

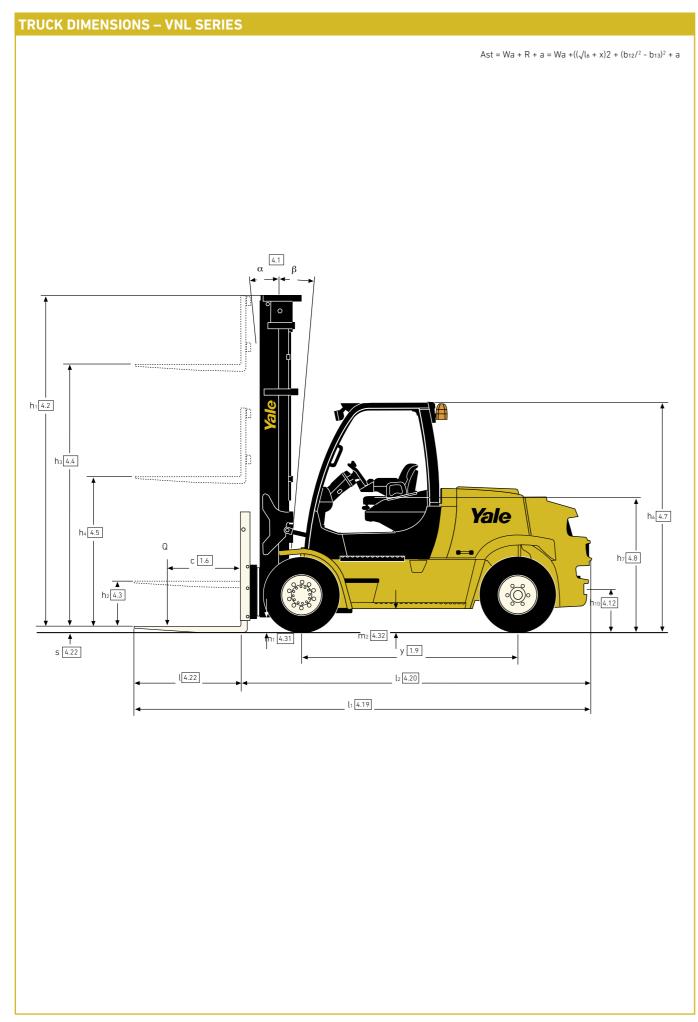


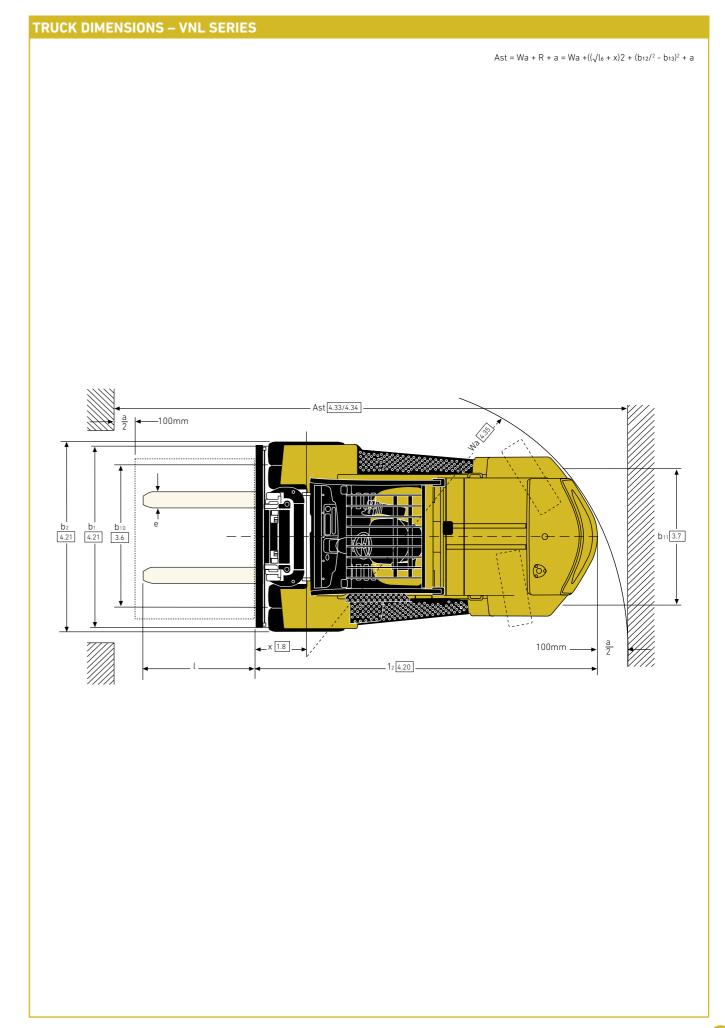
## ERP70-90VNL

7,000 - 9,000 kg

**VNL Series** 

Electric Forklift Trucks

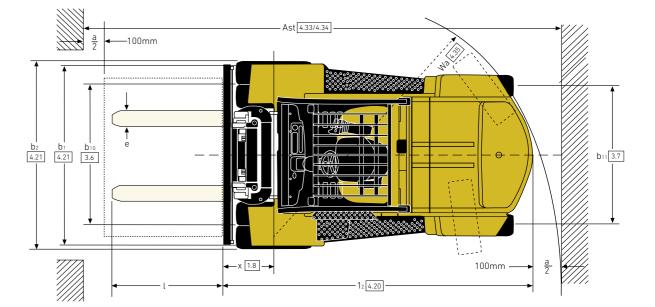




# TRUCK DIMENSIONS – VNL SERIES Ast = Wa + R + a = Wa + $((\sqrt{l_6 + x})^2 + (b_{12}/2 - b_{13})^2 + a$ h<sub>1</sub> 4.2 h3 4.4 Yale h<sub>6</sub> 4.7 h<sub>7</sub> 4.8 h<sub>2</sub> 4.3 m<sub>2</sub> 4.32 s 4.22 y 1.9 -— l<sub>2</sub> 4.20 — - l[4.22] -

