

Exceeding your expectations.

The Kalmar Essential Range of forklifts gives you everything you expect from Kalmar – a quality build with high availability and excellent productivity for a very competitive price.

Kalmar forklifts are built to take on your toughest loads, making them ideal for demanding applications like container, steel and wood handling. Our forklifts are available with capacities from 22,000 - 40,000 lbs, three different masts, and four different carriages to match your exact lifting needs. The range of Essential forklifts will exceed your expectations.

Kalmar quality for all.



Expect greater value. Built on our proven platform, our Essential Range of forklifts deliver everything you need in a medium sized forklift, without compromise. You get a great truck, at a great price.



Expect Kalmar quality. Robust, reliable and with market leading availability, Kalmar trucks are designed to last, which is why they command the highest resale



Expect a safer truck. The safety of your drivers and employees is critically important to us, which is why all Kalmar forklifts come with a wide range of safety



Expect more support. Kalmar has a full range of support services including KalmarCare, Kalmar Genuine Parts and the Kalmar Academy, where drivers and service technicians can learn more about their new forklifts.

Mast options.

Duplex mast:

Duplex full free mast:

Triplex full free mast: 177-276"







Lifting capacities.

Lifting capacities in lbs.

















Introducing the Essential cabin.

The Kalmar Essential cabin has everything your drivers need to operate at their best. The well-designed, spacious cabin offers great visibility both forward and backward. You get an adjustable seat, power-assisted steering, and easy lift operation with control levers or an optional joystick. Keeping your drivers comfortable and in full control.

A safer operating environment.

Every Kalmar forklift comes with non-slip steps and handrails for safe three-point access to the cabin. The cabin has doors on both sides so the driver can exit from either side in case of an emergency. All servicing points are at ground level to reduce the risk of injury from falling. The entire Essential Range of machines complies with the most recent operator health and safety guidelines and can be equipped with additional optional safety features, making your operations as safe as possible.



Spacious and well designed cabin.



Safe, three point access.

Efficient and easy to maintain.

A forklift built for efficiency.

You get the choice of two different Volvo engines, including a new smaller yet highly efficient 141hp version. The engines are compliant with Tier 4 Final emissions standards and are combined with a highly efficient gearbox and drive axle. Our gear pumps are extremely reliable, easy to service and come in three different capacities, depending on the size of your forklift.

Three cabin choices.

Fully enclosed cabin.



Partially enclosed with no doors.



Full open cabin with no doors or windows.



Two cabin positions.

- Standard mounted cabin
- Raised (11.8") cabin



Extra efficient:

Lift & lowering speeds

- ↑ 1.1ft/sec without load ↑ 1.0ft/sec with load
- ↓ 1.3ft/sec without load
- 1.3ft/sec with load

Top speed

19mph

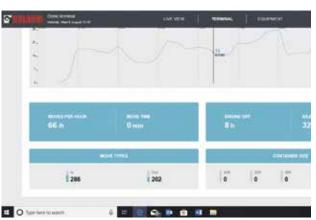
Volvo engine ratings

141 & 173 hp Tier 4 Final

Optimize your forklift with Insight.

Kalmar Insight is a powerful equipment optimization tool that can help you get more from your fleet. Data is streamed directly from your equipment, analyzed and then displayed in an accessible and easy-to-use graphic interface. You will be able to assess the equipment's key performance data and adapt your operational processes to improve both efficiency and productivity.

Kalmar Insight enables you to manage your operations more effectively, decrease downtime and improve safety at your site.



Kalmar Insight, a real-time optimization tool

Easy to maintain, with industry leading service intervals.

Performing daily inspections and routine servicing is quick and convenient with all check points directly accessible at ground level. The electrical cabinet is easy to access and, when the cabin is raised, the hydraulic filters, servicing points and the entire drivetrain can be reached from one location. With industry-leading service intervals of 500 hours, your machine will spend less time being maintained and more time working.

Kalmar Training Academy.

For your team to get the most out of their new forklift, the Kalmar Training Academy offers a range of courses for both your technicians and operators. Operators will be shown how to optimize their day-to-day operational performance and what needs to be checked daily on the truck before operations begin.

