



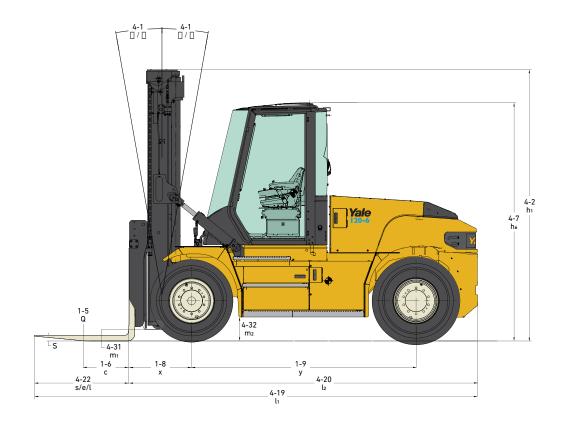
ERP100-160DF-EF

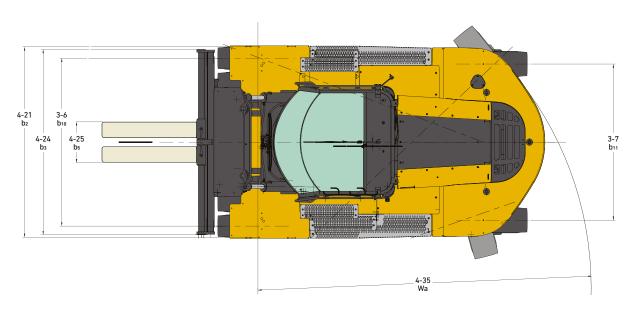
10,000 - 16,000 kg

DF-EF Series

Electric Heavy Duty Forklift Trucks

TRUCK DIMENSIONS – ERP100-160DF/EF SERIES





۷D	2198	- GENERAL SPECIFICATIONS - ERP10	00-160DF/EF	SERIES							
	1-1	Manufacturer				Yal	e				
	1-2	Model designation		ERP100DF	ERP1200		ERP130EFS	ERP140EFS			
	1-3	Powertrain / drivetrain				Elect					
GENERAL	1-4	Operator type				Seat					
萝	1-5	Load capacity at load center, nominal						14500			
띪	1-6	Load center		600							
	1-8	Load distance (1)				80					
	1-9	Wheelbase				290					
_	2-1	Service weight*	kg	14670	16020		19053 19524				
.품	2-2	Axle loading with load, front / rear		23421 1748		29577 2976 31134					
WEIGHT	2-2	-	kg	7820 6850		2357	9145 9907	9189 103			
_	3-1	Axle loading without load, front / rear	kg	7820 6850 7590 8430 9145 9907 9189 Pneumatic							
	3-1	Tire type Tire size, front		10.00-20 16PR 12.00-20 20PR							
r _S											
WHEELS	3-3	Tire size, rear		10.00	20 16PR	4X /		-20 20PR			
≱	3-5	Number of tires, front / rear (X driven)									
	3-6	Tread, front	b10 (mm)			1,84					
	3-7	Tread, rear	b ₁₁ (mm)	20	120			2018			
	4-1	Mast tilt, forward / backward	□ / □ (°)			15 /					
	4-2	Height, mast lowered (2)	h1 (mm)	41	135		1	1193			
	4-3	Freelift	h ₂ (mm)								
	4-4	Lift (3)	h₃ (mm)		925		¥910				
	4-5	Height, mast extended	h4 (mm)		597		648				
	4-7	Height of overhead guard (open cab)	h ₆ (mm))55	3083					
	4-7-1	Height of overhead guard (closed cab)	h ₆ (mm)		182		3110				
	4-7-2	Height of overhead guard (closed cab w/ airco)	h ₆ (mm)	30	182		3	3110			
	4-7-3	Height of overhead guard (closed cab w/ strobe lights)	h ₆ (mm)	31	177		3	3205			
	4-7-4	Height of overhead guard (closed cab w/ work lights)	h ₆ (mm)	32	231		3	3259			
	4-7-5	Height of overhead guard (closed cab w/ airco & strobe lights)	h ₆ (mm)	32	207		3	3235			
	4-8	Seat height to SIP (4)	h ₇ (mm)	18	375		1	1903			
	4-12	Coupling height	h ₁₀ (mm)	6	61			689			
	4-19	Overall length	l1 (mm)	55	724		ϵ	544			
DIMENSIONS	4-20	Length to face of forks	l ₂ (mm)	45	504		4	¥717			
25	4-21	Overall width across drive tires	b2 (mm)	24	490		2	2541			
Ē	4-22	Fork dimensions ISO 2331	s/e/l (mm)	75 / 20	0 / 1220		90 / 200 / 1830				
á	4-23	Carriage type		75 mm st	td pin type		90 mm std pin type				
	4-24	Carriage width	b₃ (mm)	23	396		2496				
	4-25	Width over forks (min / max)	b5 (mm)	534 /	2256		534	/ 2356			
	4-31	Ground clearance, lowest point	m1 (mm)	2	53		245				
	4-32	Ground clearance, center of wheelbase	m ₂ (mm)	3	13		341				
	4-33-1	Load size	w x l (mm)			1200 x	1200				
	4-34-1-1	Aisle width (a=10%)	Ast (mm)	67	728		ć	896			
	4-34-1-2	Aisle width (a=0)	Ast (mm)	6	116		ć	269			
	4-34-1-3	Aisle width (a=200 mm)	Ast (mm)	63	316		6	469			
	4-33-2	Load size	w x l (mm)			1200 >					
	4-34-2-1	Aisle width (a=10%)	Ast (mm)	62	288		6	456			
	4-34-2-2	Aisle width (a=0)	Ast (mm)	84	468		5	869			
		Aisle width (a=200 mm)	Ast (mm)	86	568		ć	069			
	4-35	Outside turning radius	Wa (mm)		107			180			
	4-36	Internal turning radius (6)	b ₁₃ (mm)		538			453			
	5-1	Travel speed, with / without load**	km/h			25					
	5-2	Lifting speed, with / without load	m/s	0.51	/ 0.59			2 / 0.44			
) 기	5-2-1	Lifting speed, with 70% load	m/s	3.51			3.42				
¥	5-3	Lowering speed with / without load	m/s	0.56	/ 0.54		0.57	4 / 0.48			
용	5-5	Drawbar pull - 1 mph (1.6 km/h), with / without load	kN		/ 0.54			7 0.40			
PERFORMANCE	5-6	Drawbar pull - max, with / without load	kN		/ 50			62 / 65			
Н	5-6	Gradeability - 1 mph (1.6 km/h), with / without load (5)	%	10 / 18	8 / 16		63 / 65 10 / 18	9 / 17			
			%								
	5-8 10-7	Gradeability - max, with / without load (5) Sound pressure level at the driver's seat	dB (A)	20 / 34	17 / 31		20 / 31	19 / 30			
				69.6 98.1							

⁽¹⁾ Centre of drive axle to front face of forks.

All values are nominal values and they are subject to tolerances.

⁽²⁾ Unladen with new tyres.

⁽³⁾ Bottom of forks.

⁽⁴⁾ Full suspension seat in depressed position.

⁽⁵⁾ Gradeability figures are provided for comparison of tractive performance, but are not intended to endorse the operation of vehicle on the stated inclines.

⁽⁶⁾ Distance centre truck to centre of internal turning radius.

^{*}Truck models based on 1 pack battery and Standard pin CRG w/o fork positioning.

^{**}Travel speed laden/unladen limited at 25 km/h as factory default.