#### TRUCK DIMENSIONS – VNL SERIES

Ast = Wa + R + a = Wa +  $((\sqrt{l_6 + x})^2 + (b_{12}/2 - b_{13})^2 + a$ 



VD	2198	8 – GENERAL SPECIFICATIONS – VNL S	ERIES			
	1-1	Manufacturer			Yale	
	1-2	Model designation		ERP 70SVNL	ERP 70SVNL9	ERP 80SVNL
	1-3	Drive			Electric (battery)	
GENERAL	1-4	Operation			Seated	
N.	1-5	Rated load/rated capacity	Q (kg)	70	00	8000
5	1-6	Load centre distance	c (mm)	600	900	600
	1-8	Load distance, centre to drive axle to fork	x (mm)	609		14
	1-9	Wheelbase	y (mm)	2235		235
-	2-1	Service weight (max. battery)	kg	10902	11	979
WEIGHT	2-2	Axle loading, laden front/rear (max. battery)	kg	15193 / 2710	16583 / 2396	17187 / 2793
×	2-3	Axle loading, unladen front/rear (max. battery)	kg	4406 / 2496	4843 / 7136	4843 / 7136
	3-1	Tyres front/rear	19		Pneumatic	12.127.7.122
	3-2	Tyre size, front			8.25 x 15 14PR	
S	3-3	Tyre size, rear			8.25 x 15 14PR	
TYRES	3-5	Number of wheels, front/rear (x = driven)			4X/2	
-	3-6	Tread, front, standard/wide tread	b10 (mm)		1847	
	3-7	Tread, rear	b <sub>11</sub> (mm)		1536	
	4-1	Tilt of mast/fork carriage, forward / backward	(°)	5 / 10		/9
	4-2	Height, mast lowered (1)	h <sub>1</sub> (mm)	2540		712
	4-3	Free lift (1)	h <sub>2</sub> (mm)	23.0	100	
	4-4	Lift (1)	h <sub>3</sub> (mm)	2940		000
	4-5	Height, mast extended (2)	h4 (mm)	4040		225
	4-7	Height to top of overhead guard (3)	h <sub>6</sub> (mm)	7070	2531	
	4-7-1	Height to top of cab	h <sub>6</sub> (mm)		2549	
	4-8	Seat height relating to SIP	h <sub>7</sub> (mm)		1547	
	4-19	Overall length	lı (mm)	4695		770
S	4-20	Length to face of forks	l <sub>2</sub> (mm)	3495		570
oist	4-21	Overall width	b <sub>1</sub> /b <sub>2</sub> (mm)	0170	1784 / 2082	.,,
DIMENSIONS	4-22	Fork dimensions ISO 2331	s/e/l (mm)	60 / 150 / 1200		0 / 1200
	4-23	Fork carriage ISO 2328, class/type, A/B	5,6,7 (11111)	007 1007 1200	IVA	0 / 1200
	4-24	Fork carriage width	b3 (mm)	1980		030
	4-31	Ground clearance, laden, below mast (1)	m <sub>1</sub> (mm)	125		75
	4-32	Ground clearance, at centre of wheelbase	m <sub>2</sub> (mm)		246	
	4-33	Load dimensions b12 x l6 crossways	b12 x l6 (mm)		1000 x 1200	
