



# ERP100-160DF-EF

SPEC SHEET

10,000 - 16,000 kg

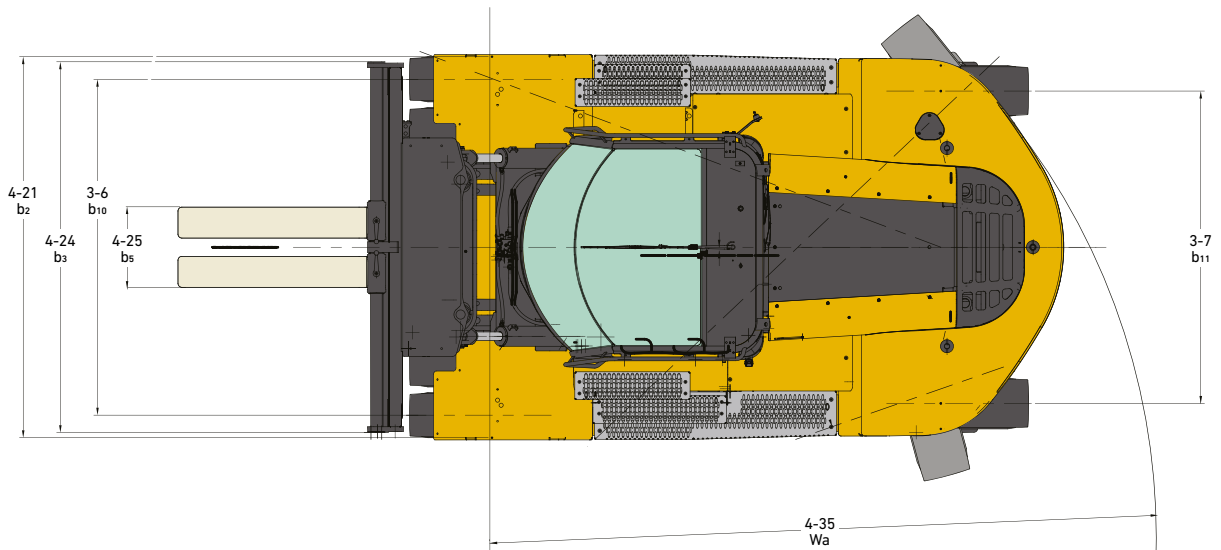
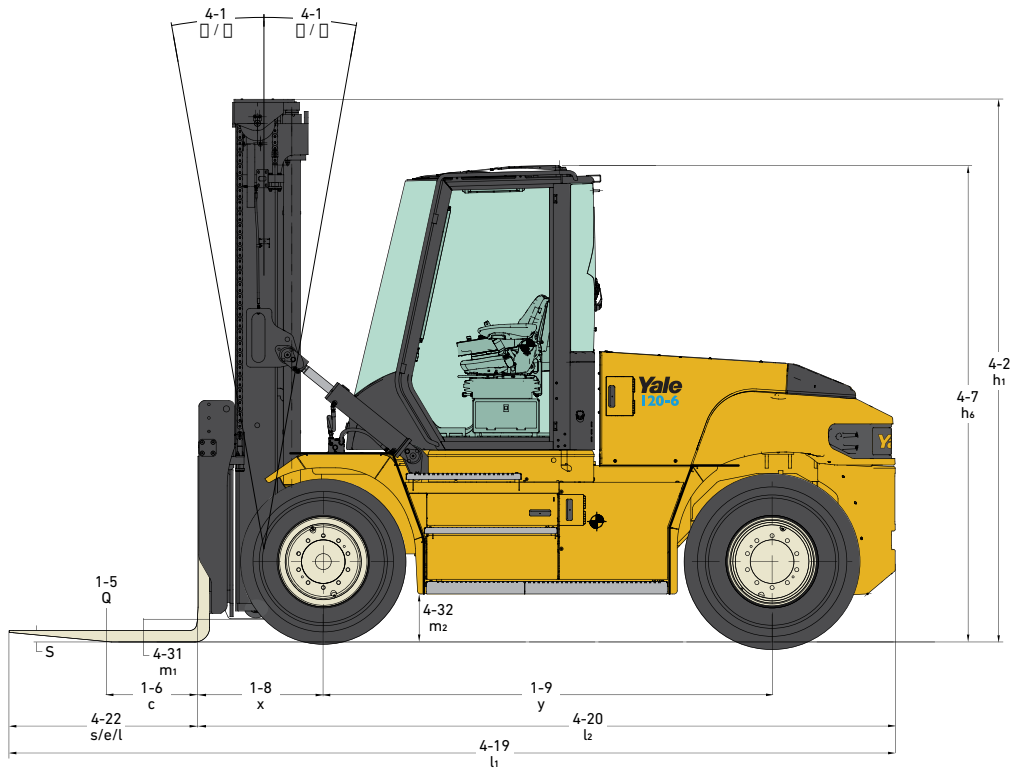
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DF-EF Series