	1-1	Manufacturer				Ya	le			
	1-2	Model designation		ERP1	30FF	ERP1		FRP1	60EF	
	1-3	Powertrain / drivetrain				Elec				
GENERAL	1-4	Operator type				Sea				
į	1-5	Load capacity at load center, nominal		135	nn	145		161	500	
5	1-6	Load center		100		60		1	500	
	1-8	Load distance (1)		889						
	1-9	Wheelbase				33				
_	2-1	Service weight*	kg	184	10	189		100	930	
	2-1	Axle loading with load, front / rear		29404	2506	30768	2692	33793	263	
	2-2	Axle loading with toad, front / rear	kg	9813	8597	9725	9234	9848	100	
-	3-1	Tire type	kg	7013	0377	Pneur		7040	100	
	3-1	1				12.00-2				
		Tire size, front Tire size, rear								
	3-3					12.00-2				
	3-5	Number of tires, front / rear (X driven)				4X				
	3-6	Tread, front	b10 (mm)			18-				
_	3-7	Tread, rear	b ₁₁ (mm)			20				
	4-1	Mast tilt, forward / backward	[] / [] (°)			15 /				
	4-2	Height, mast lowered (2)	h ₁ (mm)			419				
	4-3	Freelift	h ₂ (mm)			-				
	4-4	Lift (3)	h ₃ (mm)			49				
	4-5	Height, mast extended	h4 (mm)			66				
4	4-7	Height of overhead guard (open cab)	h ₆ (mm)	3083						
	4-7-1	Height of overhead guard (closed cab)	h ₆ (mm)	3110						
	4-7-2	Height of overhead guard (closed cab w/ airco)	h ₆ (mm)			31	10			
	4-7-3	Height of overhead guard (closed cab w/ strobe lights)	h ₆ (mm)			32	05			
	4-7-4	Height of overhead guard (closed cab w/ work lights)	h ₆ (mm)			32	59			
4	4-7-5	Height of overhead guard (closed cab w/ airco & strobe lights)	h ₆ (mm)			32	35			
	4-8	Seat height to SIP (4)	h ₇ (mm)			19	03			
	4-12	Coupling height	h10 (mm)			68	9			
	4-19	Overall length	lı (mm)	6814						
	4-20	Length to face of forks	l ₂ (mm)	4984						
	4-21	Overall width across drive tires	b ₂ (mm)	2541						
	4-22	Fork dimensions ISO 2331	s/e/l (mm)			90 / 200	/ 1830			
	4-23	Carriage type				90 mm sto	d pin type			
	4-24	Carriage width	b3 (mm)			24	96			
	4-25	Width over forks (min / max)	bs (mm)			534 /	2256			
	4-31	Ground clearance, lowest point	m1 (mm)			24	5			
	4-32	Ground clearance, center of wheelbase	m ₂ (mm)			34	:1			
	4-33-1	Load size	w x l (mm)			1200 x	1200			
	4-34-1-1	Aisle width (a=10%)	Ast (mm)			73:	28			
	4-34-1-2	Aisle width (a=0)	Ast (mm)			66				
		Aisle width (a=200 mm)	Ast (mm)			68				
	4-33-2	Load size	w x l (mm)			1200 :				
	4-34-2-1	Aisle width (a=10%)	Ast (mm)			68				
		Aisle width (a=0)	Ast (mm)			62				
		Aisle width (a=200 mm)	Ast (mm)			64				
	4-35	Outside turning radius	Wa (mm)			45				
	4-36	Internal turning radius (6)	b ₁₃ (mm)			17				
_	5-1	Travel speed, with / without load**	km/h							
	5-2	Lifting speed, with / without load	m/s	25 0.42 / 0.44						
	5-2-1	Lifting speed, with 70% load	m/s							
	5-2-1	Lowering speed with / without load	m/s	- 0.57,70,48						
	5-5	Drawbar pull - 1 mph (1.6 km/h), with / without load	kN	0.54 / 0.48						
	5-6	Drawbar pull - max, with / without load	kN %	63 / 65 62 / 65						
	5-7	Gradeability - 1 mph (1.6 km/h), with / without load (5)	%	10 / 19 9 / 18 8 / 7 20 / 35 19 / 34 18 /						
_	5-8	Gradeability - max, with / without load (5)		20 /	J)			187	/ 32	
	10-7	Sound pressure level at the driver's seat	dB (A)	69.6 98.1						

⁽¹⁾ Centre of drive axle to front face of forks.

⁽²⁾ Unladen with new tyres.

⁽³⁾ Bottom of forks.

⁽⁴⁾ Full suspension seat in depressed position.

⁽⁵⁾ Gradeability figures are provided for comparison of tractive performance, but are not intended to endorse the operation of vehicle on the stated inclines.

⁽⁶⁾ Distance centre truck to centre of internal turning radius.

^{*}Truck models based on 1 pack battery and Standard pin CRG w/o fork positioning.

^{**}Travel speed laden/unladen limited at 25 km/h as factory default.

	1-1	Manufacturer			Yale			
	1-2	Model designation		ERP120EF12	ERP140EF12	ERP160E	FS9	
	1-3	Powertrain / drivetrain			Electric			
	1-4	Operator type			Seated			
	1-5	Load capacity at load center, nominal		12500	14500	16400)	
	1-6	Load center			1200	900	,	
	1-8	Load distance (1)		889		941		
	1-9	Wheelbase		007	3500			
_	2-1	Service weight*	kg	20247	22740	22040)	
	2-2	Axle loading with load, front / rear	kg	29758 2989	33886 3354	35641	279	
	2-3	Axle loading without load, front / rear	kg	9797 10450	10516 12224	10615	114	
-	3-1	Tire type	ing ing	7777 10100	Pneumatic	10010		
	3-2	Tire size, front		12.00-20 20PR		00 R 20		
	3-3	Tire size, rear		12.00-20 20PR		00 R 20		
	3-5	Number of tires, front / rear (X driven)		12.00-20 201 10	4X / 2	J0 IV 20		
	3-6	Tread, front	b10 (mm)	1842		1844		
	3-7	Tread, rear	b ₁₁ (mm)	2018		2020		
_	4-1	Mast tilt, forward / backward	(mm)	15 / 12		/ 10		
	4-1			4193		÷008		
	4-2	Freelift	h ₂ (mm)	4173		+000		
	4-4	Lift (3)	h ₃ (mm)		4910	4494		
	4-4	Height, mast extended		6648	6463	6255		
	4-5	Height of overhead guard (open cab)	h4 (mm) h6 (mm)	0040	3083	0200		
	4-7-1							
	4-7-1	Height of overhead guard (closed cab)	h ₆ (mm)		3110			
		Height of overhead guard (closed cab w/ airco)	h ₆ (mm)		3110			
	4-7-3	Height of overhead guard (closed cab w/ strobe lights)	h ₆ (mm)		3205			
	4-7-4	Height of overhead guard (closed cab w/ work lights)	h ₆ (mm)		3259			
	4-7-5	Height of overhead guard (closed cab w/ airco & strobe lights)	h ₆ (mm)		3235			
	4-8	Seat height to SIP (4)	h ₇ (mm)		1903 689			
	4-12	Coupling height	h10 (mm)	7/0/	100/			
	4-19	Overall length	lı (mm)	7624	7806			
	4-20	Length to face of forks	l ₂ (mm)	5184	366			
	4-21	Overall width across drive tires	b ₂ (mm)	00 / 000 / 0/ / 0	200 / 0/ / 0			
	4-22	Fork dimensions ISO 2331	s/e/l (mm)	90 / 200 / 2440	200 / 2440			
	4-23	Carriage type		90mm std pin type		std pin type		
	4-24	Carriage width	b3 (mm)	2496		2540		
	4-25	Width over forks (min / max)	bs (mm)	534 / 2356		/ 2440		
	4-31	Ground clearance, lowest point	m1 (mm)	245		225		
	4-32	Ground clearance, center of wheelbase	m ₂ (mm)		341			
	4-33-1	Load size	w x l (mm)	00/0	2400 x 2400			
	4-34-1-1	Aisle width (a=10%)	Ast (mm)	9060		037		
	4-34-1-2	Aisle width (a=0)	Ast (mm)	8236		3215		
		Aisle width (a=200 mm)	Ast (mm)	8436		3415		
	4-33-2	Load size	w x l (mm)	1930 x 1830		-		
	4-34-2-1	Aisle width (a=10%)	Ast (mm)	8433		-		
		Aisle width (a=0)	Ast (mm)	7666		-		
		Aisle width (a=200 mm)	Ast (mm)	7866		-		
	4-35	Outside turning radius	Wa (mm)	4947		4874		
_	4-36	Internal turning radius (6)	b13 (mm)	1940		1803		
	5-1	Travel speed, with / without load**	km/h	0 / 2 / 0 / /	25	2/0//		
	5-2	Lifting speed, with / without load	m/s	0.42 / 0.44		9 / 0.46		
	5-2-1	Lifting speed, with 70% load	m/s	0.5/ / 0./ 0		0.44		
	5-3	Lowering speed with / without load	m/s	0.54 / 0.48		4 / 0.45	0	
	5-5	Drawbar pull - 1 mph (1.6 km/h), with / without load	kN	30 / 33	30 / 32	29 / 32	2	
	5-6	Drawbar pull - max, with / without load	kN	63 / 65		2 / 64		
	5-7	Gradeability - 1 mph (1.6 km/h), with / without load (5)	%	10 / 17		8 / 15		
	5-8	Gradeability - max, with / without load (5)	%			17 / 31	l	
	10-7	Sound pressure level at the driver's seat	dB (A)	69.6				