	4-34	Aisle width with predetermined load dimensions (10)	Ast (mm)	4889		959
	4-34-1	Aisle width with pallets 800 wide x 1200 long (10)	Ast (mm)	5089	5159	
	4-35	Turning radius	Wa (mm)	3080		145
	4-36	Internal turning radius (6)	b <sub>13</sub> (mm)		-90	
	5-1	Travel speed laden/unladen (5)	km/h		24.0 / 24.0	
	5-1-1	Travel speed laden/unladen, backwards (5)	km/h		24.0 / 24.0	
	5-2	Lift speed laden/unladen (5)	m/sec	0.43 / 0.66	0.41 / 0.46	0.40 / 0.46
병	5-3	Lowering speed laden/unladen	m/sec	0.58 / 0.53		/ 0.37
PERFORMANCE	5-5	Drawbar pull laden/unladen, @ 1.6km/hr (5)	N	48871 / 25907		/ 28506
9.8	5-6	Max. drawbar pull laden/unladen	N	49547 / 25907		/ 28506
Ä	5-7	Gradeability laden/unladen, @ 1.6km/hr <sup>(5)</sup>	%	30 / 24	28 / 24	26 / 24
	5-8	Max. gradeability laden/unladen (5)	%	30 / 24	28 / 24	27 / 24
	5-9	Acceleration time, laden/unladen (to 30m) (5)	sec	9.15 / 8.76		/ -
	5-10	Service brake			Hydraulic	
	6-1	Drive motor rating S2 60min	kW		45	
	6-2	Lift motor rating at S3 15%	kW		60.0	
	6-3	Battery according to DIN 43531/35/36 A, B, C, no			No	
R.C	6-4	Battery voltage/nominal capacity (8)	V/Ah		350 / 192	
ELECTRIC	6-5	Battery weight	kg		664	
Ē	6-6	Energy consumption in accordance with VDI cycle	kWh/h	18.9	2	0.6
	6-7	Turnover output	t/h		-	
	6-8	Energy consumption at turnover output	kWh in 1h		-	
			(kWh/h)			
	10-1	Operating pressure for attachments	bar		173	
œ	10-2	Oil volume for attachments	l/min		92.7	
OTHER	10-7	Sound preasure level at drivers seat (With/without Cab) (9)	dB(A) LPAZ		68 / 67	
Ö	10-7-1	Sound power level during workcycle	dB LWAZ		-	
	10-7-2	Average noise level at operator's ear EN 12053	dB LWAZ		69	
	10-8	Towing coupling type			Pin	

- (1) For standard 2 stage LFL mast configuration
- (2) Without Load Backrest
- (3) Overhead guard only, no cab
- (4) Under mast channels
- (5) Extended shift off (max. performance)

- (6) 7T @600, 7T @900 and 8T @600 capacities
- (7) Integrated Li-Ion Battery does not conform to standard DIN battery box dimensions
- (8) Nominal values
- (9) With cab values from 9T, without cab values from 7T
- (10) Includes 200mm aisle clearance