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Electric Heavy Duty  
Forklift Trucks

**TRUCK DIMENSIONS – ERP100-160DF/EF SERIES**



## VDI 2198 – GENERAL SPECIFICATIONS – ERP100-160DF/EF SERIES

GENERAL			Yale									
			ERP100DF		ERP120DF		ERP130EFS		ERP140EFS			
1-1	Manufacturer											
1-2	Model designation											
1-3	Powertrain / drivetrain		Electric									
1-4	Operator type		Seated									
1-5	Load capacity at load center, nominal		10500		12500		13500		14500			
1-6	Load center		600									
1-8	Load distance <sup>(1)</sup>		809									
1-9	Wheelbase		2900									
WEIGHT	2-1	Service weight*	kg	14670		16020		19053		19524		
	2-2	Axle loading with load, front / rear	kg	23421	1748	26163	2357	29577	2976	31134	2890	
	2-3	Axle loading without load, front / rear	kg	7820	6850	7590	8430	9145	9907	9189	10335	
WHEELS	3-1	Tire type		Pneumatic								
	3-2	Tire size, front		10.00-20 16PR				12.00-20 20PR				
	3-3	Tire size, rear		10.00-20 16PR				12.00-20 20PR				
	3-5	Number of tires, front / rear ( X driven )		4X / 2								
	3-6	Tread, front	b <sub>10</sub> (mm)	1,842								
	3-7	Tread, rear	b <sub>11</sub> (mm)	2020				2018				
	DIMENSIONS	4-1	Mast tilt, forward / backward	□ / □ (°)	15 / 12							
4-2		Height, mast lowered <sup>(2)</sup>	h <sub>1</sub> (mm)	4135				4193				
4-3		Freelift	h <sub>2</sub> (mm)	-								
4-4		Lift <sup>(3)</sup>	h <sub>3</sub> (mm)	4925				4910				
4-5		Height, mast extended	h <sub>4</sub> (mm)	6597				6648				
4-7		Height of overhead guard (open cab)	h <sub>6</sub> (mm)	3055				3083				
4-7-1		Height of overhead guard (closed cab)	h <sub>6</sub> (mm)	3082				3110				
4-7-2		Height of overhead guard (closed cab w/ airco)	h <sub>6</sub> (mm)	3082				3110				
4-7-3		Height of overhead guard (closed cab w/ strobe lights)	h <sub>6</sub> (mm)	3177				3205				
4-7-4		Height of overhead guard (closed cab w/ work lights)	h <sub>6</sub> (mm)	3231				3259				
4-7-5		Height of overhead guard (closed cab w/ airco & strobe lights)	h <sub>6</sub> (mm)	3207				3235				
4-8		Seat height to SJP <sup>(4)</sup>	h <sub>7</sub> (mm)	1875				1903				
4-12		Coupling height	h <sub>10</sub> (mm)	661				689				
4-19		Overall length	l <sub>1</sub> (mm)	5724				6544				
4-20		Length to face of forks	l <sub>2</sub> (mm)	4504				4717				
4-21		Overall width across drive tires	b <sub>2</sub> (mm)	2490				2541				
4-22		Fork dimensions ISO 2331	s/e/l (mm)	75 / 200 / 1220				90 / 200 / 1830				
4-23		Carriage type		75 mm std pin type				90 mm std pin type				
4-24		Carriage width	b <sub>3</sub> (mm)	2396				2496				
4-25		Width over forks (min / max)	b <sub>5</sub> (mm)	534 / 2256				534 / 2356				
4-31		Ground clearance, lowest point	m <sub>1</sub> (mm)	253				245				
4-32		Ground clearance, center of wheelbase	m <sub>2</sub> (mm)	313				341				
4-33-1		Load size	w x l (mm)	1200 x 1200								
4-34-1-1		Aisle width (a=10%)	Ast (mm)	6728				6896				
4-34-1-2		Aisle width (a=0)	Ast (mm)	6116				6269				
4-34-1-3		Aisle width (a=200 mm)	Ast (mm)	6316				6469				
4-33-2		Load size	w x l (mm)	1200 x 800								
4-34-2-1		Aisle width (a=10%)	Ast (mm)	6288				6456				
4-34-2-2		Aisle width (a=0)	Ast (mm)	8468				8669				
4-34-2-3		Aisle width (a=200 mm)	Ast (mm)	8668				8869				
4-35		Outside turning radius	Wa (mm)	4107				4180				
4-36		Internal turning radius <sup>(6)</sup>	b <sub>13</sub> (mm)	1538				1453				
PERFORMANCE		5-1	Travel speed, with / without load**	km/h	25							
		5-2	Lifting speed, with / without load	m/s	0.51 / 0.59				0.42 / 0.44			
		5-2-1	Lifting speed, with 70% load	m/s	-							
		5-3	Lowering speed with / without load	m/s	0.56 / 0.54				0.54 / 0.48			
	5-5	Drawbar pull - 1 mph (1.6 km/h), with / without load	kN	23 / 25				30 / 33				
	5-6	Drawbar pull - max, with / without load	kN	48 / 50				63 / 65		62 / 65		
	5-7	Gradeability - 1 mph (1.6 km/h), with / without load <sup>(5)</sup>	%	10 / 18		8 / 16		10 / 18		9 / 17		
	5-8	Gradeability - max, with / without load <sup>(5)</sup>	%	20 / 34		17 / 31		20 / 31		19 / 30		
10-7	Sound pressure level at the driver's seat	dB (A)	69.6									
10-7-1	Sound power level during the working cycle	dB (A)	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.