⁽¹⁾ Centre of drive axle to front face of forks.

All values are nominal values and they are subject to tolerances.

⁽²⁾ Unladen with new tyres.

⁽³⁾ Bottom of forks.

⁽⁴⁾ Full suspension seat in depressed position.

⁽⁵⁾ Gradeability figures are provided for comparison of tractive performance, but are not intended to endorse the operation of vehicle on the stated inclines.

⁽⁶⁾ Distance centre truck to centre of internal turning radius.

^{*}Truck models based on 1 pack battery and Standard pin CRG w/o fork positioning.

^{**}Travel speed laden/unladen limited at 25 km/h as factory default.

VD	2198	- GENERAL SPECIFICATIONS - ERP10	0-160DF/EF	SERIES					
	1-1	Manufacturer			Yale				
	1-2	Model designation		ERP160EFS12	ERP160E	F9	ERP160	EF12	
	1-3	Powertrain / drivetrain			Electri				
GENERAL	1-4	Operator type			Seated				
Ë	1-5	Load capacity at load center, nominal			16400				
9	1-6	Load center		1200	900		120	n	
	1-8	Load distance (1)		1200	941				
	1-9	Wheelbase		3500	/	37	750		
-	2-1	Service weight*	kg	23940	21307		2306	6	
표	2-2	Axle loading with load, front / rear**	kg	36929 3410	35044	2663	36386	3080	
WEIGHT	2-3	Axle loading without load, front / rear**	kg	10497 13442	10592	10714	10622	12443	
	3-1	Tire type	, r.g	10177 10112	Pneuma		10022	12110	
	3-2	Tire size, front			12.00 R				
L.S	3-3	Tire size, rear			12.00 R				
WHEELS	3-5	Number of tires, front / rear (X driven)			4X / 2				
>	3-6	Tread, front	b10 (mm)		1844				
	3-7	Tread, rear	b ₁₁ (mm)		2020				
	4-1	Mast tilt, forward / backward	0 / 0 (°)		6 / 10				
	4-1	Height, mast lowered (2)	h ₁ (mm)		4008				
	4-2	Freelift	h ₂ (mm)		-				
	4-4	Lift (3)	h ₃ (mm)		4494				
	4-5	Height, mast extended		6255					
	4-5	Height of overhead guard (open cab)	h4 (mm) h6 (mm)						
	4-7-1		h ₆ (mm)	3083					
	4-7-1	Height of overhead guard (closed cab) Height of overhead guard (closed cab w/ airco)		3110 3110					
	4-7-2	-	h ₆ (mm)	3205					
	4-7-4	Height of overhead guard (closed cab w/ strobe lights)	h ₆ (mm)						
	4-7-4	Height of overhead guard (closed cab w/ work lights)	h ₆ (mm)		3259				
		Height of overhead guard (closed cab w/ airco & strobe lights)			3235 1903				
	4-8 4-12	Seat height to SIP (4)	h ₇ (mm) h ₁₀ (mm)						
	4-12	Coupling height	lı (mm)	7823 689 8056					
v	4-19	Overall length Length to face of forks	l ₂ (mm)	5383 5616					
<u>8</u>	4-20	Overall width across drive tires	b ₂ (mm)	2541					
SNS	4-21	Fork dimensions ISO 2331	s/e/l (mm)			2440			
DIMENSIONS	4-22	Carriage type	S/e/t (IIIIII)	100 / 200 / 2440					
	4-24	Carriage width	b3 (mm)	100 mm std pin type					
	4-24	Width over forks (min / max)	bs (mm)	2540 470 / 2440					
	4-23	Ground clearance, lowest point	m ₁ (mm)		225	40			
	4-31	Ground clearance, center of wheelbase	m ₂ (mm)	341					
	4-32	Load size	w x l (mm)		2400 / 24	.00			
	4-34-1-1	Aisle width (a=10%)	Ast (mm)	9053	2400 / 24		379		
	4-34-1-2	Aisle width (a=0)	Ast (mm)	8230			526		
	4-34-1-2	Aisle width (a=200 mm)	Ast (mm)	8430			726		
	4-34-1-3	Load size	w x l (mm)	0430		07	20		
	4-34-2-1	Aisle width (a=10%)	Ast (mm)						
		Aisle width (a=0)	Ast (mm)		-				
		Aisle width (a=0) Aisle width (a=200 mm)	Ast (mm)		-				
	4-34-2-3	Outside turning radius	Wa (mm)	4889		E1	185		
	4-36	Internal turning radius (6)	b ₁₃ (mm)	4007	1803	31	199	6	
	5-1	Travel speed, with / without load***	km/h		25		177		
	5-1	Lifting speed, with / without load	m/s	0			0.39 / 0	1 4 4	
핑	5-2-1	Lifting speed, with 70% load	m/s	0.39 / 0.46				J. TT	
₹	5-3	Lowering speed with / without load	m/s						
PERFORMANCE	5-5	Drawbar pull - 1 mph (1.6 km/h), with / without load	kN	29 / 32	0.54 / 0.45 29 / 32 30 / 32			32	
Ä	5-6	Drawbar pull - max, with / without load	kN	61 / 64	62 / 65		29 / 3		
Н	5-6	Gradeability - 1 mph (1.6 km/h), with / without load (5)	%	7 / 14	8 / 16		8 / 1		
	5-8	Gradeability - max, with / without load (5)	76 %	16 / 28	17 / 32		16/3		
	10-7	Sound pressure level at the driver's seat	dB (A)	10 / 20	69.6		10/	00	
	10-7-1	Sound power level during the working cycle	dB (A)		98.1				
	10-7-1	Journa power tever during the working cycle	ub (A)		78.1				

⁽¹⁾ Centre of drive axle to front face of forks.

⁽²⁾ Unladen with new tyres.

⁽³⁾ Bottom of forks.

⁽⁴⁾ Full suspension seat in depressed position.

⁽⁵⁾ Gradeability figures are provided for comparison of tractive performance, but are not intended to endorse the operation of vehicle on the stated inclines.

⁽⁶⁾ Distance centre truck to centre of internal turning radius.

^{*}Truck models based on 1 pack battery and Standard pin CRG w/o fork positioning.

^{*}For ERP160EF12 with 4 battery packs, add 200 kg on front and 170 kg on rear.

^{**}For ERP160EF12 with 4 battery packs, add 370 kg on service weight.

^{***}Travel speed laden/unladen limited at 25 km/h as factory default.