1-1	Manufacturer		Yale			
1-2	Model designation		ERP 80VNL9	ERP 90VNL		
1-3	Drive		Electric (battı	erv)		
1-4	Operation		Seated	,,		
1-5	Rated load/rated capacity	Q (kg)	8000	9000		
1-6	Load centre distance	c (mm)	900			
1-8	Load distance, centre to drive axle to fork	x (mm)	663.5	613.5		
1-9	Wheelbase	y (mm)	2450			
2-1	Service weight (max. battery)	kg	12265	11524		
2-2	Axle loading, laden front/rear (max. battery)	kg	18428 / 1836	18440 / 2083		
2-3	Axle loading, unladen front/rear (max. battery)	kg	5323 / 6942	4983 / 6541		
3-1	Tyres front/rear	ING I	Pneumatio			
3-2	Tyre size, front		8.25 x 15 14			
3-3	Tyre size, rear		8.25 x 15 141			
3-5	Number of wheels, front/rear (x = driven)		4X/2	T.		
3-6	Tread, front, standard/wide tread	b <sub>10</sub> (mm)	2003			
3-7	Tread, rear	b <sub>11</sub> (mm)	1536			
4-1	Tilt of mast/fork carriage, forward / backward	(°)	5/9			
4-1	Height, mast lowered (1)	h <sub>1</sub> (mm)	3462	2712		
4-2	Free Lift (1)	h <sub>2</sub> (mm)	3462	Z / 1Z		
4-3	Lift (1)	h <sub>3</sub> (mm)	4500	3000		
4-5	Height, mast extended (2)	h <sub>4</sub> (mm)	5899 2531	4225		
4-7	Height to top of overhead guard (3) Height to top of cab	h <sub>6</sub> (mm)	2531			
4-7-1		hs (mm)		15.77		
4-8	Seat height relating to SIP	h <sub>7</sub> (mm)	1558	1547		
4-19	Overall length	lı (mm)	5238			
4-20	Length to face of forks	l <sub>2</sub> (mm)	4038			
4-21	Overall width	b <sub>1</sub> /b <sub>2</sub> (mm)	1771 / 223			
4-22	Fork dimensions ISO 2331	s/e/l (mm)	65 / 200 / 12	UU		
4-23	Fork carriage ISO 2328, class/type, A/B		IVA			
4-24	Fork carriage width	b3 (mm)	2030			
4-31	Ground clearance, laden, below mast (1)	m1 (mm)	175			
4-32	Ground clearance, at centre of wheelbase	m <sub>2</sub> (mm)	253	•		
4-33	Load dimensions b12 x l6 crossways	b <sub>12</sub> x l <sub>6</sub> (mm)	1000 x 120			
4-34	Aisle width with predetermined load dimensions (10)	Ast (mm)	5658	5537		
4-34-1	Aisle width with pallets 800 wide x 1200 long (10)	Ast (mm)	5858	5737		
4-35	Turning radius	Wa (mm)	3794			
4-36	Internal turning radius (6)	b <sub>13</sub> (mm)	362			
5-1	Travel speed laden/unladen (5)	km/h	21.0 / 21.0			
5-1-1	Travel speed laden/unladen, backwards (5)	km/h	21.0 / 21.0			
5-2	Lift speed laden/unladen (5)	m/sec	0.32 / 0.41	0.36 / 0.46		
5-3	Lowering speed laden/unladen	m/sec	0.38 / 0.33			
5-5	Drawbar pull laden/unladen, @ 1.6km/hr (5)	N	48933 / 31331	48933 / 29330		
5-6	Max. drawbar pull laden/unladen	N	49430 / 31331	49430 / 29330		
5-7	Gradeability laden/unladen, @ 1.6km/hr (5)	%	26 / 26			
5-8	Max. gradeability laden/unladen (5)	%	26 / 26			
5-9	Acceleration time, laden/unladen (to 30m) (5)	sec	8.88 / 7.69	-/-		
5-10	Service brake		Hydraulic			
6-1	Drive motor rating S2 60min	kW	45			
6-2	Lift motor rating at S3 15%	kW	60.0			
6-3	Battery according to DIN 43531/35/36 A, B, C, no		No			
6-4	Battery voltage/nominal capacity (8)	V/Ah	350 / 192			
6-5	Battery weight	kg	664			
6-6	Energy consumption in accordance with VDI cycle	kWh/h	20.6			
6-7	Turnover output	t/h	-			
6-8	Energy consumption at turnover output	kWh in 1h (kWh/h)	-			
10-1	Operating pressure for attachments	bar	173			
10-1	Oil volume for attachments	l/min	92.7			
10-7	Sound preasure level at drivers seat (With/without Cab) (9)	dB(A) LPAZ	68 / 67			
10-7-1	Sound power level during workcycle	dB LWAZ	- /0			
10-7-2		dB LWAZ	69			
10-8	Towing coupling type		Pin			

on 2 stage LFL Mast:
77: 2940mm bottom of forks, standard
77 @ 9 3000mm bottom of forks, standard

