



INTRODUCTION

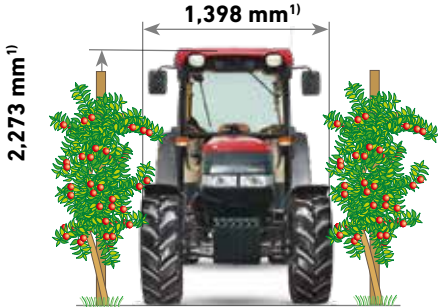
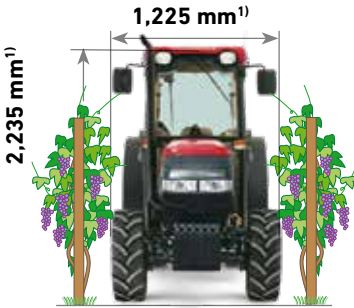
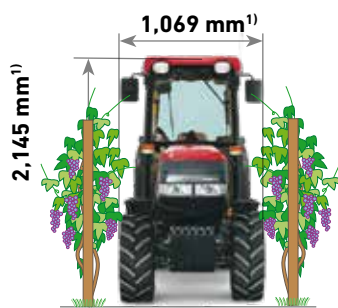


NARROW BY DESIGN POWERFUL BY NATURE

Whether you operate in close planted vineyards, with bush grown fruits or wider spaced orchard trees, Quantum Specialty tractors allow you to care for these high value crops and maximise harvest revenue.e

CONFIGURATIONS TO SUIT YOUR APPLICATION.

The new Case IH Quantum V, Quantum N and Quantum F Specialty tractors have the versatility to fit the needs of your business operation. Quantum V will be the obvious choice in narrow vineyards whilst Quantum N gives more stability when width is less critical. Quantum F provides more operator space and a wider vehicle for orchard use. In addition, cab or platform versions can be specified to tailor a tractor from the Quantum specialty range to suit your exact operating conditions.



QUANTUM V	Rated power ECE R120 ²⁾ (kW/hp(CV))	QUANTUM N	Rated power ECE R120 ²⁾ (kW/hp(CV))	QUANTUM F	Rated power ECE R120 ²⁾ (kW/hp(CV))
Quantum 75 V	57 / 78	Quantum 75 N	57 / 78	Quantum 75 F	57 / 78
Quantum 85 V	65 / 88			Quantum 85 F	65 / 88
Quantum 95 V	71 / 97	Quantum 95 N	71 / 97	Quantum 95 F	71 / 97
Quantum 105 V	106	Quantum 105 N	106	Quantum 105 F	106

¹⁾ Dimensions depending on rear tyres, Details see page 15 - Specification ²⁾ ECE R120 correspond to ISO 14396 and 97 / 68 / EC or 2000 / 25 / EC

THE QUANTUM V/N/F RANGE SMALL SIZE BIG POWER

Case IH offers a range of twelve, high-performance tractors specially developed to meet the needs of vineyard and orchard customers. The Quantum V, with a minimum width of 1,069 mm, is suited to operation in the most narrow spaced vineyards. In wider spaced plantings and orchards Quantum N or Quantum F tractors are a better choice, with a minimum overall width of 1,225 mm or 1,398 mm. Inside these narrow widths are packed all the features, performance and operator comfort you will require to ensure maximum productivity.



DRIVEN WITH CONFIDENCE.

Easy access, a comfortable seat, good visibility, redesigned fender and relocated hydraulic remote levers involves less fatigue for drivers and enables them to operate confidently. Available with air conditioning and active carbon filters for superior operator protection, Quantum tractors match unrivalled comfort in the most unforgiving environments.



ACCESS ALL AREAS.

A low cab height and optional folding safety frame version enables operation to continue under polytunnels and protection nets. A new foldable beacon for cab versions will permit to quickly lower the profile of the tractor and pass easily under trees and branches.