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

## VDI 2198 – GENERAL SPECIFICATIONS – ERP100-160DF/EF SERIES

GENERAL			Yale							
			ERP130EF		ERP140EF		ERP160EF			
1-1	Manufacturer									
1-2	Model designation									
1-3	Powertrain / drivetrain		Electric							
1-4	Operator type		Seated							
1-5	Load capacity at load center, nominal		13500		14500		16500			
1-6	Load center		600							
1-8	Load distance <sup>(1)</sup>		889							
1-9	Wheelbase		3300							
WEIGHT	2-1	Service weight*	kg	18410		18960		19930		
	2-2	Axle loading with load, front / rear	kg	29404	2506	30768	2692	33793	2637	
	2-3	Axle loading without load, front / rear	kg	9813	8597	9725	9234	9848	10082	
WHEELS	3-1	Tire type		Pneumatic						
	3-2	Tire size, front		12.00-20 20PR						
	3-3	Tire size, rear		12.00-20 20PR						
	3-5	Number of tires, front / rear ( X driven )		4X / 2						
	3-6	Tread, front	b <sub>10</sub> (mm)	1842						
	3-7	Tread, rear	b <sub>11</sub> (mm)	2018						
	DIMENSIONS	4-1	Mast tilt, forward / backward	□ / □ (°)	15 / 12					
4-2		Height, mast lowered <sup>(2)</sup>	h <sub>1</sub> (mm)	4193						
4-3		Freelift	h <sub>2</sub> (mm)	-						
4-4		Lift <sup>(3)</sup>	h <sub>3</sub> (mm)	4910						
4-5		Height, mast extended	h <sub>4</sub> (mm)	6648						
4-7		Height of overhead guard (open cab)	h <sub>6</sub> (mm)	3083						
4-7-1		Height of overhead guard (closed cab)	h <sub>6</sub> (mm)	3110						
4-7-2		Height of overhead guard (closed cab w/ airco)	h <sub>6</sub> (mm)	3110						
4-7-3		Height of overhead guard (closed cab w/ strobe lights)	h <sub>6</sub> (mm)	3205						
4-7-4		Height of overhead guard (closed cab w/ work lights)	h <sub>6</sub> (mm)	3259						
4-7-5		Height of overhead guard (closed cab w/ airco & strobe lights)	h <sub>6</sub> (mm)	3235						
4-8		Seat height to SIP <sup>(4)</sup>	h <sub>7</sub> (mm)	1903						
4-12		Coupling height	h <sub>10</sub> (mm)	689						
4-19		Overall length	l <sub>1</sub> (mm)	6814						
4-20		Length to face of forks	l <sub>2</sub> (mm)	4984						
4-21		Overall width across drive tires	b <sub>2</sub> (mm)	2541						
4-22		Fork dimensions ISO 2331	s/e/l (mm)	90 / 200 / 1830						
4-23		Carriage type		90 mm std pin type						
4-24		Carriage width	b <sub>3</sub> (mm)	2496						
4-25		Width over forks (min / max)	b <sub>5</sub> (mm)	534 / 2256						
4-31		Ground clearance, lowest point	m <sub>1</sub> (mm)	245						
4-32		Ground clearance, center of wheelbase	m <sub>2</sub> (mm)	341						
4-33-1		Load size	w x l (mm)	1200 x 1200						
4-34-1-1		Aisle width (a=10%)	Ast (mm)	7328						
4-34-1-2		Aisle width (a=0)	Ast (mm)	6662						
4-34-1-3		Aisle width (a=200 mm)	Ast (mm)	6862						
4-33-2		Load size	w x l (mm)	1200 x 800						
4-34-2-1		Aisle width (a=10%)	Ast (mm)	6888						
4-34-2-2		Aisle width (a=0)	Ast (mm)	6262						
4-34-2-3		Aisle width (a=200 mm)	Ast (mm)	6462						
4-35		Outside turning radius	Wa (mm)	4573						
4-36		Internal turning radius <sup>(6)</sup>	b <sub>13</sub> (mm)	1777						
PERFORMANCE		5-1	Travel speed, with / without load**	km/h	25					
		5-2	Lifting speed, with / without load	m/s	0.42 / 0.44					
		5-2-1	Lifting speed, with 70% load	m/s	-					
		5-3	Lowering speed with / without load	m/s	0.54 / 0.48					
	5-5	Drawbar pull - 1 mph (1.6 km/h), with / without load	kN	31 / 33		30 / 33				
	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 <sup>(5)</sup>	%	10 / 19		9 / 18		8 / 17		
	5-8	Gradeability - max, with / without load <sup>(5)</sup>	%	20 / 35		19 / 34		18 / 32		
10-7	Sound pressure level at the driver's seat	dB (A)	69.6							
10-7-1	Sound power level during the working cycle	dB (A)	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.