8T @ 9 4500mm bottom of forks, standard 9T: 3000mm bottom of forks, standard

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

MAST D	IMENSIO	NS – ER	P 70SVN	L			
Maximum Fork Height	Overall Lowered	Overall Extended height	Free lift height (TOF)	Back	Without Sideshift	With Integral Sideshift	With Hang-on Sideshift and Fork Positioner
(TOF) (mm)	height (mm)	(mm)	(mm)	Tilt		600mm Load centre (kg)	
(11111)	(11111)	With LBR	Without LBR			ooonini Loud centre (kg)	
2-Stage Limited Free-Lift (LFL) Mast							
3000	2516	4417	100	10	7000	6830	6500
3400	2716	4817	100	10	7000	6810	6490
4400	3216	5817	100	10	7000	6770	6450
5400	3716	6817	100	10	7000	6730	6420
6000	4116	7417	100	10	6830	6530	6230
					3-Stage Full Free-Lift (FFL) Mast		
4700	2576	6118	1425	6	7000	6510	6210
5600	2876	7018	1725	6	6920	6410	6120
6200	3126	7618	1975	6	6750	6210	5930

Maximum	Overall	Overall	Free lift			Without	Sideshift	
Fork Height	Lowered	Extended height	height (TOF)	Back		Capacity at max. height,	600mm Load centre (kg)	
(TOF) (mm)	height (mm)	(mm)	(mm)	Tilt	ERP 70SVNL9	ERP 80SVNL	ERP 80VNL9	ERP 90VNL
(11111)	(mm)	With LBR	Without LBR		F80 Mast	F80 Mast	F90 Mast	F80 Mast
2-Stage Limited Free-Lift (LFL) Mast								
3065	2712	4350	0	9	7000	8000	8000	9000
3565	2962	4850	0	9	7000	8000	8000	9000
4565	3462	5850	0	9	7000	8000	8000	9000
5565	3962	6850	0	9	7000	8000	7910	8700
6065	4212	7350	0	9	6760	7730	7760	8080
3-Stage Full Free-Lift (FFL) Mast								
4615	2702	6077	1565	6	7000	8000	8000	9000
5515	3002	6977	1865	6	7000	8000	7760	8820
5965	3152	7427	2015	6	6950	7940	7630	8270

Maximum	Overall	Overall	Free lift			With carriag	e + Sideshift		
Fork Height	Lowered	Extended height	height (TOF)	Back		Capacity at max. height,	600mm Load centre (kg)		
(TOF) (mm)	height (mm)	(mm)	(mm)	Tilt	ERP 70SVNL9	ERP 80SVNL	ERP 80VNL9	ERP 90VNL	
(11111)	(mm)	(mm) With LBR	With LBR	Without LBR		F80 Mast	F80 Mast	F90 Mast	F80 Mast
2-Stage Limited Free-Lift (LFL) Mast									
3065	2712	4350	0	9	6600	8000	7600	8500	
3565	2962	4850	0	9	6590	8000	7590	8490	
4565	3462	5850	0	9	6570	8000	7550	8470	
5565	3962	6850	0	9	6550	8000	7440	8170	
6065	4212	7350	0	9	6320	7730	7280	7580	
					3-Stage Full Free-Lift (FFL	L) Mast			
4615	2702	6077	1565	6	6580	8000	7570	8500	
5515	3002	6977	1865	6	6560	8000	7320	8310	
5965	3152	7427	2015	6	6510	7940	7180	7780	

Maximum	Overall	Overall	Free lift			With Integra	ted Sideshift	
Fork Height	Lowered	Extended height	height (TOF)	Back		Capacity at max. height,	600mm Load centre (kg)	
(TOF) (mm)	height	(mm)	(mm)	Tilt	ERP 70SVNL9	ERP 80SVNL	ERP 80VNL9	ERP 90VNL
(11111)	(mm)	(mm) With LBR	Without LBR		F80 Mast	F80 Mast	F90 Mast	F80 Mast
2-Stage Limited Free-Lift (LFL) Mast								
3065	2712	4350	0	9	6560	8000	7580	8460
3565	2962	4850	0	9	6550	8000	7560	8440
4565	3462	5850	0	9	6530	8000	7530	8420
5565	3962	6850	0	9	6510	8000	7410	8130
6065	4212	7350	0	9	6290	7730	7260	7530
3-Stage Full Free-Lift (FFL) Mast								
4615	2702	6077	1565	6	6560	8000	7550	8470
5515	3002	6977	1865	6	6540	8000	7290	8280
5965	3152	7427	2015	6	6480	7940	7150	7750

