

## We mean business

The DCG50-90 industrial diesel forklift from Kalmar is a profitable investment. This lightweight machine helps you produce more in less time. And that translates into larger revenues and higher productivity.

But isn't every forklift a profitable investment, regardless of its brand? Isn't a forklift a forklift? Not really, not if you want a machine that will make a noticeable improvement on your business.

Consider your forklift an integral part of your production system, every bit as important as your other machinery.

Kalmar has one big advantage when it comes to manufacturing lightweight industrial forklifts. Unlike most of our competitors, we also have a strong tradition with high-capacity forklifts.

We have put our experiences from these demanding applications into the design of the DCG50-90. There is



## The bottom line

You should be able to push your forklift hard, shift after shift, without experiencing any technical problems. It's as simple as that, at least in theory. In practice, only Kalmar delivers.

Ruggedness alone is not sufficient though. You also need high operational performance and useful features to work efficiently in the plant. The DCG50-90 delivers the technological excellence required to meet the demands of even the most skilled operators.

Perhaps you may still ask yourself: "How important can it be to choose the very best forklift? Isn't good enough, enough? After all, forklift operation is not our core business?"

#### **Productivity and savings**

We say, your forklifts are absolutely business critical. Or, at least they should be. If you produce or handle heavy industrial products, you need to ensure your forklifts run smoothly, around the clock. It will show favorably on your bottom line.

A Kalmar forklift delivers, on average, 10 percent higher productivity than our previous model DCF50-90. The difference between finishing eleven

instead of ten lifts in the same time may seem small. But looking over the year – or over the forklift's lifetime – it translates into a lot of money. Just like the 15 percent less fuel consumption, which you will enjoy by operating the forklift in Kalmar's proprietary Eco mode.

#### Smoother service and higher resale value

Fewer unplanned stoppages, faster maintenance and repairs and longer service intervals combine to increase the forklift's total productive time, while lowering life-cycle costs.

In fact, your DCG50-90 will continue to save you money even after it's through serving you. Like a premium car brand, your Kalmar will have the highest resale value in the forklift market.

Savings potential with the DCG50-90

This example shows how a sawmill (or similar production facility) can save money using Kalmar DCG50-90.



Using the economy engine mode, Eco, reduces fuel consumption by up to 15 percent.

#### Productivity improvement

hydraulic system and electric system together improves productivity by 10 percent compared to the previous generation of Kalmar lightweight forklifts.





## Tailored for your production

Your production system consists of many customized machines and systems. Conveyors, hoists, robots – and forklifts – must all be perfectly adapted to your demands. Because every production line is unique.



**Four at a time.** Kalmar's paperclamp attachment makes it possible to speed up the handling of paper rolls at Gävle harbor in Sweden.

#### **G-Generation tailoring**

Like any other part of your production system, your forklifts need to be customized to your operations. And there are many aspects to consider in order for them to perform optimally. Kalmar is globally renowned for its highly tailored forklifts. The DCG50-90 is no exception. Like its fellow Kalmar G generation machines, it comes with many customizable features.

#### Industry-specific adaptations

Given our forklifts' excellent adjustability, it's no surprise our customers are found in such diverse industries as paper and pulp, wood, steel, concrete, offshore – just to name a few.

#### Wide range of attachments

The forklift can be equipped with any lifting equipment your business may require including pipe clamps, multiple-pallet handlers, coilrams or special tools.