VD	219	8 – GENERAL SPECIFICATIONS – ERP100-	-160	DF/EF S	ERIES					
	1-1	Manufacturer					Yale			
GENERAL	1-2	Model designation		ERP100DF, ERP120DF	ERP140EFS	ERP130EFS	ERP140EF12, ERP160EFS9, ERP160EFS12, ERP160EF	ERP120EF12, ERP160EF9	ERP130EF	ERP140EF, ERP160EF12
	1-3	Powertrain / drivetrain					Electric			
	6-1	Drive motor rating S2 60 min	kW				46			
1	6-2	Lift motor rating at S3 15%	kW	165						
	6-3	Battery according to DIN 43531/35/36 A, B, C		No						
<u>~</u>	6-4	Battery voltage/nominal capacity 1 Pack*	V / Ah				363 / 192			
MOTOR	6-4-1	Battery voltage/nominal capacity 2 Pack*	V / Ah	363 / 384						
	6-4-2	Battery voltage/nominal capacity 3 Pack	V / Ah		N/A			363	/ 576	
ELECTRIC	6-4-3	Battery voltage/nominal capacity 4 Pack**	V / Ah			N	/A			363 / 768
Ë	6-5	Battery weight 1 Pack*	kg	12	:00	729	1679	850	14	59
ᇳ	6-5-1	Battery weight 2 Pack*	kg		1237		1712	13	32	1492
	6-5-2	Battery weight 3 Pack	kg		N/A			17	54	
	6-5-3	Battery weight 4 Pack**	kg			N	/A			2296
	6-6	Energy consumption according to VDI cycle	kWh				-			

ب	1-1	Manufacturer		Ya	le			
GENERAL	1-2	Model designation		ERP100DF, ERP120DF	ERP140EFS, ERP130EFS, ERP140EF12, ERP160EFS9, ERP160EFS12, ERP160EF, ERP120EF12, ERP160EF9, ERP130EF, ERP140EF, ERP160EF12			
ß	1-3	Powertrain / drivetrain		Elec	tric			
	8-0	Drive control / transmission	Туре		-			
z	8-1	Type of drive unit	Type	AC EI	ectric			
₹	pe	Transmission manufacturer / type	Type	-				
Ē	8-2-1	Transmission speeds forward / backward			-			
€	8-4	Wheel drive / drive axle manufacturer / type	Туре	Kessler / D61	Kessler / D81			
-	8-11	Service brake	Type	Oil-immersed / wet disc				
	8-12	Parking brake	Туре	Dry disc or	n drive axle			
	10-1	Operating pressure for attachments	MPa	19	2.5			
œ	10-2	Oil volume for attachments	l/m	10	00			
OTHER	10-3	Hydraulic tank capacity	l	10)9			
6	10-5	Steering design	Type	Hydraulic po	wer steering			
	10-6	Number of steering rotations	#	ļ ,	5			

^{*}Battery slabs included if necessary.

^{**}Only available on ERP160EF12.

MAST DIME	MAST DIMENSIONS – 10-12T NOMINAL CAPACITY IN KG @ 600MM LOAD CENTRE												
Lift height	Overall Lowered	Overall Extended	Standard pin ty	pe carriage (kg)	Sideshift pin ty	pe carriage (kg)	QD DFSSFP carriage (kg)*						
TOF h₃+s (mm)	Height h1 (mm)	Height h4 (mm)	ERP100DF	ERP120DF	ERP100DF	ERP120DF	ERP100DF	ERP120DF					
				2-STAGE NFL MAST									
2750	2750 3010 4347 10,500 12,500 10,400 12,400 10,200 12,200												
3000	3135	4597	10,500	12,500	10,400	12,400	10,200	12,200					
3250	3260	4847	10,500	12,500	10,400	12,400	10,200	12,200					
3500	3385	5097	10,500	12,500	10,400	12,400	10,200	12,200					
3750	3510	5347	10,500	12,500	10,400	12,400	10,200	12,200					
4000	3635	5597	10,500	12,500	10,400	12,400	10,200	12,200					
4500	3885	6097	10,500	12,500	10,400	12,400	10,200	12,200					
4750	4010	6347	10,500	12,500	10,400	12,400	10,200	12,200					
5000	4135	6597	10,500	12,500	10,400	12,400	10,200	12,200					
5500	4385	7097	10,340	12,330	10,230	12,240	10,040	12,010					
6000	4635	7597	10,150	12,150	10,030	12,040							
6250	4760	7847	10,040	12,040	9930	11,930	Capacity will	vary based on					
6500	4885	8097	9940	11,930	9820	11,820	side shif	t and tilt					
7000	5135	8597	9710	11,690	9600	11,580							

Capacity calculated with 1220mm forks.

Note: addition of header hoses will add 16.5mm to OLH (h1) and OEH (h4).

		0-12T NOMI AGE WITH S	NAL CAPACITY IN KG @ 600MM LOA IDESHIFT	AD CENTRE								
Lift height												
TOF Height Height Herm) h₁ (mm) h4 (mm) ERP100DF ERP120DF												
			3-STAGE NFL MAST									
5500	3012	6880	9410	11,300								
6000	3178	7380	9250	11,130								
6500	6500 3345 7880 9050 10,920											
7000	3511	8380	8810	10,670								

Capacity calculated with 1220mm forks.

All values are nominal values and they are subject to tolerances.

^{*}DFSSFP QD carriage has 455mm sideshift. Smaller derate applicable with less backtilt.

MAST DIMENSIONS – 13-16T NOMINAL CAPACITY IN KG @ 600MM LOAD CENTRE / 12T NOMINAL CAPACITY IN KG @ 1200MM LOAD CENTRE WITH STANDARD PIN TYPE CARRIAGE

Lift height	Overall Lowered	Overall Extended			Standard pin ty	pe carriage (kg)		
TOF h₃+s (mm)	Height hı (mm)	Height h4 (mm)	ERP130EFS	ERP140EFS	ERP130EF	ERP140EF	ERP160EF	ERP120EF12
				2-STAGE NFL MAST				
2750	3068	4398	13,500	14,500	13,500	14,500	16,500	12,500
3000	3193	4648	13,500	14,500	13,500	14,500	16,500	12,500
3250	3318	4898	13,500	14,500	13,500	14,500	16,500	12,500
3500	3443	5148	13,500	14,500	13,500	14,500	16,500	12,500
3750	3568	5398	13,500	14,500	13,500	14,500	16,500	12,500
4000	3693	5648	13,500	14,500	13,500	14,500	16,500	12,500
4500	3943	6148	13,500	14,500	13,500	14,500	16,500	12,500
4750	4068	6398	13,500	14,500	13,500	14,500	16,500	12,500
5000	4193	6648	13,500	14,500	13,500	14,500	16,500	12,500
5500	4443	7148	13,340	14,340	13,340	14,330	16,320	12,360
6000	4693	7648	13,140	14,170	13,120	14,150	16,130	12,220
6250	4818	7898	13,030	14,070	13,010	14,060	16,020	12,150
6500	4943	8148	12,920	13,980	12,890	13,960	15,900	12,070
7000	5193	8648	12,670	13,780	12,640	13,750	15,620	11,900

 $Capacity\ calculated\ with\ 1830 mm\ forks\ for\ 600\ mm\ LC\ models\ and\ 2440 mm\ forks\ for\ 1200 mm\ LC\ models.$

Capacity calculated with bias tyres, radial tyres will give a higher derate for DFSSFP carriage above 5000mm LH.

Note: addition of header hoses will add 16.5mm to OLH (h₁) and OEH (h₄).