DESIGNED FOR PRODUCTIVITY.

High torque, low revving 4 cylinder engines are turbocharged and intercooled to extract the maximum from every drop of fuel. With the addition of the flagship Quantum 105 V/N/F model producing 106 hp (CV), the Quantum tractor series offers excellent performance in a compact package.

ADVANTAGES

- Better ergonomics
- Blue tooth radio with hand free phone capability
- Optimised PTO ratio to save fuel
- Proportional electro-hydraulics mid mount valves
- Park lock provides extra holding capacity



THE RIGHT TRANSMISSION TO MEET YOUR NEEDS

You can choose between the simplicity of manual gear selection or low effort hydraulic operation. The assertive mechanical transmission offers 16 forward and 16 reverse gears with 40 kph, and is also available with Powershuttle. An optional creeper gearbox allows you to achieve slow working speeds.



APPLICATION DRIVEN HYDRAULICS.

With a rear linkage capacity up to 2,600 kg and a separate pump serving the external hydraulic circuit with up to 64 l/min. The Quantum is never short on ability and will power the hydraulic functions and motors of the most complex implements.



EVERY EVENTUALITY COVERED.

The remote valve system is adjustable to ensure that you can take on any job requiring complex machinery and precision operation. Three remote valves are double-acting with an option of adding an electro-hydraulic diverter function to provide a further 2 valves. Standard outlets are at the rear, but mid mount couplers are available as option to power front or mid mounted implements.



PTO SPEEDS FOR MAXIMUM VERSATILITY

Choice of PTO speeds from simple 540/540E to 540/540E/1,000, including ground speed PTO and a new power curve that is perfectly aligned to PTO work, the Quantum puts you in a position to handle the work of all seasons. Furthermore, the rated speed of the PTO was adapted to a lower and more efficient engine speed.



OPTIMUM HANDLING.

Impressive manoeuvrability, powerful brakes, and automatic 4WD systems will meet the challenges in your operation. Additional safety in slopes offers the park lock system available with 2-speed Powershift transmission.

NARROW ON THE OUTSIDE SPACIOUS ON THE INSIDE

The Quantum is equipped with a high-specification cab that gives you plenty of headroom. While the tractor is compact and narrow on the outside, you have lots of room on the inside. An ergonomic control layout and fully adjustable seat and steering wheel mean your body and mind are never under stress.

PERFECT POSTURE AND HEALTHY ENVIRONMENT.

The luxury seat and multi-angle steering wheel ensure you maintain a healthy posture. On cab models the front and rear windows open for fresh air ventilation. Reassuring handling. By incorporating the optional air conditioning module inside the roof, it is possible to provide this feature on cab tractors whilst retaining a consistently low operating height. The low centre of gravity ensures excellent handling on rough ground and especially on steep slopes when working along a hillside. Cab filters are mounted externally for easy access.

EXCELLENT VISIBILITY AND CROP CARE.

Toughened glass panels down to the floor provide excellent all-round visibility right down to the ground. In addition to making your work easier while hitching up implements, you also have a commanding view of your valuable crops. There are no protrusions or edges on the hood or cab that might snag on branches or shoots so the Quantum brushes past without damaging your crop. Working lights integrated into the roof for excellent night vision.

IMPLEMENTS ALWAYS IN VIEW.

With slim cab pillars and rear view mirrors the vision to working implements or following sprayers is never at issue.

EASY TO DRIVE.

The instrument cluster includes a performance monitor, an electronic tachometer, and features a combination of analogue and digital displays to give you a clear overview of the tractor's status. Control levers and switches are positioned ergonomically, with advanced features like auto 4WD adopted from larger Case IH tractors to make things easier for you.

The foldable ROPS is beneficial for low clearance operations.