#### Three different performance settings

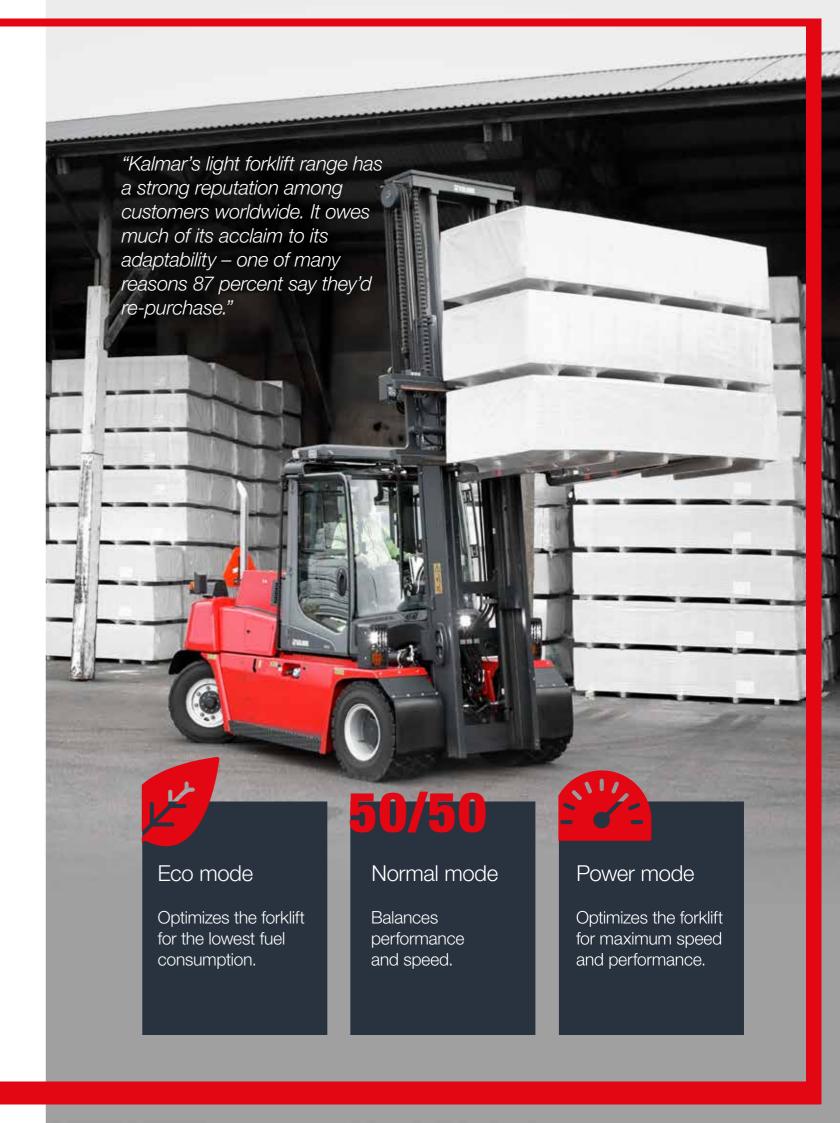
The driver can optimize the forklift's operational performance depending on the actual need for e.g. low fuel consumption or high power output. All from the comfort of the popular EGO cabin – and by simply toggling a switch during operation.

#### **Tailored operator environment**

Customizing your forklift is not just about ordering factorydelivered features. It's also about being able to adapt the driver's operational environment using, for example, adjustable seat, levers and settings. Need we say that no other forklift brand is as adaptable to different driver requirements?

#### Can we cater for your needs too?

Many of our tailored customer solutions have later been taken up as standard options in our attachment range. After all, you – our customers – know your business best, and we'd be happy to discuss the most suitable attachment solution for your special needs.





Most companies agree that safety and ergonomics are important. But is it really worth the expense to go for the *very best* operator environment? We say: can you afford *not* to care for your operators' well-being?

Even the most advanced forklift is only half a forklift without a healthy and motivated driver. Invest in your operators' wellbeing and you can expect them to perform better, stay healthy and remain loyal to your company. Who wouldn't want that?

Your operators' performance depends directly on their health and safety. Not only as reduced sick leave, but above all as improved productivity. The many ergonomic and safety features implemented in Kalmar's EGO cabin – which comes as standard with the DCG50-90 – allow operators to perform at their best.

#### Clear view

Stepping into the cabin, you will immediately notice the exceptionally good view diagonally, forward and backward. Curved, and with no side-posts, the large front-view window provides perfect, unobstructed view of the work area. No more constantly changing positions to get a clear view from the cabin.

#### **Electronic control**

Levers and controls are made with operator ergonomics and performance in mind. Every feature is electronically operated and adjusted. Take our mini-steering wheel, for example. Maneuvering the forklift with only one finger helps to offload the operator's arms, neck and shoulders. An electric joystick allows for precise control of your attachments, while making lifting easier.

With thousands of lifts every year, features like these ensure good operator health in the long run.

There is also a reverse camera that gives the operator a clear back view. In fact, by choosing our optional rotatable operator seat, you can swing the seat around 180 degrees to be able to always drive in the forward direction.

Along with complete climate control, the many ergonomic features make the EGO cabin a safe and luxurious working environment that can be customized to each driver's needs.



#### Turnable seat and mini-steering wheel

In tough applications, the operator makes more than 150,000 lifts every year. Just imagine the offloading of neck and shoulders when being able to always drive in the forward direction, or steering the forklift with only your index finger.

#### Why ergonomics matter

Your forklift lifts more than you think. Here is an estimate of the typical yearly number of lifts in tough 24/7 industrial operations.

