

# QUANTUM V/F

65-106 hp Quantum V / 75-106 hp Quantum F



**CASE IH**  
AGRICULTURE

# 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.



QUANTUM V	RATED ENGINE POWER (TIER III) kW/hp(CV)
Quantum 65V	48 / 65
Quantum 75V	57 / 78
Quantum 85V	65 / 88
Quantum 95V	71 / 97
Quantum 105V	78 / 106

QUANTUM F	RATED ENGINE POWER (TIER III) kW/hp(CV)
Quantum 75F	57 / 78
Quantum 85F	65 / 88
Quantum 95F	71 / 97
Quantum 105F	78 / 106

<sup>1)</sup> Dimensions depending on rear tyres, Details see page 16 - Specification.



### CONFIGURATIONS TO SUIT YOUR APPLICATION.

The new Case IH Quantum V 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. Quantum F provides more operator space and a wider vehicle for orchard use or where width is less critical. In addition, cab or platform versions can be specified to tailor a tractor from the Quantum specialty range to suit your exact operating conditions.

### CORE FEATURES:

**Driven with confidence.** Easy access, a comfortable seat, good visibility and logically positioned controls enables every driver to operate confidently.

**Designed for productivity.** High torque, low revving 4 cylinder engines are turbocharged and intercooled to extract the maximum from every drop of fuel.

**Effective performance.** From the precision tasks of the growing season to high speed transport during harvest, Quantum tractors have the ideal gear ratio.

**Application driven hydraulics.** A choice of remote valve options with up to 64l/min will power the hydraulic functions and motors of the most complex implements.

**Optimum handling.** Impressive manoeuvrability, powerful brakes, and automatic 4WD systems will meet the challenges in your operation.

**Access all areas.** A low cab height and optional folding safety frame version enables operation to continue under polytunnels and protection nets.

## 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.



... The foldable ROPS is beneficial for low clearance operations.



### **EASY ACCESS.**

Wide opening doors give easy access to the comfort of a Quantum cab.

### **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.



**Low clearance.** The horizontal exhaust system allows these tractors to easily operate under overhanging branches. An optional vertical exhaust is available for cab models.



Quantum engines are equipped with turbocharger and an air to air intercooler to boost thermal efficiency and extract maximum power from every drop of fuel. **Quantum engines allow easy access for cleaning and servicing.**



**Easy refuelling** from the ground without opening the hood. **Greater Autonomy.** With up to 90 litres of fuel (Quantum F) and fuel efficient engines, these tractors carry enough fuel for a full working day.

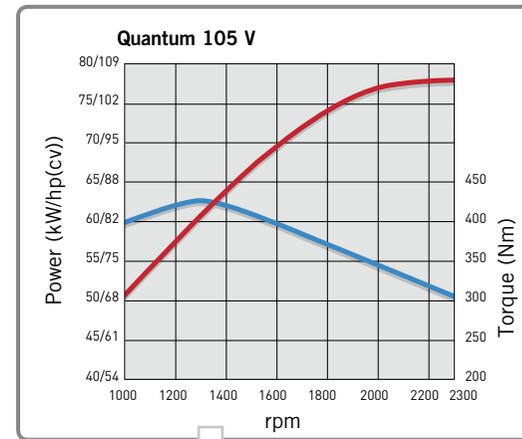
## QUANTUM MEANS CHOICE.

High-performance turbocharged and intercooled diesel engines have been engineered especially for Quantum V 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 nine 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 1250rpm (3.2 litre engines) and 1300rpm (4.5 litre engines) so they can operate extremely efficiently at the standard speeds for working with PTO-driven machines.



### QUANTUM MEANS POWER.

The 4.5 litre engines turn out a massive 398Nm of torque at 1300rpm, 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.

**Quantum engines are always ready to deliver a bit extra when you need it most.**

### QUANTUM MEANS ECONOMY.

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

## EFFICIENT AND ECONOMICAL HANDLING.

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 40kph handling haulage jobs on the road confidently and economically.



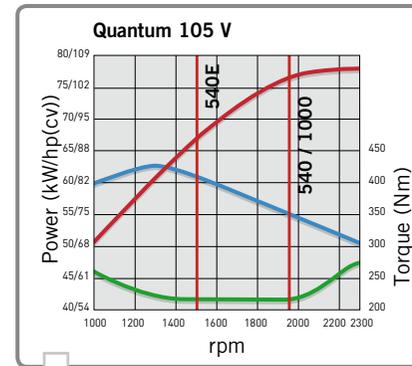
### EVEN MORE CHOICE.