ADVANTAGES

- Cab with air conditioning and active carbon filters for superior operator protection
- Ergonomic layout of controls and dashboard
- Ideal seat comfort
- Minimum height offers the foldable ROPS



QUANTUM MEANS CHOICE

High-performance turbocharged and intercooled diesel engines have been engineered especially for Quantum V, N and F tractors to give you the power you need. From working with a compact harrow through to complex operations with PTO-driven equipment and heavy hydraulic kit, Quantum power will deliver. Effortlessly. With twelve models ranging from 65 to 106 horsepower, the choice is yours.



QUANTUM MEANS VERSATILITY.

Choose a Quantum tractor to do the work you need done in your orchards, vineyards or vegetable fields. These engines reach maximum torque output at 1,250 rpm (3.2 litres engines) and 1,300 rpm (4.5 litre engines) so they can operate extremely efficiently at the standard speeds for working with PTO-driven machines. Quantum V, N and F engines can run on up to 100% (B100) bio diesel.



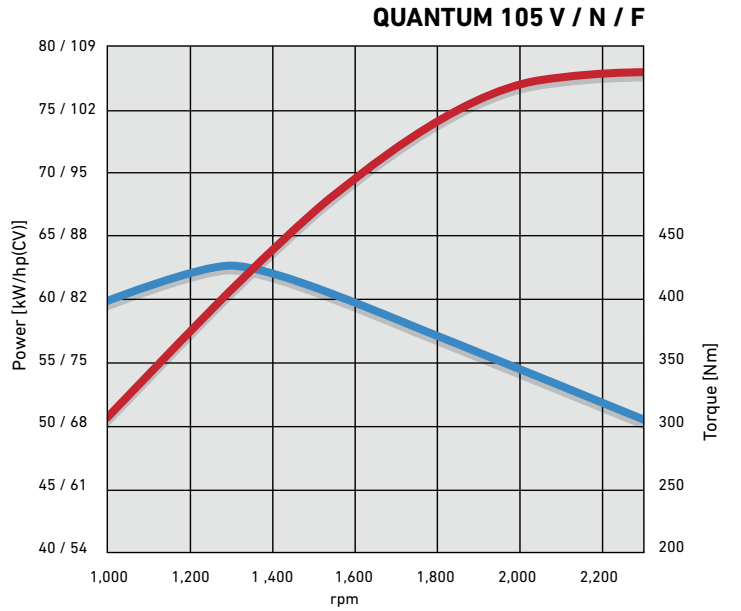
QUANTUM MEANS ECONOMY.

These highly efficient, fuel sipping engines keep running all day long with a fuel tank capacity of 77 litres (Quantum V / N) and 90 litres (Quantum F). Exhaust emissions are low too, thanks to EURO stage IIIB compatibility, so there are no complaints from people working outside in the vicinity of these environmentally-friendly tractors.



ADVANTAGES

- 4 cylinder turbocharged and intercooled diesel engines with up to 106 hp(CV)
- Engineered for 100% Biodiesel
- 600 hours service interval



QUANTUM MEANS POWER.

The 4.5 litre engines turn out a massive 398 Nm of torque at 1,300 rpm, so the torque rise of up to 46% translates into smooth delivery of power to the wheels, PTO and hydraulics to cope effortlessly with peak demand on slopes and in the toughest conditions.



TRANSMISSION AND PTO EFFICIENT AND ECONOMICAL

An array of transmission options means you choose the one that fits your operation. Quantum tractors are equipped with a heavy-duty precision transmission for smooth, reliable operation year after year. The PTO is designed to give you economical power delivery in all conditions. Incredible range of gears. Combined with the ground speed PTO, the creeper box makes these tractors ideal for precision planting, vine maintenance and harvesting with additional speeds as low as 300 metres per hour at rated engine speed. At the other end of the scale these narrow tractors can zip along at up to 40 kph handling haulage jobs on the road confidently and economically.

EVEN MORE CHOICE.