Lifts per hour: 25 Lifts per day: 25 x 20 hours = 500 lifts Lifts per year: 500 x 300 days = 150,000 lifts

# Fault diagnosis with pinpoint accuracy

Every machine needs service at regular intervals, and it takes this or that much time to get it fixed. And you simply have to expect unplanned stoppages and try your best to estimate the maintenance costs. Right? Not necessarily.

What if you could avoid costly standstills altogether? Or prolong your service intervals and have the first service after 500 hours? It's possible with the DCG50-90 and any other G-generation machine from Kalmar.

#### Early alert

The forklift's electric system contains advanced computer technology. Its features include precise diagnostics that informs the operator if there is a problem with the machine.

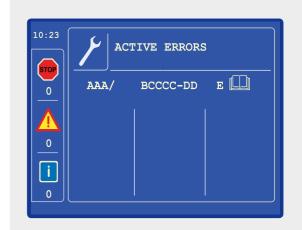
This heads-up alerting system allows the operator to immediately call in service personnel and thus eliminate the problem before it is allowed to cause stoppage and costly downtime.

#### Fast troubleshooting

What used to take hours of troubleshooting is now instantly presented as an error code in a display. This is made possible by continuously registering operational data in the forklift's control system.

Many times, operators can solve a problem themselves, before it escalates into failure. Repairs are speeded up since the service technician will know about the problem in advance, and can bring the appropriate replacement parts to your site.

If your business machine is even more mission critical than for most companies, Kalmar are also proud to offer an extensive range of leasing and service contracts.



A fault is presented as an error code consisting of device number (marked AAA in the above chart), component number (BCCCC-DD) and type of error (E).

#### Kalmar Care – Making sure your business never stops

We offer four types of service and maintenance contracts. Each has a set of standardized modules to meet your business's needs. Which level is most suitable for your needs?

#### **Kalmar Support Care**

We support your maintenance processes on demand.

- Availability of skilled people with the right tools and parts.
- Added skills to your maintenance organization.

#### Kalmar Complete Care

We meet your complete maintenance requirements.

- Improved predictive maintenance.
- Lower operational risk for customers.
- Reduced equipment downtime.
- Reduced total cost of operation.
- Increased operational predictability.

#### **Kalmar Essential Care**

We perform agreed maintenance tasks proactively.

- Availability of skilled people with the right tools and parts.
- Improved financial predictability.
- Reduced operational risk for customers.
- Improved availability of machines.

#### Kalmar Optimal Care

We optimize your business performance.

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

## The big picture

Say your new premium-class Kalmar DCG50-90 forklifts are now up and running at your plant. Performing superbly, perfectly customized. But how efficiently are they working together?

Just because each individual forklift performs optimally, doesn't mean they are optimized at plant level. If not, your forklift fleet won't perform as expected after all.