## VDI 2198 – GENERAL SPECIFICATIONS – ERP100-160DF/EF SERIES

GENERAL			Yale				
			ERP120EF12		ERP140EF12		ERP160EFS9
1-1	Manufacturer						
1-2	Model designation						
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 <sup>(1)</sup>		889		941		
1-9	Wheelbase		3500				
WEIGHT	2-1	Service weight*	20247		22740		22040
	2-2	Axle loading with load, front / rear	29758	2989	33886	3354	35641
	2-3	Axle loading without load, front / rear	9797	10450	10516	12224	10615
WHEELS	3-1	Tire type	Pneumatic				
	3-2	Tire size, front	12.00-20 20PR		12.00 R 20		
	3-3	Tire size, rear	12.00-20 20PR		12.00 R 20		
	3-5	Number of tires, front / rear ( X driven )	4X / 2				
	3-6	Tread, front	b <sub>10</sub> (mm)		1842		
	3-7	Tread, rear	b <sub>11</sub> (mm)		2018		
			1844		2020		
DIMENSIONS	4-1	Mast tilt, forward / backward	□ / □ (°)		15 / 12		6 / 10
	4-2	Height, mast lowered <sup>(2)</sup>	h <sub>1</sub> (mm)		4193		
	4-3	Freelift	h <sub>2</sub> (mm)		-		
	4-4	Lift <sup>(3)</sup>	h <sub>3</sub> (mm)		4910		4494
	4-5	Height, mast extended	h <sub>4</sub> (mm)		6648		6463
	4-7	Height of overhead guard (open cab)	h <sub>6</sub> (mm)		3083		
	4-7-1	Height of overhead guard (closed cab)	h <sub>6</sub> (mm)		3110		
	4-7-2	Height of overhead guard (closed cab w/ airco)	h <sub>6</sub> (mm)		3110		
	4-7-3	Height of overhead guard (closed cab w/ strobe lights)	h <sub>6</sub> (mm)		3205		
	4-7-4	Height of overhead guard (closed cab w/ work lights)	h <sub>6</sub> (mm)		3259		
	4-7-5	Height of overhead guard (closed cab w/ airco & strobe lights)	h <sub>6</sub> (mm)		3235		
	4-8	Seat height to SJP <sup>(4)</sup>	h <sub>7</sub> (mm)		1903		
	4-12	Coupling height	h <sub>10</sub> (mm)		689		
	4-19	Overall length	l <sub>1</sub> (mm)		7624		7806
	4-20	Length to face of forks	l <sub>2</sub> (mm)		5184		5366
	4-21	Overall width across drive tires	b <sub>2</sub> (mm)		2541		
	4-22	Fork dimensions ISO 2331	s/e/l (mm)		90 / 200 / 2440		100 / 200 / 2440
	4-23	Carriage type	90mm std pin type		100mm std pin type		
	4-24	Carriage width	b <sub>3</sub> (mm)		2496		
	4-25	Width over forks (min / max)	b <sub>5</sub> (mm)		534 / 2356		470 / 2440
	4-31	Ground clearance, lowest point	m <sub>1</sub> (mm)		245		
	4-32	Ground clearance, center of wheelbase	m <sub>2</sub> (mm)		341		
	4-33-1	Load size	w x l (mm)		2400 x 2400		
	4-34-1-1	Aisle width (a=10%)	Ast (mm)		9060		9037
	4-34-1-2	Aisle width (a=0)	Ast (mm)		8236		8215
	4-34-1-3	Aisle width (a=200 mm)	Ast (mm)		8436		8415
	4-33-2	Load size	w x l (mm)		1930 x 1830		
	4-34-2-1	Aisle width (a=10%)	Ast (mm)		8433		
	4-34-2-2	Aisle width (a=0)	Ast (mm)		7666		
	4-34-2-3	Aisle width (a=200 mm)	Ast (mm)		7866		
	4-35	Outside turning radius	Wa (mm)		4947		4874
	4-36	Internal turning radius <sup>(6)</sup>	b <sub>13</sub> (mm)		1940		1803
PERFORMANCE	5-1	Travel speed, with / without load**	km/h		25		
	5-2	Lifting speed, with / without load	m/s		0.42 / 0.44		0.39 / 0.46
	5-2-1	Lifting speed, with 70% load	m/s		-		
	5-3	Lowering speed with / without load	m/s		0.54 / 0.48		0.54 / 0.45
	5-5	Drawbar pull - 1 mph (1.6 km/h), with / without load	kN		30 / 33		30 / 32
	5-6	Drawbar pull - max, with / without load	kN		63 / 65		62 / 64
	5-7	Gradeability - 1 mph (1.6 km/h), with / without load <sup>(5)</sup>	%		10 / 17		8 / 15
	5-8	Gradeability - max, with / without load <sup>(5)</sup>	%		20 / 33		17 / 30
10-7	Sound pressure level at the driver's seat	dB (A)		69.6			
10-7-1	Sound power level during the working cycle	dB (A)		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.

