

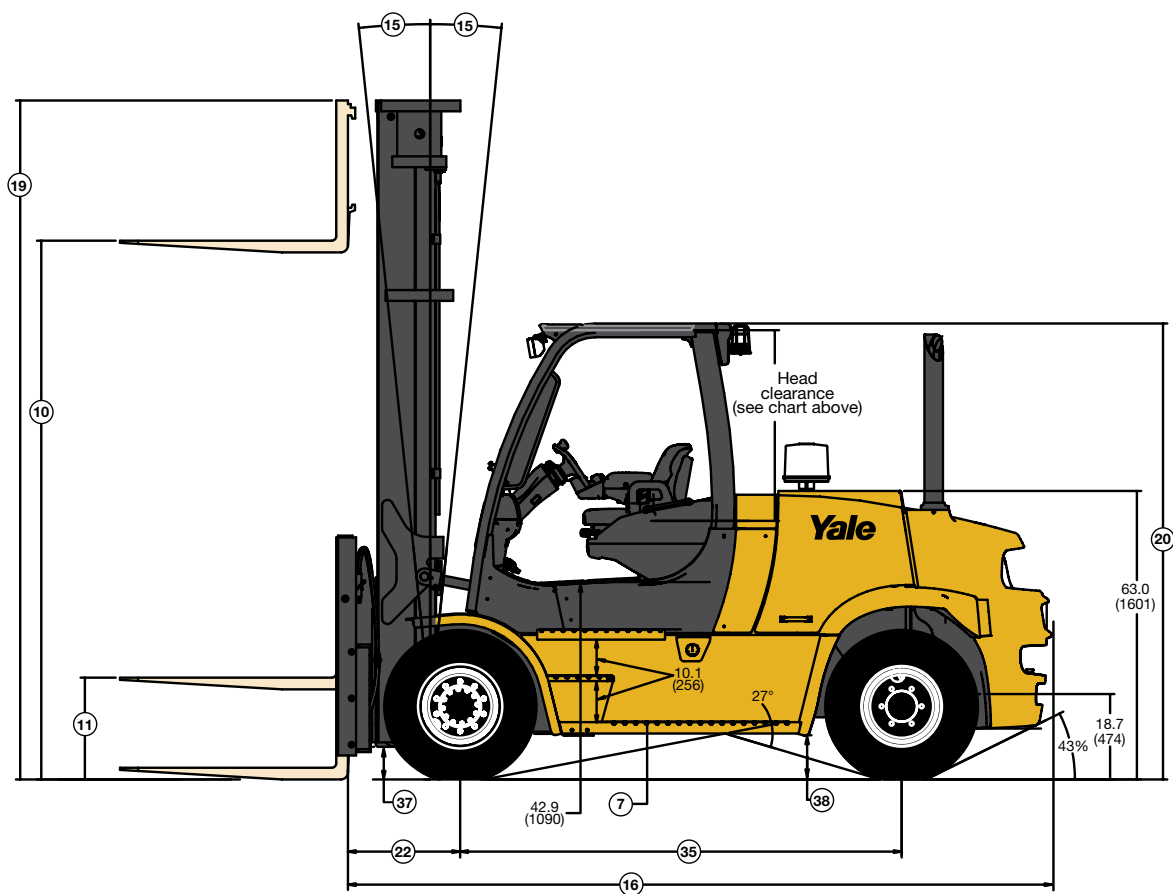


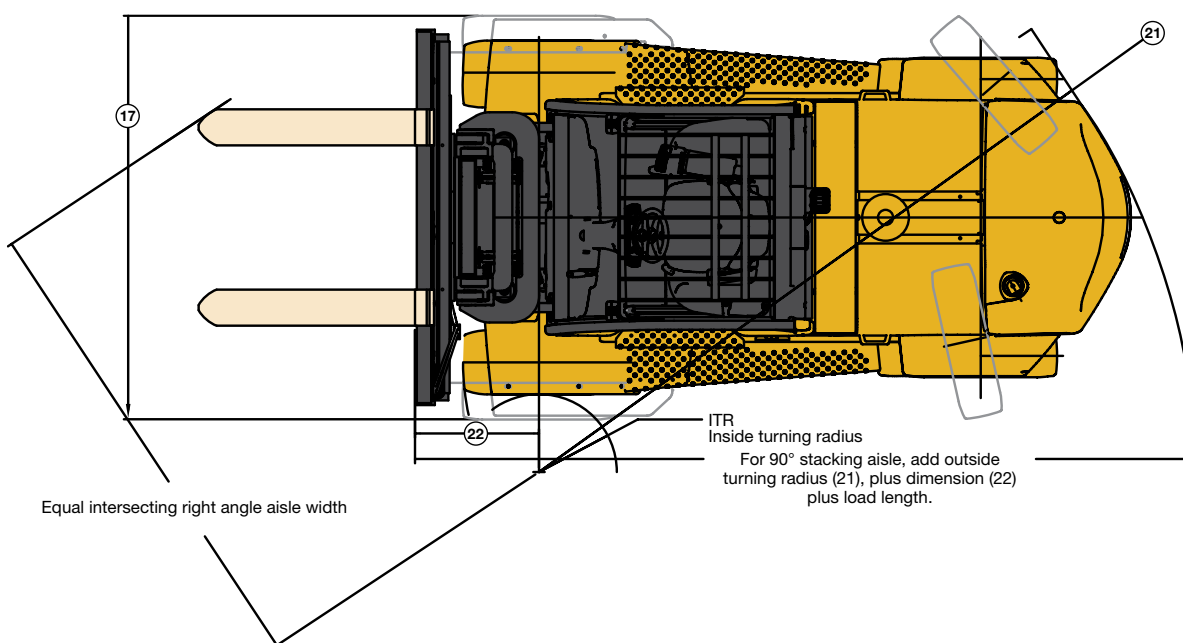
GP 170-190VX

SPEC SHEET

Pneumatic tire internal combustion
counterbalanced forklift

17,000-19,000 lbs





GENERAL SPECIFICATIONS GP170VX – DIESEL, LPG

GENERAL	1	Manufacturer	Yale®	
	2	Model designation	GP170VX	
	2a	Powertrain – engine transmission	Kubota 3.8L DOC Techtronix 332	Kubota 3.8L High Output Techtronix 332
	3	Load capacity	lbs. (kg)	17,000 (8,000)
	4	Load center	in. (mm)	24 (600)
	5	Drive power type: gas, diesel, LPG	Diesel	
	6	Operation	Seated rider	
	7	Step height (from ground to running board)	in. (mm)	12.6 (321)
	7a	Step height (between intermediate steps between running board and floor)	in. (mm)	10.1 (256)
DIMENSIONS	8	Tires	Pneumatic	
	9	Number of wheels, front/rear (X = driven)	4X/2¹	
	10	Lift height, w/LBR (TOF) (rounded down)	in. (mm)	219 (5565)
	11	Standard free lift height (rounded down)	in. (mm)	4 (105)
	12	Fork carriage width – standard carriage	in. (mm)	80³ (2030³)
	12b	Fork spacing – std. carriage – min. inside to inside edge	in. (mm)	2.6 (65)
	13	Fork dimensions	in. (mm)	7.9 × 2.5 × 47.2 (200 × 65 × 1200)
	13a	Fork carriage to DIN 15173. Class, A/B	class	IV A
	14	Fork spacing – std. carriage – max. outside to outside edge	in. (mm)	78.3 (1990)
	15	Mast tilt, forward / back	degrees	5 / 9²
	16	Overall length (length to face of forks)	in. (mm)	153 (3883)
	17	Overall width	in. (mm)	88 (2239)
	18	Height of standard mast, lowered (rounded up)	in. (mm)	156 (3962)
	19	Height of mast, extended w/o load backrest (rounded up)	in. (mm)	266 (6739)