#### Revealing productivity thieves

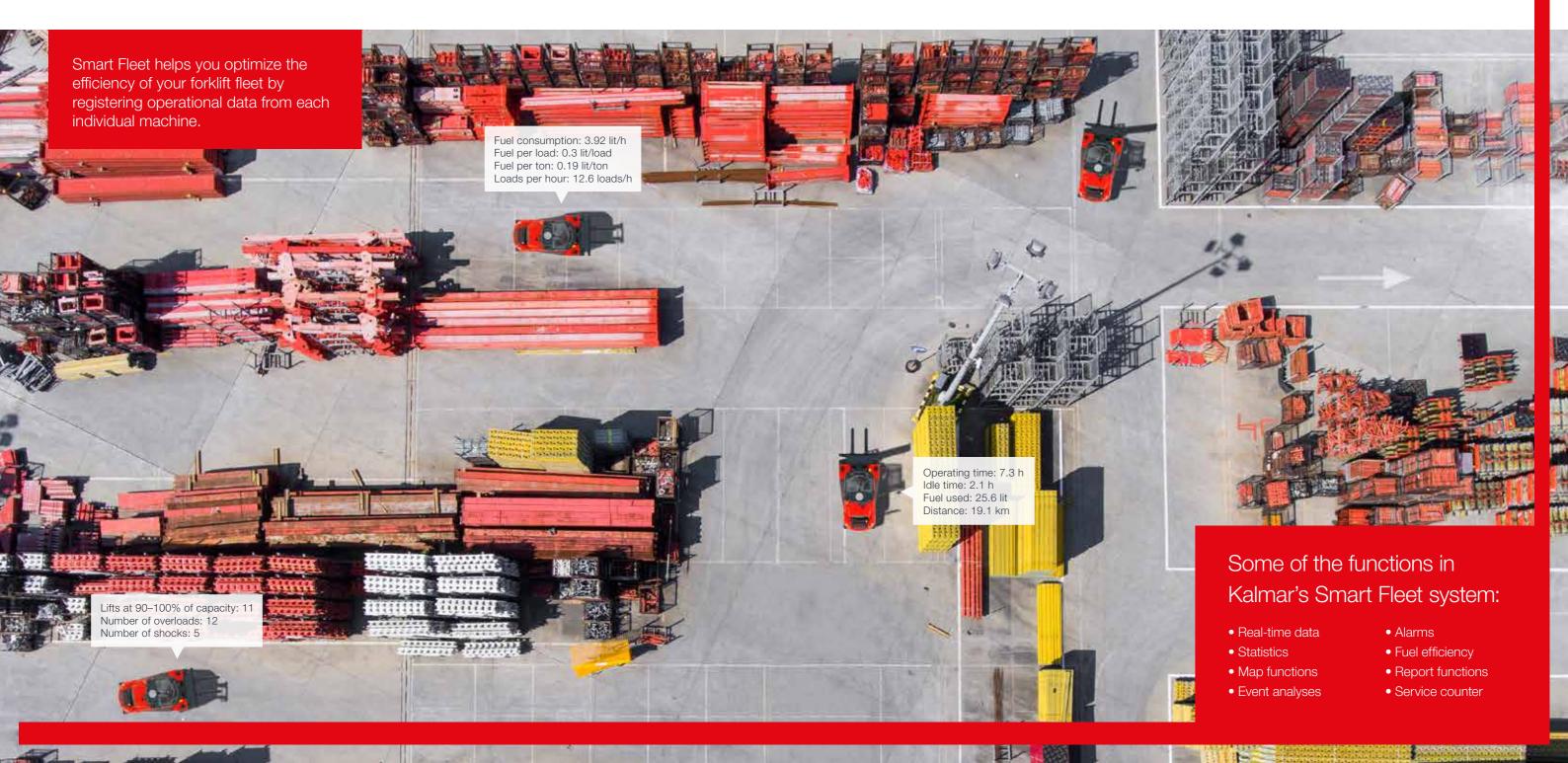
Perhaps one of your forklifts consistently lifts slightly heavier loads than it was designed to do. Maybe there's a bottleneck in the forklifts' driving patterns? These, and many other, potential productivity thieves will be revealed in detail when you implement Smart Fleet to monitor your forklift operation.

With this monitoring system from Kalmar, you will see the big picture. And that will allow you to make the necessary changes to maximize not only the value of your forklift investment, but of your production system as a whole Smart Fleet keeps track of many parameters that may or may not affect your forklifts' productivity. For how long are your machines idle in a day? How many times have they been in shock or overload situations? What routes are they taking to do their tasks?

#### Improving workplace safety

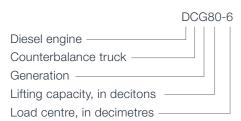
Smart Fleet data can also help you improve workplace safety. Driving patterns will reveal any dangerous areas where there may be people working or several forklifts passing regularly.

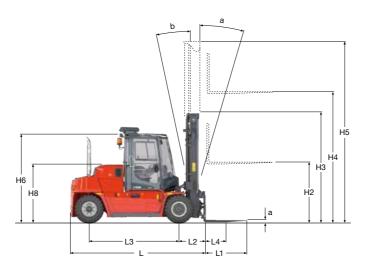
Data is available as real-time information or as statistics, and can be presented as easily interpreted reports. This will prove a powerful tool in helping you analyze how your forklifts are actually used – and what to do to improve your plant's overall efficiency.

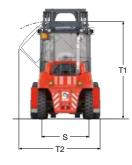


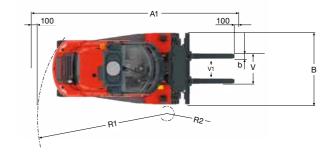
#### **Dimensions**

#### **Model designation**



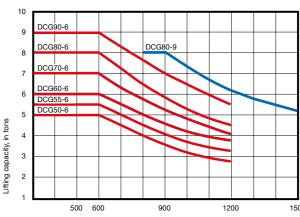






DCG90-6

#### Lifting capacity in tons



Load centre, mm

- Full lifting capacity up to 4 m lifting height with duplex/duplex free lift/triplex mast and fork carriage with side shift/fork positioning. Applies to DCG60-6 to DCG90-6, except for DCG80-9
- Full lifting capacity up to a lift height of 4 m with duplex mast and FEM fork carriage. Only applies to DCG80-9.