Technicians will be given the knowledge needed to keep your forklift in top condition. Courses are a mix of theory and hands-on experience and can be held at Kalmar or at your site.

Kalmar has a range of options for you to choose from:

For the cabin:

- You can choose to have your cabin mounted 11.8" higher for better visibility.
- Your cabin can be fully enclosed, partially enclosed or fully open.
- You can choose to add air-conditioning or sun screens to protect your drivers from the sun.
- You can choose additional grid protection for enhanced driver safety when handling items that may fall, like wood or other debris.
- Or upgrade to a premium GRAMMER seat with additional dampening for the ultimate in operator comfort.



For the machine:



Rear Mounted Camera. Knowing what's going on behind you is critical when other personnel are present. A rear mounted camera can provide real-time information to an in-cabin display, helping improve personnel and driver safety.



LED Blue Safety Light. To protect bystanders in noisy environments, a blue LED safety light can be fitted. The safety light projects onto the ground behind the forklift, so bystanders can see which direction the forklift is moving and do not need to rely on hearing the machine.



Reverse Travel Alarm System. Working side by side with moving vehicles always involves some safety risks. Installing a reverse travel alarm system provides a clear acoustic alert when the forklift is reversing, so personnel are sure to stay out of harm's way.



Speed Limiter. Allows a trained service technician to set a safe speed limit on the forklift that your operators cannot exceed.



Additional lighting. Extra lighting brings greater operational visibility and safety for personnel working at your site, particularly at night. You can choose from:

- Flashing brake lights when reversing
- Additional lights on the mast (2 pc)
- Additional lights on the cabin roof (2 pc).



Electronic Inching. When you are lifting heavy loads, you will need additional power. Electronic Inching allows you to maintain high engine revs for the hydraulic system without engaging the drive in the gearbox. This is achieved by releasing the clutch electronically prior to revving the engine.



Central Greasing: By installing a central greasing system, you can be certain that your machine components are fully lubricated when they need to be, no matter where they are or how difficult it is to access them. Keeping them fully lubricated will reduce your servicing and component replacement costs.



Kalmar Care.

Making sure your business never stops.

We offer four different types of service and maintenance contracts. Each is designed to help you improve your operational efficiency, drive productivity and secure financial predictability. Each contract type includes a set of standardized service modules to meet your business needs. Here is an overview of the four different levels:

The four flexible types of service contracts.

Kalmar Support Care

We support your maintenance processes on demand.

- Availability of competent people with the right tools and parts
- Addition of skills to existing maintenance organization

Kalmar Essential Care

We perform your agreed maintenance tasks proactively.

- Availability of competent people with the right tools and parts
- Higher degree of financial predictability
- Reduced operational risk for terminal
- Improved availability of machines

Kalmar Complete Care

We meet your complete maintenance requirements.

- Improved predictive maintenance
- Low operational risk for terminal
- Reduced equipment downtime
- Reduced total cost of operation
- Increased operational predictability

Kalmar Optimal Care

We optimize your business performance.

- Guaranteed availability
- Reduced tied-in capital
- Improved business performance
- Increased peace of mind

Kalmar Genuine Parts.

When the right part matters.

When something needs to be replaced, you need a spare part that meets your exact needs – urgently. Kalmar offers a rapid delivery service for over 50,000 premium-quality genuine parts to anywhere in the world, with installation support if needed.

You may also want to consider outsourcing all or part of your spare parts management and inventory control. Kalmar Parts Care makes sure that critical spare parts are always on hand so your equipment downtime is kept to a minimum. Each Kalmar Parts Care plan is based on your operational needs, so talk to us today and see how we can improve your parts availability while reducing your inventory costs.

Financing options for you.

Lease or rent.

You may choose to buy your new forklift outright or consider leasing or renting your equipment. Kalmar offers a range of options that give you the financial predictability you need and the option to upgrade your equipment after a fixed period. With our leasing packages, you can focus on your core operations, while we perform all your service and maintenance tasks. Kalmar can also work with you when trading in your old equipment.