MAST DIMENSIONS – ERP 80VNL9						
Maximum Fork Height (TOF) (mm)	Overall Lowered height (mm)	Overall Extended height (mm)	Free lift height (Top of Forks) (mm)	Back Tilt		
(1017, (11111)		With LBR	Without LBR			
		2-Stage Limited Free-Lift (LFL) Mast				
3065	2712	4398	0	9		
3565	2962	4898	0	9		
4565	3462	5898	0	9		
5565	3962	6898	0	9		
6065	4212	7398	0	9		
		3-Stage Full Free-Lift (FFL) Mast				
4615	2712	6125	1405	6		
5515	3012	7025	1705	6		
5965	3162	7475	1855	6		

## TRUCK CONFIGURATION

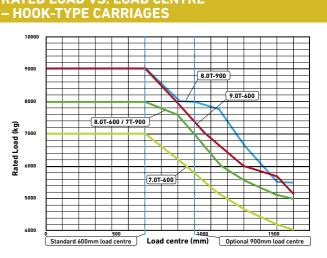
2-stage LFL F70 mast at (5400mm T0F) 7.0T - 600 models 2-stage LFL F80 mast at (5565mm T0F) 8.0T - 600 models 2-stage LFL F80 mast at (4565 mm T0F) 9.0T - 600 models 2-stage LFL F90 mast at (4565 mm T0F) 8.0T - 900 models 2-stage LFL F90 mast at (5565mm T0F) 7.0T - 900 models 2030mm Standard Hook-type carriages with Load Backrest (7T @ 9, 8-9T capacity)

## THE RATINGS ARE COMPUTED USING FORK LENGTHS AS BELOW:

LLINO IIIS	AS DELOTE.	
	Load Centre (mm)	Fork Length (mm)
	500-700	1200
Allessedels	Over 700-1000	1500
All models	Over 1000-1200	1800
	Over 1200	2400

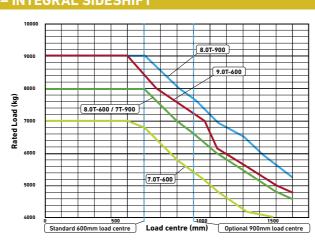
1980mm Standard Hook-type carriages with Load Backrest (7T capacity)

#### RATED LOAD VS. LOAD CENTRE



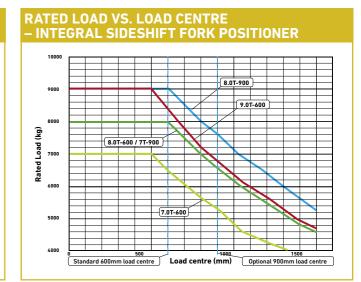
**Note:** Special forks with higher load ratings are required to obtain full truck ratings on load centre's greater than 900mm. 8T @ 900mm, 9T greater than 1200mm and 7T greater than 600mm.

#### RATED LOAD VS. LOAD CENTRE - INTEGRAL SIDESHIFT



**Note:** Special forks with higher load ratings are required to obtain full truck ratings on load centres greater than 1050mm. 8T @ 900mm, 7t greater than 600mm.

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



\*Side Shift Fork Positioner for F70 mast is a Hang On type (HSSFP). **Note:** Special forks with higher load ratings are required to obtain full truck ratings on load centres greater than 1050mm on 8T @ 900mm, greater than 900mm on 7T.

