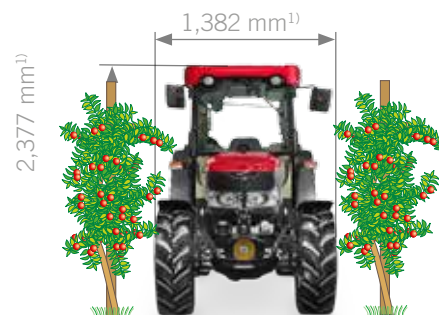
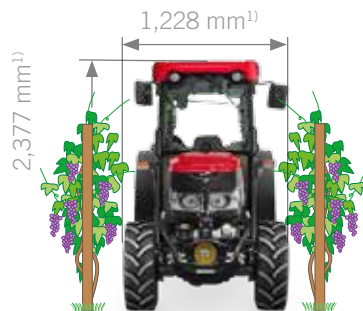
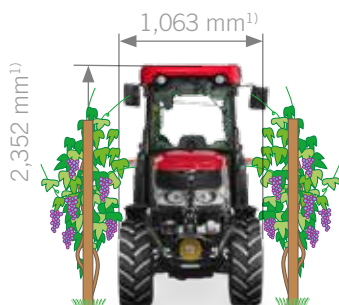


CASE IH
AGRICULTURE
FOR THOSE WHO DEMAND MORE

QUANTUM V/N/F

75 - 107 HP TRACTORS





¹⁾ Dimensions depending on rear tyres, Details see page 8

WORK IN COMPLETE COMFORT

While Quantum tractors benefit from compact dimensions, operator space and comfort were high on the list of design priorities. You will find pedals are easy to operate, and other controls are grouped around the operator and ergonomically laid out to ensure they are always close at hand.

NEW QUANTUM

The compact, capable specialty tractor

Whether you produce grape, grow fruit or require a narrow tractor for other jobs, the slim dimensions, tight turning circle and rethought design of the new Quantum will make it your best asset. With new features including greater hydraulic output, easier connection for the mid-mount hydraulic coupling and an integrated front PTO option, these are machines that combine the best of two worlds. On one hand, the characteristics and qualities you require in a specialty tractor, and on the other hand the design and dependability that's common to all Case IH products. Agile, comfortable, capable and reliable – that's Case IH new Quantum.

NEW QUANTUM: SPECIALTY TRACTORS FOR DEMANDING TASKS

MODELS	Quantum 80 V/N/F	Quantum 90 V/N/F	Quantum 100 V/N/F	Quantum 110 V/N/F
N° of cylinders / capacity (cm ³)	4 / 3,400	4 / 3,400	4 / 3,400	4 / 3,400
Rated engine power (kW / cv)	55 / 75	63 / 86	73 / 99	79 / 107
Max. torque (Nm @ engine rpm)	309 @ 1,500	351 @ 1,500	407 @ 1,500	444 @ 1,500
Transmission	2WD* / 4 WD	2WD* / 4 WD	2WD* / 4 WD	2WD* / 4 WD
Versions	ROPS / Cab	ROPS / Cab	ROPS / Cab	ROPS / Cab