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 540/750rpm 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.**

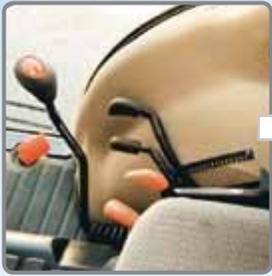


PTO is operated at 2000 engine rpm or at 1535 engine rpm in Economy mode for power and efficiency.



### POWERSHUTTLE TRANSMISSIONS.

**Oil cooled long life wet clutch packs ensure smooth direction changes** and eliminate the need to work the clutch in operations with multiple direction changes.



### **SYNCHRO SHUTTLE.**

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.



### **ALL THE POWER YOU NEED.**

Powershift, Powerclutch, Powershuttle and creep speeds are available for the easiest operation and highest productivity. **The Quantum is ideally suited to specialist orchard and vineyard farming.**



## 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.



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



The conveniently positioned EHC Electronic Hitch Control simplifies hitch operation for greater efficiency and productivity.





### **STRAIGHTFORWARD HANDLING FROM THE GROUND.**

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



### **EASY HITCH CONTROL.**

With a total lifting capacity of 2600kg 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.



### **PRECISE SETTING.**

Hydraulic tilt and lateral adjustments can be made **from the cab on the move.**

## VERSATILE OPERATION.

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.



### AMAZING CONTROL WITH HIGH FLOW RATE HYDRAULICS.

Firstly, there is a dedicated 28l/min hydraulic pump (35l/min with High flow pump) for the steering system, **so there is no loss of response even while all other hydraulic services are in full demand.** Secondly, there is 48l/min pump (64l/min with High flow pump) to supply the hitch and remote valves.



### 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 15kph and at a steering angle tighter than 30°.



**More flexibility with hydraulic stabiliser struts** easily controlled from inside the cab.

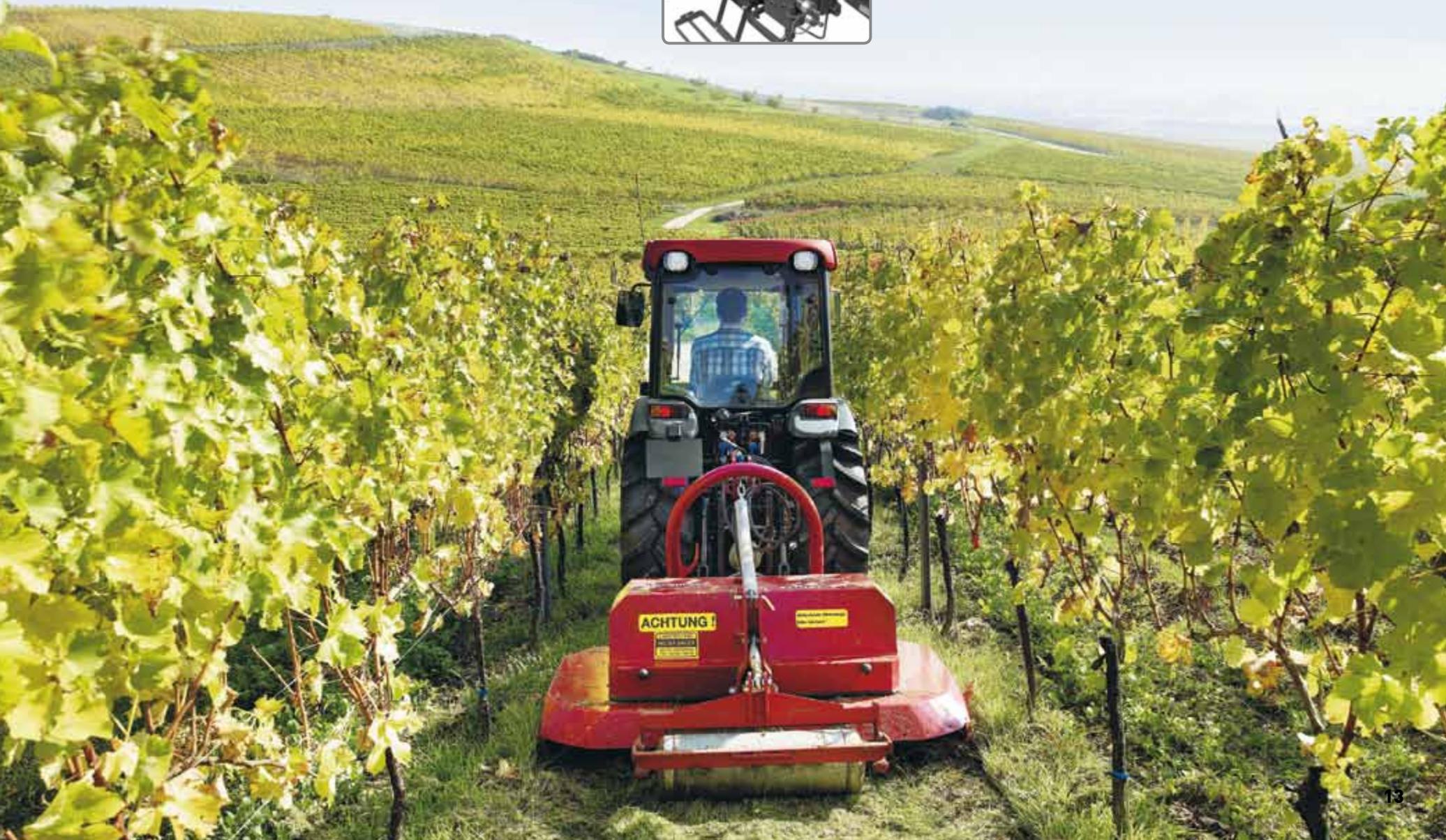
## IMPRESSIVE MANOEUVRABILITY FOR CONFIDENT HANDLING.

