4-25-2 4-30 4-31 4-32 4-34 4-35 4-36 5-1 5-2 5-3 5-5 5-6 5-7 5-8 6-1 6-2 6-3 6-4-1 & 8 6-5-1	Fork carriage type Carriage width Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast with load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance) Outside turning radius Inner turning radius Travel speed, with / without load ⁽¹⁾ Lifting speed, with / without load Drawbar pull - 1 mph (1.6 km/h), with / without load ⁽²⁾ Gradeability - 1 mph (1.6 km/h), with / without load ⁽²⁾ Gradeability - 1 mph (1.6 km/h), with / without load ⁽²⁾ Drive motor rating, S2 60 min Lift motor rating at S3 15% Battery type Battery capacity - 2 battery packs Battery weight - 2 battery packs	Type in in in in in in in in in in in in in	Type mm mm mm mm mm mm mm mm RTAIN km/h m/s kN kN kN kN kN kN kW kW kW kW	$\begin{array}{c} b_3\\ b_5\\ b_5\\ b_8\\ m_1\\ m_2\\ Ast \end{array}$	94 5. 88 0 10 12 19 16 60 20 93 106 4,000 9,600 9,600	itandard pin .3 .3 .8 .0 .0 .3 .4 .2 .6 .0 .3 .4 .2 .6 .0 .3 .4 .2 .6 .0 .0 .3 .4 .2 .6 .0 .0 .3 .4 .2 .6 .0 .0 .3 .4 .2 .6 .0 .0 .3 .4 .2 .6 .0 .0 .3 .4 .6 .6 .0 .0 .3 .4 .6 .6 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	type carriage 2,3 13 2,2 0 25 31 4,9 4,1 1,5 32 0,47 0,54 23 48 13 48 14 55 ion 39 38 1,2	96 96 14 56 13 3 16 07 38 32 0.54 0.48 25 50 8 3 6
ELECTRIC	4-23 4-24 4-25-1 4-25-2 4-30 4-31 4-32 4-34 4-35 4-36 5-1 5-2 5-3 5-5 5-6 5-7 5-7 5-8 6-1 6-2 6-3 6-4-1 & 8-1	Fork carriage type Carriage width Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast with load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance) Outside turning radius Inner turning radius Travel speed, with / without load ⁽¹⁾ Lifting speed, with / without load Lowering speed, with / without load Drawbar pull - 1 mph (1.6 km/h), with / without load ⁽²⁾ Gradeability - 1 mph (1.6 km/h), with / without load ⁽²⁾ Gradeability - max, with / without load ⁽²⁾ Drive motor rating, S2 60 min Lift motor rating at S3 15% Battery type Battery type Battery voltage / nominal capacity - 2 battery packs Battery weight - 2 battery packs Type of drive unit	Type in in in in in in in in ID ft/min ft/min ft/min ft/min ft/win kW kW kW kW kW kW kW type kWh V / Ah lb Type / #	Type mm mm mm mm mm mm mm mm mm RTAIN km/h m/s kN kN kN kN kN kN kW kW type Type	$\begin{array}{c} b_3\\ b_5\\ b_5\\ b_8\\ m_1\\ m_2\\ Ast \end{array}$	94 5. 88 0 10 12 19 16 60 20 93 106 4,000 9,600 9,600 9 11 4,000 9,600	itandard pin .3 .3 .8 .0 .0 .3 .4 2 .6 20 106 94 5,000 10,600 9 .6 .6 .6 .6 .0 .0 .3 .4 .2 .6 .0 .0 .3 .4 .2 .6 .0 .0 .3 .4 .2 .6 .0 .0 .3 .4 .6 .0 .0 .0 .3 .4 .6 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	type carriage 2,3 13 2,2 0 25 31 4,9 4,1 1,5 32 0.47 0.54 23 48 11 32 0.47 0.54 23 48 13 48 14 32 0.47 0.54 23 48 13 4,9 14 55 ion 39 38 1,2 14 15 15 15 15 15 15 15 15 15 15	96 96 14 56 13 3 16 07 38 32 0.54 0.48 25 50 8 3 6
ELECTRIC	4-23 4-24 4-25-1 4-25-2 4-30 4-31 4-32 4-34 4-35 4-36 5-1 5-2 5-3 5-5 5-6 5-7 5-7 5-8 6-1 6-2 6-3 6-4-1 & & 6-5-1 8-1 8-1 8-3	Fork carriage type Carriage width Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast with load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance) Outside turning radius Inner turning radius Inner turning radius SII Travel speed, with / without load ⁽¹⁾ Lifting speed, with / without load Lowering speed, with / without load Drawbar pull - 1 mph (1.6 km/h), with / without load ⁽²⁾ Gradeability - 1 mph (1.6 km/h), with / without load ⁽²⁾ Gradeability - max, with / without load ⁽²⁾ Drive motor rating, S2 60 min Lift motor rating at S3 15% Battery type Battery capacity - 2 battery packs Battery weight - 2 battery packs Type of drive unit Wheel drive / drive axle manufacturer / type	Type in in in in in in in I I I I I I I I I I	Type mm mm mm mm mm mm mm mm mm mm RTAIN km/h m/s m/s kN kN kN kN kN kW kW type kg Type / # Type	$\begin{array}{c} b_3\\ b_5\\ b_5\\ b_8\\ m_1\\ m_2\\ Ast \end{array}$	94 5. 88 0 10 12 19 16 60 20 93 106 4,000 9,600 9,600 9 11 4,000 9,600	itandard pin .3 .3 .8 .0 .3 .4 2 .6 20 106 94 5,000 10,600 .7 .6 .1 .5 .20 .106 .5,000 .10,600 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2	type carriage 2,3 13 2,2 0 25 31 4,9 4,1 1,5 32 0.47 0.54 23 48 13 48 14 55 ion 39 39 38 1,2 ectric r / D61	96 96 14 56 13 3 16 07 38 32 0.54 0.48 25 50 8 3 6