*Not available on Quantum F





FRESH AIR WHATEVER THE WORK

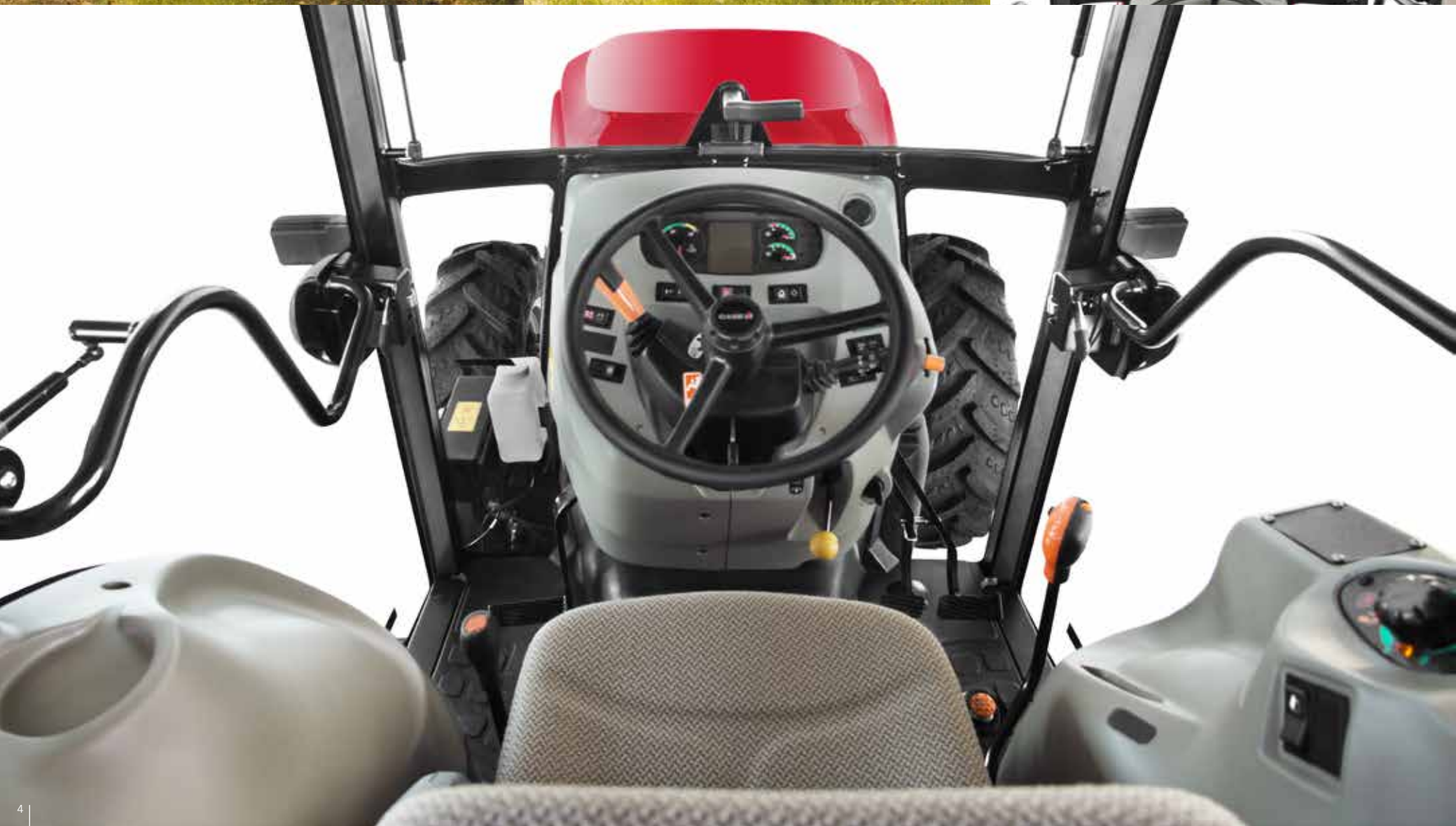
The new Quantum tractors are available with a switchable air filtration system that can be easily altered according to the task. The default setting is standard Level 2 filtration to remove dust from incoming ventilation air. Via a simple switch this can be changed to Level 4 filtration when spraying, to prevent the ingress of unhealthy chemical particles.

POWER, PERFORMANCE, PRODUCTIVITY

Case IH Quantum tractors are powered by in-house engines. That means they are configured to perform seamlessly and efficiently. You will find there is plenty of power for operating any type of implements. And when the time comes for servicing, oil level checks and filter access are easy.

ALL THE OIL FLOW YOU NEED

Case IH knows that hydraulically-operated orchard and vineyard equipment can be especially demanding in terms of oil flow. That's why the latest Quantum tractors are available with an optional 80 litres/min pump.





2



3

BIG IN THE INSIDE

Small on the outside

Designed to make every day's work faster, easier and more enjoyable, the Case IH Quantum cab provides you with a workplace that is simply one of the most comfortable in its category.

Controls are logically-placed, making operation quickly intuitive, and comfort is enhanced by features such as a tilting and telescoping steering wheel, to make sure it is easy to find the ideal operating position. In addition, the revolutionary switchable filtration system helps protect the operator and permits to adapt the environment to the task at hand. The filtration level is switchable through a clear, intuitive command hub and display conveniently located in the upper part of the cabin. The result is simpler, safer and more productive operations.

With orchard, vineyard and other hydraulic implements such as pruners and trimmers being particularly demanding in terms of oil flow, Case IH has not skimped when it comes to providing Quantum tractors with plenty of capacity.

A 80 litres/min alternative to the standard 64 litres/min pump – both open centre – provides all the oil-flow you need. And with two improved mid-mount hydraulic couplers available, as well as the standard units at the rear, it is easy to power two implements at once.