Narrow engines plus a contoured hood enable the front wheels to lock at a really tight angle. A turning radius of just 3.3 metres is achievable on 2WD versions, making light work of turns at the end of rows, even in confined spaces between vines and inside tunnels.



## 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.



## OUR SYSTEMS APPROACH.

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 backing 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 fullservice maintenance programmes and industry leading warranties. It's expertise applied by skilled, factory-trained service professionals committed to providing you maximum uptime, season after season.



### AROUND THE CLOCK. AROUND THE COUNTRY.

Case IH Max service is a customer support service that provides 24-hour, seven-day-a-week access to the people, products, and parts support needed to keep your operation running during the times most critical to your profitability. Max service backs up your dealer with every resource available to Case IH, to help maximise uptime and productivity of Case IH equipment and increase your return on investment through access to product experts and 24/7 emergency Breakdown assistance.



### OFFERING FINANCIAL SOLUTIONS FOR MORE THAN 50 YEARS

CNH Industrial Capital's extensive experience in the agricultural industry has created a deep understanding of your unique needs. Competitive equipment financing with flexible payments can reduce upfront payments with operating and finance leases. For other needs, choose from credit cards specific to the agricultural industry. We can even help you finance crop-input products or land rental. There are financing options that fit the way you farm. CNH Industrial Capital helps you find them.

