

CLAYTON C4120



Engine John Deere CD4039T 105HP

Gearbox Manual T5 5 speed

Transfer Box 2 Speed with 4x2, 4x4 selection

Axles Dana Clark Hurth

Dimensions (Approx)

Length 5,250 mm

Width 2,300 mm

Height 3,000 mm

Chassis weight (without sprayer) approx 4,500 Kg

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CLAYTON C4120

Concept

- Evolved from an established product pedigree
- Dedicated, specialist load carrier and haulier
- High payload to unladen weight
- High capacity
- Mechanical drive-line for efficiency and simplicity
- Major components from world-renowned suppliers
- Low-noise high visibility cab
- Constant PTO output irrespective of engine speed or terrain

Models	Engine type/ Capacity	DIN hp @ rated speed	Max Torque (Nm) @ Engine rpm	Transmission	Pentronic Steering	Hauling Capability	Load Capacity	Road Speeds
4140	John Deere 4.5 litre	140hp (104kW) @2200rpm	498Nm@ 1400rpm	Automatic Shuttle shift	5 mode standard	18 tonnes	6 tonne	50kph (30mph)
6185	John Deere 6.8 litre	185hp (138kw) @2200rpm	714Nm@ 1400rpm	Automatic Shuttle shift	5 mode standard	18 tonnes	10 tonne	50kph (30mph)

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6 to 10 tonnes payload on a true, flat-bed

Large volume capable of carrying:

- up to 5,000 litre sprayer
- 8 tonne spreader hopper

18 tonne, legal trailer hauling at 50kph

Carry and haul capability



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Performance

High torque, PowerTech engine, 185 or 140hp

Fully automatic transmission with manual override, torque converter and adaptive memory software

50kph road speeds

Full trailing arm suspension to front and rear axles



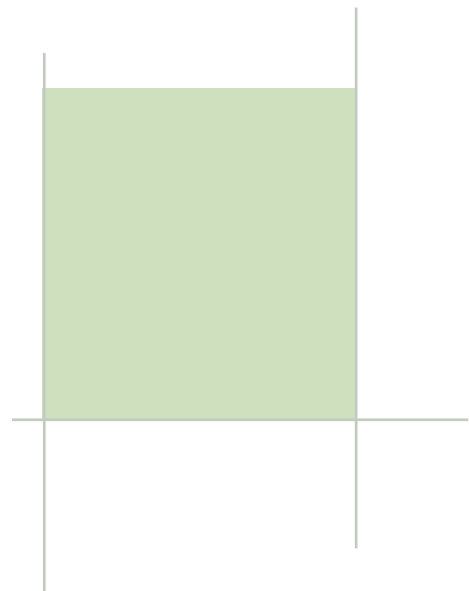
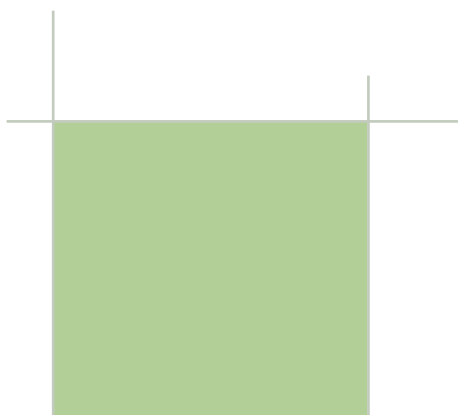
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Versatility

Wide choice of wheel/tyre combinations, from 750mm wide to 12.4R46: flotation, rowcrop or radials

4 pin, detachable frame system integrates with a variety of spraying and spreading packs with minimum alteration

Outboard hydraulic linkage



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Mobility

- Pentronic 4-wheel, five-mode steering system
- Low ground pressure
- High gradeability
- High traction
- High manoeuvrability



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Safety & comfort

- Climate control air conditioning
- Full roll-over protective cage with side escape door
- High visibility with advanced ergonomics
- Automatic, adaptive transmission
- Trailing arm suspension on both axles
- Independent hydraulic power braking to both axles
- Disc park-brake capable of holding fully laden vehicle on 50% incline
- Unique easy-access engine compartment



