



An Investment in Quality

Trailed Sprayers

ES – Trailblazer
Trailed Sprayers

Designed with YOU in mind

Knight Trailed sprayers meet the demands of a high output, profitable farming business.









Since its formation in 1984 Knight Farm Machinery has become one of the UK's leading manufacturers of crop sprayers and cultivation equipment, combining reliability and practicality with a high degree of technical innovation. From our purpose built design and manufacturing facility in Rutland, we can tailor make your machine to meet your own specific requirements. It is this attention to detail, flexibility and customer driven design that make Knight Trailed sprayers the choice of farmers worldwide.

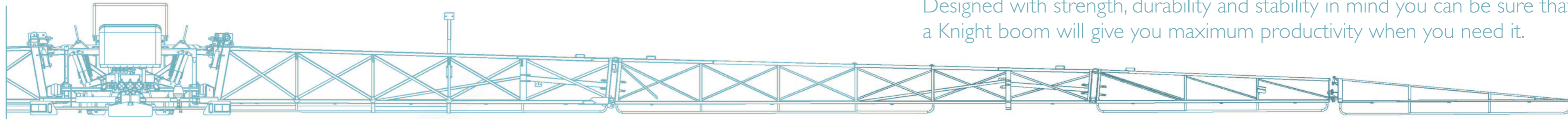
Knight Trailed Sprayers **Designed to help you Grow**



YOUR KEY TO SUCCESS!

Look out for these icons as a quick reference to how each Knight feature benefits YOU!

- | | | |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
|  Saves you Money |  Comfortable |  Accurate Application |
|  High Output |  Simple to Use |  Eco-friendly |



Designed with strength, durability and stability in mind you can be sure that a Knight boom will give you maximum productivity when you need it.

Industry Leading Boom Design



Knight has led the way with their patented and innovative boom design for many years. Designed with strength, durability and stability in mind you can be sure that a Knight boom will give you maximum productivity when you need it.

The 4 series, twin fold boom, available up to 30m, provides you with strength and durability in a simple construction for a long reliable life. The boom can be operated with one side folded and is equally suited to specialist operations or large arable farms.

The Tri-fold, triple stage folding boom is available in almost any width up to 40m and folds down to 3m wide for road transport. This boom can be operated with only two stages deployed and uses our patented hydraulic breakaway system to protect against impact.

Further cost saving and environmental benefits are provided by the Knight patented Anti-yaw system which maintains horizontal boom stability ensuring accurate application of the chemical across the whole field.



4D Boom Suspension & Distance Control II



Exceptional spraying accuracy and efficiency are achieved with the Knight 4D boom suspension and distance control II levelling systems working together to provide a full boom management system.

The system includes four modes of isolation between the boom and the sprayer and enables changes in boom geometry to be made swiftly and smoothly. This ensures a consistent boom height and therefore accurate spray application.

It also automatically controls the height of the boom wings independently of each other according to ground conditions and offers you the facility to run the wings below the horizontal. This is particularly important for maintaining accurate boom height with wider spray booms in undulating fields.

The Distance control II system includes extra sensing elements that ensure the boom automatically maintains the optimum height above the crop or ground so spraying accuracy is maintained and spray drift risk is minimised. Automatic boom raise at the headlands also ensures you have good boom clearance when turning on ground that is not quite as smooth as you would like.



You can be sure of accurate and efficient spray application with the simple to use Knight fingertip fluid control system and MAXImizer plumbing system.



Fingertip Fluid Control



The Knight Fingertip Fluid Control system is so easy to use that you will be able to work longer, more productive days. The Fingertip fluid control is operated via the Muller spray computer in the tractor cab or from the panel on the side of the sprayer. There are no complicated valve layouts to learn, just three simple push buttons that you use to select filling, tank washing and spray line rinsing. All other functions are automatically controlled by the logic of the unique MAXImizer™ plumbing system.

MAXImizer™ Plumbing System



Knights patented MAXImizer™ plumbing system cuts costly chemical waste by doubling up on the function of the sprayer pipework. The pressurised boom circulation system forces dilute chemical to every nozzle in seconds and fully rinses the spray boom during filling. Air operated nozzle bodies combined with the continuous flow and pressure offer clean and fast switching designed specifically for GPS nozzle control. You can avoid chemical waste, overspray and under spray with this accurate and efficient sprayer.