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

## VDI 2198 – GENERAL SPECIFICATIONS – ERP100-160DF/EF SERIES

			Yale							
			ERP160EFS12		ERP160EF9		ERP160EF12			
<b>GENERAL</b>	1-1	Manufacturer								
	1-2	Model designation								
	1-3	Powertrain / drivetrain	Electric							
	1-4	Operator type	Seated							
	1-5	Load capacity at load center, nominal	16400							
	1-6	Load center	1200		900		1200			
	1-8	Load distance <sup>(1)</sup>	941							
	1-9	Wheelbase	3500		3750					
	<b>WEIGHT</b>	2-1	Service weight*	kg	23940		21307		23066	
2-2		Axle loading with load, front / rear**	kg	36929	3410	35044	2663	36386	3080	
2-3		Axle loading without load, front / rear**	kg	10497	13442	10592	10714	10622	12443	
<b>WHEELS</b>	3-1	Tire type	Pneumatic							
	3-2	Tire size, front	12.00 R 20							
	3-3	Tire size, rear	12.00 R 20							
	3-5	Number of tires, front / rear ( X driven )	4X / 2							
	3-6	Tread, front	b <sub>10</sub> (mm)	1844						
	3-7	Tread, rear	b <sub>11</sub> (mm)	2020						
	<b>DIMENSIONS</b>	4-1	Mast tilt, forward / backward	□ / □ (°)	6 / 10					
4-2		Height, mast lowered <sup>(2)</sup>	h <sub>1</sub> (mm)	4008						
4-3		Freelift	h <sub>2</sub> (mm)	-						
4-4		Lift <sup>(3)</sup>	h <sub>3</sub> (mm)	4494						
4-5		Height, mast extended	h <sub>4</sub> (mm)	6255						
4-7		Height of overhead guard (open cab)	h <sub>6</sub> (mm)	3083						
4-7-1		Height of overhead guard (closed cab)	h <sub>6</sub> (mm)	3110						
4-7-2		Height of overhead guard (closed cab w/ airco)	h <sub>6</sub> (mm)	3110						
4-7-3		Height of overhead guard (closed cab w/ strobe lights)	h <sub>6</sub> (mm)	3205						
4-7-4		Height of overhead guard (closed cab w/ work lights)	h <sub>6</sub> (mm)	3259						
4-7-5		Height of overhead guard (closed cab w/ airco & strobe lights)	h <sub>6</sub> (mm)	3235						
4-8		Seat height to SJP <sup>(4)</sup>	h <sub>7</sub> (mm)	1903						
4-12		Coupling height	h <sub>10</sub> (mm)	689						
4-19		Overall length	l <sub>1</sub> (mm)	7823		8056				
4-20		Length to face of forks	l <sub>2</sub> (mm)	5383		5616				
4-21		Overall width across drive tires	b <sub>2</sub> (mm)	2541						
4-22		Fork dimensions ISO 2331	s/e/l (mm)	100 / 200 / 2440						
4-23		Carriage type	100 mm std pin type							
4-24		Carriage width	b <sub>3</sub> (mm)	2540						
4-25		Width over forks (min / max)	b <sub>5</sub> (mm)	470 / 2440						
4-31		Ground clearance, lowest point	m <sub>1</sub> (mm)	225						
4-32		Ground clearance, center of wheelbase	m <sub>2</sub> (mm)	341						
4-33-1		Load size	w x l (mm)	2400 / 2400						
4-34-1-1		Aisle width (a=10%)	Ast (mm)	9053		9379				
4-34-1-2		Aisle width (a=0)	Ast (mm)	8230		8526				
4-34-1-3		Aisle width (a=200 mm)	Ast (mm)	8430		8726				
4-33-2		Load size	w x l (mm)	-						
4-34-2-1		Aisle width (a=10%)	Ast (mm)	-						
4-34-2-2		Aisle width (a=0)	Ast (mm)	-						
4-34-2-3		Aisle width (a=200 mm)	Ast (mm)	-						
4-35		Outside turning radius	Wa (mm)	4889		5185				
4-36		Internal turning radius <sup>(6)</sup>	b <sub>13</sub> (mm)	1803		1996				
<b>PERFORMANCE</b>		5-1	Travel speed, with / without load***	km/h	25					
		5-2	Lifting speed, with / without load	m/s	0.39 / 0.46		0.39 / 0.44			
		5-2-1	Lifting speed, with 70% load	m/s	0.44					
		5-3	Lowering speed with / without load	m/s	0.54 / 0.45					
	5-5	Drawbar pull - 1 mph (1.6 km/h), with / without load	kN	29 / 32		30 / 32				
	5-6	Drawbar pull - max, with / without load	kN	61 / 64		62 / 65				
	5-7	Gradeability - 1 mph (1.6 km/h), with / without load <sup>(5)</sup>	%	7 / 14		8 / 16				
	5-8	Gradeability - max, with / without load <sup>(5)</sup>	%	16 / 28		17 / 32				
10-7	Sound pressure level at the driver's seat	dB (A)	69.6							
10-7-1	Sound power level during the working cycle	dB (A)	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.