Rear linkage lift capacity is a generous 2,600kg, with mechanical or optional electronic control. Color-coded controls for both linkage and hydraulics make operation easy.

QUANTUM. COMFORT, CONVENIENCE AND POWER.

1 Revolutionary filtration system with intuitive controls

2 Ergonomically and logically laid out controls

2 Color-coded hydraulic valves for faster, easier connexion

ADVANTAGES

- New revolutionary filtration system – switchable between Level 2 and Level 4
- Unobstructed view on your implements and surroundings
- Ergonomic and logically laid-out controls
- Plenty of hydraulic power
- Robust front and rear linkage



POWERFUL PERFORMERS

Frugal with fuel

The use of cooled exhaust gas recirculation (CEGR) and a diesel particulate filter oxidation catalyst (DOC) means the latest Quantum tractors need no diesel exhaust fluid (DEF/AdBlue) to meet Stage IIIB emissions regulations. They are powered by 3.4-litre four-cylinder engines from FPT Industrial, a Case IH sister company. That means they are configured exactly to the needs of these machines, producing all the power and torque that tough specialty tasks demand.

High-pressure electronic common rail fuel injection produces an instant throttle response for fast recovery under load, greater lugging power and reduced vibration for improved operator comfort. The wastegate turbocharger is responsive from low down the engine rpm range, for minimal turbo lag and near-instant response.

Electronic Speed Control makes it possible to set engine speeds precisely, and to store up to two speed settings.

Quantum design makes daily checks easy – it's simple to check the engine oil level and gain radiator access, for example. And when the time comes, filters are easy to get to and remove.

QUANTUM. ENGINES THAT MEAN BUSINESS.

ADVANTAGES

- In-house, precisely configured engines
- More efficient turbocharging
- New DOC filtration system
- No maintenance for aftertreatment
- Industry-leading 600 hr oil change interval
- Best in class fuel consumption



EfficientPower **EP**
MORE PRODUCTIVITY ■ LESS FUEL



The standard Synchro Shuttle transmission on Quantum is anything but basic, giving you four speeds and four ranges. The option of a 12-speed creeper box, provides 28 forward gears and 16 reverse speeds for work requiring slow forward travel rates. As a further option, specifying Powershift doubles the number of forward speeds. When combined with the creeper box, that means you have 44 speeds from which to choose, ensuring you have the right speed at your disposal whatever the task.

Lastly, a Power Clutch feature allows you make gearshifts at the touch of a button or disengage drive without using the clutch, a feature that's also useful when pulling heavy loads on hills.

At the rear, you can stick to the standard, economical 540/540E rpm PTO, which will guarantee excellent power optimisation; or opt for the 540/540E/1000 rpm option should you need higher power flow in your daily operations. To increase even further the capabilities of your new Quantum, you can also specify it with a front linkage and an integrated front PTO.

With this option, you can combine two different operations in one pass, such as mowing between rows with a front-mounted unit while applying products with a rear-mounted sprayer. Whichever approach you choose, you save time – and therefore money.

QUANTUM. A TRANSMISSION THAT IS BUILT TOUGH.

ADVANTAGES


- Versatile and flexible transmission
- Creeper box available
- Integrated front PTO