	4-23 4-24 4-25-1 4-25-2 4-30 4-31 4-32 4-34 4-35 4-36 5-1 5-2 5-3 5-5 5-6 5-7 5-7 5-8 6-1 6-2 6-3 6-4-1 & 8-1	Fork carriage type Carriage width Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast with load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance) Outside turning radius Inner turning radius Travel speed, with / without load ⁽¹⁾ Lifting speed, with / without load Lowering speed, with / without load Drawbar pull - 1 mph (1.6 km/h), with / without load ⁽²⁾ Gradeability - 1 mph (1.6 km/h), with / without load ⁽²⁾ Gradeability - max, with / without load ⁽²⁾ Drive motor rating, S2 60 min Lift motor rating at S3 15% Battery type Battery type Battery voltage / nominal capacity - 2 battery packs Battery weight - 2 battery packs Type of drive unit	Type in in in in in in in in ID ft/min ft/min ft/min ft/min ft/win kW kW kW kW kW kW kW type kWh V / Ah lb Type / #	Type mm mm mm mm mm mm mm mm mm RTAIN km/h m/s kN kN kN kN kN kN kW kW type Type	$\begin{array}{c} b_3\\ b_5\\ b_5\\ b_8\\ m_1\\ m_2\\ Ast \end{array}$	94 5. 88 0 10 12 19 16 60 20 93 106 4,000 9,600 9,600 9,600 9,600 9,600	itandard pin .3 .3 .8 .0 .3 .4 2 .6 20 106 94 5,000 10,600 .7 .6 .1 .1 .3 .27 .4 .4 .2 .6 .0 .0 .3 .4 .2 .6 .0 .0 .3 .4 .2 .6 .0 .0 .3 .4 .2 .6 .0 .0 .3 .4 .2 .6 .0 .0 .3 .4 .2 .6 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	type carriage 2,3 13 2,2 0 25 31 4,9 4,1 1,5 32 0.47 0.54 23 48 11 32 0.47 0.54 23 48 13 48 14 32 0.47 0.54 23 48 13 4,9 14 55 ion 39 38 1,2 14 15 15 15 15 15 15 15 15 15 15	96 96 96 96 96 96 96 96 96 96
ELECTRIC	4-23 4-24 4-25-1 4-25-2 4-30 4-31 4-32 4-34 4-35 4-36 5-1 5-2 5-3 5-5 5-6 5-7 5-7 5-7 5-7 5-7 5-7 5-7 5-7 5-7 5-7	Fork carriage type Carriage width Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast with load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance) Outside turning radius Inner turning radius SII Travel speed, with / without load ⁽¹⁾ Lifting speed, with / without load Drawbar pull - 1 mph (1.6 km/h), with / without load ⁽²⁾ Gradeability - 1 mph (1.6 km/h), with / without load ⁽²⁾ Gradeability - 1 mph (1.6 km/h), with / without load ⁽²⁾ Drive motor rating, S2 60 min Lift motor rating at S3 15% Battery type Battery type Battery voltage / nominal capacity - 2 battery packs Battery weight - 2 battery packs Type of drive unit Wheel drive / drive axle manufacturer / type Service brake	Type in in in in in in in I I I I I I I I I I	Type mm mm mm mm mm mm mm mm mm ERTAIN km/h m/s kN kN kN kN kN kN kN kW kW Type Kg Type / # Type	$\begin{array}{c} b_3\\ b_5\\ b_5\\ b_8\\ m_1\\ m_2\\ Ast \end{array}$	94 5. 88 0 10 12 19 16 60 20 93 106 4,000 9,600 9,600 9,600 9,600 9,600	itandard pin .3 .3 .8 .0 .3 .4 2 .6 20 106 94 5,000 10,600 10,600 10,6	type carriage 2,3 13 2,2 0 25 31 4,9 4,1 1,5 32 0.47 0.54 23 48 13 48 13 55 ion 39 39 38 1,2 ectric r / D61 ed (wet) disc	96 96 96 96 96 96 96 96 96 96
DRIVE ELECTRIC	4-23 4-24 4-25-1 4-25-2 4-30 4-31 4-32 4-34 4-35 4-36 5-1 5-2 5-3 5-5 5-6 5-7 5-8 6-1 6-2 6-3 6-4-1 8-1 8-1 8-1 8-1 8-3 8-4 8-5 10-1 10-2	Fork carriage type Carriage width Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast with load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance) Outside turning radius Inner turning radius Inner turning radius SII Travel speed, with / without load ⁽¹⁾ Lifting speed, with / without load Lowering speed, with / without load Drawbar pull - 1 mph (1.6 km/h), with / without load ⁽²⁾ Gradeability - 1 mph (1.6 km/h), with / without load ⁽²⁾ Gradeability - 1 mph (1.6 km/h), with / without load ⁽²⁾ Drive motor rating, S2 60 min Lift motor rating at S3 15% Battery type Battery capacity - 2 battery packs Battery weight - 2 battery packs Battery weight - 2 battery packs Battery weight - 2 battery packs Parking brake Working pressure for attachments Oil volume for attachments	Type in in in in in in in I I I I I I I I I I	Type mm mm mm mm mm mm mm mm mm ERTAIN km/h m/s kN kN kN kN kW kW kW kW Type ype	$\begin{array}{c} b_3\\ b_5\\ b_5\\ b_8\\ m_1\\ m_2\\ Ast \end{array}$	94 5. 88 0 10 12 19 16 60 93 106 4,000 9,600 9,600 9,600 9,600 9,600 9,600 9,600 9,600 9,600 9,5000 9,5000 9,5000 9,5000 9,5000 9,5000 9,5000 9,5000 9,50000000000	itandard pin .3 .3 .8 .0 .3 .4 2 .4 2 .6 .0 .3 .4 .2 .6 .20 .106 .94 .5,000 .10,600 .9 .6 .11 .13 .27 .4 .4 .5 .0 .13 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5	type carriage 2,3 13 2,2 0 25 31 4,9 4,1 1,5 32 0.47 0.54 23 48 11 33 48 11 55 100 39 23 48 11 49 11 55 100 12 12 12 12 12 12 12 12 12 12	96 34 56 3 3 16 07 38 32 0.54 0.48 25 50 8 3 6
DRIVE ELECTRIC	4-23 4-24 4-25-1 4-25-2 4-30 4-31 4-32 4-34 4-35 4-36 5-1 5-2 5-3 5-5 5-6 5-7 5-8 6-1 6-2 6-3 6-4-1 & 8-3 6-4-1 & 8-3 8-4 8-3 8-4 8-5 10-1 10-2 10-3	Fork carriage type Carriage width Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast with load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance) Outside turning radius Inner turning radius Inner turning radius Inner turning radius Slit Travel speed, with / without load ⁽¹⁾ Lifting speed, with / without load Lowering speed, with / without load Drawbar pull - 1 mph (1.6 km/h), with / without load ⁽²⁾ Drawbar pull - 1 mph (1.6 km/h), with / without load ⁽²⁾ Gradeability - 1 mph (1.6 km/h), with / without load ⁽²⁾ Gradeability - 1 mph (1.6 km/h), with / without load ⁽²⁾ Drive motor rating at S3 15% Battery type Battery capacity - 2 battery packs Battery woltage / nominal capacity - 2 battery packs Battery weight - 2 battery packs Batter	Type in in in in in in in I I I I I I I I I I	Type mm mm mm mm mm mm mm mm RTAIN km/h m/s m/s kN kN kN kW kW kW Type Type Type Type Type Type Type Type	$\begin{array}{c} b_3\\ b_5\\ b_5\\ b_8\\ m_1\\ m_2\\ Ast \end{array}$	94 5. 88 0 10 12 19 16 60 20 93 106 4,000 9,600 9,70 10 10 10 10 10 10 10 10 10 10 10 10 10	itandard pin .3 .3 .8 .0 .3 .4 2 .6 .20 .106 .94 .5,000 .10,600 .9 .6 .11 .5 .6 .12 .12 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5	type carriage 2,3 13 2,2 0 25 31 4,9 4,1 1,5 32 0,47 0,54 23 48 11 39 39 39 39 30 1,2 ectric r / D61 ed (wet) disc disc on drive 19 10 10 10 10 10 10 10 10 10 10	96 34 56 3 3 16 07 38 32 0.54 0.48 25 50 8 3 6