	19a	Height of mast, extended w/load backrest (rounded up)	in. (mm)	270 (6847)
	20	Height to top of standard overhead guard (rounded up)	in. (mm)	100 (2531)
	20a	Height to top of cab (rounded up)	in. (mm)	101 (2549)
	20b	Towing coupling height	in. (mm)	18.7 (476)
	21	Outer turning radius	in. (mm)	145 (3673)
	21a	Inner turning radius	in. (mm)	14.3 (362)
	22	Load distance (load face-center of wheel to face of forks– front overhang) 2-stage	in. (mm)	23.6 (599.5)
	22a	Load distance (load face-center of wheel to face of forks– front overhang) 3-stage	in. (mm)	25.6 (650.5)
	22b	Right angle stack (add length of load)	in. (mm)	168 (4273)
	23	Right angle stack with pallets 42in wide x 48in long	in. (mm)	216 (5492)
	24	90° intersecting aisle (with pallet W=42in, L=48in)	in. (mm)	120 (3056)
PERFORMANCE	25a	Travel speed fwd, RL/NL	mph (km/hr)	12.0/13.1 (19.3/21.1)
	25b	Travel speed rev, RL/NL	mph (km/hr)	11.9/12.8 (19.1/20.5)
	26	Lifting speed, standard 2-stage LFL RL/NL	ft/min (m/sec)	67/67 (.34/.34)
	26a	Lifting speed, optional 3-stage FFL RL/NL	ft/min (m/sec)	64/67 (.33/.34)
	27	Lowering speed, standard 2-stage LFL RL/NL	ft/min (m/sec)	81/73 (0.41/0.37)
	27a	Lowering speed, optional 3-stage FFL RL/NL	ft/min (m/sec)	77/65 (0.39/0.33)
	28	Drawbar pull @ maximum RL/NL	lbs. (kg)	12000/7213 (5443/3272)
	28a	Drawbar pull @ 1 mph RL/NL	lbs. (kg)	11445/7213 (5192/3272)
	28b	Drawbar pull @ 3 mph RL/NL	lbs. (kg)	4444/7213 (2016/3272)
	29	Maximum gradeability RL/NL	%	29/29
WT.	29a	Gradeability @ 1 mph RL/NL	%	27/29