The basic transmission gives you a Synchro Shift gearbox with 4 speeds and 4 ranges and the option of a 12-speed creeper box. With the creeper you then have a total of 28 forward gears and 16 reverse gears at your disposal. The Powershift version doubles the number of forward speeds, so with a creeper box you have 44 gears to choose from. With the Power Clutch you can change up and down a gear at the touch of a button for a smooth change without using the clutch, even on slopes with heavy loads.

TAKE ON MORE WITH 3-SPEED PTO.

Quantum tractors feature a 540/750 rpm PTO as standard equipment. You can also specify 540/540E/1000 speeds for even more versatility. PTOs on all models are servo-assisted to protect machinery from high torque stress when starting up. Proportional ground speed. PTO speed can be synchronised with tractor travel speed for specialist machinery.



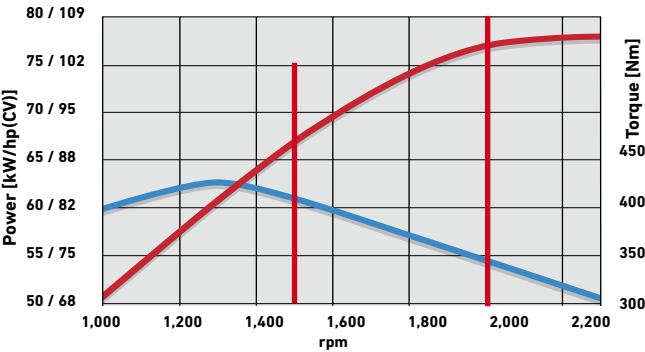
◀ A steady progression between ranges and synchronised gear changes ensure easy, efficient and low effort operation. 16 forward/16 reverse is standard, 32 forward/16 reverse with mechanical splitter also available.

ADVANTAGES

- 30 or 40 kph 16x16 with synchro or hydraulic shuttle available for all Quantum models
- 32 x 16 2-speed powershift with powershuttle
- Creeper speeds available for greater versatility – up to 44 x 16 speeds with 2-speed powershift
- PTO speed aligned with engine speed – lower fuel consumption, reduced rpm, less noise, fewer vibrations



QUANTUM 105 V / N / F



PTO is operated at 2,000 engine rpm or at 1,535 engine rpm in Economy mode for power and efficiency.



Powershift, Powerclutch, Powershuttle and creep speeds are available for the easiest operation and highest productivity.

HYDRAULICS BIG TRACTOR LIFTING POWER

Quantum specialist orchard and vineyard tractors are kitted out with a powerful hydraulic hitch in classic Case IH style. The proven system is designed to make light work of heavy-duty tasks. Lifting power that contributes to the efficiency and profitability of your business.

EASY HITCH CONTROL

With a total lifting capacity of 2600 kg the hitch will easily handle your implements and machines. Mechanical hitch control is standard, while electronic hitch control is provided to ensure efficiency during tillage and soil cultivation operations. Like on larger tractors, with EHC you can set the lift height on the dial and then raise and lower the hitch automatically at the flick of a switch. Both mechanical and electronic systems are equipped with automatic draft control. Precision hydraulic stabilizer strut adjustment. The stabilizers

for the lower linkage arms can be aligned and locked in place manually using the standard mechanical system. A hydraulic stabilizer strut system is also available to make alignment possible on the move. The hydraulic struts are connected to the 1st remote valve, which is a double-acting connection. Using the 3-button control panel next to the driver's seat, you can adjust the alignment of hitch-mounted equipment while you are driving along. This is ideal when working along a slope.