ELECTRIC	4-23 4-24 4-25-1 4-25-2 4-30 4-31 4-32 4-34 4-35 4-36 5-1 5-2 5-3 5-5 5-6 5-7 5-8 6-1 6-2 6-3 6-4-1 & 8-1 8-1 8-1 8-1 8-3 8-4 8-5 10-1 10-2 10-3 10-5	Fork carriage type Carriage width Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast with load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance) Outside turning radius Inner turning radius Slit Travel speed, with / without load ⁽¹⁾ Lifting speed, with / without load Lowering speed, with / without load Drawbar pull - 1 mph (1.6 km/h), with / without load ⁽²⁾ Drawbar pull - 1 mph (1.6 km/h), with / without load ⁽²⁾ Gradeability - 1 mph (1.6 km/h), with / without load ⁽²⁾ Gradeability - 1 mph (1.6 km/h), with / without load ⁽²⁾ Drive motor rating at S3 15% Battery type Battery capacity - 2 battery packs Battery voltage / nominal capacity - 2 battery packs Battery weight - 2 battery packs Battery weight - 2 battery packs <td< td=""><td>Type in in in in in in in in KGLE POW MM KGLE POW MM KGLE POW MM MM MM MM KW KW KW KW KW KW KW KW KW KW KW KW KW</td><td>Type mm mm mm mm mm mm mm mm mm mm mm mm mm</td><td>$\begin{array}{c} b_3\\ b_5\\ b_5\\ b_8\\ m_1\\ m_2\\ Ast \end{array}$</td><td>94 5. 88 0 10 12 19 16 60 20 93 106 4,000 9,600 9,70 10 10 10 10 10 10 10 10 10 10 10 10 10</td><td>itandard pin .3 .3 .8 .0 .3 .4 .2 .4 .2 .4 .2 .6 .20 .106 .94 .5,000 .10,600 .27 .6 .11 .5 .20 .106 .94 .5,000 .10,600 .27 .4 .5 .20 .10,600 .27 .4 .5 .20 .10,600 .27 .27 .27 .27 .27 .27 .27 .27</td><td>type carriage 2,3 13 2,2 0 25 31 4,9 4,1 1,5 32 0,47 0,54 23 48 11 33 48 14 33 48 14 33 48 14 33 48 11 39 39 38 1,2 ectric r / D61 add (wet) disc disc on drive 19 10 10 10 10 10 10 10 10 10 10</td><td>96 34 56 3 3 16 07 38 32 0.54 0.48 25 50 8 3 6 </td></td<>	Type in in in in in in in in KGLE POW MM KGLE POW MM KGLE POW MM MM MM MM KW KW KW KW KW KW KW KW KW KW KW KW KW	Type mm mm mm mm mm mm mm mm mm mm mm mm mm	$\begin{array}{c} b_3\\ b_5\\ b_5\\ b_8\\ m_1\\ m_2\\ Ast \end{array}$	94 5. 88 0 10 12 19 16 60 20 93 106 4,000 9,600 9,70 10 10 10 10 10 10 10 10 10 10 10 10 10	itandard pin .3 .3 .8 .0 .3 .4 .2 .4 .2 .4 .2 .6 .20 .106 .94 .5,000 .10,600 .27 .6 .11 .5 .20 .106 .94 .5,000 .10,600 .27 .4 .5 .20 .10,600 .27 .4 .5 .20 .10,600 .27 .27 .27 .27 .27 .27 .27 .27	type carriage 2,3 13 2,2 0 25 31 4,9 4,1 1,5 32 0,47 0,54 23 48 11 33 48 14 33 48 14 33 48 14 33 48 11 39 39 38 1,2 ectric r / D61 add (wet) disc disc on drive 19 10 10 10 10 10 10 10 10 10 10	96 34 56 3 3 16 07 38 32 0.54 0.48 25 50 8 3 6
DRIVE ELECTRIC	4-23 4-24 4-25-1 4-25-2 4-30 4-31 4-32 4-34 4-35 4-36 5-1 5-2 5-3 5-5 5-6 5-7 5-8 6-1 6-2 6-3 6-4-1 & 8-3 6-4-1 & 8-3 8-4 8-3 8-4 8-5 10-1 10-2 10-3	Fork carriage type Carriage width Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast with load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance) Outside turning radius Inner turning radius Inner turning radius Inner turning radius Slit Travel speed, with / without load ⁽¹⁾ Lifting speed, with / without load Lowering speed, with / without load Drawbar pull - 1 mph (1.6 km/h), with / without load ⁽²⁾ Drawbar pull - 1 mph (1.6 km/h), with / without load ⁽²⁾ Gradeability - 1 mph (1.6 km/h), with / without load ⁽²⁾ Gradeability - 1 mph (1.6 km/h), with / without load ⁽²⁾ Drive motor rating at S3 15% Battery type Battery capacity - 2 battery packs Battery woltage / nominal capacity - 2 battery packs Battery weight - 2 battery packs Batter	Type in in in in in in in I I I I I I I I I I	Type mm mm mm mm mm mm mm mm RTAIN km/h m/s m/s kN kN kN kW kW kW Type Type Type Type Type Type Type Type	$\begin{array}{c} b_3\\ b_5\\ b_5\\ b_8\\ m_1\\ m_2\\ Ast \end{array}$	94 5. 88 0 10 12 19 16 60 20 93 106 4,000 9,600 9,70 10 10 10 10 10 10 10 10 10 10 10 10 10	itandard pin .3 .3 .8 .0 .0 .3 .4 .2 .4 .2 .6 .20 .106 .94 .5,000 .10,600 .27 .6 .106 .94 .5,000 .10,600 .27 .27 .4 .8 .4 .8 .4 .8 .4 .8 .4 .8 .4 .8 .4 .8 .4 .4 .8 .4 .8 .4 .4 .4 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5	type carriage 2,3 13 2,2 0 25 31 4,9 4,1 1,5 32 0,47 0,54 23 48 11 39 39 39 39 30 1,2 ectric r / D61 ed (wet) disc disc on drive 19 10 10 10 10 10 10 10 10 10 10	96 34 56 3 3 16 07 38 32 0.54 0.48 25 50 8 3 6