	29b	Gradeability @ 3 mph RL/NL	%	11/29
	31	Weight, standard truck NL	lbs. (kg)	24824 (11260)
WHEELS & TIRES	32a	Axle loading, static front/rear NL	lbs. (kg)	12022/12800 (5453/5806)
	32b	Axle loading, static front/rear RL	lbs. (kg)	37509/4314 (17014/1957)
	33	Tire size – front	8.25 × 15 -14PR¹	
TRANS. & POWER UNIT	34	Tire size – rear	8.25 × 15 -14PR¹	
	35	Wheelbase	in. (mm)	96.5 (2450)
	37	Ground clearance under mast, laden	in. (mm)	6.8 (173)
	38	Ground clearance at center of wheelbase	in. (mm)	10.0 (253)
	39	Brakes service – method of control/operation	Hydraulic/foot	
	40	Brakes park – method of control/operation	Mechanical/hand	
	41	Battery type	Maintenance free	
TRANS. & POWER UNIT	42	Battery volts/cold cranking amps	12V / 1010 × 2	
	43	Engine manufacturer/type	Kubota 3.8L DOC	Kubota 3.8L High Output
	44	Engine power @ governed speed	hp (kw)	74 (55) @ 2200RPM
	45	Torque @ rated RPM	ft. lbs. (N-m)	110 (82) @ 2400RPM
	46	Number of cylinders/displacement	No./cc (ci)	373 (275) @ 1600 RPM
	47	Gear change type	Electronically controlled powershift	
	47a	Transmission: number of speeds forward/reverse	3F / 2R	
	48	Fuel tank – capacity	gal (liters)	19.8 (74.8)
	49	Working pressure for attachments	psi (bar)	2250 (155)
	50	Oil flow for attachments	gal/min (l/min)	24 (93)
	51	Towing coupling type	Pin	
	52	Hydraulic tank – capacity (drain & refill)	gal (liters)	18.7 (70.9)

¹ Other tire options are available.

² Backtilt limited to 6 degrees with some mast options.

³ Carriage is 80" wide, load backrest is 82" wide.