MAST DIMENSIONS – 13-16T NOMINAL CAPACITY IN KG @ 600MM LOAD CENTRE / 12T NOMINAL CAPACITY IN KG @ 1200MM LOAD CENTRE WITH PIN TYPE CARRIAGE WITH SIDESHIFT

SALASIT III NO @ 1230MM ESAS SELITIRE WITH THE CARRIAGE WITH SISESTILL T									
Lift height	Overall Lowered	Overall Extended			Sideshift pin ty	pe carriage (kg)			
TOF h₃+s (mm)	Height hı (mm)	Height h4 (mm)	ERP130EFS	ERP140EFS	ERP130EF	ERP140EF	ERP160EF	ERP120EF12	
				2-STAGE NFL MAST					
2750	3068	4398	13,400	14,500	13,400	14,500	16,400	12,400	
3000	3193	4648	13,400	14,500	13,400	14,500	16,400	12,400	
3250	3318	4898	13,400	14,500	13,400	14,500	16,400	12,400	
3500	3443	5148	13,400	14,500	13,400	14,500	16,400	12,400	
3750	3568	5398	13,400	14,500	13,400	14,500	16,400	12,400	
4000	3693	5648	13,400	14,500	13,400	14,500	16,400	12,400	
4500	3943	6148	13,400	14,500	13,400	14,500	16,400	12,400	
4750	4068	6398	13,400	14,500	13,400	14,500	16,400	12,400	
5000	4193	6648	13,400	14,500	13,400	14,500	16,400	12,400	
5500	4443	7148	13,180	14,340	13,180	14,330	16,220	12,360	
6000	4693	7648	12,980	14,170	12,960	14,150	15,990	12,220	
6250	4818	7898	12,870	14,070	12,850	14,060	15,860	12,150	
6500	4943	8148	12,760	13,980	12,740	13,960	15,740	12,050	
7000	5193	8648	12,520	13,780	12,480	13,750	15,470	11,850	

 $Capacity\ calculated\ with\ 1830mm\ forks\ for\ 600\ mm\ LC\ models\ and\ 2440mm\ forks\ for\ 1200mm\ LC\ models.$

 $Capacity\ calculated\ with\ bias\ tyres,\ radial\ tyres\ will\ give\ a\ higher\ derate\ for\ DFSSFP\ carriage\ above\ 5000mm\ LH.$

Note: addition of header hoses will add 16.5mm to 0LH (h₁) and 0EH (h₄).

MAST DIMENSIONS – 13-16T NOMINAL CAPACITY IN KG @ 600MM LOAD CENTRE / 12T NOMINAL CAPACITY IN KG @ 1200MM LOAD CENTRE WITH PIN TYPE CARRIAGE WITH SIDESHIFT

			JEHTIKE WI	IH PIN TYPE		carriage (kg)*	J. 1111 1			
Lift height TOF h₃+s (mm)	Overall Lowered Height h1 (mm)	Overall Extended Height h4 (mm)	ERP130EFS	ERP140EFS	ERP130EF	ERP140EF	ERP160EF	ERP120EF12		
				2-STAGE NFL MAST						
2750	3068	4398	13,100	14,400	13,100	14,400	16,100	12,000		
3000	3193	4648	13,100	14,400	13,100	14,400	16,100	12,000		
3250	3318	4898	13,100	14,400	13,100	14,400	16,100	12,000		
3500	3443	5148	13,100	14,400	13,100	14,400	16,100	12,000		
3750	3568	5398	13,100	14,400	13,100	14,400	16,100	12,000		
4000	3693	5648	13,100	14,400	13,100	14,400	16,100	12,000		
4500	3943	6148	13,100	14,400	13,100	14,400	16,100	12,000		
4750	4068	6398	13,100	14,400	13,100	14,400	16,100	12,000		
5000	4193	6648	13,100	14,400	13,100	14,400	16,100	12,000		
5500	4443	7148	12,860	13,100	12,890	14,050	14,520	12,000		
6000	4693	7648								
6250	4818	7898	Capacity will vary based on side shift and tilt							
6500	4943	8148								
7000	5193	8648								

 $Capacity\ calculated\ with\ 1830mm\ forks\ for\ 600\ mm\ LC\ models\ and\ 2440mm\ forks\ for\ 1200mm\ LC\ models.$

*DFSSFP QD carriage has 480mm sideshift. Smaller derate applicable with less backtilt.

 $Capacity\ calculated\ with\ bias\ tyres,\ radial\ tyres\ will\ give\ a\ higher\ derate\ for\ DFSSFP\ carriage\ above\ 5000mm\ LH$

Note: addition of header hoses will add 16.5mm to 0LH (h₁) and 0EH (h₄).

MAST DIMENSIONS – 13-16T NOMINAL CAPACITY IN KG @ 600MM LOAD CENTRE / 12T NOMINAL CAPACITY IN KG @ 1200MM LOAD CENTRE WITH PIN TYPE CARRIAGE WITH SIDESHIFT

Lift height	Overall Lowered	Overall Extended	ended		Sideshift pin type carriage (kg)						
TOF h₃+s (mm)	Height hı (mm)	Height h4 (mm)	ERP130EFS	ERP140EFS	ERP130EF	ERP140EF	ERP160EF	ERP120EF12			
	3-STAGE NFL MAST										
4500	3103	6180	12,010	12,900	12,010	12,900	14,720	11,440			
5000	3269	6680	11,960	12,840	11,960	12,840	14,670	11,400			
6000	3602	7680	11,590	12,470	11,580	12,460	14,260	11,090			
7000	3935	8680	11,130	11,990	11,000	11,970	13,750	10,700			

Capacity calculated with 1830mm forks.

MAST DIMENSIONS – 16T NOMINAL CAPACITY IN KG @ 600MM / @ 900MM / @ 1200MM LOAD CENTRE WITH STANDARD PIN TYPE CARRIAGE

Lift height	Overall Lowered	Overall Extended	Standard pin type carriage (kg)					
TOF h₃+s (mm)	Height hı (mm)	Height h4 (mm)	ERP140EF12	ERP160EFS9	ERP160EFS12	ERP160EF9	ERP160EF12	
	2-STAGE NFL MAST							
3984	3703	5645	14,500	16,400	16,000	16,400	16,000	
4594	4008	6255	14,500	16,400	16,000	16,400	16,000	
5406	4414	7067	14,500	16,400	16,000	16,400	16,000	
6219	4821	7880	14,260	16,120	16,000	16,100	16,000	

Capacity calculated with 2440mm forks.

Capacity calculated with bias tyres, radial tyres will give a higher derate for DFSSFP carriage above 5000mm LH.

Note: addition of header hoses will add 16.5mm to OLH (h₁) and OEH (h₄).

Load limited to 16T@1200 due to fork moment limit.

MAST DIMENSIONS – 16T NOMINAL CAPACITY IN KG @ 600MM / @ 900MM / @ 1200MM LOAD CENTRE WITH PIN TYPE CARRIAGE WITH SIDESHIFT

	THE CAUTAL CONTINUES OF THE CONTINUES OF								
Lift height TOF h₃+s (mm)	Overall Lowered Height hı (mm)	Overall Extended Height h4 (mm)	Sideshift pin type carriage (kg)						
			ERP140EF12	ERP160EFS9	ERP160EFS12	ERP160EF9	ERP160EF12		
			2-S	TAGE NFL MAST					
3984	3703	5645	14,500	16,000	16,000	16,000	16,000		
4594	4008	6255	14,500	16,000	16,000	16,000	16,000		
5406	4414	7067	14,500	16,000	16,000	16,000	16,000		
6219	4821	7880	14,200	15,900	15,940	15,890	15,890		

Capacity calculated with 2440mm forks.

Capacity calculated with bias tyres, radial tyres will give a higher derate for DFSSFP carriage above 5000mm LH.

Note: addition of header hoses will add 16.5mm to 0LH (h₁) and 0EH (h₄).

Load limited to 16T@1200 due to fork moment limit.

MAST DIMENSIONS – 16T NOMINAL CAPACITY IN KG @ 900MM LOAD CENTRE / @ 1200MM LOAD CENTRE WITH QUICK DISCONNECT CARRIAGE

Lift height	Overall Lowered Height h1 (mm)	Overall Extended Height h4 (mm)	QD DFSSFP carriage (kg)*					
TOF h₃+s (mm)			ERP140EF12	ERP160EFS9	ERP160EFS12	ERP160EF9	ERP160EF12	
			2-S	TAGE NFL MAST				
3984	3703	5645	14,000	16,000	16,000	16,000	16,000	
4594	4008	6255	14,000	16,000	16,000	16,000	16,000	
5406	4414	7067	14,000	15,690	15,150	15,780	15,340	
6219	4821	7880	Capacity will vary bases on side shift and tilt					

Capacity calculated with 2440mm forks.