 $^{(1)}$ Laden/Unladen travel speed limited to 15.5 mph (25 km/h) from the factory $^{(2)}$ Peak power

ERF	280DF G	ENERAL SPECIFICATIONS							
	1-1	Manufacturer					Ya	ale	
	1-2	Model designation						80DF	
Ļ	1-3	Powertrain / drivetrain						ctric	
RA	1-4	Operator type	-					ated	
GENERAL	1-5	Rated load capacity	lb	kg	Q	28,0		12,5	
G	1-6	Load center	in	mm	C1	2		61	
	1-8	Load distance	in	mm	Х	31		80	
	1-9	Wheelbase	in	mm	у	11		2,9	
ITS	2-1	Total truck weight without load (1)	lb	kg		34,3	374	15,5	592
WEIGHTS	2-2	Axle loading with load, front / rear	lb	kg		57,373	5,000	26,024	2,268
ME	2-3	Axle loading without load, front / rear	lb	kg		15,677	18,697	7,111	8,481
	3-1	Tire type	Туре	Туре			Pneu	matic	
S	3-2	Tire size, front						20 16PR	
E	3-3	Tire size, rear					10.00-2	20 16PR	
WHEELS	3-5	Number of tires, front / rear (X driven)	#	#				/2	
>	3-6	Tread width, front	in	mm	b ₁₀	72		1,8	
	3-7	Tread width, rear	in °	mm ∘	b ₁₁	79		2,0	20
	4-1 4-2	Mast tilt, forward / back Height of mast lowered			<u>α/β</u>	13		/ 12°B	07
	4-2	Freelift	in in	mm mm	h ₁ h ₂	13		3,5	
	4-3	Lift height (top of fork)	in	mm	h ₃	14		3,7	
	4-4-1	Lift height (bottom of fork)	in	mm		14		3,6	
	4-5	Height, extended	in	mm	h4	21		5,3	
	4-7	Height to top of operator compartment (open cab)	in	mm	h ₆	12		3,0	
	4-7-1	Height, top of operator comp (closed cab)	in	mm	h ₆	12		3,0	
	4-7-2	Height, top of operator comp (closed cab w/ airco)	in	mm	h ₆	12		3,0	
	4-7-3 4-7-4	Height, top of operator comp (closed cab w/ strobe light)	in	mm	h₀ b	<u> </u>		3,1 3,2	
	4-7-4	Height, top of operator comp (closed cab w/ work lights) Height, top of operator comp (closed cab w/ airco & strobe)	in in	mm mm	h₅	12		3,2	
NS	4-7-5	Seat height to seat point index (SIP)	in	mm	h ₂	7		1,8	
sio	4-12	Tow coupler height	in	mm	112	2		66	
DIMENSIONS	4-19	Overall length	in	mm	l1	22		5,7	
M	4-20	Length to load face	in	mm	l ₂	17	7	4,5	04
	4-21	Overall width of truck	in	mm	b ₂	9		2,4	
	4-22	Fork dimension	in	mm	s/e/l	3/8		75 / 200	
	4-23 4-24	Fork carriage type Carriage width	Туре	Туре	b ₃	94		type carriage	
		Fork spread, min (in-in)	in in	mm mm	b ₃	5.		2,3	
		Fork spread, max (out-out)	in	mm	b ₅	88		2,2	
	4-30	Sideshift	in	mm	b ₈	(C	
	4-31	Ground clearance, under mast with load	in	mm	m1	10	.0	25	i3
	4-32	Ground clearance, center of wheelbase	in	mm	m ₂	12		31	
		Minimum aisle width (add load length & clearance)	in	mm	Ast	19		4,9	
	4-35	Outside turning radius	in	mm	Wa	16		4,1	
	4-36	Inner turning radius	in In In I			60	.6	1,5	38
	5-1	Travel speed, with / without load (1)	mph	km/h		20	20	32	32
PERFORMANCE	5-2	Lifting speed, with / without load	ft/min	m/s		93	106	0.47	0.54
IAN	5-3	Lowering speed, with / without load	ft/min	m/s		106	94	0.54	0.48
DRN	5-5	Drawbar pull - 1 mph (1.6 km/h), with / without load ⁽²⁾	lb	kN		3,800	4,900	23	25
RFC	5-6	Drawbar pull - max, with / without load ⁽³⁾	lb	kN		9,400	10,500	48	50
PEI	5-7	Gradeability - 1 mph (1.6 km/h), with / without load ⁽²⁾	%	%		8		1	
	5-8	Gradeability - max, with / without load (2)	%	%		1		3	
()	6-1 6-2	Drive motor rating, S2 60 min Lift motor rating at S3 15%	kW kW	kW kW		4		<u>4</u> 65	0
ELECTRIC	6-2	Battery type	Туре	Туре				ion	
ЕĊ	6-4-1	Battery capacity - 2 battery packs	kWh	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				39	
Ш	&	Battery voltage / nominal capacity - 2 battery packs	V / Ah			36		38	34
	6-5-1	Battery weight - 2 battery packs	lb	kg		2,7		1,2	37
	8-1	Type of drive unit	Type / #	Type / #				ectric	
DRIVE	8-3	Wheel drive / drive axle manufacturer / type	Туре	Туре				r / D61	
ä	8-4	Service brake	Туре	Туре		C		ed (wet) disc	aula
	8-5 10-1	Parking brake Working pressure for attachments	Type psi	Type MPa		Sprir 2,8		disc on drive	
	10-1	Oil volume for attachments	gpm	l/m		2,8		19	
ပ္ပ	10-3	Hydraulic oil tank, capacity	gal	l		28		10	
MISC	10-5	Steering design	Туре	Туре				wer Steering	
	10-6	Number of steering rotations	#	#			5	.0	
	10-8	Towing coupling, type DIN	Туре	Туре			Yes	/ Pin	