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Support

Direct factory and engineering support

Ease of maintenance built-in

World-wide specialist component manufacture support



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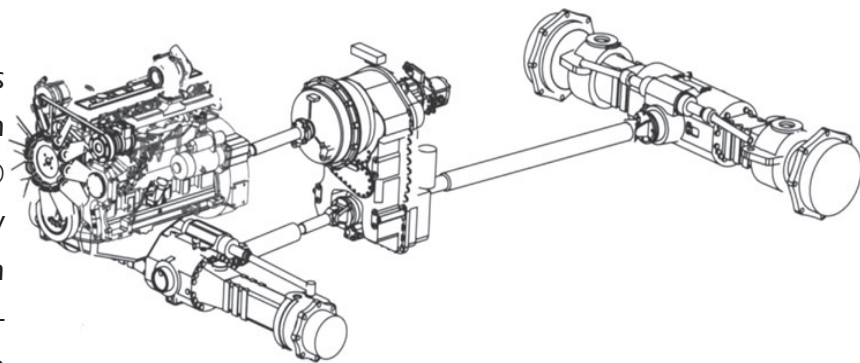


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TECHNICAL Specification

Engines

The Multidrive tractors feature the latest John Deere PowerTech® engines, forging new power combined with over wheel-ming strength and high torque reserves and excellent fuel efficiency. These engines are designed to costeffectively optimise performance and reliability while reducing emissions. High torque characteristics of the engine ensure smooth load starting at engine speeds as low as 1000rpm and help reduce the need for down shifting as the load changes.

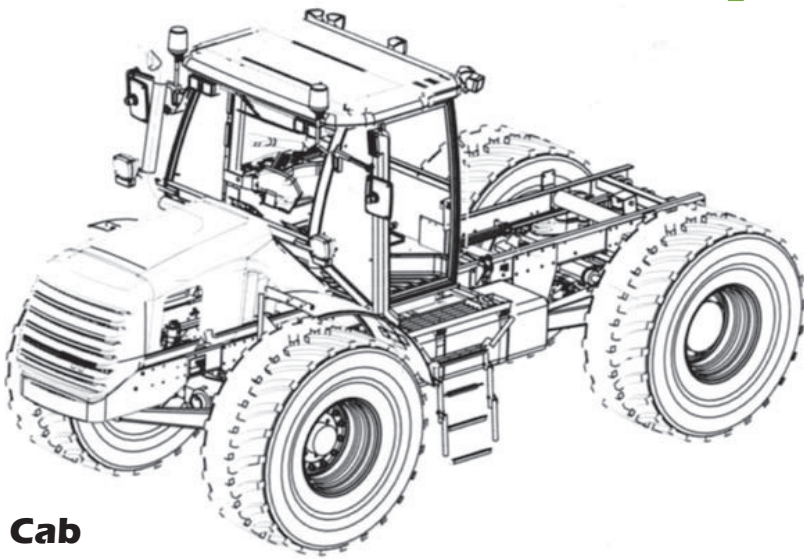


Transmission

Both tractor models use the ZF Ergopower automatic shift transmission with integral torque converter, six forward and three reverse gears are instantly selected from the single shuttle shift lever control. Smooth gear shifting even under load results in no traction interruption. Transmission noise level is reduced thanks to helical extra depth gearing aiding operator comfort to maximise tractor performance. Normal operation is fully automatic with manual over-ride mode instantly selected should the operator wish to retain total control in field or on highway use.

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TECHNICAL Specification



Cab

The World Series EEC ROPS approved safety cab with tinted glazing, providing excellent protection with panoramic vision; an efficient climate control air conditioning system enhances the operator environment for higher comfort and productivity. Controls are conveniently located on the right hand console, easy to reach hand throttle for ease of controlling engine speed. Fingertip precise control of the six hydraulic service valves, with operation of multiple lever functions for maximum efficiency. An electronic instrument panel monitors major engine functions, mounted on the tilting steering column. Driver comfort is enhanced with a multiple adjustable, quality cloth-trim suspension seat fitted with the remote shuttle shift transmission controller and park brake to reduce operator fatigue.

Axles

Heavy duty front and rear axles are specified to provide safe, reliable carrying of heavy loads. Strong differentials and four planet hub reduction gears are used to enable full engine power to be transmitted reliably to the wheels.

Inboard oil immersed multiplate disc brakes ensure safe and powerful braking, whilst carrying or hauling the largest of loads. Fitted with integral large diameter balanced steering cylinders for powerful, positive steering even when fitted with large flotation wheels. Hydraulic applied differential locks on both axles guarantee maximum traction on difficult ground conditions.