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MODELS	QUANTUM 65V	QUANTUM 75V	QUANTUM 85V	QUANTUM 95V	QUANTUM 105V	QUANTUM 75F	QUANTUM 85F	QUANTUM 95F	QUANTUM 105F
<b>ENGINE</b>									
No. of cylinders / capacity [cm <sup>3</sup> ]	4 / 3200	4 / 3200	4 / 3200	4 / 4500	4 / 4500	4 / 3200	4 / 3200	4 / 4500	4 / 4500
Engine type	Tier III, Turbocharged and Intercooled					Tier III, Turbocharged and Intercooled			
Rated engine power ECE R120 <sup>1)</sup> [kW/hp[CV]]	48 / [65]	57 / [78]	65 / [88]	71 / [97]	78 [106]	57 / [78]	65 / [88]	71 / [97]	78 [106]
Max torque ECE R120 <sup>1)</sup> [Nm @ engine rpm]	290 @ 1250	330 @ 1250	352 @ 1250	398 @ 1300	425 @ 1300	330 @ 1250	352 @ 1250	398 @ 1300	425 @ 1300
Torque rise acc. OECDD [%]	46	39	30	35	31	39	30	35	31
Fuel tank capacity [litres]	77	77	77	77	77	90	90	90	90
<b>TRANSMISSION</b>									
Synchro shuttle - Standard [Optional]	16 Fwd / 16 Rev [32 Fwd / 16 Rev with mechanical splitter]					16 Fwd / 16 Rev [32 Fwd / 16 Rev with mechanical splitter]			
Powershuttle - Standard [Optional]	16 Fwd / 16 Rev [32 Fwd / 16 Rev with 2 speed Powershift]					16 Fwd / 16 Rev [32 Fwd / 16 Rev with 2 speed Powershift]			
Creep speed - Synchro [Powershuttle]	28 Fwd / 16 Rev [44 Fwd / 16 Rev with 2 speed Powershift]					28 Fwd / 16 Rev [44 Fwd / 16 Rev with 2 speed Powershift]			
<b>DRIVE AND STEERING</b>									
Front axle type	optional 2WD or 4WD					optional 2WD or 4WD			
4WD front axle standard	electro-hydraulic engagement with limited slip or full differential lock					electro-hydraulic 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			
Turning radius 4WD [mm]	3340	3340	3340	3440	3440	3340	3340	3440	3440
<b>POWER TAKE OFF</b>									
Type	electro-hydraulic engagement					electro-hydraulic engagement			
Standard Rear pto speeds	540 / 540E					540 / 540E			
Optional speeds available	1000rpm + Proportional Ground Speed					1000rpm + Proportional Ground Speed			
<b>HYDRAULIC SYSTEM</b>									
Max pump flow - steering system	28l/min [35l/min with high flow pump]					28l/min [35l/min with high flow pump]			
Max pump flow - rear hitch and external services	48 l/min [64 l/min with high flow pump]					48l/min [64l/min with high flow pump]			
Remote valves	max 3 rear with optional electro-hydraulic diverter function on up to 2 valves					max 3 rear with optional electro-hydraulic diverter function on up to 2 valves			
Rear linkage control type	MHC [Mechanical Hitch Control] or EHC [Electronic Hitch Control]					MHC [Mechanical Hitch Control] or EHC [Electronic Hitch Control]			
Rear linkage stabilisers	Manual adjustment or hydraulic adjustment with independent valve					Manual adjustment or hydraulic adjustment with independent valve			
Rear lift Capacity [kg]	2600	2600	2600	2600	2600	2600	2600	2600	2600
<b>WEIGHTS* AND DIMENSIONS <sup>2)</sup></b>									
Minimum weight - 2WD less cab / 4WD cab [kg]	2320 / 2710	2320 / 2710	2320 / 2710	2410 / 2790	2410 / 2790	2762 / 2910	2762 / 2910	- / 3000	- / 3000
Max permissible weight - 2WD less cab / 4WD cab [kg]	3650 / 3800	3650 / 3800	3650 / 3800	3650 / 3800	3650 / 3800	3900 / 4400	3900 / 4400	- / 4400	- / 4400
Wheelbase - 2WD / 4WD [mm]	2080 / 2093	2080 / 2093	2080 / 2093	2165 / 2180	2165 / 2180	2068 / 2093	2068 / 2093	- / 2180	- / 2180
Max height <sup>3)</sup> over steering wheel / ROPS [mm]	1315 / 2245	1315 / 2245	1360 / 2290	1400 / 2380	1400 / 2380	1450 / 2390	1450 / 2390	1500 / 2480	1500 / 2480
Max height <sup>3)</sup> standard cab [mm]	2145	2145	2190	2190	2190	2273	2273	2273	2273
Min width on standard tyres <sup>3)</sup> [mm]	1080	1080	1200	1200	1200	1398	1398	1398	1398
Minimum width [mm] on rear tyres	1069mm with 11.2 R28 (280/85 R28)					1398mm with 340/85 R28			
Min - Max track width, front 2WD [mm]	856 - 1088	856 - 1088	856 - 1088	856 - 1088	856 - 1088	1146 - 1565	1146 - 1565	-	-
Min - Max track width, front 4WD [mm]	835 - 1049	835 - 1049	835 - 1049	835 - 1049	835 - 1049	1217 - 1547	1217 - 1547	1217 - 1547	1217 - 1547
Min - Max track width, rear [mm]	781 - 1261	781 - 1261	781 - 1261	781 - 1261	781 - 1261	1096 - 1550	1096 - 1550	1096 - 1550	1096 - 1550
<b>STANDARD TYRES*</b>									
Front 2WD, 4WD	7.00-12, 8.0/75-15	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	6.50-16, 260/70 R20	6.50-16, 260/70 R20	-, 260/70 R20	-, 260/70 R20
Rear	280/85 R24	280/85 R24	320/85 R24 [12.4 R24]	320/85 R24 [12.4 R24]	320/85 R24 [12.4 R24]	340/85 R28	340/85 R28	340/85 R28	340/85 R28

- Not available \* to comply with legislation and specification in your country 1) ECE R120 correspond to ISO TR14396 2) with standard tyres 3) for 4WD tractor equipped with standard tyres

 Safety never hurts! Always read the Operator's Manual before working with any equipment. Inspect equipment before using it, and be sure it is operating properly. Follow the product safety signs, and use any safety features provided. This literature has been published for worldwide circulation. The standard and optional equipment and the availability of individual models may vary from one country to the next. Case IH reserves the right to undertake modifications without prior notice to the design and technical equipment at all times without this resulting in any obligation whatsoever to make such modifications to units already sold. Whilst every effort is made to ensure that the specifications, descriptions and illustrations in this brochure are correct at the time of going to press, these are also subject to change without prior notice. Illustrations may show optional equipment or may not show all standard equipment.



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