

CHD

EEFTING B.V.

LANDBOUWSPUITMACHINES



CHD crop spraying

Durable

We form a solid base using robust frame made of quality steel (S355). The frame is resistant to the toughest conditions on the land and at high transport speeds with a full tank up to 7,200 litres. The low centre of gravity ensures good stability. All fastenings materials are made of stainless steel. The CHD sprayers are fully resistant to the corrosive action of liquid fertilizers. CHD trailed crop sprayers offer great ground clearance, which minimizes crop damage.



Spray booms:

CHD spray booms have well thought-out design; avoiding placing the struts in the corners makes the angle less sharp. The obtuse angle allows a stronger welding seam and it is easier to spray the spray boom well. The braces are made with the same widths as those of the uprights, because a weld is stronger if it is placed on a corner instead of in the middle of the upright.

You can fold the spray boom in and out quickly. The spray booms fold in and out on the left and right simultaneously, also on slopes. You can fold the ends of the spray boom in if you want a smaller working width. (Optionally left and right separately).

The boom is centrally mounted on bearings and equipped with an anti-yaw system with shock absorbers. A centre of gravity shift function keeps the boom parallel to the field surface on inclines. The shock absorbers ensure a reduction of yaw (swaying movements). The booms are equipped with obstacle protection as standard, allowing the top ends to fold forward or backward as soon one hits an obstacle.

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Pumps and filters

The pumps are mounted in the drawbar of the drawbar-steering system. You can have 1 or 2 pumps with 250 or 280 litre output capacities. When the machine has dual pumps, the first one handles spraying and the second pump handles agitation. You can use both pumps to draw water and that increases capacity, which allows you to spray large volumes per hectare. With these pumps you can fill faster and spray at lower engine speed. These factors result in reduced noise, wear and tear and fuel consumption and less wear. Each CHD sprayer pump is equipped with its own suction filter, this protects the pump against contamination and it can even be cleaned with a full tank, without emptying it. Each machine is also equipped with a self-cleaning discharge filter, which filters the spray fluid before it reaches the nozzles.



Spray pipe

The main and section valves operate electrically or pneumatically. The section valves are integrated in the spray booms. The section valves open or close in less than 0.25 seconds. This helps you avoid unsprayed or double-sprayed areas in the field. The machine can be equipped entirely with pneumatic devices, which offer a much faster reaction time and, when you have that combined a Vario-nozzle and the latest Müller electronics, you have the most accurate and precise machine.

Balancing system

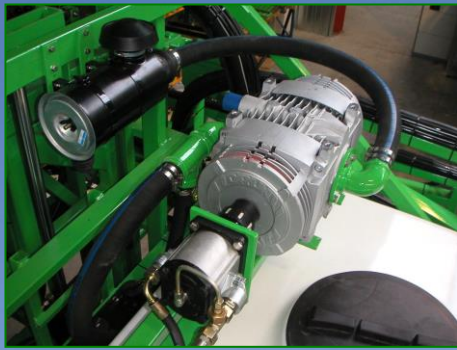
Stabilizers ensure that the boom remains very nicely even on the horizontal plane. The boom is centrally mounted on bearings and equipped with an anti-yaw system with shock absorbers. A centre of gravity shift function keeps the boom parallel to the field surface on inclines. And that ensures that the full pendulum action is maintained.

Spray nozzles

The CHD sprayers are equipped as standard with single nozzle holders and three, four, or five-nozzle holders can be fitted as an option. The nozzle holders can take a variety of nozzles. There is a wide range of nozzle types available, for example: Lechler, TeeJet, AgroTop and Albuz. Most are approved drift-reducing nozzles. There are side caps at the end of the booms, to ensure that no unnecessary chemicals are sprayed outside the spray area, e.g. onto field edges and into ditches.



CHD crop spraying

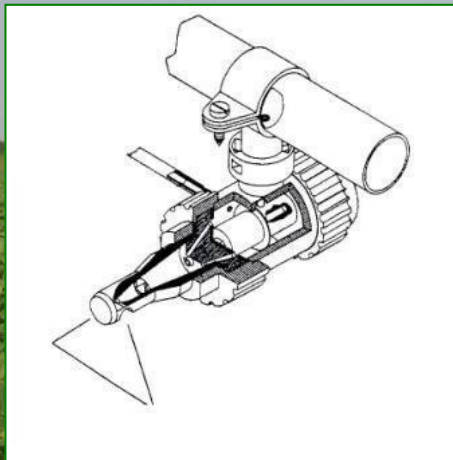


Spraying with precision

CHD sprayers are equipped as standard with a special bypass system, which we developed in-house. It releases pressure from all the pipes at once. The bypass system ensures that there are no dripping nozzles, and that you have pressure immediately when you start spraying again.