No matter what your service and support needs are, make sure you speak to your local Kalmar team first.

Technical information.

				DCG100-6T	DCG120-6T	DCG127-
	Model designation			DCG100-6T	DCG120-6T	DCG127-6T
DAIA	Power source			Diesel	Diesel	Diesel
5	Rated capacity / rated load	lb		22,000	26,000	28,000
Z	Load center distance	in	L4	24	24	24
	Load distance, center of drive axle to fork	in	L2	38.2	38.2	38.2
	Wheelbase	in	L3	118	118	118
	Service weight	lb		39,020	39,900	41,230
n	Axle loading, unloaded front	lb		22,490	22,490	22,490
<u> </u>	Axle loading, loaded front	lb		36,380	62,170	65,260
WEIGHIS	Axle loading, unloaded rear	lb		16,530	17,420	18,740
	Axle loading, loaded rear	lb		4,850	3,750	3,970
	<u>.</u>			,		,
	Type, front / rear					
·0	Tire size, front	in			12.00×20/20PR	
EELS	Tire size, rear	in			12.00×20/20PR	
Ĭ	Number of wheels, front / rear (x = driven wheels)				4x / 2	
	Track width, front / rear	in	S		73 / 77	
	Tire pressure	psi			145	
			2.12			
	Mast tilt,∂ = forward / β = backward	0	∂/B		14 / 10	
	Height of mast lowered	in	H3		165	
	Lift height	in	H4		197	
	Height of mast extended Truck height – EGO / OHG cabin roof	in in	H5 H6		257 118	
	Seat height	in	H8		70	
	Height when tilting EGO cab / OHG	in	T1		127	
	Width when tilting EGO cab / OHG	in	T2		138	
	Truck length (to face of forks)	in	L	189	189	189
ONS	Truck width	in	В	109	100	109
ENSIC	Fork dimensions, width	in	b	7.9	7.9	7.9
	Fork dimensions, thickness	in	a	2.8	2.8	2.8
Σ	Fork dimensions, length of fork arm	in	I	48	48	48
	Fork carriage width	in	b3		98	
	Width over fork arms, maximum / minimum	in	V	93 / 24	93 / 24	93 / 24
	Sideshift ± @ width over forks	in	V1 / V		19/ 55	
	Ground clearance, laden, below mast	in			10	
	Ground clearance, machine	in			14	
	Min. aisle width for 90° stacking with forks	in	A1	255	255	255
	Turning radius	in	R1	165	165	165
	Internal turning radius	in	R2	3	3	3
O.	Operating pressure for hydraulics	psi		1670	1960	2030
Ë	Hydraulic oil tank, capacity	gal		58	58	58
OTHERS	Fuel tank, capacity	gal		45	45	45
	Diesel Exhaust Fluid (DEF) tank, capacity	gal		4	4	4

Performance.

_			DCG100-6T	DCG120-6T	DCG127-6T	DCG140-6T	DCG150-6T	DCG100-12T	DCG120-12T	DCG150-12T	DCG160-6T	DCG160-9T	DCG160-12T	DCG180-6T
	Lifting speed	Unloaded (ft/s)	1.5	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
		At 80 % of rated load (ft/s)	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
\mathbb{R}	Lowering speed	Unloaded (ft/s)	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
.22		At rated load (ft/s)	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
¥	Traveling speed, F/R	Unloaded (mph)	18	18	18	18	18	18	18	18	18	18	18	18
8		At rated load (mph)	17	17	17	17	17	17	17	16	16	16	16	16
ğ	Gradeability, max.	Unloaded (%)	94	87	82	80	59	66	60	49	62	53	49	51
Ä,		At rated load (%)	45	39	36	33	30	37	33	27	29	27	27	25
Ž	Gradeability, at 1.2 mph	Unloaded (%)	73	67	61	60	47	51	47	40	49	43	40	41
Σ		At rated load (%)	36	33	30	29	25	31	27	23	25	23	23	22
SF.	Drawbar pull	Max. (lbf)	22,300	22,300	22,300	22,300	22,300	22,300	22,300	22,300	22,300	22,300	22,300	22,300
描	Noise level, inside	LpAZ*, Essential cabin (dB(A))	76	76	76	76	76	76	76	76	76	76	76	76
		LpAZ*, Essential OHG (dB(A))								-	-	-	-	-
	Noise level, outside	LWA** (dB(A))	108	108	108	108	108	108	108	108	108	108	108	108