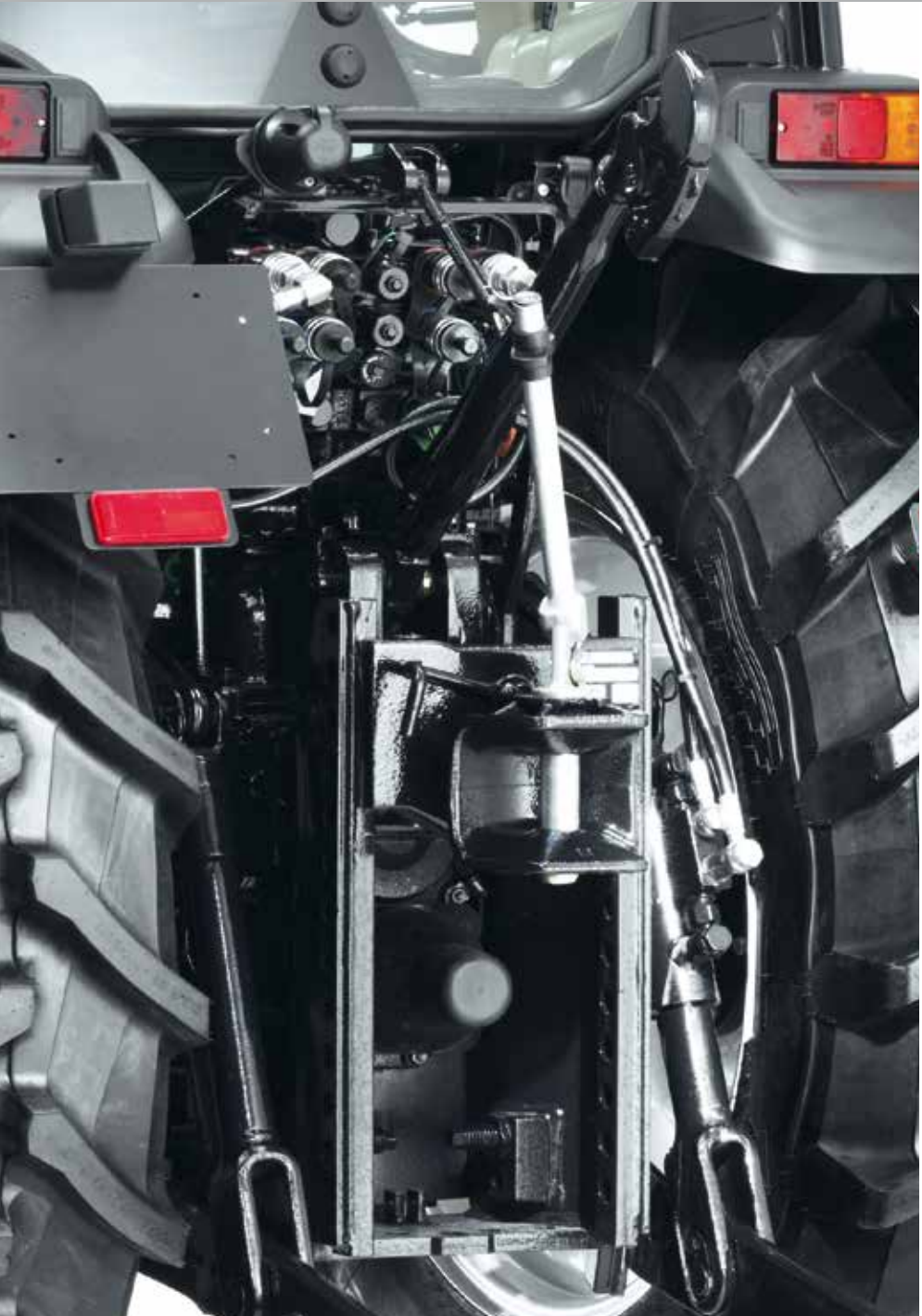
▲ The mechanical hitch system features an easy to use quick raise and lower control.



▲ Fender-mounted hitch controls allow safe and easy attachment of machines and implements, even when working on your own.