GENERAL SPECIFICATIONS GP175VX – DIESEL, LPG

GENERAL	1	Manufacturer	Yale®	
	2	Model designation	GP175VX	
	2a	Powertrain – engine transmission	Kubota 3.8L DOC Techtronix 332	Kubota 3.8L High Output Techtronix 332
	3	Load capacity	lbs. (kg)	17,000 (8,000)
	4	Load center	in. (mm)	36 (900)
	5	Drive power type: gas, diesel, LPG	Diesel	
	6	Operation	Seated rider	
	7	Step height (from ground to running board)	in. (mm)	12.6 (321)
	7a	Step height (between intermediate steps between running board and floor)	in. (mm)	10.1 (256)
DIMENSIONS	8	Tires	Pneumatic	
	9	Number of wheels, front/rear (X = driven)	4X/2¹	
	10	Lift height, w/LBR (TOF) (rounded down)	in. (mm)	219 (5565)
	11	Standard free lift height (rounded down)	in. (mm)	4 (105)
	12	Fork carriage width – standard carriage	in. (mm)	80³ (2030³)
	12b	Fork spacing – std. carriage – min. inside to inside edge	in. (mm)	2.6 (65)
	13	Fork dimensions	in. (mm)	7.9 × 2.5 × 47.2 (200 × 65 × 1200)
	13a	Fork carriage to DIN 15173. Class, A/B	class	IV A
	14	Fork spacing – std. carriage – max. outside to outside edge	in. (mm)	78.3 (1990)
	15	Mast tilt, forward / back	degrees	5 / 9²
	16	Overall length (length to face of forks)	in. (mm)	159 (4038)
	17	Overall width	in. (mm)	88 (2239)
	18	Height of standard mast, lowered (rounded up)	in. (mm)	156 (3962)
	19	Height of mast, extended w/o load backrest (rounded up)	in. (mm)	266 (6739)
	19a	Height of mast, extended w/load backrest (rounded up)	in. (mm)	270 (6847)
	20	Height to top of standard overhead guard (rounded up)	in. (mm)	100 (2531)
	20a	Height to top of cab (rounded up)	in. (mm)	101 (2549)
	20b	Towing coupling height	in. (mm)	18.7 (476)
	21	Outer turning radius	in. (mm)	149 (3794)
	21a	Inner turning radius	in. (mm)	14.3 (362)
	22	Load distance (load face-center of wheel to face of forks– front overhang) 2-stage	in. (mm)	23.6 (599.5)
	22a	Load distance (load face-center of wheel to face of forks– front overhang) 3-stage	in. (mm)	25.6 (650.5)
	22b	Right angle stack (add length of load)	in. (mm)	173 (4394)
	23	Right angle stack with pallets 42in wide x 48in long	in. (mm)	221 (5613)
	24	90° intersecting aisle (with pallet W=42in, L=48in)	in. (mm)	123 (3126)
PERFORMANCE	25a	Travel speed fwd, RL/NL	mph (km/hr)	11.9/13.1 (19.1/21.0)
	25b	Travel speed rev, RL/NL	mph (km/hr)	11.8/12.7 (19.0/20.5)
	26	Lifting speed, standard 2-stage LFL RL/NL	ft/min (m/sec)	64/67 (.32/.34)
	26a	Lifting speed, optional 3-stage FFL RL/NL	ft/min (m/sec)	61/67 (.31/.34)
	27	Lowering speed, standard 2-stage LFL RL/NL	ft/min (m/sec)	81/73 (0.41/0.37)
	27a	Lowering speed, optional 3-stage FFL RL/NL	ft/min (m/sec)	77/65 (0.39/0.33)
	28	Drawbar pull @ maximum RL/NL	lbs. (kg)	12000/7213 (5443/3272)
	28a	Drawbar pull @ 1 mph RL/NL	lbs. (kg)	11401/7213 (5171/3272)
	28b	Drawbar pull @ 3 mph RL/NL	lbs. (kg)	4399/7213 (1996/3272)
	29	Maximum gradeability RL/NL	%	27/29
WT.	29a	Gradeability @ 1 mph RL/NL	%	26/29
	29b	Gradeability @ 3 mph RL/NL	%	29/29
	31	Weight, standard truck NL	lbs. (kg)	26782 (12148)
WHEELS & TIRES	32a	Axle loading, static front/rear NL	lbs. (kg)	11367/15415 (5156/6992)
	32b	Axle loading, static front/rear RL	lbs. (kg)	39778/4502 (18043/2042)
	33	Tire size – front	8.25 × 15 -14PR¹	
	34	Tire size – rear	8.25 × 15 -14PR¹	
TRANS. & POWER UNIT	35	Wheelbase	in. (mm)	96.5 (2450)
	37	Ground clearance under mast, laden	in. (mm)	6.8 (173)
	38	Ground clearance at center of wheelbase	in. (mm)	10.0 (253)
	39	Brakes service – method of control/operation	Hydraulic/foot	
	40	Brakes park – method of control/operation	Mechanical/hand	
	41	Battery type	Maintenance free	
TRANS. & POWER UNIT	42	Battery volts/cold cranking amps	12V / 1010 × 2	
	43	Engine manufacturer/type	Kubota 3.8L DOC	Kubota 3.8L High Output
	44	Engine power @ governed speed	hp (kw)	74 (55) @ 2200RPM
	45	Torque @ rated RPM	ft. lbs. (N-m)	110 (82) @ 2400RPM
	46	Number of cylinders/displacement	No./cc (ci)	373 (275) @ 1600 RPM
	47	Gear change type	Electronically controlled powershift	
	47a	Transmission: number of speeds forward/reverse	3F / 2R	
	48	Fuel tank – capacity	gal (liters)	19.8 (74.8)
	49	Working pressure for attachments	psi (bar)	2250 (155)
	50	Oil flow for attachments	gal/min (l/min)	24 (93)
	51	Towing coupling type	Pin	
	52	Hydraulic tank – capacity (drain & refill)	gal (liters)	18.7 (70.9)