Model designation					DCG30-6	DCG55-6	DCG60-6	DCG/0-6	DCG80-6	DCG80-9	DCG90-6			
Name   Company   Particular   Company   Comp		Model designation			DCG50-6	DCG55-6	DCG60-6	DCG70-6	DCG80-6	DCG80-9	DCG90-6			
Lacid center distance mm L4 000 000 000 000 000 000 000 000 000	₹	Power source			Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel			
Lacid center distance mm L4 000 000 000 000 000 000 000 000 000	A	Rated capacity / rated load	kg		5000	5500	6000	7000	8000	8000	9000			
Service weight   No.	¥	Load center distance	mm	L4	600	600	600	600	600	900	600			
Service weight   Sep	È	Load distance, center of drive axle to fork	mm	L2	645	645	710	710	770	740	775			
March   Marc		Wheelbase	mm	L3	2100	2100	2450	2450	2600	2800	2800			
March   Marc														
Mart IRIs, α = forward / β + backward   α / β / β / β / β / β / β / β / β / β /		Service weight	kg		8300	8700	8900	9600	10700	11700	11300			
Mart Silfs, \( \alpha =  forms of mean silfs of mart forms of mean silfs of mean silfs of mart forms of mean silfs of me	Z IS	Axle loading, loaded front	kg		12450	13300	14000	15600	17600	18400	19100			
Mart IRIs, α = forward / β + backward   α / β / β / β / β / β / β / β / β / β /	퓰	Axle loading, loaded rear	kg		850	900	900	1000	1100	1300	1200			
Procuratio / Pr	×	Axle loading, unloaded front	kg		4400	4400	4600	4600	5200	5500	5309			
Type size, front   Inch   315/70 + 15   8.22x15		Axle loading, unloaded rear	kg		3900	4300	4300	5000	5500	6200	6000			
Type size, front   Inch   315/70 + 15   8.22x15														
Type size, rear   1998   1998   2869 x   15   2   2   2   4 / 2   4		Type, front / rear				Pneumatic / Pneumatic								
Track width, front / rear   mm   S   1240 / 1196   1200 / 1390   1500	"	Tyre size, front	inch		315/70	0 x 15								
Track width, front / rear   mm   S   1240 / 1195   1240 / 1195   1500 / 1380   1500	畄	Tyre size, rear	inch		28x9	x 15			8,25x15					
Track width, front / rear   mm   S   1240 / 1196   1200 / 1390   1500	뿓	Number of wheels, front / rear (x = driven wheels)			2/2	2/2	4/2	4/2	4/2	4/2	4/2			
Mast tilt, α = forward / β = backward   α / β   6 · 9   6 ·	>	Track width, front / rear	mm	S	1240 / 1195	1240 / 1195	1500 / 1360	1500 / 1360	1500 / 1360	1500 / 1360	1500 / 1360			
Height of mast towered		Tyre pressure	MPa		1.0 - 0.9	1.0 - 0.9	0.85 - 0.85	0.85 - 0.85	0.85 - 0.85	1.0 - 0.85	1.0 - 0.85			
Height of mast lowered   mm   H3   2625														
Lift height   Height of mast extended   mm   H4   3500		Mast tilt, $\alpha$ = forward / $\beta$ = backward	۰	α/β	6 - 9	6 - 9	6 - 9	6 - 9	6 - 9	6 - 9	6 - 9			
Height of mast extended		Height of mast lowered	mm	НЗ	2625	2625	2625	2625	2935	2935	2935			
Truck height = EGO / OHG cabin roof		Lift height	mm	H4	3500	3500	3500	3500	3500	3500	3500			
Seat height		Height of mast extended	mm	H5	4500	4500	4500	4500	4660	4660	4660			
Height when tilting EGO cab / OHG mm T1 2970 2970 2970 2970 2970 2970 2970 2970		Truck height - EGO / OHG cabin roof	mm	H6	2570	2570	2570	2570	2570	2570	2570			
Width when tilting EGO cab / OHG		Seat height	mm	H8	1620	1620	1620	1620	1620	1620	1620			
Truck length (to face of forks)  mm		Height when tilting EGO cab / OHG	mm	T1	2970	2970	2970	2970	2970	2970	2970			
Truck width mm B 1550 1550 2000 2000 2000 2000 2000 2000		Width when tilting EGO cab / OHG	mm	T2	2990	2990	2990	2990	2990	2990	2990			
Fork carriage width mm b3 1550 1550 2000 2000 2000 2000 2000 2000	ဟ	Truck length (to face of forks)	mm	L	3285	3285	3700	3700	3915	4085	4120			
Fork carriage width mm b3 1550 1550 2000 2000 2000 2000 2000 2000	<u>8</u>	Truck width	mm	В	1550	1550	2000	2000	2000	2000	2000			