*DFSSFP QD carriage has 468mm sideshift. Smaller derate applicable with less backtilt.

 $Capacity\ calculated\ with\ bias\ tyres, radial\ tyres\ will\ give\ a\ higher\ derate\ for\ DFSSFP\ carriage\ above\ 5000mm\ LH.$

Note: addition of header hoses will add 16.5mm to OLH (h1) and OEH (h4).

Load limited to 16T@1200 due to fork moment limit.

MAST DIMENSIONS – 16T NOMINAL CAPACITY IN KG @ 900MM LOAD CENTRE / @ 1200MM LOAD CENTRE WITH QUICK DISCONNECT CARRIAGE

DELITINE WITH GOIGH BISCOMMEST SAMMANDE								
Lift height	Overall Lowered	Overall Extended	QD DFSSFP carriage (kg)*					
T0F h₃+s (mm)	Height h1 (mm)	Height h4 (mm)	ERP140EF12	ERP160EFS9	ERP160EFS12	ERP160EF9	ERP160EF12	
			2-S	TAGE NFL MAST				
3984	3703	5645	14,500	16,000	16,000	16,000	16,000	
4594	4008	6255	14,500	16,000	16,000	16,000	16,000	
5406	4414	7067	14,500	15,820	15,300	15,940	15,510	
6219	4821	7880	Capacity will vary bases on side shift and tilt					

Capacity calculated with 2440mm forks.

*DFSSFP QD carriage has 468mm sideshift. Smaller derate applicable with less backtilt.

Capacity calculated with bias tyres, radial tyres will give a higher derate for DFSSFP carriage above 5000mm LH.

Note: addition of header hoses will add 16.5mm to 0LH (h₁) and 0EH (h₄).

Load limited to 16T@1200 due to fork moment limit.