¹ Other tire options are available.

² Backtilt limited to 6 degrees with some mast options.

³ Carriage is 80" wide, load backrest is 82" wide.

GENERAL SPECIFICATIONS GP190VX – DIESEL, LPG

GENERAL	1	Manufacturer	Yale®	
	2	Model designation	GP190VX	
	2a	Powertrain – engine transmission	Kubota 3.8L DOC Techtronix 332	Kubota 3.8L High Output Techtronix 332
	3	Load capacity	lbs. (kg)	19,000 (9,000)
	4	Load center	in. (mm)	24 (600)
	5	Drive power type: gas, diesel, LPG	Diesel	
	6	Operation	Seated rider	
	7	Step height (from ground to running board)	in. (mm)	12.6 (321)
	7a	Step height (between intermediate steps between running board and floor)	in. (mm)	10.1 (256)
DIMENSIONS	8	Tires	Pneumatic	
	9	Number of wheels, front/rear (X = driven)	4X/2¹	
	10	Lift height, w/LBR (TOF) (rounded down)	in. (mm)	219 (5565)
	11	Standard free lift height (rounded down)	in. (mm)	4 (105)
	12	Fork carriage width – standard carriage	in. (mm)	80³ (2030³)
	12b	Fork spacing – std. carriage – min. inside to inside edge	in. (mm)	2.6 (65)
	13	Fork dimensions	in. (mm)	7.9 × 2.5 × 47.2 (200 × 65 × 1200)
	13a	Fork carriage to DIN 15173. Class, A/B	class	IV A
	14	Fork spacing – std. carriage – max. outside to outside edge	in. (mm)	78.3 (1990)
	15	Mast tilt, forward / back	degrees	5 / 9²
	16	Overall length (length to face of forks)	in. (mm)	156 (3958)
	17	Overall width	in. (mm)	88 (2239)
	18	Height of standard mast, lowered (rounded up)	in. (mm)	156 (3962)
	19	Height of mast, extended w/o load backrest (rounded up)	in. (mm)	266 (6739)
	19a	Height of mast, extended w/load backrest (rounded up)	in. (mm)	270 (6847)
	20	Height to top of standard overhead guard (rounded up)	in. (mm)	100 (2531)
	20a	Height to top of cab (rounded up)	in. (mm)	101 (2549)
	20b	Towing coupling height	in. (mm)	18.7 (476)
	21	Outer turning radius	in. (mm)	147 (3723)
	21a	Inner turning radius	in. (mm)	14.3 (362)
	22	Load distance (load face-center of wheel to face of forks– front overhang) 2-stage	in. (mm)	23.6 (599.5)
	22a	Load distance (load face-center of wheel to face of forks– front overhang) 3-stage	in. (mm)	25.6 (650.5)
	22b	Right angle stack (add length of load)	in. (mm)	170 (4323)
	23	Right angle stack with pallets 42in wide x 48in long	in. (mm)	218 (5542)