Fork carriage width mm b3 1550 1550 2000 2000 2000 2000 2000 2000	SS	Fork dimensions, width	mm	b	150	150	150	150	150	200	200			
Fork carriage width mm b3 1550 1550 2000 2000 2000 2000 2000 2000	≝	Fork dimensions, thickness	mm	а	60	60	60	60	60	65	65			
Width over fork arms, minimum / maximum         mm         V         1400 - 420         1400 - 420         1900 - 420         1900 - 420         1900 - 520         1900 - 520           Sideshift ± @ width over forks         mm         V1 / V         250 - 910         250 - 910         375 - 1160         375 - 1160         375 - 1160         375 - 1210         375 - 1210           Ground clearance, laden, below mast         mm         170         <	Δ	Fork dimensions, length of fork arm	mm	1	1200	1200	1200	1200	1200	1200	1200			
Sideshift ± @ width over forks         mm         V1 / V         250 - 910         250 - 910         375 - 1160         375 - 1160         375 - 1210         375 - 1210           Ground clearance, laden, below mast         mm         170		Fork carriage width	mm	b3	1550	1550	2000	2000	2000	2000	2000			
Ground clearance, laden, below mast   mm   170		Width over fork arms, minimum / maximum	mm	V	1400 - 420	1400 - 420	1900 - 420	1900 - 420	1900 - 420	1900 - 520	1900 - 520			
Ground clearance, machine   mm		Sideshift ± @ width over forks	mm	V1 / V	250 - 910	250 - 910	375 - 1160	375 - 1160	375 - 1160	375 - 1210	375 - 1210			
Min. ailse width for 90° stacking with forks   mm   A1   4895   4895   5410   5410   5670   6440   5880     Turning radius   mm   R1   2850   2850   3300   3300   3300   3500   3700   3700     Internal turning radius   mm   R2   120   120   150   150   150   250   250   250     Operating pressure for hydraulics   MPa   14   14,5   15,5   17,5   20   20   21,5     Hydraulic oil tank, capacity   I   125   125   125   155   155   155   155   155     Fuel tank, capacity   I   90   90   90   150   150   150   150   150   150     Fuel tank, capacity   I   150   150   150   150   150   150     Hydraulic oil tank, capacity   I   150   150   150   150   150     Hydraulic oil tank, capacity   I   150   150   150   150   150     Hydraulic oil tank, capacity   I   150   150   150   150     Hydraulic oil tank, capacity   I   150   150   150   150     Hydraulic oil tank, capacity   I   150     Hydr		Ground clearance, laden, below mast	mm		170	170	170	170	170	170	170			
Turning radius mm R1 2850 2850 3300 3300 3500 3700 3700 3700 Internal turning radius mm R2 120 120 150 150 250 250 250 250 250 250 250 250 250 2		Ground clearance, machine	mm		145	145	145	145	145	145	145			
Internal turning radius   mm   R2   120   120   150   150   250		Min. ailse width for 90° stacking with forks	mm	A1	4895	4895	5410	5410	5670	6440	5880			
Operating pressure for hydraulics MPa 14 14,5 15,5 17,5 20 20 21,5 Hydraulic oil tank, capacity I 125 125 155 155 155 155 155 155 155 150 150		Turning radius	mm	R1	2850	2850	3300	3300	3500	3700	3700			
Hydraulic oil tank, capacity  I 125 125 155 155 155 155 155 155 155 155		Internal turning radius	mm	R2	120	120	150	150	250	250	250			
Hydraulic oil tank, capacity  I 125 125 155 155 155 155 155 155 155  Fuel tank, capacity  I 90 90 150 150 150 150 150									•					
Full tank, capacity     I     125     125     155     155     155     155     155       Fuel tank, capacity     I     90     90     150     150     150     150     150       AdBlue tank, capacity     I     15     15     15     15     15     15     15	တ္ဆ													
Fuel tank, capacity I 90 90 150 150 150 150 150 150 150 150 150 15	堂													
AdBlue tank, capacity         I         15 <th>OT</th> <th></th>	OT													
		AdBlue tank, capacity	I		15	15	15	15	15	15	15			