Air Suspension



Accurate spray application from enhanced boom stability is maintained by the air suspension system. The self-levelling air suspension automatically compensates for changes in tank volume so maintaining a stable and consistent ride height as the sprayer tank fills or empties.

Braking

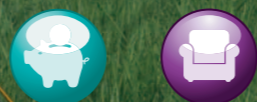


Hydraulic axle braking is fitted as standard to all Knight Trailed Sprayers. For added safety and peace of mind you have the option of a full load compensating air brake system connected directly to your tractor. This ensures minimal stopping distances for safe road travel.

Steering



You can maximise your yields when using the Knight Trailblazer's fully integrated automatic steering system with hillside correction. The sprayer axle is automatically kept in line with the tractor during headland turns and when traveling across hill sides, minimising any crop damage.



You will find cost effective, accurate spraying is easy with the ISOBUS ready MULLER spray control. These computers provide precision farming capability through an intuitive and user friendly interface.

You can choose the terminal and software that's right for you and your farm:

BASIC-Terminal

Sprayer information is clearly displayed on this colour display whilst any settings can be done quickly and easily via the simple control layout with soft keys.



COMFORT-Terminal

This large colour display makes all sprayer data easily visible whilst any settings can be done quickly and easily via the intuitive control layout with soft keys.



Touch 800 & 1200

Whether you choose the Touch 800 or the larger Touch 1200 display both give you the ability to choose your own screen layout to show up to 5 individual applications at once, in landscape or portrait orientation. The touch screen control which is designed especially for rough, practical use allows you to easily take control of all sprayer settings.



ISOBUS Ready



You can save money and free up valuable cab space by using your Knight sprayer with an ISOBUS ready tractor. The sprayer plugs directly into the tractor via an ISOBUS socket. The sprayer controls are then loaded onto the tractor's ISOBUS screen from where all sprayer functions can be accessed.

TRACK-Leader



This GPS controlled guidance system helps you to maintain a high work rate whilst achieving higher yields with chemical and fuel savings. The integrated light bar ensures precise driving in parallel tracks or contours with less overlaps and gaps making work possible at night and in poor visibility. You can record obstacle locations with the field data which will activate a warning when you are approaching the obstacle helping you to protect against any costly damage. Data is easily transferred to and from your farm PC via a USB memory stick. Partly completed jobs can be saved and restored at any time.



SECTION-Control



You can count on simple and accurate, cost effective spray control with the GPS controlled automatic boom section or single nozzle switching. After setting the field boundary the individual spray sections or nozzles are automatically turned on and off providing minimum overlap. This will keep chemical usage at a minimum which in turn will save you money whilst protecting the environment. You can also maintain a high work rate without getting tired as the system allows you to easily work at wider widths, with limited visibility or even at night.

FIELD-Nav & farmpilot



You can save time and money with the Field-Nav system to navigate you to the location of your next job. Destinations are easily recorded so you can eliminate unneeded driving time even in unknown areas.

Remote monitoring and connection to your sprayer from the farm computer is possible with farmpilot. The position of the vehicle can be tracked, job status checked and new jobs sent direct to the operator from the farm office. It is also possible to monitor and diagnose any sprayer faults removing the need for unnecessary service visits and keeping you up and running.



TANK-Control



The addition of an electronic sight gauge makes tank filling simple. Filling is automatically shut off when the tank contents reach the desired amount preventing the possibility of overflowing the tank. The gauge provides an exact reading of the tank contents which is automatically displayed on the sprayer terminal in the tractor cab.

Automatic Steering



Reduced driver fatigue and improved accuracy can be provided by installing an automatic steering system that allows the sprayer controller to steer the tractor. Knight offer a choice of solutions to integrate with your chosen GPS provider. Spraying with or without tramlines becomes a simple task eliminating wasted time, chemical and fuel and maximising your yield. You will also be able to get more hours out of your working day as poor visibility or work after dark will no longer be a problem.

From choosing your new machine, to aftersales service and support you can always rely on the customer focused team at Knight Farm Machinery.