ADVANTAGES

- Choice of MHC mechanical hitch control or EHC electronical hitch control
- Pump flow of 48 l/min standard, 64 l/min available as an option
- Up to 3 mechanical remote valves at the rear with 10 outlets
- Up to 3 Mid-mount valves with 8 outlets and 1 hydraulic motor supply valve with 2 outlets for control of front and mid mounted implements



DRIVELINE VERSATILE OPERATIONS

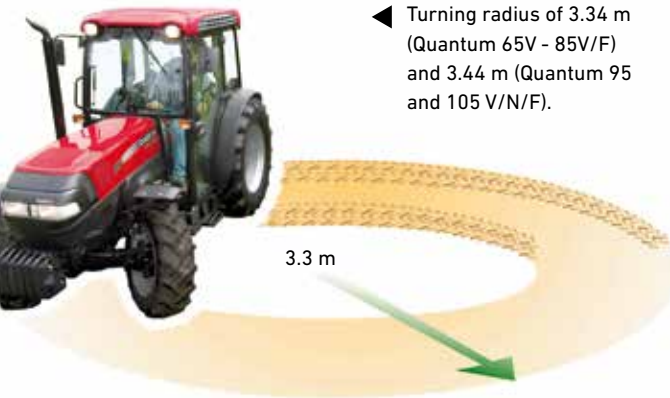
In addition to the impressive lifting power of the hitch, Quantum tractors are equipped with a hydraulics system that delivers the versatility you need to do a varied day's work. Our Quantum V and Quantum F tractors are equipped with the latest technology to convert power into torque at the wheels as you need it. Those features contributes to the efficiency and profitability of your business.

AUTO 4WD TRACTION.

On four-wheel drive versions automatic electro-hydraulic engagement of the front axle is provided to assist the driver in more demanding conditions. 4WD also engages automatically when both brakes are applied to deliver ultimate stopping power when transporting heavy loads at speed. The traction control system switches back to 2WD at speeds above 15 kph and at a steering angle tighter than 30°.

IMPRESSIVE MANOEUVRABILITY FOR CONFIDENT HANDLING.

Narrow engines plus a contoured hood enable the front wheels to lock at a really tight angle. A turning radius of just 3 metres is achievable on 2WD versions, making light work of turns at the end of rows, even inconfinded spaces between vines and inside tunnels.



◀ Turning radius of 3.34 m (Quantum 65V - 85V/F) and 3.44 m (Quantum 95 and 105 V/N/F).

▶ The electro-hydraulic 4 WD is unbeatable when it comes to in-field traction and working on slopes.



▲ The 2 wheel drive version is the ultimate in manoeuvrability.



SERVICEABILITY AND SYSTEM SOLUTIONS

Keep driving! Daily checks and cleaning have been made easier with the new swing-out radiator package, while the air filter is conveniently located for quick inspection. And it's simple to check the oil level, with no need to open the engine hood.

When you buy a Case IH machine, you can be sure not only that you're buying the best product, but also that you've got the best dealer back-up behind you. Case IH dealers can offer advice on selecting and financing the right machine, will ensure they deliver what you need when you need it, and will then continue to back you and your equipment with the service and spare parts supply you'd expect from a name as trusted as Case IH.



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ALL THE PARTS AND SERVICE TO KEEP YOUR EQUIPMENT RUNNING

Find the full line of Case IH parts and components at your local dealer, plus full-service maintenance programmes and industry leading warranties. It is expertise applied by skilled, factory-trained service professionals committed to providing you maximum uptime, season after season.