#### **Lifting equipment**

We offer a full range of duplex, triplex and free-lift equipment. Based on our long tradition as a supplier of heavy forklifts, our lifting equipment is robust and of the highest quality.

	Lift height			Mast h		Free lift H2		
	H4		H3 min		H5 max			
	•	••	•	••	•	••	•	••
	-	2750	-	2560	-	3910	-	-
	-	3000	-	2685	-	4160	-	_
	-	3250	-	2810	-	4410	-	-
	3500	3500	2625	2935	4500	4660	-	-
	3750	3750	2750	3060	4750	4910	-	-
6	4000	4000	2870	3185	5000	5160	-	-
DUPLEX STD	4250	4250	3000	3310	5250	5410	-	-
끔	4500	4500	3120	3435	5500	5660	-	_
3	4750	4750	3250	3560	5750	5910	-	-
	5000	5000	3370	3685	6000	6160	-	-
	5250	5250	3500	3810	6250	6410	-	-
	5500	5500	3620	3935	6500	6660	-	-
	5750	5750	3750	4060	6750	6910	-	-
	6000	6000	2970	/195	7000	7160		

	Lift h	eight		Mast h	Free lift				
	н	H4		min	H5 r	nax	H2		
	•	••	•	••	•	••	•	••	
	-	2750	-	2560	-	3910	-	1425	
	-	3000	=	2685	-	4160	-	1550	
	3250	3250	2620	2810	4350	4410	1530	1675	
	3500	3500	2750	2935	4600	4660	1655	1800	
별	3750	3750	2870	3060	4850	4910	1780	1925	
	4000	4000	3000	3185	5100	5160	1905	2025	
FREE	4250	4250	3120	3310	5350	5410	2030	2175	
×	4500	4500	3250	3435	5600	5660	2155	2300	
DUPLEX	4750	4750	3370	3560	5850	5910	2280	2425	
3	5000	5000	3500	3685	6100	6160	2405	2550	
	5250	5250	3620	3810	6350	6410	2530	2675	
	5500	5500	3750	3935	6600	6660	2655	2800	
	5750	5750	3870	4060	6850	6910	2780	2925	
	6000	6000	4000	4185	7100	7160	2905	3050	

Lift height				Mast	Free lift				
	H4		H3 min		H5 max		H2		
	•	••	•	••	•	••	•	••	
TRIPLEX	4950	4200	2570	2580	6010	5330	1530	1470	
	5450	4700	2740	2750	6515	5825	1690	1640	
	5950	5200	2910	2920	7015	6330	1860	1800	
	6450	5700	3070	3080	7510	6825	2030	1970	
		6200		3250		7330		2140	

- DCG50-55H, DCG60-70, DCG60-70H
- •• DCG80-90, DCG80-90H



Duplex Standard





Triplex

#### **Drive train and performance**

			AGCO 44 AWF 77kW, with ZF 2WG 94	AGCO 44 AWF 85kW, with ZF 2WG 94	AGCO 44 AWF 77kW, with hydrostatic drive	
	Manufacturer's type designation		AGCO 44 AWF	AGCO 44 AWF	AGCO 44 AWF	
	Fuel, type of engine		Diesel - 4 - stroke	Diesel - 4 - stroke	Diesel - 4 - stroke	
	Rating ISO 3046 / at revs	kW / rpm	77 / 2200	85 / 2200	77 / 2200	
ENGINE	Peak torque ISO 3046 / at revs	Nm / rpm	425 / 1500	450 / 1500	425 / 1500	
ENG B	Number of cylinders / displacement	cm <sup>3</sup>	4 / 4400	4 / 4400	4 / 4400	
	Fuel consumption, normal driving	l/h	5-7	6-8	5-7	
	AdBlue consumption, normal driving	% av diesel	3-4	3-4	3-4	
	Emission standard		Stage 4	Stage 4	Stage 4	
	Manufacturer's type designation		ZF 2WG 94	ZF 2WG 94	Bosch Rexroth MCR10	
O	Clutch, type		Torque converter	Torque converter	Radial piston motor	
MISC	Gearbox, type		Hydrodynamic Powershift	Hydrodynamic Powershift	Hydrostatic	
<b>ං</b> ර	Numbers of gears, forward / reverse		2 - 2	2 - 2	-	
BO	Alternator, type / power	W	2400	2400	2400	
GEARBOX	Starting battery, voltage / capacity	V / Ah	24 - 75	24 - 75	24 - 75	
ਲ	Driving axle, manufacturer / type		Kessler D41 Differential and hub reduction	Kessler D41 Differential and hub reduction	N/A	

