

# Kalmar 4WD Assist

An extra kick –  
when you need  
it the most.



Working on snowy ground? A slippery surface at a sawmill? A muddy construction site? Then you know the frustration when your front wheels lose traction – just when you need the power the most. Kalmar's 4WD Assist option gives you that extra kick through a temporary four-wheel drive boost.

Recurring skidding and wheel spinning cost money. Instead of running smoothly and efficiently, your shift is chopped up by unnecessary stopping, reversing and detouring.

A Kalmar forklift is built to cope with most difficult situations. So you don't need four-wheel drive all the time. At Kalmar, we developed a smart solution to meet your occasional need – 4WD Assist – giving you the extra power you need, when you need it.

The 4WD assist option uses hydraulic motors mounted on each rear wheel to generate an additional force equivalent to roughly 10 percent of the forklift's total drawbar pull.

4WD Assist is easy to use. Just switch it on when you need that extra kick to get you through a challenging situation and keep your forklift moving.

The 4WD Assist option is available on the Kalmar DCG90-180 and DCG90-180 Bigwheel forklift models.\*

\* Not available on wheelbase 2800 mm / 110 in or 3000 mm / 118 in.



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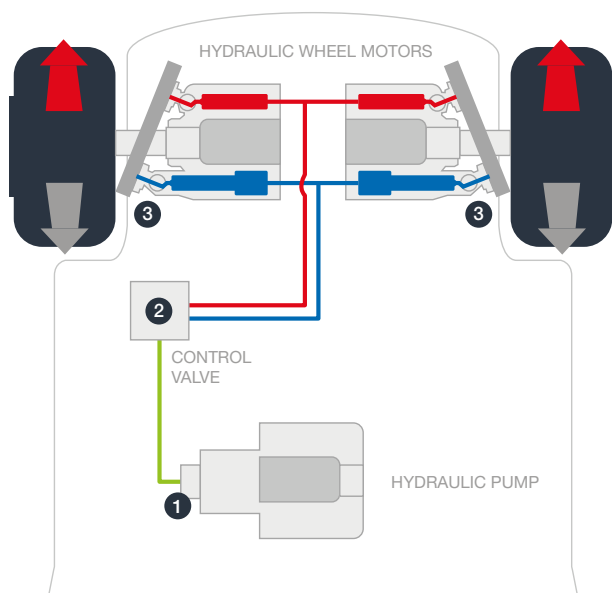
An extra kick – when you need it the most.

Kalmar 4WD Assist solution gives your forklift an extra kick – a temporary four-wheel drive boost – when you need it the most. 4WD Assist is an optional feature, available on Kalmar DCG90-180 and DCG90-180 Bigwheel.

## How does it work?

4WD Assist uses oil from the main hydraulic pump to temporarily boost your forklift's performance.

Two hydraulic motors, one on each wheel, are fed with hydraulic oil from the main hydraulic pump via a control valve which controls the oil flow to the motors.



1. The main hydraulic pump is used to pump oil via a priority valve to a hydraulic control valve.
2. The control valve regulates the pressure and direction of the oil flow.
3. Oil pressure is converted back to rotational energy in each of the two rear-wheel motors.

## Quick facts

<b>What is 4WD Assist?</b>	A temporary four-wheel drive option using two hydraulic motors – one on each rear wheel – to enable efficient forklift operation even in difficult ground conditions
<b>How does it work?</b>	It increases the drawbar pull by enabling 4WD when operating the machine in first gear, under 4.5 km/h.
<b>How do you operate it?</b>	By simply switching it on or off using a push button inside the cabin. The hydraulic engines placed on the steering wheels gives a slightly increased turning radius.
<b>How big is the extra kick?</b>	Approximately 10% (10,4 kN) of the machine's* total drawbar pull (104 kN).
<b>For which forklift models is it available?</b>	The Kalmar DCG90-180 and DCG90-180 Bigwheel.**

\* Calculation based on forklifts equipped with the Cummins QSB6.7 (129 kW) diesel engine.

\*\* Not available on wheelbase 2800 mm / 110 in or 3000 mm / 118 in