 $^{\rm (1)}$ Laden/Unladen travel speed limited to 15.5 mph (25 km/h) from the factory $^{\rm (2)}$ Peak power

R	ATED	CAPA	ACITY:	ERP2	30-2	50DF	@ 24	IN (61	0 MN	4) LOA	AD CE	NTER														
	Lift h	eight	Lift h	neight	0ve	erall ered		erall nded		max r lap		max r lap	Ma	ast	Stand	ard Pin	Туре Са	rriage	Apro	on Pin Ty	vpe Carr	iage	QD	DFSSF	P Carria	ige
	TC)F	В	OF		ght		ight		acted)		nded)	wei	ght	ERP2	30DF	ERP2	50DF	ERP2	30DF	ERP2	50DF	ERP2	30DF	ERP2	50DF
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs	kg	lbs	kg	lbs	kg	lbs	kg	lbs	kg	lbs	kg	lbs	kg
	108	2,750	105	2,675	119	3,007	172	4,344	98	2,488	45	1,150	4,209	1,909	23,000	10,433	25,000	11,340	23,000	10,433	25,000	11,340	22,900	10,387	24,500	11,113
	118	3,000	115	2,925	124	3,132	181	4,594	103	2,613	45	1,150	4,339	1,968	23,000	10,433	25,000	11,340	23,000	10,433	25,000	11,340	22,900	10,387	24,500	11,113
	127	3,250	124	3,175	129	3,257	191	4,844	108	2,738	45	1,150	4,464	2,025	23,000	10,433	25,000	11,340	23,000	10,433	25,000	11,340	22,900	10,387	24,500	11,113
님	137	3,500	134	3,425	134	3,382	201	5,094	113	2,863	45	1,150	4,597	2,085	23,000	10,433	25,000	11,340	23,000	10,433	25,000	11,340	22,800	10,342	24,500	11,113
Ш	147	3,750	144	3,675	139	3,507	211	5,344	118	2,988	45	1,150	4,727	2,144	23,000	10,433	25,000	11,340	23,000	10,433	25,000	11,340	22,800	10,342	24,500	11,113
STAG	157	4,000	154	3,925	143	3,632	221	5,594	123	3,113	45	1,150	4,850	2,200	23,000	10,433	25,000	11,340	23,000	10,433	25,000	11,340	22,700	10,297	24,500	11,113
2 S.	177	4,500	174	4,425	153	3,882	240	6,094	132	3,363	45	1,150	5,179	2,349	23,000	10,433	25,000	11,340	23,000	10,433	25,000	11,340	22,700	10,297	24,500	11,113
	187	4,750	184	4,675	158	4,007	250	6,344	137	3,488	45	1,150	5,309	2,408	23,000	10,433	25,000	11,340	23,000	10,433	25,000	11,340	22,600	10,251	24,500	11,113
	196	5,000	193	4,925	163	4,132	260	6,594	142	3,613	45	1,150	5,670	2,572	23,000	10,433	25,000	11,340	23,000	10,433	25,000	11,340	22,600	10,251	24,500	11,113
	216	5,500	213	5,425	173	4,382	280	7,094	152	3,863	45	1,150	5,926	2,688	22,600	10,251	24,600	11,158	22,600	10,251	24,600	11,158	22,200	10,070	24,100	10,932
	236	6,000	233	5,925	183	4,632	299	7,594	162	4,113	45	1,150	6,184	2,805	22,200	10,070	24,200	10,977	22,200	10,070	24,100	10,932	21,700	9,843	22,400	10,160
	246	6,250	243	6,175	188	4,757	309	7,844	167	4,238	45	1,150	6,314	2,864	22,000	9,979	24,000	10,886	22,000	9,979	23,900	10,841	20,100	9,117	22,100	10,024
	255	6,500	252	6,425	193	4,882	319	8,094	173	4,393	45	1,150	6,444	2,923	21,800	9,888	23,800	10,795	21,800	9,888	23,600	10,705	18,200	8,255	18,100	8,210
	275	7,000	272	6,925	203	5,132	339	8,594	182	4,613	45	1,150	6,700	3,039	21,400	9,707	23,300	10,569	21,300	9,662	23,100	10,478	14,700	6,668	14,400	6,532