\*\*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.

## VDI 2198 – GENERAL SPECIFICATIONS – ERP100-160DF/EF SERIES

GENERAL	1-1	Manufacturer		Yale						
	1-2	Model designation		ERP100DF, ERP120DF	ERP140EFS	ERP130EFS	ERP140EF12, ERP140EFS9, ERP140EF12, ERP140EF	ERP120EF12, ERP140EF9	ERP130EF	ERP140EF, ERP160EF12
	1-3	Powertrain / drivetrain		Electric						
ELECTRIC MOTOR	6-1	Drive motor rating S2 60 min	kW	46						
	6-2	Lift motor rating at S3 15%	kW	165						
	6-3	Battery according to DIN 43531/35/36 A, B, C		No						
	6-4	Battery voltage/nominal capacity 1 Pack*	V / Ah	363 / 192						
	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				
	6-4-3	Battery voltage/nominal capacity 4 Pack**	V / Ah	N/A		363 / 768				
	6-5	Battery weight 1 Pack*	kg	1200	729	1679	850	1459		
	6-5-1	Battery weight 2 Pack*	kg	1237		1712	1332	1492		
	6-5-2	Battery weight 3 Pack	kg	N/A		1754				
6-5-3	Battery weight 4 Pack**	kg	N/A		2296					
6-6	Energy consumption according to VDI cycle	kWh	-							

GENERAL	1-1	Manufacturer		Yale					
	1-2	Model designation		ERP100DF, ERP120DF		ERP140EFS, ERP130EFS, ERP140EF12, ERP140EFS9, ERP160EFS12, ERP140EF, ERP120EF12, ERP160EF9, ERP130EF, ERP140EF, ERP160EF12			
	1-3	Powertrain / drivetrain		Electric					
DRIVETRAIN	8-0	Drive control / transmission	Type	-					
	8-1	Type of drive unit	Type	AC Electric					
	8-2	Transmission manufacturer / type	Type	-					
	8-2-1	Transmission speeds forward / backward	#	-					
	8-4	Wheel drive / drive axle manufacturer / type	Type	Kessler / D61		Kessler / D81			
	8-11	Service brake	Type	Oil-immersed / wet disc					
	8-12	Parking brake	Type	Dry disc on drive axle					
OTHER	10-1	Operating pressure for attachments	MPa	19.5					
	10-2	Oil volume for attachments	l/m	100					
	10-3	Hydraulic tank capacity	l	109					
	10-5	Steering design	Type	Hydraulic power steering					
	10-6	Number of steering rotations	#	5					

\*Battery slabs included if necessary.

\*\*Only available on ERP160EF12.

## MAST DIMENSIONS – 10-12T NOMINAL CAPACITY IN KG @ 600MM LOAD CENTRE

Lift height TOF h <sub>3+s</sub> (mm)	Overall Lowered Height h <sub>1</sub> (mm)	Overall Extended Height h <sub>4</sub> (mm)	Standard pin type carriage (kg)		Sideshift pin type carriage (kg)		QD DFSSFP carriage (kg)*	
			ERP100DF	ERP120DF	ERP100DF	ERP120DF	ERP100DF	ERP120DF
<b>2-STAGE NFL MAST</b>								
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		
6500	4885	8097	9940	11,930	9820	11,820		
7000	5135	8597	9710	11,690	9600	11,580		
								Capacity will vary based on side shift and tilt

Capacity calculated with 1220mm forks.

\*DFSSFP QD carriage has 455mm sideshift. Smaller derate applicable with less backtilt.

Note: addition of header hoses will add 16.5mm to OLH (h<sub>1</sub>) and OEH (h<sub>4</sub>).

## MAST DIMENSIONS – 10-12T NOMINAL CAPACITY IN KG @ 600MM LOAD CENTRE WITH PIN TYPE CARRIAGE WITH SIDESHIFT

Lift height TOF h <sub>3+s</sub> (mm)	Overall Lowered Height h <sub>1</sub> (mm)	Overall Extended Height h <sub>4</sub> (mm)	Sideshift pin type carriage (kg)	
			ERP100DF	ERP120DF
<b>3-STAGE NFL MAST</b>				
5500	3012	6880	9410	11,300
6000	3178	7380	9250	11,130
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.