MODEL	QUANTUM 75V	QUANTUM 85V	QUANTUM 95V	QUANTUM 105V	QUANTUM 75N	QUANTUM 85N	QUANTUM 95N	QUANTUM 105N	QUANTUM 75F	QUANTUM 85F	QUANTUM 95F	QUANTUM 105F
ENGINE												
Number of cylinders / Capacity (cm³)	4 / 3,200	4 / 3,200	4 / 4,500	4 / 4,500	4 / 3,200	4 / 3,200	4 / 4,500	4 / 4,500	4 / 3,200	4 / 3,200	4 / 4,500	4 / 4,500
Type / Emission level	Turbocharged and intercooled / EURO-Stage IIIB				Turbocharged and intercooled / EURO-Stage IIIB				Turbocharged and intercooled / EURO-Stage IIIB			
Rated power ECE R120 ³⁾ (kW/hp(CV))	78	88	97	106	78	89	97	106	78	88	97	106
Max.torque ECE R120 ³⁾ (Nm @ engine rpm)	330 @ 1,250	352 @ 1,250	398 @ 1,300	425 @ 1,300	330 @ 1,250	352 a 1.300	398 @ 1,300	425 @ 1,300	330 @ 1,250	352 @ 1,250	398 @ 1,300	425 @ 1,300
Torque rise acc. OECD (%)	39	30	35	31	39	30	35	31	39	30	35	31
Fuel tank capacity (litres)	77	77	77	77	77	77	77	77	90	90	90	90
TRANSMISSION												
16 x 16 Synchroshift with mechanical shuttle, 30 or 40 kph	•	•	•	•	•	•	•	•	•	•	•	•
32 x 16 Synchroshift with mechanical shuttle and mechanical splitter, 30 or 40 kph	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦
16 x 16 Synchroshift with powershuttle, 30 or 40 kph	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦
32 x 16 2-speed Powershift with power-shuttle, 30 or 40 kph	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦
28 x 16 Synchroshift with mechanical shuttle and creeper, 30 or 40 kph	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦
44 x 16 2-speed Powershift with powershuttle and creeper, 30 or 40 kph	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦
POWER TAKE OFF												
Engagement type	electro-hydraulic				electro-hydraulic				electro-hydraulic			
Speeds Standard (Option) (rpm)	540 / 540E (1,000 rpm + proportional ground speed)				540 / 540E (1,000 rpm + prop. ground speed)				540 / 540E (1,000 rpm + proportional ground speed)			
DRIVE AND STEERING												
Front axle type	optional 2WD or 4WD				optional 2WD or 4WD				optional 2WD or 4WD			
4WD front axle standard	electro-hydraulic engagement with limited slip or full differential lock				electro-hydraulic engagement with limited slip or full differential lock				electro-hydraulic engagement with limited slip or full differential lock			
4WD optional feature	automatic 4WD and diff lock operation linked to steering angle				automatic 4WD and diff lock operation linked to steering angle				automatic 4WD and diff lock operation linked to steering angle			
Min. turning radius ¹⁾ 4WD (m)	3.34	3.34	3.44	3.44	3.34	3.34	3.44	3.44	3.34	3.34	3.44	3.44
HYDRAULIC SYSTEM												
Max. pump flow - steering system	28 l/min (35 l/min with high flow pump)				28 l/min (35 l/min with high flow pump)				28 l/min (35 l/min with high flow pump)			
Max. pump flow - rear hitch and external services	48 l/min (64 l/min with high flow pump)				48 l/min (64 l/min with high flow pump)				48 l/min (64 l/min with high flow pump)			
Max. number of remote valve outlets (rear/mid)	10 / 8 and 2 motor				10 / 8 and 2 motor				10 / 8 and 2 motor			