			DCG100-6T	DCG120-6T	DCG127-6T	DCG140-6T	DCG150-6T	DCG100-12T	DCG120-12T	DCG150-12T	DCG160-6T	DCG160-9T	DCG160-12T	DCG180-6T
	Lifting speed	Unloaded (ft/s)	1.5	1.1	1.1	1.1	1.1	1.1	1.1	-	-	_	-	-
		At 80 % of rated load (ft/s)	1.3	1.0	1.0	1.0	1.0	1.0	1.0	-	-	_	-	-
NE NE	Lowering speed	Unloaded (ft/s)	1.3	1.3	1.3	1.3	1.3	1.3	1.3	-	-	-	-	-
25/		At rated load (ft/s)	1.3	1.3	1.3	1.3	1.3	1.3	1.3	-	_	_	_	_
TADS	Traveling speed, F/R	Unloaded (mph)	17	17	17	17	17	17	17	-	-	-	-	-
OLVO		At rated load (mph)	17	17	17	17	17	17	17	-	_	_	_	_
ゔ゙	Gradeability, max.	Unloaded (%)	79	73	69	67	50	55	50	-	-	-	-	-
ή		At rated load (%)	41	36	33	31	27	34	30	_	_	_	_	_
ANC	Gradeability, at 1.2 mph	Unloaded (%)	63	59	53	52	41	44	41	-	-	-	-	-
≩		At rated load (%)	34	30	28	27	23	29	25	-	_	_	_	_
Ž	Drawbar pull	Max. (lbf)	21,100	21,100	20,200	20,200	20,200	20,200	20,200	-	-	-	-	-
PERFO	Noise level, inside	LpAZ*, Essential cabin (dB(A))	76	76	76	76	76	76	76	_	_	_	_	_
		LpAZ*, Essential OHG (dB(A))	-	-	-	-	-	-	-	-	-	-	-	-
	Noise level, outside	LWA** (dB(A))	107	107	107	107	107	107	107	-	-	_	-	-

Volvo TAD571VE[†] ZF 3WG161 (173 hp)

Drivetrain.

	Manufacturer's type designation		Volvo TAD570VE (Turbo-Intercooler)	Volvo TAD571VE (Turbo-Intercooler)		
	Fuel, type of engine		Diesel, 4-stroke	Diesel, 4-stroke		
	Rating ISO 3046 / at revs	hp / rpm	141 / 2,300	173 / 2,300		
뿔	Peak torque ISO 3046 / at revs	lbf-ft / rpm	524 / 1,000-1,400	597 / 1,100-1,500		
ENGINE	Number of cylinders / displacement	in ³	4/313	4/313		
ш	Fuel consumption, normal driving	gal/h	1.6-2.1	1.8-2.4		
	Diesel Exhaust Fluid (DEF) consumption, normal driving	% of diesel	4-6	4-6		
	Emission standard		Tier 4 Final	Tier 4 Final		
	Manufacturer's type designation		ZF 3WG131	ZF 3WG161		
& MISC.	Clutch, type		Torque converter	Torque converter		
≥ ∝	Gearbox, type		Hydrodynamic Powershift	Hydrodynamic Powershift		
ŏ	Numbers of gears, forward / reverse		3/3	3/3		
Ä	Alternator, type / power	Amp	AC / 110	AC / 110		
GEARBOX	Starting battery, voltage / capacity	V / Ah	2×12 / 150	2×12 / 150		
	Driving axle, manufacturer / type		Kessler / Differential and hub reduction*	Kessler / Differential and hub reduction**		

