

# QUANTUM V/N/F

75 | 85 | 95 | 105 HP TRACTORS



**CASE II**

# THE NEXT GENERATION: VERSATILE, AGILE, POWERFUL

## Quantum means choice

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.

### CONFIGURATIONS TO SUIT YOUR APPLICATION.

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

<sup>2)</sup> ECE R120 correspond to ISO 14396 and 97 / 68 / EC or 2000 / 25 / EC

Case IH offers a range of 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.

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



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

**THE RIGHT TRANSMISSION TO MEET YOUR NEEDS** The straight forward 32 x 16 transmission is easy to operate for any operator. The Powershuttle with wet clutch makes for smooth and easy direction changes, as well as having cheaper running costs. It has a two speed Hi-Lo Powershift to adjust forward speed under load. 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.

**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.



QUANTUM SERIES TRACTOR SPECS	QUANTUM 75V	QUANTUM 85V	QUANTUM 95V	QUANTUM 105V	QUANTUM 95N	QUANTUM 105N	QUANTUM 85F	QUANTUM 95F	QUANTUM 105F
<b>ENGINE</b>									
Number of cylinders / Capacity (cm <sup>3</sup> )	4 / 3,200	4 / 3,200	4 / 4,500	4 / 4,500	4 / 4,500	4 / 4,500	4 / 3,200	4 / 4,500	4 / 4,500
Type / Emission level	Turbocharged and inter-cooled / EURO-Stage IIIB								
Rated power ECE R120 <sup>3)</sup> (hp/kW)	78 / 57	88 / 65	97 / 71	106 / 78	97 / 71	106 / 78	78 / 65	97 / 71	106 / 78
Max torque ECE R120 <sup>3)</sup> (Nm @ engine rpm)	330@1,250	352@1,250	398@1,300	425@1,300	398@1,300	425@1,300	352@1,250	398@1,300	425@1,300
Torque rise acc OECD (%)	39	30	35	31	35	31	30	35	31
Fuel tank capacity (litres)	77	77	77	77	77	77	90	90	90
<b>TRANSMISSION OPTIONS</b>									
32 x 16 2-speed Powershift with power-shuttle, 30 or 40 kph	☐	☐	☐	☐	☐	☐	☐	☐	☐
44x16 2-speed Powershift with powershuttle creeper, 30 or 40 kph	☐	☐	☐	☐	☐	☐	☐	☐	☐
<b>POWER TAKE OFF</b>									
Engagement type	Cerametallic independent, hydraulic assisted				electro-hydraulic		electro-hydraulic		
Speeds Standard (Option) (rpm)	540 / 540E (1,000 rpm + proportional ground speed)				540 / 540E (1,000 rpm + proportional ground speed)		540 / 540E (1,000 rpm + proportional ground speed)		
<b>DRIVE AND STEERING</b>									
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 <sup>1)</sup> 4WD (m)	3.34		3.44		3.44		3.44		
<b>HYDRAULIC SYSTEM</b>									
Max. pump flow - steering system	35 l/min with high flow pump				35 l/min with high flow pump		35 l/min with high flow pump		
Max. pump flow - rear hitch and external services	64 l/min with high flow pump				64 l/min with high flow pump		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 (Mechanical Hitch Control) or EHC (Elec Hitch Control) (CAB only)				MHC (Mechanical Hitch Control) or EHC (Elec Hitch Control) (CAB only)		MHC (Mechanical Hitch Control) or EHC (Elec Hitch Control) (CAB only)		
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		
<b>WEIGHTS AND DIMENSIONS<sup>1)</sup></b>									
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	2,495/2,855	2,495/2,855	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	4,400	- / 4,400	- / 4,400
Total height <sup>4)</sup> over steering wheel / ROPS (mm)	1,315/2,245	1,360/2,290	1,400/2,380	1,400/2,380	1,460/2,440	1,460/2,440			
Total height <sup>4)</sup> standard cab (mm)	2,145	2,190	2,190	2,190	2,250	2,250	2,273	2,273	2,273
Min. width on standard tyres <sup>4)</sup> (mm)	1,080	1,200	1,200	1,200	1,530	1,530	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	2,165/2,180	2,165/2,180	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			
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	1,217-1,547	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	1,096-1,550	1,096-1,550	1,096-1,550
<b>STANDARD TYRES<sup>*, 2)</sup></b>									
Front 2WD	7.00-12	7.00-12	7.00-12	7.00-12	7.00-12	7.00-12	6.50-16	-	-
Front 4WD	8.0/75-15	240/70 R16	240/70 R16	240/70 R16	280/70 R18	280/70 R18	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	340/85 R28	340/85 R28	340/85 R28



\* To comply with legislation and specification in your country ☐ Standard Equipment ☐ Optional Equipment - Not available

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

The data indicated in this folder are approximate. The models described here can be modified without the manufacturer's notice. The drawings and photos may refer to equipment that is either optional or intended for other countries. Please get in touch with our Dealer Network for any further information. Published by CNH Industrial. Printed for New Zealand - 11/22 - 10007/NZ