MODEL	QUANTUM 80V	QUANTUM 90V	QUANTUM 100V	QUANTUM 110V	QUANTUM 80V	QUANTUM 90N	QUANTUM 100N	QUANTUM 110N	QUANTUM 80F	QUANTUM 90F	QUANTUM 100F	QUANTUM 110F
ENGINE												
N° of cylinders / capacity (cm³)	4 / 3,400	4 / 3,400	4 / 3,400	4 / 3,400	4 / 3,400	4 / 3,400	4 / 3,400	4 / 3,400	4 / 3,400	4 / 3,400	4 / 3,400	4 / 3,400
Engine type	Stage IIIB				Stage IIIB				Stage IIIB			
Rated engine power (kW / cv)	55 / 75	63 / 86	73 / 99	79 / 107	55 / 75	63 / 86	73 / 99	79 / 107	55 / 75	63 / 86	73 / 99	79 / 107
Max. torque (Nm @ engine rpm)	309 @ 1,500	351 @ 1,500	407 @ 1,500	444 @ 1,500	309 @ 1,500	351 @ 1,500	407 @ 1,500	444 @ 1,500	309 @ 1,500	351 @ 1,500	351 @ 1,500	444 @ 1,500
Fuel tank capacity	67,5				72,5				98,5			
TRANSMISSION												
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)				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)				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)				28 Fwd / 16 Rev (44 Fwd / 16 Rev with 2 speed Powershift)			
DRIVE AND STEERING												
Front axle type	Optional 2WD or 4WD				Optional 2WD or 4WD				4WD			
4WD front axle standard	electro-hydraulic system, with limited slip or full differential lock				electro-hydraulic system, with limited slip or full differential lock				electro-hydraulic system, with limited slip or full differential lock			
4WD optional feature	Automatic 4WD engagement and diff. lock operation linked to steering angle				Automatic 4WD engagement and diff. lock operation linked to steering angle				Automatic 4WD engagement and diff. lock operation linked to steering angle			
Turning radius 4WD (mm)	3,166				3,495				4,186			
POWER TAKE OFF												
Type	electro-hydraulic engagement				electro-hydraulic engagement				electro-hydraulic engagement			
Standard rear PTO speed	540 / 540 Eco				540 / 540 Eco				540 / 540 Eco			
Optional speeds available	540/540E/1000 with ground speed				540/540E/1000 with ground speed				540/540E/1000 with ground speed			
HYDRAULIC SYSTEM												
Max. pump flow – rear hitch and external services	64l/min. (80l/min. with MegaFlow pump)				64l/min. (80l/min. with MegaFlow pump)				64l/min. (80l/min. with MegaFlow pump)			
Rear linkage control type	Max. 3 rear valves with optional hydraulic stabilizer				Max. 3 rear valves with optional hydraulic stabilizer)				Max. 3 rear valves with optional hydraulic stabilizer)			
Rear linkage stabilisers	Mechanic Draft Control or Electronic Draft Control				Mechanic Draft Control or Electronic Draft Control				Mechanic Draft Control or Electronic Draft Control			
Max. lift capacity (kg)	2,600				2,600				2,600			
WEIGHTS* AND DIMENSIONS												
Minimum weight - 2WD less cab / 4WD cab (kg)	2,317 / 2,568		2,407 / 2,666		2,404 / 2,670		2,494 / 2,670		-2,832		-2,912	
Max. permissible weight - 2WD less cab / 4WD cab (kg)	3,650 / 3,800				3,650 / 4,000				-4,300			
Wheelbase 2WD / 4WD (mm)	2,165.5 / 2,190				2,165.5 / 2,180				-2,435			
Max. height over steering wheels	1,460				1,500				1,530			
Max. height standard cab (mm)	2,352				2,377				2,377			
Min. width standard tyres (mm)	1,180				1,270				1,440			
Min. width on rear tyres (mm)	1,063 with 280/85R28				1,228 con 320/85R24				1,382 con 320/85R28			
Min. - Max. track width front 2WD (mm)	856 - 1,088				1,002 - 1,214				-			
Min. - Max. track width front 4WD (mm)	835 - 1,049				1,075 - 1,279				1,190 - 1,492			
Min. - Max. track width, rear (mm)	781 - 1,261				943 - 1,239				1,058 - 1,371			
Version available	ROPS / Cabs				ROPS / Cabs				ROPS / Cabs			
STANDARD TYRES												
Front 2WD, 4WD	6.00 – 16 / 7.50 R16				6.00 – 16 / 7.50 R16				6.00 – 16 / 7.50 R16			
Rear	12.4 R 28				13.6 R 28				13.6 R 28			

GENUINEPARTS WE KEEP YOUR EQUIPMENT RUNNING.

Your local Case IH dealer and our dedicated 24/7 parts call centre technicians and their logistic colleagues are all part of the Case IH ServiceTeam network. They're highly trained to give you expert advice and solve problems, ensuring the correct, genuine Case IH parts are located and dispatched right away, reaching you next day or sooner to keep your machine in top condition. This means your machine's downtime is kept to a minimum so we can keep you farming.

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 www.caseih.com - Free phone 00800 22 73 44 00

 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. Case IH recommends **AKCELA** lubricants.

MAXSERVICE AROUND THE CLOCK. AROUND THE COUNTRY.

When you're working around the clock, MaxService ensures you're never alone. It's a dedicated helpline that connects you to the Case IH ServiceTeam 24/7. Call technicians at your local dealer are ready to assist with technical advice, software solutions and genuine parts ordering. They can even diagnose problems remotely, using EST/DATAR, to get you going again, or alert a service technician to bring a part to the field. At peak season, we can keep you farming with breakdown assistance.

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