FEATURES LIST – ERP100-160DF/EF SERIES

PERFORMANCE \$10 OPT Integrated high totage (350°) Li-lon battery		LKILS	
Drive Motor 108kW Peak	PERFORMANCE	STD	OPT
Lift Motor 1664W Peak 111cc Dual pump hydraulic system 1 battery pack 2 battery packs 3 battery packs 3 battery packs 4 battery packs 5 beattery packs 4 battery packs 5 beattery packs 5 beattery packs 6 beattery packs 7 beattery packs 8 beattery packs 9 beattery packs 9 beattery packs 1 beattery packet 1 beattery packs 1 beattery packs 1 beattery packs 1 beattery packet 1 beattery pac	Integrated high voltage (350V) Li-Ion battery	•	
Tible Dual pump hydraulic system 1 battery packs 2 battery packs 3 battery packs 4 battery packs 5 combined Charging System 1 (CCS1) 6 combined Charging System 2 (CCS2) Per formance levels Kessler drive axis with wet brakes DINVE STOP Travel Speed Limiter – unconditional and customer adjustable Travel Speed Limiter – based on load weight (adjustable) Travel Speed Limiter – based on load weight (adjustable) Travel Speed Limiter – based on load weight (adjustable) Travel Speed Limiter – based on load weight (adjustable) Travel Speed Limiter – based on load weight (adjustable) Travel Speed Limiter – based on load weight (adjustable) Travel Speed Limiter – based on load weight (adjustable) Travel Speed Limiter – based on load weight (adjustable) Travel Speed Limiter – based on load weight (adjustable) Travel Speed Limiter – unconditional and customer adjustable) Travel Speed Limiter – unconditional and customer adjustable (adjustable) Travel Speed Limiter – unconditional and screens) Travel Speed Limiter – unconditional and screens) Travel Speed Limiter – unconditional and screens (adjustable) Travel Speed Limiter (adj	Drive Motor 108kW Peak	•	
1 battery pack 2 battery packs 4 battery packs 5 6 miles of the pack 5 miles of the pa	Lift Motor 166kW Peak	•	
2 battery packs 3 battery packs 4 battery packs 4 battery packs 4 battery packs Combined Charging System 1 (CCS1) Combined Charging System 2 (CCS2) Performance levels Kessler drive axle with wet brakes DRIVE Travel Speed Limiter – unconditional and customer adjustable Travel Speed Limiter – based on load weight (adjustable) Travel Speed Limiter – based on load weight (adjustable) On-demand load depending hydraulic system Hydraulic Accumulator Pressure compensated lowering Hydraulic System Temperature Protection Mast litt indicator – mechanical BRIGONOMICS Open operator compartment (without doors and screens) Enclosed operator compartment for service Manual tilt operator compartment for service Isolated cabin mounting for low noise and vibration Operator presence system Mechanical suspension seat Additional armest on left side Cloth seat cover Viruly seat cover Satt heating Seat ventilation 2-point high visibility seatbelt Lateral seat sliding mechanism Floor mat Coat hook Front, top and rear wipers with individual controlled washers Front, top and rear wipers with individual controlled washers Front, top and rear wipers with individual controlled washers Front, top and rear wipers with individual controlled washers Front, top and rear wipers with individual controlled washers Front, top and rear wipers with individual controlled washers Front, top and rear wipers with individual controlled washers Front, top and rear wipers with individual controlled washers Front, top and rear wipers with individual controlled washers Front, top and rear wipers with individual controlled washers Front, top and rear wipers with individual controlled washers Front, top and rear wipers with individual controlled washers Front, top and rear wipers with individual controlled washers Front, top and rear wipers with individual controlled washers Front, top and rear wipers with individual controlled washers Front, top and rear wipers with individual controlled washers Front, top and rear wipers with individual controlled washers Fron	111cc Dual pump hydraulic system	•	
3 battery packs 4 battery packs 4 battery packs 5 combined Charping System 1 (CCS1) 6 combined Charping System 2 (CCS2) 9 combined Charping System 3 combined System 4 combined System 6 combine	1 battery pack		•
4 battery packs* Combined Charging System 1 (CCS1) Combined Charging System 2 (CCS2) Performance levels Kessler drive axle with wet brakes DRIVE Travel Speed Limiter – unconditional and customer adjustable Travel Speed Limiter – based on load weight (adjustable) Travel Speed Limiter – based on load weight (adjustable) LIFT On-demand load depending hydraulic system Hydraulic System Temperature Protection Mast tilt indicator – mechanical ERGONOMICS Open operator compartment (without doors and screens) Enclosed operator cabin Powered tilt operator compartment for service Manual tilt operator compartment for service Manual tilt operator compartment for service Manual tilt operator compartment for service Solated cabin mounting for low noise and vibration Operator presence system Mechanical suspension seat Air suspension seat Air suspension seat High backrest seat High backrest seat Additional 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 with individual controlled washers H'f – pattern front wiper (Enclosed operator cabin) Top window with armoured glass (Enclosed operator cabin) Top window with armoured glass (Enclosed operator cabin) Timed operator compartment top window Wire mesh installed on top of operator cabin) Tinted operator compartment windows (all) Tinted operator compartment top window Wire mesh installed on top of operator cabin) Tinted operator compartment top window Wire mesh installed on top of operator cabin) Tinted operator compartment top window Wire mesh installed on top of operator cabin) Tinted operator compartment top window Wire mesh installed on top of operator compartment Joystick hydraulic control litegrated in control arm Joystick hydraulic control loregrated in control arm Joystick hydraulic contr	2 battery packs	•	
Combined Charging System 1 (CCS1) • Combined Charging System 2 (CCS2) • Performance levels • Kessler drive axle with wet brakes • DRIVE STD OPT Travel Speed Limiter – unconditional and customer adjustable • • Travel Speed Limiter – based on load weight (adjustable) • • UFT STD OPT On-demand load depending hydraulic system • • Hydraulic System Temperature Protection • • Mast tilt indicator – mechanical • • Erclosed operator compartment (without doors and screens) • • Enclosed operator cabin • • Powered tilt operator compartment for service • • Manual till operator compartment for service • • Bolated cabin mounting for low noise and vibration • <td< td=""><td>3 battery packs</td><td></td><td>•</td></td<>	3 battery packs		•
Combined Charging System 2 (CCS2) • • • • • • • • • • • • • • • • • • •	4 battery packs*		•
Performance levels Kessler drive axle with wet brakes DRIVE STAVE SPEED Limiter – unconditional and customer adjustable Travel Speed Limiter – based on load weight (adjustable) LIFT On-demand load depending hydraulic system Hydraulic Accumulator Pressure compensated lowering Hydraulic System Temperature Protection Mast litit indicator – mechanical ERGONOMICS STO OPT Open operator compartment (without doors and screens) Enclosed operator cabin Powered liti operator compartment for service Isolated cabin mounting for low noise and vibration Operator presence system Mechanical suspension seat Air suspension seat High backrest seat High backrest seat High backrest seat High backrest seat Additional armest on left side Cloth seat cover Viryl seat cover Seat healting Seat ventilation 2-point high visibility seatbelt Lateral seat sliding mechanism Floor mat Coat hook Front, top and rear wipers with individual controlled washers H" – pattern front wiper (Enclosed operator cabin) Tinted operator compartment top window Plexiglass shield in front of front window Wire mesh installed on top of operator compartment Operator shield wire mesh Tinted operator compartment top window Plexiglass shield in front of front window Wire mesh installed on top of operator compartment Operator shield wire mesh Telescoping whele with spinner knob Directional control lever Foot Directional control lever Foot Directional control of Mini-levers or Joystick Park brake – automatic Heater with adjustable pade of a (inclosed operator cabin) Telescoping and tilting steering column USB outlet inside armers	Combined Charging System 1 (CCS1)		•
Ressler drive axle with wet brakes DRIVE Travel Speed Limiter – unconditional and customer adjustable Travel Speed Limiter – based on load weight (adjustable) Lift On-demand load depending hydraulic system Hydraulic Accumulator Pressure compensated lowering Hydraulic System Temperature Protection Mast tilt indicator – mechanical ERGONOMICS STD Open operator compartment (without doors and screens) Enclosed operator cabin Powered tilt operator compartment for service Manual tilt operator compartment for service Solated cabin mounting for low noise and vibration Operator presence system Mechanical suspension seat Air suspension seat Deluxe air suspension seat High backrest seat High backrest seat Additional 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 with individual controlled washers H" – pattern front wiper (Enclosed operator cabin) Tinted operator compartment top window Wire mesh installed on top of operator cabino Tinted operator compartment top window Wire mesh installed on top of operator cabino Steet bars under amoured glass top window (enclosed operator cabin) Tinted operator compartment window Wire mesh installed on top of operator compartment Operator presence siplay Accutouch mini levers hydraulic control integrated in control arm Joystick h	Combined Charging System 2 (CCS2)	•	
DRIVE Speed Limiter – unconditional and customer adjustable Travel Speed Limiter – unconditional and customer adjustable Travel Speed Limiter – based on load weight (adjustable) STO OPT On-demand load depending hydraulic system Hydraulic Accumulator Pressure compensated lowering Hydraulic System Temperature Protection Mast tilt indicator – mechanical Protection Mast tilt indicator – mechanical STO OPT One operator compartment (without doors and screens) STO OPT One operator compartment for service STO OPT Manual tilt operator compartment for service STO OPT Solated cabin mounting for low noise and vibration Operator presence system Mechanical suspension seat STO OPT Mechanical suspension seat STO OPT Delive air suspension seat STO OPT Del	Performance levels	•	
Travel Speed Limiter – unconditional and customer adjustable Travel Speed Limiter – based on load weight (adjustable) List On-demand load depending hydraulic system Hydraulic Accumulator Pressure compensated lowering Hydraulic System Temperature Protection Mast tilt indicator – mechanical ERGONOMICS Open operator compartment (without doors and screens) ERGONOMICS Sto Open operator compartment for service Manual tilt operator compartment for service Isolated cabin mounting for low noise and vibration Operator presence system Mechanical suspension seat Air suspension seat Low backrest seat High backrest seat High backrest seat High backrest seat Additional 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 with individual controlled washers H' – pattern front wiper (Enclosed operator cabin) T' – pattern front wiper (Enclosed operator cabin) Tinted operator compartment top window (enclosed operator cabin) Tinted operator compartment windows (all) Tinted operator compartment windows (all) Tinted operator compartment unique (all) Tinted operator compartment top window Wire mesh installed on top of operator compartment Operator shield wire mesh T' Integrated performance display Accutouch mini levers hydraulic control later and integrated in control arm Joystick hydraulic control integrated in control arm Joystick hydraulic control integrated in control arm Joystick hydraulic control lever Foot Directional control lever Foot Direct	Kessler drive axle with wet brakes	•	
Travel Speed Limiter – based on load weight (adjustable) LIFT On-demand load depending hydraulic system Hydraulic Accumulator Pressure compensated lowering Hydraulic System Temperature Protection Mast tilt indicator – mechanical ERGONOMICS Open operator compartment (without doors and screens) Enclosed operator cabin Powered tilt operator compartment for service Manual tilt operator operator service Manual tilt operator operato	DRIVE	STD	OPT
LIFT On-demand load depending hydraulic system Hydraulic Accumulator Pressure compensated lowering Hydraulic System Temperature Protection Mast tilt indicator – mechanical ERGONMICS STD OPT Open operator compartment (without doors and screens) ERCONMICS Open operator cabin Powered tilt operator compartment for service Manual tilt operator set set sold to service with the service with the service with the service with adjustable speed fan (enclosed operator cabin) Telescoping and tilting steering column USB outlet inside armrest USB outlet inside armrest	Travel Speed Limiter – unconditional and customer adjustable		•
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ERGONOMICS STD OPT Open operator compartment (without doors and screens) • Enclosed operator cabin • Powered tilt operator compartment for service • Manual tilt operator compartment for service • Mechanical suspension seat • Low backrest seat • High backrest seat • High backrest seat • High backrest seat • High backrest seat • Additional armest on left side • Cloth seat cover • Vinyl seat cover • Seat ventillation •	Hydraulic System Temperature Protection		•
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Steering wheel with spinner knob Directional control lever Foot Directional Control (FDC) Directional control on Mini-levers or Joystick Park brake - automatic Heater with adjustable speed fan (enclosed operator cabin) Telescoping and tilting steering column USB outlet inside armrest	•	•	
Directional control lever Foot Directional Control (FDC) Directional control on Mini-levers or Joystick Park brake - automatic Heater with adjustable speed fan (enclosed operator cabin) Telescoping and tilting steering column USB outlet inside armrest			•
Foot Directional Control (FDC) Directional control on Mini-levers or Joystick Park brake - automatic Heater with adjustable speed fan (enclosed operator cabin) Telescoping and tilting steering column USB outlet inside armrest	-	•	
Directional control on Mini-levers or Joystick Park brake - automatic Heater with adjustable speed fan (enclosed operator cabin) Telescoping and tilting steering column USB outlet inside armrest		•	
Park brake - automatic Heater with adjustable speed fan (enclosed operator cabin) Telescoping and tilting steering column USB outlet inside armrest			
Heater with adjustable speed fan (enclosed operator cabin) Telescoping and tilting steering column USB outlet inside armrest	·		•
Telescoping and tilting steering column USB outlet inside armrest			
USB outlet inside armrest		•	
		•	
24-12 DC converter with 2 sockets and 2 USB outlets		•	
	24-12 DC converter with 2 sockets and 2 USB outlets		•
Automatic climate control	Automatic climate control		•