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TECHNICAL Specification

Chassis

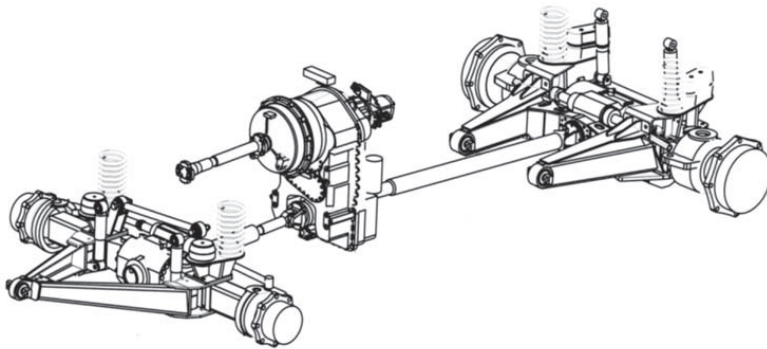
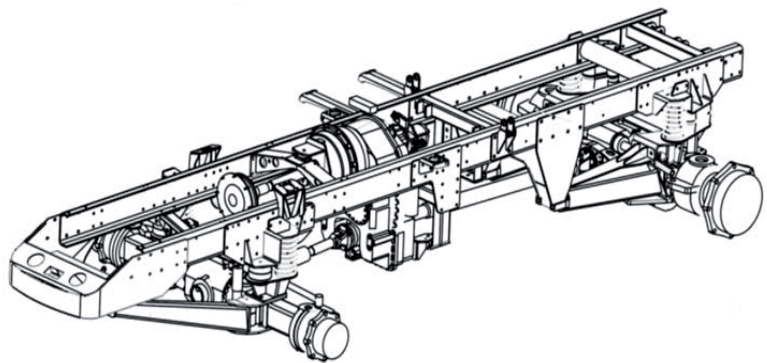
Proven purpose-built fully bolted ladder type, built to automotive specification with dedicated load bearing cross members to support auxiliary machinery on the load platform.

Quick-attach 3 or 4-point machine mountings ensure longevity of tractor chassis.

The suspension with its coil/rubber springs and heavy-duty telescopic shock absorbers permit higher travelling speeds in a variety of ground conditions.

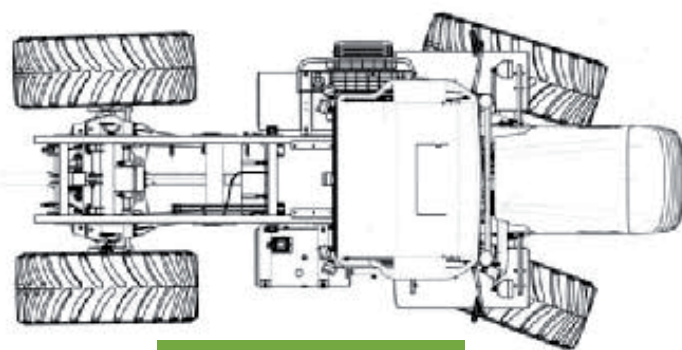
A new front trailing Aframe vastly improves the operator ride performance.

Chassis roll is further eliminated with the introduction of a rear axle H-frame providing greater stability when carrying large loads across steep slopes.

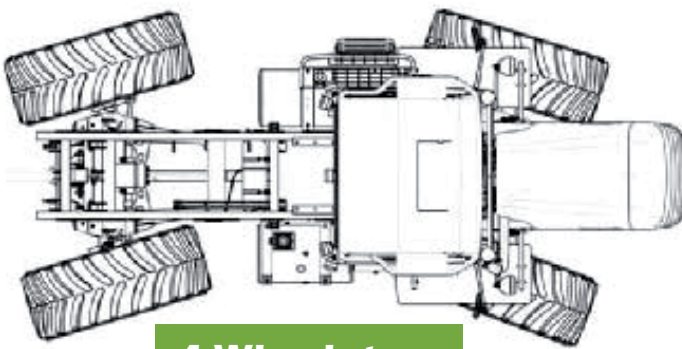


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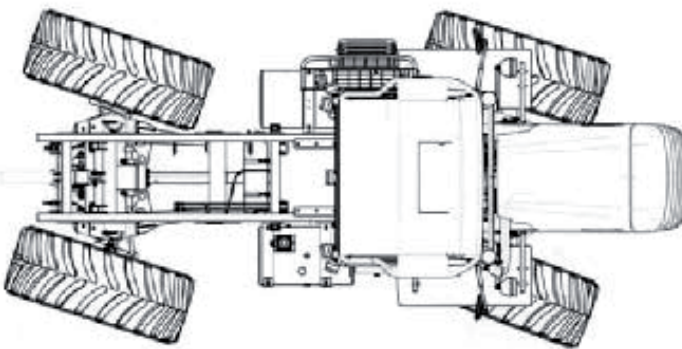
TECHNICAL Specification



2 Wheel steer



4 Wheel steer



Crab steer

Pentronic® steering

The Pentronic 5 function steering system with an easy-to-use rotary selector switch offers the following modes:

2 Wheel steering

For effortless precise front wheel steering for field and highway use.

