

Kalmar DCF80-100 The result of a technical evolution



Sales brochure

ADVANTAGES

More than 10 % faster average lifting speed due to fully variable hydraulic system.

Improved response and control thanks to the distributed control of hydraulic functions.

Electronically controlled drive train offers >25 % peak torque and seamless gearshift.



A fully variable hydraulic system enables faster, more precise manoeuvres.

It's about profitability

Profitable handling of empty containers is about moving as many units as possible in the shortest amount of time possible. But doing it safely and with precision.

The Kalmar DCF80-100 is part of Kalmar's F series, the technical platform that represents a major technical evolution in container handling. The plat-form includes a distributed, redundant system for controlling electrics and hydraulics. The result is smoother, faster manoeuvrability with minimum time delay from the controls.

Machines in the F series have a chassis made of high strength steel. This makes the chassis light but extremely resistant to turning forces. The low weight also minimises tyre wear and fuel consumption.

For Stage III the DCF80-100 is available with either a Volvo engine with 180 kW or a Cummins engine with 164 kW. For Stage IIIB requirements the DCF80-100 comes with a Volvo engine with 185 kW.

The gearbox is a three-speed Dana-Spicer automatic with seamless gearshift. The drive line is controlled electronically. The result is more than 25 % better torque and faster acceleration, leading to faster manoeuverability and higher productivity.

For load handling there are two different attachments; twistlock and hook attachment. The twistlook attachment has mobility in each twistlook which enables easy and fast levelling. The hook attachment makes it possible to lift two containers at a time and considerably raises productivity.

The excellent placement of working lights, control lamps and alignment sensors on both systems makes the container engagement fast and easy to monitor.





A powerful engine with plenty of torque provide quick acceleration.



The DCF80-100 is easily recognisable by its elegant, sleekly rounded bonnet.



It's about speed

The DCF80-100 is a quality machine, optimised for empty container handling. The components are familiar and are often found in other Kalmar machines as well. In fact no other machine is equally well-known. Service engineers find it easy to work on different Kalmar models. Operators too will immediately feel at home with the controls.

The mast and other critical components have been developed, optimised and simulated on computers. This means that even on the drawing board we could predict the kinds of strain the machine would have to cope with during its tough working life. And once produced they have been tested in their real environment, so you can rest assured they can withstand extreme use.





The DCF80-100 has considerably fewer hoses over the mast compared to conventional machines (2 hydraulic hoses and 1 electrical cable). This provides high functional reliability.





The engines provide high torque and comply with current emission regulations. Stricter emission requirements are yet another factor in reducing environmental impact.

The CAN-bus system increases functional reliability by 50 %. In fact the system reduces cable drawing by around 30%. This not only means fewer fault sources, but also vastly improved diagnostics. The system alerts the operator to any faults before they lead to a serious breakdown. The diagnostic data makes it easier to take the right corrective measures, thus reducing downtime and raising productivity.

The fully automatic gearbox with seamless gearshift not only makes for smooth operation, but also reduces wear on other components in the drive line. The brakes are of proven and tested wet disc type.

ADVANTAGES

The distributed hydraulic and electronic systems give optimal control of all hydraulic functions.

Excellent positioning of the working lights creates optimal visibility in dark conditions.

The F-generation cabin offers optimal driver efficiency.



The joystick and accelerator are examples of electronically operated controls that enable precise manoeuvring.





The Spirit Delta cab has an electronically controlled heating system (ECH) as standard. A climate system (ECC) is also available as an option.



The levelling function on the twistlock attachment is enabled by the mobility of each twistlock. This gives a simpler construction which offers increased reliability and easier servicing.

It's about safety

A skilled driver becomes one with his machine. He or she learns to manoeuvre it down to the nearest millimetre. Total familiarity with a machine means high productivity. But fundamentally, it's also a matter of safety for personnel, machine and goods alike.

The F series, of which the DCF80-100 is a part, has a distributed system for manoeuvring electrical and hydraulic functions. For the operator, this means that the machine swiftly reacts to each movement of the controls. Both the machine and the attachment can be positioned exactly where the driver wants – quickly and on the first attempt.

From the large display field on the instrument panel, readily visible in the field of vision, the operator can immediately see if anything needs correcting. The control lamps are located where the driver directs his or her vision during each stage of the operation. The driver has the relevant information presented only when it is needed.

The F-generation cabin offers excellent driver comfort. Moreover, operators familiar with one Kalmar machine will find it easy to work with other Kalmar models. Being fully familiar with the controls and the layout is a question of increased safety.

There are generous glass surfaces, and the mast and attachment have been designed not to block the operator's field of vision. The result is excellent all around visibility. The well placed working lights allow excellent visibility in dark conditions. All of which contributes to high safety and improved productivity.



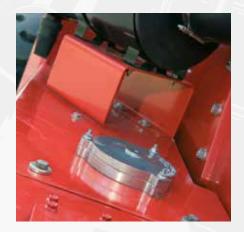


The bottom mast attachments consist of composite bushings. They are completely maintenance-free and have a very long life.



The CAN-bus system increases functional dependability and vastly improves diagnostics.

- *) Service intervals increased to 500 hours compared to the previous 250 hours.
 - Improved service access and diagnostics thanks to the CAN-bus system.
 - Simplified spreader design for easy access when servicing.
 - Improved function security through fewer hoses over the mast.
 - Improved hydraulic oil filtering system.
 - · Maintenance-free lower mast mounting.



The fine filter in the hydraulic system maintains the oil's performance longer and extends the life span.

It's about TCO

It is very important that your machines are operational and productive as much of the time as possible, without unexpected stoppages. And with minimum downtime for preventive maintenance. It's a question of assuring low Total Cost of Ownership, or TCO. Only then can good profitability be achieved.

So what is TCO about?

Favourable financing for the machine.

We offer a wide range of options so you can choose what's best for you, whether buying the machine outright, or selecting one of our lease packages so you can use your cash flow for something else.

High product quality and availability.

Both of these factors are crucial to the number of hours your machine is operational and productive. Kalmar is acclaimed worldwide both for high quality and little time spent in the workshop, two factors that contribute to a long life.

Long service intervals.

With the F series, Kalmar has doubled the distance between services. The time required for preventive maintenance has also decreased considerably. All this contributes to far higher productivity for you.

Low running costs.

A more efficient engine means low fuel costs. And effective filtering of the hydraulic oil means lower costs for oil changes. Efficient driving thanks to high manoeuvrability can also reduce consumption. All of which helps keep running costs down.

So, good profitability is about factoring in all the costs associated with owning or leasing a machine. And a Kalmar machine adds up to a low Total Cost of Ownership – TCO.



Global presence, local service

With increasing pressure to improve productivity, efficiency and reliability, first class service support is more crucial than ever.

Kalmar provides an unrivaled level of service support to maintain and improve your operational performance.

Rapid, professional support

Rapid, professional support is guaranteed from our team of service specialists based in over 140 countries worldwide.

One phone call to your local Kalmar service office or dealer gives you access to qualified experts who understand your business.

Wide range of service packages

Calling on vast application-specific experience, they have the skills and training that give you complete reassurance. And with a wide range of service and maintenance packages designed with you in mind, we can help minimise downtime and enhance your productivity.

World class parts support

Furthermore our parts support is world class. With huge investments in stocks of genuine parts which help protect your investment, we'll supply your urgent orders within 24 hours via our main distribution centres and superb logistics network.

We know your success depends on maximum efficiency, so keeping your equipment and your business running effectively is at the forefront of everything we do.



Global presence and local service bring our products and solutions closer to our customer.