	24	90° intersecting aisle (with pallet W=42in, L=48in)	in. (mm)	121 (3085)
PERFORMANCE	25a	Travel speed fwd, RL/NL	mph (km/hr)	11.9/13.0 (19.2/21.0)
	25b	Travel speed rev, RL/NL	mph (km/hr)	11.8/12.7 (19.1/20.5)
	26	Lifting speed, standard 2-stage LFL RL/NL	ft/min (m/sec)	54/67 (.27/.34)
	26a	Lifting speed, optional 3-stage FFL RL/NL	ft/min (m/sec)	50/67 (.26/.34)
	27	Lowering speed, standard 2-stage LFL RL/NL	ft/min (m/sec)	81/73 (0.41/0.37)
	27a	Lowering speed, optional 3-stage FFL RL/NL	ft/min (m/sec)	77/65 (0.39/0.33)
	28	Drawbar pull @ maximum RL/NL	lbs. (kg)	12000/7213 (5443/3272)
	28a	Drawbar pull @ 1 mph RL/NL	lbs. (kg)	11433/7213 (5186/3272)
	28b	Drawbar pull @ 3 mph RL/NL	lbs. (kg)	4431/7213 (2010/3272)
	29	Maximum gradeability RL/NL	%	27/29
WT.	29a	Gradeability @ 1 mph RL/NL	%	25/29
	29b	Gradeability @ 3 mph RL/NL	%	10/29
	31	Weight, standard truck NL	lbs. (kg)	25857 (11729)
WHEELS & TIRES	32a	Axle loading, static front/rear NL	lbs. (kg)	11693/14162 (5304/6424)
	32b	Axle loading, static front/rear RL	lbs. (kg)	40179/4678 (18225/2122)
	33	Tire size – front	8.25 × 15 -14PR¹	
	34	Tire size – rear	8.25 × 15 -14PR¹	
	35	Wheelbase	in. (mm)	96.5 (2450)
	37	Ground clearance under mast, laden	in. (mm)	6.8 (173)
	38	Ground clearance at center of wheelbase	in. (mm)	10.0 (253)
	39	Brakes service – method of control/operation	Hydraulic/foot	
	40	Brakes park – method of control/operation	Mechanical/hand	
TRANS. & POWER UNIT	41	Battery type	Maintenance free	
	42	Battery volts/cold cranking amps	12V / 1010 × 2	
	43	Engine manufacturer/type	Kubota 3.8L DOC	Kubota 3.8L High Output
	44	Engine power @ governed speed	hp (kw)	74 (55) @ 2200RPM
	45	Torque @ rated RPM	ft. lbs. (N-m)	110 (82) @ 2400RPM
	46	Number of cylinders/displacement	No./cc (ci)	373 (275) @ 1600 RPM
	47	Gear change type	I-4/3769 (230)	
	47a	Transmission: number of speeds forward/reverse	Electronically controlled powershift	
	48	Fuel tank – capacity	gal (liters)	3F / 2R
	49	Working pressure for attachments	psi (bar)	19.8 (74.8)
	50	Oil flow for attachments	gal/min (l/min)	2250 (155)
	51	Towing coupling type	24 (93)	
	52	Hydraulic tank – capacity (drain & refill)	gal (liters)	Pin
				18.7 (70.9)

¹ Other tire options are available.