ERGONOMICS (CONTINUED)	STD	OPT
Reading light		•
Sun shades on top and rear		•
Sun visors front window		•
Trainer seat		•
Recirculation fan		•
Accessory mounting bar on cab front right pillar		•
Document holder on cab front right pillar		•
Heated top- and/or rear window		•
Radio preparation set-up (wiring, two speakers and antenna)		•
Bluetooth radio with 2 speakers and antenna		•
VISIBILITY	STD	OPT
Exterior mirrors mounted to cab		•
Interior wide angle mirrors	•	
Rear view camera system**		•
Radar object detection system		•
LED work lights	•	
High Performance LED work lights		•
Two head lights mounted on front fenders		•
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 and marker lights (LED)	•	
OPERATION	STD	OPT
Air horn 112 dBA		•
Electric horn 105 dBA	•	
Visible alarm – Amber strobe light, key switch activated		•
Audible alarm – reverse direction activated 82–102 dB(A),		
self-adjusting		
Audible alarm – reverse direction white noise		•
Forward / reverse motion alarm		•
Blue LED spotlight – rear / front and rear		•
Tyre pressure monitoring system		•
Air-conditioning or automatic climate control off with open door		•
Automatic truck shutdown with timer		•
Lockable battery disconnect switch		•
Battery jump start connector (NATO plug)		•
Truck Start with key switch and start button	•	
Operator password (display) for truck start		•
Seatbelt interlock for truck start		•
Power distribution group with fuses	•	
Fuses partially replaced by electric circuit breakers		•
Yale Vision Wireless Monitoring (Level 1)	•	
Yale Vision Wireless Access (Level 2)		•
Yale Vision Wireless Verification (Level 3)		•
Auto greasing system for basic truck and outer mast		•
24 volt electrical system	•	
Steer wheel lug nut protection		•
Front mud flaps		•
Rear mud flaps		•
Lifting eyes – 2 front and 2 rear		•
APPEARANCE	STD	OPT
Yale Gold paint base truck	•	
Special paint base truck		•
Operator compartment special paint		•
Hazard warning striping on counterweight		•
SUPPLEMENTAL	STD	OPT
Literature package	•	
Operator's manual	•	
ae		•
CE certification		
Warranty: 24 Months / 4,000 Hours Parts manufacturer's warranty,		
	•	

^{*}Only available on ERP160EF12.

^{**}Standard with raised hood spine.

^{***}Please see full Warranty Statement for additional details.

FEATURES LIST – ERP100-160DF/EF SERIES

ERP100DF / ERP120DF		
DRIVE	STD	OPT
10.00 – 20 16PR Pneumatic Bias Ply drive and steer tyres	•	
10.00 – R20 Radial Michelin XZM drive and steer tyres		•
10.00 – R20 Radial Trelleborg drive and steer tyres		•
10.00 – 20 Pneumatic Shaped Solid drive and steer tyres		•
Spare wheels and tyres		•
LIFT	STD	OPT
2 stage Non Free Lift 12t mast	•	
2 Stage Full Free Lift 12t mast (can be used on lower capacity models)		•
3 Stage Full Free Lift 12t mast (can be used on lower capacity models)		•
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		•
HANDLING	STD	ОРТ
2400mm (94.3") Pin type standard carriage	•	
2400mm (94.3°) Pin type carriage with simultaneous and independent fork positioner		•
2400mm (94.3") Pin type integral sideshift carriage		•
2400mm (94.3°) Pin type integral sideshift carriage with simultaneous fork positioner		•
2400mm (94.3°) Pin type integral sideshift carriage with simultaneous and independent fork positioner		•
2400mm (94.5") QD Hook type dual function sideshift carriage with simultaneous and independent fork positioner		•
2400mm (94.4°) QD Hook type dual function sideshift carriage with simultaneous fork positioner and 2 auxiliary functions		•
2500mm (98") High load backrest (for lumber applications)		•
1760mm (69") High load backrest		•
2010mm (79") High load backrest		•
Pin type forks (various sizes)		•
Pin type forks for lumber applications		•
Hook type quick disconnect DFSSFP forks (various sizes)		•
ERP130EFS / ERP130EF / ERP140EFS ERP140EF / ERP160EF / ERP120EF12		
DRIVE	STD	OPT
10.00 – 20 20PR Trelleborg Pneumatic Bias Ply drive and steer tyres	•	
10.00 – R20 Michelin XZM Radial drive and steer tyres		•
10.00 – R20 Trelleborg Radial drive and steer tyres		•
10.00 – 20 Pneumatic Shaped Solid drive and steer tyres		•
Spare wheels and tyres		•
LIFT	STD	OPT
2 stage Non Free Lift 16T mast	•	
2 Stage Full Free Lift 16T mast		•
3 Stage Full Free Lift 16T mast		•
Mast tilt – 5° forward / 6° back		•
Mast tilt – 5° forward / 12° back		•
14.00		

Mast tilt – 15° forward / 10° back Mast tilt – 15° forward / 12° back Mast tilt – 20.5° forward / 7° back

HANDLING	STD	OPT
2400mm (94.3") Pin type standard carriage	•	
2400mm (94.3") Pin type carriage with simultaneous and independent fork positioner		•
2400mm (94.3") Pin type integral sideshift carriage		•
2400mm (94.3") Pin type integral sideshift carriage with simultaneous fork positioner		•
2400mm (94.3°) Pin type integral sideshift carriage with simultaneous and independent fork positioner		•
2400mm (94.5") QD Hook type dual function sideshift carriage with simultaneous and independent fork positioner		•
2400mm (94.4") QD Hook type dual function sideshift carriage with simultaneous fork positioner and 2 auxiliary functions		•
2500mm (98") High load backrest (for lumber applications)		•
1760mm (69") High load backrest		•
2010mm (79") High load backrest		•
Pin type forks (various sizes)		•
Pin type forks for lumber applications		•
Hook type quick disconnect DFSSFP forks (various sizes)		•
ERP140EF12 / ERP160EFS9 / ERP160E	F9 /	
ERP160EFS12 / ERP160EF12		
DRIVE	STD	OPT
10.00 – 20 20 Pneumatic Bias Drive tyres	•	
10.00 – R20 Michelin XZM Radial drive and steer tyres		•
LIFT	STD	OPT
2 stage Non Free Lift 18T mast	•	
2 Stage Full Free Lift 18T mast		•
3 Stage Full Free Lift 18T mast		•
Mast tilt – 6° forward / 10° back	•	
Mast tilt – 10.5° forward / 12° back		•
Mast tilt – 15° forward / 10° back		•
HANDLING	STD	OPT
2540mm (100") Pin type carriage with mechanical fork locks		•
2540mm (100") Pin type carriage with individual fork positioner		•
2540mm (100") Pin type apron-style sideshift carriage		•
2540mm (100°) Pin type apron-style sideshift carriage with individual fork positioner		•
2540mm (100") Dual function sideshift carriage with individual fork positioner with integral forks	•	
2540mm (100°) Hook type dual function sideshift carriage with individual fork positioner with Quick Disconnect forks		•
Simultaneous fork positioning		•
2440mm (96") length pin type forks		•
2440mm (96") length hook type forks		•
2440mm (96") length integral forks	•	

All values are nominal values and they are subject to tolerances.



About Yale®

Yale Lift Truck Technologies is one of the oldest manufacturers of lift trucks in the world. We've been in the business of lifting since 1875 and we apply that experience to help customers solve materials handling challenges. Our full line of lift trucks range in capacity from 1 to 16 tonne and are powered by internal combustion engines or electric options. Yale also offers robotic solutions, telemetry, fleet management, parts, financing and training. From traditional lift truck equipment to emerging technologies, our goal, every day, is to work with our nationwide dealer network to continually improve and provide the solutions you need, when and how you need them.

MATERIALS HANDLING FOR:

3PL

Auto Parts

Beverage

Cold & Frozen Foods

Food Distribution

Food Processing

Furniture & Furnishings

Health & Pharma

Home Centres

Retail

E-Commerce

Yale Lift Truck Technologies

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www.yale.com





Safety: All Yale products sold into EU countries, UK, and Turkey conform to the EU requirements of Machinery Directive 2006/42/EC and contain € € marking. Yale trucks sold into other countries may be ordered for production in conformance with Machinery Directive requirements, and when so ordered will contain € € marking.

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Notice: Care must be exercised when handling elevated loads. Operators must be trained and must read, understand and follow the instructions contained in the Operating Manual. Consult your Yale® Dealer if any of the information shown is critical to your application.

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