Rear linkage control type	MHC (Mech. Hitch Control) or EHC (Electronic Hitch Control)				MHC (Mech.Hitch Control) or EHC (Elec.Hitch Control)				MHC (Mechan. Hitch Control) or EHC (Elec. Hitch Control)			
Rear linkage stabilisers	Manual adjustment or hydraulic adjustment with independent valve				Manual adjustment or hydraulic adjustment with independent valve				Manual adjustment or hydraulic adjustment with independent valve			
Max. lift capacity (kg)	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600
WEIGHTS [*] AND DIMENSIONS ¹⁾												
Approximate shipping weight 2WD less cab / 4WD cab (kg)	2,320 / 2,710	2,320 / 2,710	2,410 / 2,790	2,410 / 2,790	2,405 / 2,765	2,405 / 2,765	2,495 / 2,855	2,495 / 2,855	2,762 / 2,910	2,762 / 2,910	- / 3,000	- / 3,000
Max. permissible total weight 2WD less cab / 4WD cab (kg)	3,650 / 3,800	3,650 / 3,800	3,650 / 3,800	3,650 / 3,800	3,650 / 4,000	3,650 / 4,000	3,650 / 4,000	3,650 / 4,000	3,900 / 4,400	3,900 / 4,400	- / 4,400	- / 4,400
Total height ⁴⁾ over steering wheel / ROPS (mm)	1,315 / 2,245	1,360 / 2,290	1,400 / 2,380	1,400 / 2,380	1,410 / 2,340	1,410 / 2,340	1,460 / 2,440	1,460 / 2,440	1,450 / 2,390	1,450 / 2,390	1,500 / 2,480	1,500 / 2,480
Total height ⁴⁾ standard cab (mm)	2,145	2,190	2,190	2,190	2,235	2,235	2,250	2,250	2,273	2,273	2,273	2,273
Min. width on standard tyres ⁴⁾ (mm)	1,080	1,200	1,200	1,200	1,305	1,305	1,530	1,530	1,398	1,398	1,398	1,398
Min. width on rear tyres (mm)	1,069 mm with 11.2 R28 (280/85 R28				1,225 mm with 320/85 R28				1,398 mm with 340/85 R28			
Wheel base - 2WD / 4WD (mm)	2,080 / 2,093	2,080 / 2,093	2,165 / 2,180	2,165 / 2,180	2,080 / 2,093	2,080 / 2,093	2,165 / 2,180	2,165 / 2,180	2,068 / 2,093	2,068 / 2,093	- / 2,180	- / 2,180
Min. - Max. track width, front 2 WD (mm)	856 - 1,088	856 - 1,088	856 - 1,088	856 - 1,088	1,002 - 1,214	1,002 - 1,214	1,002 - 1,214	1,002 - 1,214	1,146 - 1,565	1,146 - 1,565	-	-
Min. - Max. track width, front 4 WD (mm)	835 - 1,049	835 - 1,049	835 - 1,049	835 - 1,049	1,041 - 1,275	1,041 - 1,275	1,041 - 1,275	1,041 - 1,275	1,217 - 1,547	1,217 - 1,547	1,217 - 1,547	1,217 - 1,547
Min. - Max. track width, rear (mm)	781 - 1,261	781 - 1,261	781 - 1,261	781 - 1,261	943 - 1,350	943 - 1,350	943 - 1,350	943 - 1,350	1,096 - 1,550	1,096 - 1,550	1,096 - 1,550	1,096 - 1,550
STANDARD TYRES ^{1, 2)}												
Front 2WD, 4WD	7.00-12, 8.0/75-15	7.00-12, 240/70 R16	7.00-12, 240/70 R16	7.00-12, 240/70 R16	7.00-12, 260/70 R16	7.00-12, 260/70 R16	7.00-12, 280/70 R18	7.00-12, 280/70 R18	6.50-16, 260/70 R20	6.50-16, 260/70 R20	-, 260/70 R20	-, 260/70 R20
Rear	280/85 R24	320/85R24 (12.4 R24)	320/85R24 (12.4 R24)	320/85R24 (12.4 R24)	340/85 R28	340/85 R28	420/70 R28	420/70 R28	340/85 R28	340/85 R28	340/85 R28	340/85 R28

* To comply with legislation and specification in your country

• Standard Equipment ● Optional Equipment - Not available

¹⁾ With standard tyres ²⁾ Other tyres on request ³⁾ ECE R120 correspond to ISO 14396 and 97/68/EC ⁴⁾ for 4WD tractor equipped with standard tyres



RETHINK PRODUCTIVITY

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