RATED CAPACITY: ERP280DF @ 24 IN (610 MM) LOAD CENTER

L	ift he	eight	Lift h	eight		erall ered		erall nded		max		max In lap	Ma	ast	Standard Pin	Type Carriage	Apron Pin Ty	/pe Carriage	QD DFSSF	P Carriage
	TO	F	В	J F		ght		ght		r lap acted)		nded)	wei	ight	ERP2	80DF	ERP2	80DF	ERP2	80DF
	n	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs	kg	lbs	kg	lbs	kg	lbs	kg
1	08	2,750	105	2,675	119	3,007	172	4,344	98	2,488	45	1,150	4,209	1,909	28,000	12,701	28,000	12,701	27,500	12,474
1	18	3,000	115	2,925	124	3,132	181	4,594	103	2,613	45	1,150	4,339	1,968	28,000	12,701	28,000	12,701	27,500	12,474
1	27	3,250	124	3,175	129	3,257	191	4,844	108	2,738	45	1,150	4,464	2,025	28,000	12,701	28,000	12,701	27,500	12,474
	37	3,500	134	3,425	134	3,382	201	5,094	113	2,863	45	1,150	4,597	2,085	28,000	12,701	28,000	12,701	27,500	12,474
и 1	47	3,750	144	3,675	139	3,507	211	5,344	118	2,988	45	1,150	4,727	2,144	28,000	12,701	28,000	12,701	27,500	12,474
STAGE	57	4,000	154	3,925	143	3,632	221	5,594	123	3,113	45	1,150	4,850	2,200	28,000	12,701	28,000	12,701	27,500	12,474
1 S S	77	4,500	174	4,425	153	3,882	240	6,094	132	3,363	45	1,150	5,179	2,349	28,000	12,701	28,000	12,701	27,500	12,474
	87	4,750	184	4,675	158	4,007	250	6,344	137	3,488	45	1,150	5,309	2,408	28,000	12,701	28,000	12,701	27,500	12,474
1	96	5,000	193	4,925	163	4,132	260	6,594	142	3,613	45	1,150	5,670	2,572	28,000	12,701	28,000	12,701	27,500	12,474
2	16	5,500	213	5,425	173	4,382	280	7,094	152	3,863	45	1,150	5,926	2,688	27,600	12,519	27,500	12,474	27,000	12,247
2	36	6,000	233	5,925	183	4,632	299	7,594	162	4,113	45	1,150	6,184	2,805	27,200	12,338	27,100	12,292	22,300	10,115
2	46	6,250	243	6,175	188	4,757	309	7,844	167	4,238	45	1,150	6,314	2,864	27,000	12,247	26,800	12,156	19,900	9,026
2	55	6,500	252	6,425	193	4,882	319	8,094	173	4,393	45	1,150	6,444	2,923	26,700	12,111	26,660	12,093	17,700	8,029
2	75	7,000	272	6,925	203	5,132	339	8,594	182	4,613	45	1,150	6,700	3,039	26,200	11,884	26,000	11,793	14,000	6,350

Capacities are calculated using 48" x 3" x 8" forks.

BATTERY CHARGER SPECIFICATIONS

				Enclos	ure size			Charger (olug cable	Operativ		
Input voltage	Charge rate (kW)	Hei	ght	Wi	dth	Thic	kness	len	igth	Operatin	ng range	Manufacturer
	(KVV)	in	mm	in	mm	in	mm	ft	m	F	С	
480V, 3 Phase, 60Hz	10	65	1654	40	1006.5	20	503	25	7.62	-4° to 122°	-20°to 50°	Borg Warner
480V, 3 Phase, 60Hz	36	65	1654	40	1006.5	20	503	25	7.62	-4° to 122°	-20°to 50°	Borg Warner
480V, 3 Phase, 60Hz	45	65	1654	40	1006.5	20	503	25	7.62	-4° to 122°	-20°to 50°	Borg Warner
480V, 3 Phase, 60Hz	75	65	1654	72	1822	20	503	25	7.62	-4° to 122°	-20°to 50°	Borg Warner
480V, 3 Phase, 60Hz	90	65	1654	72	1822	20	503	25	7.62	-4° to 122°	-20°to 50°	Borg Warner

Wall power cable is not included. The charger has an enclosure rating of IP54 and is equipped with emergency stop and anti-arc.

The battery run time and battery charge time tables are a helpful guide to visualize the truck run time with different batteries in different applications.

Heavy – high throughput, typically runs full capacity, runs either attachments or has high lifts
 Medium – high throughput, runs near capacity without attachments or high lifts

• Light – lower throughput, runs less than rated capacity without attachments or high lifts

Note: Run time is from 100% to lift-lock out. Charge time is from lift-lock out to 100%. (Charts are a guide only and not a replacement for a site survey and full power study.)

BATTERY EXPECT	ED RUN TIME (HOU	RS)	
Battery capacity (kWh)	Light application (14.5 kW/h)	Normal application (21.8 kW/h)	Heavy application (29 kW/h)
137.4	9.5	6.3	4.7
206.1	14.2	9.5	7.1
274.8	19.0	12.6	9.5

BATTERY TIME TO FULL	CHARGE	
Battery capacity (kWh)	Charger power (kW)	Time to full charge (minutes)
68.7	50	82
137.4	50	165
137.4	80	103
137.4	90	92
206.1	50	247
206.1	80	155
206.1	90	137
274.8	50	330
274.8	80	206
274.8	90	183

PERFORMANCE STD. OPT. 350V integrated lithium-ion battery with • battery management system One additional 350V lithum-ion battery pack • Traction motor rated 62 hp (46 kW) / peak • 145 hp (108 kW) On-demand cooling fan • Liquid cooling system for motors and • controllers Performance modes selectable in Integrated • Performance Display Powertrain protection system • Kessler D61 drive axle with wet disc brakes STD. OPT. DRIVE Travel speed limiter - unconditional and • customer adjustable Travel speed limiter - loaded (adjustable) • 10.00 - 20 16PR pneumatic bias ply drive and • steer tires 10.00 - R20 Michelin XZM Radial drive and • steer tires 10.00 - R20 Trelleborg radial drive and steer • tires 10.00 - 20 pneumatic shaped solid drive and • steer tires STD. OPT. LIFT Hydraulic motor rated 99 hp (74 kW) / peak • 223 hp (166 kW) On-demand load sensing hydraulic system • Variable lap mast for low roller forces ٠ 2-stage non free-lift mast • 2-stage full free-lift mast 3-stage full free-lift mast Mast tilt - 5° forward / 6° back Mast tilt - 5° forward / 12° back Mast tilt - 15° forward / 10° back Mast tilt - 15° forward / 12° back Mast tilt - 20.5° forward / 7° back Mast tilt indicator - mechanical Hydraulic accumulator Pressure compensated lowering Hydraulic system temperature protection • with performance de-rate HANDLING STD. OPT. 94.3" (2396mm) pin type carriage with mechanical fork locks . 94.3" (2396mm) pin type carriage with simultaneous and independent fork • positioner 94.3" (2396mm) pin type carriage with simultaneous and independent fork positioner (for lumber applications) 94.3" (2396mm) pin type apron-style • sideshift carriage 92.5" (2350mm) pin type apron-style sideshift carriage with simultaneous fork • positioner 94.3" (2396mm) pin type apron-style sideshift carriage with simultaneous and . independent fork positioner 94.3" (2396mm) pin type apron-style sideshift carriage with simultaneous and independent fork positioner (for lumber . applications) 94.4" (2398mm) QD hook type dual function sideshift carriage with simultaneous and . independent fork positioner 94.4" (2398mm) QD hook type dual function sideshift carriage with simultaneous fork • positioner and 2 auxiliary functions 69" (1760mm) high load backrest • 79" (2010mm) high load backrest 98" (2500mm) high load stabilizer (for • lumber applications) 48" long x 3" thick x 7.9" wide (1220mm x 75mm x 200mm) forks • Pin type forks (various sizes) Pin type forks for lumber applications •