**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 TOF h <sub>3+s</sub> (mm)	Overall Lowered Height h <sub>1</sub> (mm)	Overall Extended Height h <sub>4</sub> (mm)	Standard pin type carriage (kg)					
			ERP130EFS	ERP140EFS	ERP130EF	ERP140EF	ERP160EF	ERP120EF12
<b>2-STAGE NFL MAST</b>								
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 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 OLH (h<sub>1</sub>) and OEH (h<sub>4</sub>).

**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 TOF h <sub>3+s</sub> (mm)	Overall Lowered Height h <sub>1</sub> (mm)	Overall Extended Height h <sub>4</sub> (mm)	Sideshift pin type carriage (kg)					
			ERP130EFS	ERP140EFS	ERP130EF	ERP140EF	ERP160EF	ERP120EF12
<b>2-STAGE NFL MAST</b>								
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 OLH (h<sub>1</sub>) and OEH (h<sub>4</sub>).

**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 TOF h <sub>3+s</sub> (mm)	Overall Lowered Height h <sub>1</sub> (mm)	Overall Extended Height h <sub>4</sub> (mm)	QD DFSSFP carriage (kg)*					
			ERP130EFS	ERP140EFS	ERP130EF	ERP140EF	ERP160EF	ERP120EF12
<b>2-STAGE NFL MAST</b>								
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						
6500	4943	8148						
7000	5193	8648						

Capacity will vary based on side shift and tilt

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 OLH (h<sub>1</sub>) and OEH (h<sub>4</sub>).



## 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 TOF h <sub>3+s</sub> (mm)	Overall Lowered Height h <sub>1</sub> (mm)	Overall Extended Height h <sub>4</sub> (mm)	Sideshift pin type carriage (kg)					
			ERP130EFS	ERP140EFS	ERP130EF	ERP140EF	ERP160EF	ERP120EF12
<b>3-STAGE NFL MAST</b>								
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 TOF h <sub>3+s</sub> (mm)	Overall Lowered Height h <sub>1</sub> (mm)	Overall Extended Height h <sub>4</sub> (mm)	Standard pin type carriage (kg)				
			ERP140EF12	ERP160EFS9	ERP160EFS12	ERP160EF9	ERP160EF12
<b>2-STAGE NFL MAST</b>							
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 (h<sub>1</sub>) and OEH (h<sub>4</sub>).

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

Lift height TOF h <sub>3+s</sub> (mm)	Overall Lowered Height h <sub>1</sub> (mm)	Overall Extended Height h <sub>4</sub> (mm)	Sideshift pin type carriage (kg)				
			ERP140EF12	ERP160EFS9	ERP160EFS12	ERP160EF9	ERP160EF12
<b>2-STAGE NFL MAST</b>							
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 OLH (h<sub>1</sub>) and OEH (h<sub>4</sub>).

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 TOF h <sub>3+s</sub> (mm)	Overall Lowered Height h <sub>1</sub> (mm)	Overall Extended Height h <sub>4</sub> (mm)	QD DFSSFP carriage (kg)*				
			ERP140EF12	ERP160EFS9	ERP160EFS12	ERP160EF9	ERP160EF12
<b>2-STAGE NFL MAST</b>							
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 (h<sub>1</sub>) and OEH (h<sub>4</sub>).

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 TOF h <sub>3+s</sub> (mm)	Overall Lowered Height h <sub>1</sub> (mm)	Overall Extended Height h <sub>4</sub> (mm)	QD DFSSFP carriage (kg)*				
			ERP140EF12	ERP160EFS9	ERP160EFS12	ERP160EF9	ERP160EF12
<b>2-STAGE NFL MAST</b>							
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 OLH (h<sub>1</sub>) and OEH (h<sub>4</sub>).