Volvo TAD570VE ZF 3WG131 (141 hp)

[†] Standard on DCG150-12T to DCG180-6T

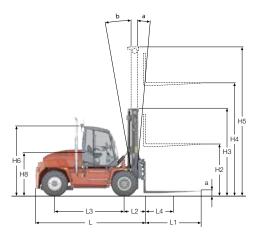
^{(33,000 - 40,000} lbs.) models

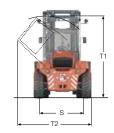
* DCG100-140-6T, DCG100-12T Kessler D61

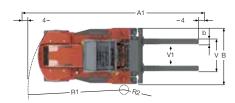
** DCG120-12T, DCG150-6-DCG180-6T Kessler D81

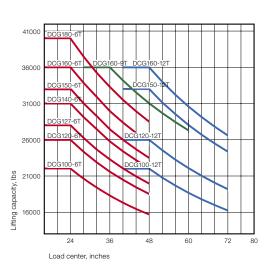
Lifting data.

	Lift height	Mast height		Free lift	
	H4	H3 min	H5 max	H2	
			DCG100-180	Т	
	118	126	185	-	
	128	131	195	-	
>	138	136	205	-	
DUPLEX STANDARD, CLEAR VIEW	148	141	214	-	
ĒĀ	157	145	224	-	
ე ე	167	150	234	-	
ARE	177	155	244	-	
Ā	187	160	254	-	
S X	197	165	264	-	
PE	217	175	283	-	
4	236	185	303	-	
	256	195	323	-	
	276	205	342	-	
	118	126	185	59	
	128	131	195	64	
<u>></u>	138	136	205	69	
DUPLEX FULL FREE LIFT, CLEAR VIEW	148	141	214	74	
LEA	157	145	224	79	
Ę	167	150	234	84	
	177	155	244	89	
FR	187	160	254	94	
FIL	197	165	264	98	
Ę	217	175	283	108	
DG.	236	185	303	118	
	256	195	323	128	
	276	205	342	138	
	177	123	244	59	
ج ئے	197	130	263	66	
TRIPLEX FFL, CLEARVIEW	217	136	283	72	
PLE	236	143	303	79	
도고	256	149	322	85	
	276	156	342	92	









Full lifting capacity up to 197" lift height with duplex/duplex freelift/triplex masts and integrated sideshift/fork positioning

Standard.

- Cabin

 Standard seat with 2-pc belt mechanical suspension

 Full suspension seat with adjustable backrest angle
- Armrest adjustable for height and reach, on right side

- Steering wheel with spinner
 Steering wheel with spinner
 Tiltable steering wheel column
 Levers installed in steering column (shifting, direction indicators)
 Brake pedal
- Electronic accelerator pedal.

- For closed cabin

 Window panes on roof and rear (tempered), and front (tinted and laminated)

 Heater unit with directed vents

 Wiper and washer system for front pane.

Drive train

- Steering axle: Kalmar
- Drive axle: Kessler D61/81
- Automatic gear shift with declutch, possible to change to manual gearshift.

Hydraulics

- Electrical servo
- 2 functions lift, tilt
- Level sight glass on hydraulic oil tank
 Tilt angles std 10°F/14°B.

- Body
 Tiltable cab
- Steps with anti-slip protection.Lifting eyes in mast.

- Electrical system

 Electrical system 24 V

 Rear combination brake/indicator lights, LED

 Rear cab mounted work lights 2pcs, LED

 Working lights front fenders 2 pcs, LED

 Working lights mast 2 pcs, LED

 Front indicator lights, LED

 Mechanical main power switch.

- Wheels
 DCG100-160T: 12.00x20/20PR
 DCG180T: 12.00x20/20PR HD.
- Color

 Cab: frame RAL 7011/70", covers "RAL 7021/10"

 Chassis: Kalmar Red 2012 (Base ref.RAL 3000/75)

 Lifting equipment: Kalmar Black (Base ref.RAL 7021/30).

Documentation and decals

- Operators manual (electronic) Maintenance manual (electronic)
- Parts catalog (electronic).







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