FEATURES LIST – VNL SERIES		
LIFT	STD	OPT
2 Stage Limited Free Lift Mast	•	
3 Stage Full Free Lift Mast		•
Lift Height - 3000mm (2540mm Lowered Height) - ERP70SVNL	•	
Lift Height - 3065mm (2715mm Lowered Height) - ERP80SVNL   ERP80VNL9   ERP90VNL	•	
Various other Lift Heights		•
Mast Tilt - 5° Forward / 10° Back - ERP70SVNL	•	
Mast Tilt - 5° Forward / 9° Back - ERP80SVNL   ERP80VNL9   ERP90VNL	•	
Mast Tilt - 5° Forward / 6° Back		•
Mast Tilt - 9° Forward / 5° Back		•
DRIVE	STD	OPT
Traction Speed Limiter (Adjustable)	•	
8.25 x 15-14 PR Pneumatic Drive Tyres	•	
8.25 x R15 Pneumatic Radial Drive Tyres		•
8.25 x 15 Super Elastic Drive Tyres		•
300 x 15 Super Elastic Drive Tyres		•
355/65-20 - Super Elastic Drive Tyres		•
355/50-20 Super Elastic Drive Tyres		
8.25 x 15 Non-Marking Super Elastic Drive Tyres		•
8.25 x 15 Non-Marking Pneumatic Shaped Solid Drive Tyres		•
8.25 x 15-14 PR Pneumatic Steer Tyre		
,	_	•
8.25 x R15 Pneumatic Radial Steer Tyre		•
300 x 15 Super Elastic Steer Tyre		•
8.25 x 15 Super Elastic Steer Tyre		•
8.25 x 15 Non-Marking Super Elastic Steer Tyre		•
8.25 x 15 Non-Marking Pneumatic Shaped Solid Steer Tyre		•
HANDLING	CTD	OPT
HANDLING Accutoush <sup>M</sup> mini layer hydraulic controls	STD	OPT
Accutouch™ mini lever hydraulic controls	STD •	
Accutouch™ mini lever hydraulic controls Accutouch™ mini lever hydraulic controls, designed for clamping applications		•
Accutouch™ mini lever hydraulic controls Accutouch™ mini lever hydraulic controls, designed for clamping applications Accutouch™ mini lever hydraulic controls with Return to Set Tilt		
Accutouch™ mini lever hydraulic controls  Accutouch™ mini lever hydraulic controls, designed for clamping applications  Accutouch™ mini lever hydraulic controls with Return to Set Tilt  Accutouch™ mini lever hydraulic controls with Return to Set Tilt, designed for Clamping applications		•
Accutouch™ mini lever hydraulic controls  Accutouch™ mini lever hydraulic controls, designed for clamping applications  Accutouch™ mini lever hydraulic controls with Return to Set Tilt  Accutouch™ mini lever hydraulic controls with Return to Set Tilt, designed for Clamping applications  1980mm Hook Type Carriage		•
Accutouch™ mini lever hydraulic controls  Accutouch™ mini lever hydraulic controls, designed for clamping applications  Accutouch™ mini lever hydraulic controls with Return to Set Tilt  Accutouch™ mini lever hydraulic controls with Return to Set Tilt, designed for Clamping applications  1980mm Hook Type Carriage  1805mm Hook Type Carriage		•
Accutouch™ mini lever hydraulic controls  Accutouch™ mini lever hydraulic controls, designed for clamping applications  Accutouch™ mini lever hydraulic controls with Return to Set Tilt  Accutouch™ mini lever hydraulic controls with Return to Set Tilt, designed for Clamping applications  1980mm Hook Type Carriage  2030mm Hook Type Carriage		•
Accutouch™ mini lever hydraulic controls  Accutouch™ mini lever hydraulic controls, designed for clamping applications  Accutouch™ mini lever hydraulic controls with Return to Set Tilt  Accutouch™ mini lever hydraulic controls with Return to Set Tilt, designed for Clamping applications  1980mm Hook Type Carriage  1805mm Hook Type Carriage  2030mm Hook Type Carriage  2030mm Hook Type Heavy Duty Carriage		•
Accutouch™ mini lever hydraulic controls  Accutouch™ mini lever hydraulic controls, designed for clamping applications  Accutouch™ mini lever hydraulic controls with Return to Set Tilt  Accutouch™ mini lever hydraulic controls with Return to Set Tilt, designed for Clamping applications  1980mm Hook Type Carriage  1805mm Hook Type Carriage  2030mm Hook Type Carriage  2030mm Hook Type Heavy Duty Carriage  1980mm Hook Type Carriage with Hang-On Sideshift - ERP70SVNL		•