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

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

## FEATURES LIST – ERP100-160DF/EF SERIES

PERFORMANCE	STD	OPT	ERGONOMICS (CONTINUED)	STD	OPT
Integrated high voltage (350V) Li-Ion battery	●		Reading light		●
Drive Motor 108kW Peak	●		Sun shades on top and rear		●
Lift Motor 166kW Peak	●		Sun visors front window		●
111cc Dual pump hydraulic system	●		Trainer seat		●
1 battery pack		●	Recirculation fan		●
2 battery packs	●		Accessory mounting bar on cab front right pillar		●
3 battery packs		●	Document holder on cab front right pillar		●
4 battery packs*		●	Heated top- and/or rear window		●
Combined Charging System 1 (CCS1)		●	Radio preparation set-up (wiring, two speakers and antenna)		●
Combined Charging System 2 (CCS2)	●		Bluetooth radio with 2 speakers and antenna		●
Performance levels	●		<b>VISIBILITY</b>	<b>STD</b>	<b>OPT</b>
Kessler drive axle with wet brakes	●		Exterior mirrors mounted to cab		●
<b>DRIVE</b>	<b>STD</b>	<b>OPT</b>	Interior wide angle mirrors	●	
Travel Speed Limiter – unconditional and customer adjustable		●	Rear view camera system**		●
Travel Speed Limiter – based on load weight (adjustable)		●	Radar object detection system		●
<b>LIFT</b>	<b>STD</b>	<b>OPT</b>	LED work lights	●	
On-demand load depending hydraulic system	●		High Performance LED work lights		●
Hydraulic Accumulator	●		Two head lights mounted on front fenders		●
Pressure compensated lowering	●		Mast mounted work lights		●
Hydraulic System Temperature Protection		●	Four cabin mounted work lights		●
Mast tilt indicator – mechanical		●	Two rearward work lights mounted on the cabin	●	
<b>ERGONOMICS</b>	<b>STD</b>	<b>OPT</b>	LED stop/tail/brake lights	●	
Open operator compartment (without doors and screens)	●		Turn signals, hazard and marker lights (LED)	●	
Enclosed operator cabin		●	<b>OPERATION</b>	<b>STD</b>	<b>OPT</b>
Powered tilt operator compartment for service		●	Air horn 112 dBA		●
Manual tilt operator compartment for service	●		Electric horn 105 dBA	●	
Isolated cabin mounting for low noise and vibration	●		Visible alarm – Amber strobe light, key switch activated		●
Operator presence system	●		Audible alarm – reverse direction activated 82–102 dB(A), self-adjusting		●
Mechanical suspension seat	●		Audible alarm – reverse direction white noise		●
Air suspension seat		●	Forward / reverse motion alarm		●
Deluxe air suspension seat		●	Blue LED spotlight – rear / front and rear		●
Low backrest seat	●		Tyre pressure monitoring system		●
High backrest seat		●	Air-conditioning or automatic climate control off with open door		●
Additional armrest on left side		●	Automatic truck shutdown with timer		●
Cloth seat cover		●	Lockable battery disconnect switch		●
Vinyl seat cover	●		Battery jump start connector (NATO plug)		●
Seat heating		●	Truck Start with key switch and start button	●	
Seat ventilation		●	Operator password (display) for truck start		●
2-point high visibility seatbelt	●		Seatbelt interlock for truck start		●
Lateral seat sliding mechanism		●	Power distribution group with fuses	●	
Floor mat	●		Fuses partially replaced by electric circuit breakers		●
Coat hook	●		Yale Vision Wireless Monitoring (Level 1)	●	
Front, top and rear wipers with individual controlled washers		●	Yale Vision Wireless Access (Level 2)		●
"H" – pattern front wiper (Enclosed operator cabin)		●	Yale Vision Wireless Verification (Level 3)		●
"I" – pattern front wiper (Enclosed operator cabin)	●		Auto greasing system for basic truck and outer mast		●
Top window with armoured glass (Enclosed operator cabin)	●		24 volt electrical system	●	
Steel bars under armoured glass top window (enclosed operator cabin)		●	Steer wheel lug nut protection		●
Tinted operator compartment windows (all)		●	Front mud flaps		●
Tinted operator compartment top window		●	Rear mud flaps		●
Plexiglass shield in front of front window		●	Lifting eyes – 2 front and 2 rear		●
Wire mesh installed on top of operator compartment		●	<b>APPEARANCE</b>	<b>STD</b>	<b>OPT</b>
Operator shield wire mesh		●	Yale Gold paint base truck	●	
7" Integrated performance display	●		Special paint base truck		●
Accutouch mini levers hydraulic control integrated in control arm	●		Operator compartment special paint		●
Joystick hydraulic control integrated in control arm		●	Hazard warning striping on counterweight		●
Steering wheel with spinner knob	●		<b>SUPPLEMENTAL</b>	<b>STD</b>	<b>OPT</b>
Directional control lever	●		Literature package	●	
Foot Directional Control (FDC)		●	Operator's manual	●	
Directional control on Mini-levers or Joystick		●	CE certification		●
Park brake - automatic	●		Warranty: 24 Months / 4,000 Hours Parts manufacturer's warranty, 60 Months / 10,000hrs Factory Installed Integrated Li-Ion Battery Warranty***	●	
Heater with adjustable speed fan (enclosed operator cabin)	●				
Telescoping and tilting steering column	●				
USB outlet inside armrest	●				
24-12 DC converter with 2 sockets and 2 USB outlets		●			
Automatic climate control		●			

\*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	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)		●
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		●
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 / ERP160EF9 / 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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**Safety:** All Yale products sold into EU countries, UK, and Turkey conform to the EU requirements of Machinery Directive 2006/42/EC and contain **CE** marking. Yale trucks sold into other countries may be ordered for production in conformance with Machinery Directive requirements, and when so ordered will contain **CE** 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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