Airtec or AirJet

Spraying with Airtec or AirJet is a method using a mixture of air and fluid. The spray fluid is mixed with compressed air by special nozzles in the spray tip cap, which atomize the mixture. The user chooses the desired droplet size and does not have to worry about the driving speed or spray pressure. The system measures changes in the fluid pressure and adjusts the air pressure automatically. In this way, the system maintains constant droplet size. The systems are suitable for spraying from 70 litres per hectare, which offers an enormous capacity increase.



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Wingsprayer

You can maintain ideal droplet size, optimal coverage but still maximum drift reduction through the use of the Wingsprayer.

The nozzle spacing is 25 cm and there is the possibility for the nozzles to move backwards with the Wing.

If necessary, the Wing pulls the crop slightly open for optimum penetration, after which the Wing uses the wind effect from forward motion to push the fine droplets into the crop.



Air support through an air bag

The air support is driven by a separate hydraulic system integrated in the machine. The air speed is adjustable. In addition, the outflow direction is infinitely variable between vertical and 45 degrees to the rear, and it is even possible to set a different angle on the left and right.

Air support offers many advantages: the possibility of using less litres/ha, better penetration, better coverage, more capacity, savings in the use of crop protection products and increased drift reduction.

"Specials"

CHD offers a wide range of build possibilities, which means we can supply a machine that suits your circumstances and wishes optimally. This custom-built machine on a Fendt Xylon (see photo on the right) is a good example.





Drawbar steering

The CHD sprayer is equipped as standard with a drawbar ready for addition of a hydraulic steering cylinder. An automatically controlled drawbar is available as an option. The drawbar steering is controlled by two sensors fitted on it. They measure the variation of the angle between the tractor and the drawbar.

Following data from those measurements, the system makes adjustments as necessary. The system is available with electric-hydraulic controls or with Trail-Control. The system pays for itself, because there is less crop damage.

The drawbar steering operates with 2 steering cylinders, and this ensures equal steering speed on the left and right.





Axle steering

The trailed CHD crop sprayers are available in track following versions, thanks to use of steered wheels. Crop sprayers with stub axle steering are very stable. Steering cannot cause boom yaw, only the wheels move and not the entire frame. The steering operates with manual operation or a fully automatic system (Trail-Control). Thanks to the ideal tank shape, the machine can take very wide tyres, which allows you to keep working under even the wettest conditions. Axle steering has the following properties: safe road transport at high speeds, extremely low centre of gravity thanks to the specially designed tank shape, favourable weight distribution, easier cornering, better steering with delay, high ground clearance, less 'spray boom swaying' and the system saves crop damage.

As standard, the machine is controlled with a manually operated tractor valve. The TrailControl steering system from Müller Elektronik is available as an option. TrailControl is a proportional steering system. It is the best conceivable control system available.



Self-propelled

For all types of self-propelled CHD machines based on a Bräutigam Hydrotrac offer the following:

- A comfortable cabin with heating and climate control (air conditioning) and a seat with air suspension
- Pneumatic rear axle suspension
- Spray booms up to 54 meters
- In addition to that, the following variations are possible:

	Type 160-40	Type 200-40 (3-axle)
<i>Engine KW (HP)</i>	Deutz 173 (235)	Deutz 200 (272)
<i>Speed</i>	4 steps: 0 –40 km/h 5 steps: 0–50 km/h	5 steps: 0–40 km/h
<i>Front axle suspension</i>	Hydro-pneumatic	Hydro-pneumatic
<i>Rear axle suspension</i>	Pneumatic	Pneumatic
<i>Steering</i>	Front axle, rear axle, 4-wheel and crab steering	Suspension/steered crab steering
<i>Track width</i>	1700 – 2250	1900 – 2250
<i>Ground clearance</i>	1.20	1.10
<i>Fuel tank (litres)</i>	320	320
<i>Optional</i>	Hydraulic track width adjustment	Fixed track width adjustment
<i>Spray tank max.</i>	8,000 litres	10,000 litres