Sales

When considering your purchase of a new Knight sprayer you can count on receiving expert sales support and advice whether dealing directly with us or through one of our specialist dealers. Our knowledgeable technical sales staff can help you to create a new machine specification that suits your needs precisely. From our purpose built headquarters in Rutland we can custom build your machine to match your personal specification and with a visit to our factory you can view your very own machine on the production line.

In conjunction with our preferred finance provider we can offer you competitive, low rate financing options to help fund the purchase of your new machine. A full range of finance options tailored to your individual cash flow needs are available, including Hire Purchase and Contract Hire.*

Service

Knight understands the importance of having your machine up and running when you need it. With the help of our nationwide dealer network we provide a complete service and maintenance programme including full seven day support and NSTS testing. Our team of highly trained service engineers are available for onsite visits to your farm with their fully equipped mobile workshops.

Parts

Our dedicated spare parts department can provide you with parts identification and advice to ensure you get your parts quickly and efficiently. Guaranteed next day delivery is offered throughout mainland UK and an out of hours collection service from our factory is also available.



A variety of parts are also available to purchase from our online store shop.knight-ltd.co.uk



*Finance provision is subject to status. Terms and conditions apply.

Technical Information

■ Typical Build Specification | ● Optional Features

Tank Options	3000 litre GRP tank with modular 350 litre clean water tank	■	
	3600 litre rotationally moulded tank with twin 250 litre clean water tanks		■
	4200 litre rotationally moulded tank with twin 250 litre clean water tanks		■
	5200 litre rotationally moulded tank with twin 250 litre clean water tanks		■
	6000 litre rotationally moulded tank with triple 250 litre clean water tanks		■
	Split water tank detergent rinsing system		●
Boom Options	Gullwing folding boom up to 24m	■	■
	Heavy duty 4 Series boom with two stage folding up to 30m		■
	Heavy duty Trifold boom up to 40m		■
Drawbar Coupling System	Universal Tracking drawbar connected to tractor lower link arms	■	
	Conventional drawbar for connection to tractor drawbar or pickup hitch	●	■
	High level Continental drawbar for improved crop clearance		●
Steering System	Mechanical Tracking drawbar connected to tractor rear link arms	■	
	Hydraulic steering axle incorporating automatic hillside correction operated from sprayer controller		■
Suspension	Two stage Aeon rubber springs	■	
	Air suspension with self levelling load compensation	●	■
Spray Lines	Maximizer pressurised, high speed spray line circulation system with instant air shut off	■	■
	Single stainless steel line with large choice of single or multiple nozzle bodies	■	■
	Single line with twin outlets and large choice of single or multiple nozzle bodies	●	●
	Single line with automatically activated quad outlets	●	●
	Twin line with large choice of single or multiple nozzle bodies	●	●
Fluid System	Simple, low volume – high output plumbing system with unique Knight Maximizer fluid control	■	■
	Large capacity suction filling filter with interchangeable elements	■	■
	High flow, continuous self-cleaning pressure filter with interchangeable elements	■	■
	Automatic pressure compensation via Ramsay regulator	■	■
	Automatic spray line clean water rinsing system	■	■
	Liquid fertilizer ready	■	■
Pump	300 litre minute diaphragm pump. Suitable for chemical or liquid fertilizer application	■	■
	460 litre minute diaphragm pump. Suitable for chemical or liquid fertilizer application	●	●
	High capacity centrifugal pump. Suitable for chemical or liquid fertilizer application	●	●
	Hydraulic drive from the tractor	●	●
Electronic Controller	Muller 'Spraylight' controller for simple section switching and rate control	■	
	Muller GPS ready 'Basic Terminal' for operation of all spraying, filling and boom folding functions	■	■
	Muller GPS ready, large screen 'Comfort Terminal' for operation of all sprayer functions	●	●
	ISOBUS integration to suitably equipped tractors	●	●
Regulation System	Flow based rate control system for simple setting and accurate application	■	■
	Pressure based rate control system for large variations in flow	●	●
Filling Station	Ergonomic control layout with single filling control valve	■	■
	Automatic chemical induction hopper with continuous circulation, twin can wash and container draining	■	■
	Push button control incorporating in-cab filling, rinsing and washing	●	●
	Electronic tank level control with automatic filling and overflow protection	●	●



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and we reserve the right to change specification
without notice. Specifications shown include both
standard and optional features.*



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