Accutouch™ mini lever hydraulic controls  Accutouch™ mini lever hydraulic controls, designed for clamping applications  Accutouch™ mini lever hydraulic controls with Return to Set Tilt  Accutouch™ mini lever hydraulic controls with Return to Set Tilt, designed for Clamping applications  1980mm Hook Type Carriage  1805mm Hook Type Carriage  2030mm Hook Type Carriage  2030mm Hook Type Heavy Duty Carriage  1980mm Hook Type Carriage with Hang-On Sideshift - ERP70SVNL  1980mm Hook Type Carriage with Integral Sideshift - ERP70SVNL		•
Accutouch™ mini lever hydraulic controls  Accutouch™ mini lever hydraulic controls, designed for clamping applications  Accutouch™ mini lever hydraulic controls with Return to Set Tilt  Accutouch™ mini lever hydraulic controls with Return to Set Tilt, designed for Clamping applications  1980mm Hook Type Carriage  1805mm Hook Type Carriage  2030mm Hook Type Carriage  2030mm Hook Type Heavy Duty Carriage  1980mm Hook Type Carriage with Hang-On Sideshift - ERP70SVNL  1980mm Hook Type Carriage with Hang-On Sideshift - ERP70SVNL  1980mm Hook Type Carriage with Hang-On Sideshift Fork Positioner - ERP70SVNL		•
Accutouch™ mini lever hydraulic controls  Accutouch™ mini lever hydraulic controls, designed for clamping applications  Accutouch™ mini lever hydraulic controls with Return to Set Tilt  Accutouch™ mini lever hydraulic controls with Return to Set Tilt, designed for Clamping applications  1980mm Hook Type Carriage  1805mm Hook Type Carriage  2030mm Hook Type Carriage  2030mm Hook Type Carriage  1980mm Hook Type Carriage with Hang-On Sideshift - ERP70SVNL  1980mm Hook Type Carriage with Integral Sideshift - ERP70SVNL  1980mm Hook Type Carriage with Hang-On Sideshift Fork Positioner - ERP70SVNL  2030mm Integral Sideshift Carriage		•
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FEATURES LIST – VNL SERIES		
ERGONOMICS (continued)	STD	ОРТ
Dual Mirrors Side View		•
Rear Drive Handle with Horn Button		•
Recirculation Fan		•
Integrated Directional Switch		•
12V Outlet - automotive style socket on dash		•
OPERATION	STD	OPT
Foot directional Control		•
Audible Reverse Alarm		•
Pedestrian Awareness Light (P.A.L.)		•
Amber Strobe Light	•	
Key Switch Start	•	
Key Switch Start with Operator Password		•
Push Button Start with Operator Password		•
Keyless Toggle Switch Start with Toggle		•
Operator Password Start		•
Operator Pre-Shift Electronic Checklist		•
Yale Vision Wireless Access		•
Yale Vision Wireless Verification		•
Yale Vision Wireless Monitoring		•
Load Weight Display		•
Low Mount Display	•	
High Mount Display		•
Single Pedal Inch Brake	•	
Oil-immersed Brakes	•	
2 Front / 2 Rear Lifting Eyes		•
System Monitoring Package		•
Impact Sensor		•
Hydraulic Accumulator		•
Fire Extinguisher		•
VISIBILITY	STD	OPT
Rear Mounted Colour Camera with LCD Display		•
2 Front and 1 Rear LED Work Lights		•
Two Front and One Rear LED Work Lights with Stop, Tail and Reverse Lights		•
2 Front and 1 Rear LED Work Lights with Stop, Tail, Indicator & Reverse Lights		•
2 Front LED Work Lights with Side, Stop, Tail, & Reverse Lights		•
BATTERIES	STD	OPT
Lithium-ion Type Battery 358 Volt 192 Ah	•	
APPEARANCE	STD	OPT
Additional Nameplate		•
Nameplate Modification		•
Parts Manual - Printed		•
SUPPLEMENTAL	STD	OPT
-C-500-125 (Amp) Charge Station BorgWarner 50Hz, 400VAC, Three phase		•
Literature Pack		•
CE Certification	•	
24 Months / 4,000 hours Manufacturers' Warranty		
36 Months / 6,000 hours Extended Warranty		•

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

Steering Wheel without Spinner Knob



## About Yale®

Yale Materials Handling Corporation 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 CC marking. Yale trucks sold into other countries may be ordered for production in conformance with Machinery Directive requirements, and when so ordered will contain CC 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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