CHD DIM

DIM is for the application of liquid fertilizers, and that can be combined with another operation such as sowing or planting, which can result in up to 25% increase in capacity. The liquid fertilizer is injected into the soil using specific coulters or disks for the task. The DIM is equipped as standard with an 800-litre front tank. Larger tanks, up to 1500 litres, are available as an option. The DIM comes with a manually operated valve set or fully automated dosing with the Müller SprayDos. All valves are fitted with special balls that are resistant to aggressive fluids. The pump can also serve for filling, agitating and pumping back residual fluid. When combined with SprayDos, the DIM comes as standard with a ring circuit. This guarantees a quick start for every operation, with the correct fluid pressure for the preset dosage.



There is great visibility from the cab



Standard specification:

- Tank made of reinforced polyester, 800 litres
- The frame is made of high quality steel 52
- Stainless steel bolts, nuts and hose clamps
- Hydraulic driven Pacer pump
- 4 nozzle holders with a dosing plate of your choice - Ring circuit combined with a computer
- Pressure relief valve with pressure gauge set to max. 3 bar
- Self-cleaning discharge filter
- Clean water tank for hand washing

Also available with
ISOBUS and DGPS



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Spray computers

A range of Müller spray computers are available for the CHD crop sprayers. Using these computers allows you to use spraying agents more economically and effectively. The crop sprayers are available with the following spray computers: SprayControl, Uni-Control S, ISOBUS Basic-Terminal and the Comfort-Terminal. TrailControl and TankControl are available options.



Isobus

You can connect your CHD sprayer, which is ISOBUS ready, to any tractor equipped with ISOBUS-basic equipment. In the future, the number of agricultural machines, equipment and tractors equipped with ISOBUS-compatible on-board computers and terminals will increase rapidly. That is why you are one step ahead and ready for the future with ISOBUS equipment.



CHD crop spraying

S = Standard O = Option Knik = articulated Fusee = Stub axle steering	Knik:
Knik: Tank capacity 2,500 + 250 litres external	S
Knik: Tank capacity 2,700 + 300 litres internal	O
Knik: Tank capacity 3,000 + 250 or 450 litres external	O
Knik: Tank capacity 3,600 + 400 litres internal	O
Knik: Tank capacity 4,000 + 250 or 450 litres external	O
Knik: Tank capacity 5700 + 450 litres internal	O
Fusee: Tank capacity 3,000 + 650 litres external	S
Fusee: Tank capacity 4100 + 650 litres external	O
Fusee: Tank capacity 5200 + 650 litres external	O
Fusee: Tank capacity 7200 + 650 litres external	O
Knik: spray boom widths from 15 to 26 meters	S
Knik: spray boom widths from 15 to 55 meters	S
All widths available in steps of 1 meter	
Frame and spray booms manufactured from S355	S
Stainless steel pipes/bolts/nuts/clamps	S
Hydraulic operation	S
Obstacle protection	S
Horizontal damping	S
Electric-hydraulic operation	O
Hydraulic steering (manually or automatically operated)	O
Top ends collapsible (standard, from 30 m.)	O
Hydraulic balance adjustment with automatic centring	S
Electric valve set	S
Number of sections	5/18
Single nozzle holder/3-4-5 nozzle models	S/O
Injection agitator	S
Ring circuit	S
Airtec/AirJet air support	O



Digital pressure indication	S
Müller SprayControl	S
Müller UniControl S	O
Müller Isobus Basic- Comfort Terminal	O
Müller TankControl	O
Müller TrackLeader II	O
Müller SectionControl	O
Discharge filter/suction filter	S
Suction hose with basket	S
Cleaning gun with 8 meter hose	S
Sight glass dry	S
Tank flushing head	S
Container cleaner filler opening/underside	S/O
Drain valve	S
Pumps 2 x 250	O
Pumps 1 x 280/2 x 280	S/O
Intermediate axle/Wide angle	S/O
	11.2 X
Standard tyres (other sizes optional)	48
Mudguards	O
Spring/air suspension	O
Lighting + marking boards	S
Hydraulic/air brakes	O
SKL inspection	S
Pneumatic operated nozzle holders	O
Load sensing	O
Tank with anti-sloshing baffles	S
Automatic cleaning	O
Hand-washing tank	S
Wind gauge	O

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