Hook type quick disconnect DFSSFP forks

(various sizes)

•

ERGONOMICS STD. Open operator compartment (without doors & screens) • Enclosed operator cabin • Manual tilt operator compartment for service • Powered tilt operator compartment for service • Isolated cabin mounting for low noise and vibration • Operator presence system • Mechanical suspension seat • Deluxe air suspension seat • Low backrest seat • Armrest on left side • Cloth seat cover • Vinyl seat cover • Seat heating • Seat heating • Seat heating • Coat hook • Front, top and rear wipers • "H"-pattern front wiper (enclosed operator cabin) • Tinted operator compartment windows (doors, rear and top window) • Tinted operator compartment top window • Plexiglass shield in front of front window • Vire mesh installed on top of operator compartment • Vertical steel bar front window guard • Operator shield wire mesh • </th <th></th>	
Manual tilt operator compartment for service Powered tilt operator compartment for service Isolated cabin mounting for low noise and vibration Operator presence system Mechanical suspension seat Deluxe air suspension seat Low backrest seat High backrest seat Armest on left side Cloth seat cover Vinyl seat cover Vinyl seat cover Seat heating Seat ventilation 2-point high visibility seatbelt Lateral seat sliding mechanism Floor mat Coat hook Front, top and rear wipers "H"-pattern front wiper (enclosed operator cabin) Laminated glass operator compartment front window Mire doperator compartment top window Tinted operator compartment top window Plexiglass shield in front of front window Wire mesh installed on top of operator compartment Operator shield wire mesh 7" integrated performance display Accutouch mini levers hydraulic control integrated in Control Arm Joystick hydraulic control integrated in Control Arm Joystick hydraulic control integrated in Control Arm Joystick hydraulic co	
Powered tilt operator compartment for service Isolated cabin mounting for low noise and vibration Operator presence system • Mechanical suspension seat • Deluxe air suspension seat • Low backrest seat • High backrest seat • Armrest on left side • Cloth seat cover • Seat heating • Seat ventilation • 2-point high visibility seatbelt • Lateral seat sliding mechanism • Floor mat • Coat hook • Front, top and rear wipers • "H"-pattern front wiper (enclosed operator cabin) • Laminated glass operator compartment front window • Tinted operator compartment top window • Armoured glass rain top • Lexan top window • Plexiglass shield in front of front window • Wire mesh installed on top of operator compartment • Vertical steel bar front window guard • Operator shield wire mesh • 7" integrated performance display • </td <td></td>	
Isolated cabin mounting for low noise and vibration Operator presence system Mechanical suspension seat Deluxe air suspension seat Low backrest seat High backrest seat Armrest on left side Cloth seat cover Vinyl seat cover Seat heating Seat ventilation 2-point high visibility seatbelt Lateral seat sliding mechanism Front, top and rear wipers ''I'-pattern front wiper (enclosed operator cabin) ''Inted operator compartment windows (doors, rear and top window) Tinted operator compartment top window Armoured glass rain top Lexan top window Plexinglass shield in front of front window Wire mesh installed on top of operator compartment Operator shield wire mesh '' integrated performance display Accutouch mini levers hydraulic control integrated in Control Arm Joystick hydraulic control integrated in Control Arm Steering wheel without spinner knob Steering wheel with spinner knob Directional control eveda Park brake - automatically applied 	
vibration Operator presence system Mechanical suspension seat Air suspension seat Deluxe air suspension seat Low backrest seat High backrest seat Armrest on left side Cloth seat cover Vinyl seat cover Seat heating Seat ventilation 2-point high visibility seatbelt Lateral seat sliding mechanism Floor mat Coat hook Front, top and rear wipers "H"-pattern front wiper (enclosed operator cabin) "I"-pattern front wiper (enclosed operator cabin) Tinted operator compartment front windows (doors, rear and top window) Tinted operator compartment top window Armoured glass rain top Lexan top window Plexiglass shield in front of front window Wire mesh installed on top of operator compartment Operator shield wire mesh 7' integrated performance display Accutouch mini levers hydraulic control integrated in Control Arm Joystick hydraulic control integrated in Control Arm Joystick hydraulic control integrated in Control Arm Steering wheel without spinner knob Steeri	
Mechanical suspension seat Air suspension seat Deluxe air suspension seat Low backrest seat High backrest seat Armrest on left side Cloth seat cover Vinyl seat cover Seat heating Seat ventilation 2-point high visibility seatbelt Lateral seat sliding mechanism Floor mat Coat hook Front, top and rear wipers 'I'-pattern front wiper (enclosed operator cabin) 'I'-pattern front wiper (enclosed operator cabin) Laminated glass operator compartment front window Tinted operator compartment top window) Armoured glass rain top Lexan top window) Piexiglass shield in front of front window Wire mesh installed on top of operator compartment vertical steel bar front window guard Operator shield wire mesh 7' integrated performance display Accutouch mini levers hydraulic control integrated in Control Arm Joystick hydraulic control integrated in Control Arm Joystick hydraulic control integrated in Control Arm Steering wheel with opinner knob Steering wheel with opinner knob	
Air suspension seat Deluxe air suspension seat Low backrest seat High backrest seat Armrest on left side Cloth seat cover Vinyl seat cover Seat heating Seat ventilation 2-point high visibility seatbelt Lateral seat sliding mechanism Floor mat Coat hook Front, top and rear wipers "H"-pattern front wiper (enclosed operator cabin) "Inted operator compartment front window K(doors, rear and top window) Tinted operator compartment top window Arroured glass rain top Lexan top window Plexiglass shield in front of front window Wire mesh installed on top of operator compartment Operator shield wire mesh 7" integrated performance display Accutouch mini levers hydraulic control integrated in Control Arm Joystick hydraulic control integrated in Control Arm Joystick hydraulic control redal Directional control Pedal Directional control lever on steering column Freatering wheel with spinner knob Steering wheel with spinner knob Steering wheel with spinner knob <td></td>	
Low backrest seat High backrest seat Armrest on left side Cloth seat cover Vinyl seat cover Seat heating Seat ventilation 2-point high visibility seatbelt Lateral seat sliding mechanism Floor mat Coat hook Front, top and rear wipers "H"-pattern front wiper (enclosed operator cabin) "I"-pattern front wiper (enclosed operator cabin) Laminated glass operator compartment front window Tinted operator compartment top window Armoured glass rain top Lexan top window Plexiglass shield in front of front window Wire mesh installed on top of operator compartment Operator shield wire mesh 7" integrated performance display Accutouch mini levers hydraulic control integrated in Control Arm Joystick hydraulic control integrated in Control Arm Joystick hydraulic control on mini-levers or joystick Park brake - push button applied	
High backrest seat Armrest on left side Cloth seat cover Vinyl seat cover Seat ventilation 2-point high visibility seatbelt Lateral seat sliding mechanism Floor mat Coat hook Front, top and rear wipers 'I'-pattern front wiper (enclosed operator cabin) ''I'-pattern front wiper (enclosed operator cabin) ''Inted operator compartment front windows (doors, rear and top window) Tinted operator compartment top window Armoured glass rain top Lexan top window Plexiglass shield in front of front window Wire mesh installed on top of operator compartment Operator shield wire mesh 7' integrated performance display Accutouch mini levers hydraulic control integrated in Control Arm Joystick hydraulic control integrated in Control Arm Joystick hydraulic control Pedal Directional control Pedal Directional control ever on steering column Foot Directional control on mini-levers or joystick Park brake - push button applied	
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Foot Directional Control Pedal Directional control on mini-levers or joystick Park brake - push button applied Park brake - automatically applied	•
Park brake - push button applied Park brake - automatically applied	•
Park brake - automatically applied	•
Heater with adjustable speed fan (Enclosed operator cabin)	•
Telescoping & tilting steering column	
USB outlet inside armrest 24-12 volt DC converter with 1 socket and 2	
USB outlets	
24-12 volt DC converter with 2 sockets and 2 USB outlets	•
Air conditioning Automatic climate control	
Reading light	
Sun shades on top and rear	•
Sun visors front window Cloth trainer seat with 2-point seatbelt	-
Recirculation fan	•
Additional recirculation fan Accessory mounting bracket on cab front	•
right pillar	•
Document holder on cab front right pillar Heated top- and/or rear window	•
Radio preparation with 2 speakers and	-
antenna	0.5
VISIBILITY STD. Steel bars on top of cab (Open operator	
compartment)	0P