² Backtilt limited to 6 degrees with some mast options.

³ Carriage is 80" wide, load backrest is 82" wide.

ENGINE SPECIFICATIONS (HIGH OUTPUT)

Kubota 3.8L high output tier 4 turbo diesel engine

Cylinders	Displacement	Torque	Horsepower	Air filtration	Emission control
I-4	230 cu.in./3.8 liter	373 lb.ft. @ 1600 RPM	110 hp @ 2400 RPM	Two stage, dry type	DPF/SCR control

ENGINE SPECIFICATIONS (DOC – DIESEL OXIDATION CATALYST)

Kubota 3.8L DOC tier 4 final turbo diesel engine

Cylinders	Displacement	Torque	Horsepower	Air filtration	Emission control
I-4	230 cu.in./3.8 liter	227 (309) lb.ft. @ 1400 RPM	74 hp @ 2200 RPM	Two stage, dry type	DOC control

GP170-190VX MAST DIMENSIONS

TYPE	Maximum lift height (top of fork)	Overall lowered height	Overall extended height		Free lift height (top of fork)		Approx. total wt. of std. equipped truck		
			with LBR	without LBR	with LBR	without LBR	GP170VX with NL	GP175VX with NL	GP190VX with NL
	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	lbs. (kg)	lbs. (kg)	lbs. (kg)
2LFL	140 (3565)	117 (2962)	191 (4850)	186 (4725)	4 (105)	4 (105)	23361 (11050)	26592 (12062)	25395 (11519)
	179 (4565)	137 (3462)	231 (5850)	226 (5725)	4 (105)	4 (105)	24590 (11154)	26821 (12166)	25624 (11623)
	219 (5565)	156 (3962)	270 (6850)	265 (6725)	4 (105)	4 (105)	24822 (11259)	27053 (12271)	25856 (11728)
3FFL	181 (4615)	107 (2702)	240 (6077)	235 (5952)	56 (1440)	61 (1565)	25216 (11438)	27447 (12450)	26250 (11907)
	234 (5965)	125 (3152)	293 (7427)	288 (7302)	74 (1890)	79 (2015)	25527 (11579)	27758 (12591)	26561 (12048)
2LFL	179 (4565)	137 (3462)	231 (5850)	226 (5725)	4 (105)	4 (105)	24943 (11314)	27174 (12326)	25977 (11783)
	219 (5565)	156 (3962)	270 (6850)	265 (6725)	4 (105)	4 (105)	25344 (11496)	27575 (12508)	26378 (11965)
3FFL	258 (6565)	133 (3362)	317 (8037)	312 (7912)	82 (2090)	87 (2215)	26052 (11817)	33711 (15291)	27086 (12286)

RL = Rated load NL = No load

Note: GP170-190VX use standard 8.25 x 15 x 14 PR pneumatic drive tires @ 82.0 inch (2082 mm) overall width.

OPTIONS LIST

Powertrain protection system with engine shutdown	High-visibility non-cinch seat belt with or without interlock
Premium monitoring package	Foot directional control pedal
Integral sideshifter, and integral sideshifting fork positioner	Impact monitor
Accumulator	Operator password
Keyless start (with auxiliary key switch)	Alarm-reverse actuated 82-102 Db(A) – self-adjusting
LED brake and back-up lights	LED amber strobe light – keyswitch activated
Headlights and rear drive lights with halogen bulbs	Solid and radial tires
Headlights and rear drive lights with LED bulbs	4 function (2 aux) hydraulic control valve
Traction speed limiter	5° forward/6° backward tilt
Return-to-set tilt	UL type DS
Integral operator's cab	Fire extinguisher
Rear drive handle with horn button	Lifting eyes
Swivel full-suspension vinyl and cloth seats	Kubota 3.8L high output wngine (110 HP)

About Yale



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

MATERIALS HANDLING FOR:

Third-party logistics (3PL)

Auto parts distribution

Beverage

Cold & frozen foods

Food distribution

Food processing

Furniture & furnishings

Government


Health & pharma

Home centers & durables

Retail & e-commerce

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