4 Wheel steering

Select 4WS effortlessly for full power front and rear axle steering, ensuring precise manoeuvrability in confined spaces with front and rear wheels constantly tracking with each other.

When engaging 2WS rear wheels automatically line up.

Delay mode steering

Front wheel steer only to a pre-set angle prior to automatic engagement of the rear axle steering when turning beyond pre-set front steer angle, thereby minimising crop damage.

Crab steering

Used where inclines can cause machine sideslip, individual wheel marking to alleviate soil compaction on soft ground.

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TECHNICAL Specification

4140

ENGINE:

John Deere 4 cylinder POWERTECH diesel engine
 Type Four stroke, direct injection, water-cooled
 Aspiration Turbocharged
 Displacement 4.5litre (275cu/in)
 Maximum power 104kW (140hp) @ 2200 rpm
 Maximum torque 498 Nm (367 lb/ft) @ 1400rpm
 Fuel Injection System Electronic

HYDRAULIC SYSTEM:

Tandem pump with triple pump options.
 Main service gear pump 64 litres/min @ 2200 rpm.
 Standard gear PTO pump 64 litres/min @ 2200 rpm.
 Optional 112 litre/min @ 2200 rpm.
 6-spool valves 2 single, 4 double for external services.
 Hydraulic tank return line filtration.

Weight (unladen) 4900 Kg's
 Standard tyre equipment 540/65 R24
 Maximum road speed @ 2200 r.p.m. 45 k.p.h

6185

ENGINE:

John Deere 6 cylinder POWERTECH diesel engine
 Type Four stroke, direct injection, water-cooled
 Aspiration Turbocharged
 Displacement 6.8litre (414cu/in)
 Maximum Power 138kw (185hp) @ 2200rpm
 Maximum Torque 714Nm (527 lb/ft) @ 1400rpm
 Fuel Injection System Electronic

HYDRAULIC SYSTEM:

Powersaver load sensing PTO pump.
 Max output 99 litres/min @ 2200rpm
 Optional 2nd PTO circuit 64 litres/min @ 2200rpm
 Main service gear pump 64 litres/min @ 2200rpm
 System max operating pressure 200bar (3000psi)
 6-spool valves 2 single, 4 double for external services.
 Hydraulic tank return line filtration.

Weight (unladen) 5520 Kg's
 Standard tyre equipment 540/65 R30
 Maximum road speed @ 2200 r.p.m. 50 k.p.h

TRANSMISSION:

ZF 6WG160 fully automatic transmission with manual override. Torque converter close coupled to a countershaft gearbox. Automatic shifting throughout the full range, torque converter lockup in all forward gears. Single lever control with shuttle shift capability. 2/4wd engage/disengage with electric rocker switch.

CHASSIS:

Rolled section 8mm yield steel. Ladder type all bolted construction to full automotive standard with load bearing cross-membersto the load deck platform.

SUSPENSION:

Front: Coil and rubber springs with heavy-duty shock absorbers. Axle is located in a trailing A-frame with panhard rod location. Maximum oscillation provided by large composite rubber bush. Rear: Coil and rubber springs with heavy-duty shock absorbers. Twin link trailing roll resistant high-grade steel axle frame.

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TECHNICAL Specification

AXLES:

Front: Steer drive axle with four planetary wheel hub reduction gearing, differential ratio 19.3:1. Capacity: 6000kg. Balanced 90mm diameter Integral steering cylinder Rear: Steer drive axle with heavy-duty planetary wheel hub reduction gearing, differential ratio 19.3:1 Capacity: 6185 - 10,000kg, 4140 - 6000 kg. Balanced 90mm diameter integral steering cylinder. Hydraulic operated differential lock.

STEERING:

Full power steering to both axles controlled by Pentronic 5-function controller. Rotary switch manual mode selection, 2-wheel steer, 4-wheel steer, 2 delay modes and crab steering Automatic realignment of rear axle to 2-wheel steering.

BRAKES:

Dual circuit power operated fully enclosed inboard oil immersed multi-plate discs to both axles with ac

cumulator backup. Dry disc-parking brake on driveline, spring applied and hydraulically released. Single line hydraulic trailer brake valve.

OPERATORS CAB:

World series ROPS approved safety cab with tinted glass providing excellent panoramic vision, Full width sunblind. Climate control air conditioning with replaceable air filters. Tilting steering column with electronic instrumentation. Adjustable suspension seat, plus operator training seat over small locker. Pre-wired radio mounting console with twin speakers and aerial. Two speed intermittent front windscreen wiper with wash and self park, single speed rear wiper with wash/wipe. Large external rear view mirrors complete with telescopic arms. Transmission gear selection digital display. Road lights with combined turn signal. Seven-halogen roof mounted working lamps.

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