VISIBILITY CONTINUED	STD.	0P
Top window with armored glass (Enclosed operator cabin)	•	
Steel bars under armored glass top window (Enclosed operator cabin)		•
Interior wide angle mirrors	•	
Exterior mirrors mounted to cab		•
Rear view camera system		•
Radar object detection system		•
High Performance LED work lights Two head lights mounted on front fenders		•
Four mast mounted work lights		•
Four cabin mounted work lights		
Two rearward work lights mounted on the cabin		•
LED stop/tail/brake lights	•	
Turn signals, hazard & marker lights (LED)		•
OPERATION	STD.	0P ⁻
Air horn 112 dBA		•
Electric horn 105 dBA	•	
Visible alarm – Amber strobe light, ignition activated		•
Audible alarm – Reverse direction activated 82–102 dB(A), self-adjusting (6)		•
Audible alarm – reverse direction white noise		•
Forward / reverse motion alarm		•
Blue LED spotlight – rear / front and rear		•
Tire pressure monitoring system Air conditioning shut-off with open door		•
Lockable battery disconnect switch	•	
Operator password (display) for Truck Start		
Seatbelt Interlock for truck start		•
Power distribution group with fuses	•	
Fuses below 30 amps replaced by electric circuit breakers		•
Yale Vision [™] wireless asset management - access / verification		•
Yale Vision [™] wireless asset management - mmonitoring		•
Auto greasing system for basic truck & outer mast		•
24 volt electrical system	•	
Steer wheel lug nut protection		•
Front and/or rear mud guards		•
Lifting eyes - 2 front and 2 rear APPEARANCE	STD.	0.0.0
Second capacity plate	510.	
Yale gold paint base truck	•	
Special paint base truck		•
Operator compartment special paint (complete cabin)		•
Hazard warning striping on counterweight		•
SUPPLEMENTAL	STD.	0P ⁻
Literature package	•	
Operator's manual	•	
12 Months / 2,000 Hours Manufacturer's Warranty, 24 Months/4,000 Hours Manufacturer's Powertrain Warranty, 60 Months / 10,000 Hours / 270,000 Ahr Factory	•	

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Other options available through Special Products Engineering Department (SPED). Contact Yale for details.

About Yale



Yale Lift Truck Technologies leverages over a century of material handling experience and substantial investment in innovation to bring the most advanced technology-driven lift truck solutions to market. The company offers a full line of award-winning lift trucks, including reach trucks, order pickers, turret trucks, pallet jacks and trucks, pallet stackers, tow tractors and counterbalanced forklifts, as well as powerful operator assist solutions, proven robotics and a wide range of power sources to help customers adapt to today's demanding supply chain. Yale and its independent dealer network support these solutions with comprehensive after-sales service, parts, financing and training.

MATERIALS HANDLING FOR:

Third-party logistics (3PL)

Auto parts distribution

Beverage

Cold & frozen foods

Food distribution

Food processing

Furniture & furnishings

Government

Health & pharma

Home centers & durables

Retail & e-commerce

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yale.com

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Trucks may be shown with optional equipment and/or features not available in all regions. Truck performance may be affected by the condition of the vehicle, how it is equipped and the application. Specifications are subject to change without notice. Consult your Yale® Dealer if any of the information shown is critical to your application.

CERTIFICATION: Yale lift trucks meet the design and construction requirements of B56.1-1969, per OSHA Section 1910.178(a)(2), and also comply with the B56.1 revision in effect at time of manufacture. Classified by Underwriters' Laboratories, Inc.