			DCG50-6	DCG55-6	DCG60-6	DCG70-6	DCG80-6	DCG80-9	DCG90-6
	Lifting speed	Unloaded (m/s)	0,37	0,37	0,37	0,37	0,37	0,37	0,37
		At rated load (m/s)							
	Lowering speed	Unloaded (m/s)	0,42	0,42	0,42	0,42	0,42	0,42	0,42
		At rated load (m/s)	0,49	0,49	0,49	0,49	0,49	0,49	0,49
AGCO	Travelling speed, F/R	Unloaded (km/h)	22	22	23	23	23	23	23
, A		At rated load (km/h)	21	21	22	22	22	22	22
PERFORMANCE,	Gradeability, max.	Unloaded (%)	31	29	85	75	63	50	59
Σ¥		At rated load (%)	20	19	43	38	33	30	30
Ë	Gradeability, at 2 km/h	Unloaded (%)	30	28	70	62	54	43	50
<u>E</u>		At rated load (%)	13	12	30	26	23	20	21
ш.	Drawbar pull	Max. (kN)	26	26	59	59	59	59	59
	Noise level, inside	LpAZ*, EGO cabin (dB(A))	75	75	72,5	72,5	72,5	72,5	72,5
		LpAZ*, EGO cabin OHG (dB(A))	N/A						
	Noise level, outside	LWA** (dB(A))	103	103	104	104	104	104	104

<sup>\*</sup> Noise level according to EN12053 \*\* Noise level according to 2000/14/EC



Forks for manual adjustment Roller fittings for hydraulic adjustments



For shaft system



Hydraulic levelling



Sideshift

Fixed for manually moveable forks



Fork positioning and sideshift



Center levelling

### **Standard**

#### Kalmar DCG50-90

#### Chassis/Body

- Towing pin
- Steps with anti-slip protection
- Strong and protective mudguards

- Clear and tempered panes of safety glass, thickness 6 mm
- Std seat incl. 2-point belt with (orange).
- Clear windows incl. sliding windows in left and right door.
- Complete doors with locks left and right side.
- Complete manouevre system right hand console incl. light controls, toggle wheel for display, levers for load handling system (electric adjustable, 2-way's.)
- Multi function lever left side incl. horn, turn signal.
- Brake system with pedal left and right side.
- Internal comfort incl. mirror, handles, interior lighting etc.
- Wiper and washers front/rear and roof window.
- Hydraulic steering system incl. electrically adjustable steering wheel in height-, manually adjustable laterally and longitudinally with steering wheel knob.
- External reverse lights.
- Cab tilting
- Instep handle, left side
- Automatic heat and ventilation (ECH) with fresh air inlet filter.
- Speed control pedal right side.
- Kalmar std Key system.
- Cup holder
- Coat hook

#### Colour display & automatic fault analysis

• Menu control with toggle wheel & push buttons

#### Operator menu

- System voltage
- Actual gear
- Engine rpm
- Travelling speed (km/h or m/h)
- Hydraulic oil temperature
- Transmission oil temperature
- Engine oil pressure
- Engine coolant temperature
- Clock and date
- Operating time (hours)
- Service time indicator (hours) • Status of heating system & AC system
- Fuel level (diesel and optional AdBlue)
- Est. operating time before empty tank (hour/min)

#### Various warning lights & signals

- Charging batteryLow brake pressure
- Failure indicator • High engine coolant temperature
- Low engine coolant level (not on Cummins)
- Low engine oil pressure
- Preheating engine
- Transmission oil temperature
- Low fuel level (incl AdBlue)
- Hydraulic oil temperature
- Low washer fluid level

#### Indicator lamps

- Head beam
- Direction indication
- Parking brake

#### Steering system

• Steering axel Kalmar, including double acting steering cylinder.

- Driveaxle: Kessler D41 with wet disc brakes
- Engine: AGCO 44AWF Stage 4 77 and 85 kW
- Engine monitoring and protection system
- Gearbox: ZF 2WG94
- Declutch function activated by the brake pressure

#### Hydraulics

- Electrical servo
- Level sight glass on hydraulic oil tank
- Gear pumps
- High pressure filter
- Automatic raised engine rpm when load handling function is used
- Tilt angels std 5F/10B

#### Electric system

- Electrical system 24 V,
- Rear lights and brake lights, LED.
- Working light mast 2 pcs.
- Indicator lamps incl. hazard lights, LED. Main power switch

- Pneumatic DCG50-55 (Dimensions front- rear (inch);
- 315/70- 15 28x9-15
- DCG60-90 (Dimensions front- rear (inch); 8,25x15 - 8,25 x 15

- 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 & decals • Operators manual

- Maintenance manual Parts catalouge
- Load diagram in cab
- Warning decals
- Information decals
- Diagram, fuses
- Noise plate (legal requirement in EU/EEC)



