

# TECHNICAL DATA

# AGROTRON TTV 610 • 620



Type designation		610	620
<b>Engine</b>			
Liquid-cooled DEUTZ diesel engine	Type	TCD 2012 L6 4V	
Cylinders/cubic capacity	No./cm <sup>3</sup>	6/6,057	
Bore/stroke	mm	108/130	
Injection system		DCR (DEUTZ Common-Rail) with 1.600 bar injection pressure and 6-hole-injectors	
Rated Power (2000/25/CE) (2000/25 EC)*	kW/hp	115/157	121/165
Homologated power (2000/25 EC)*	kW/hp	121/165	124/169
Max. power with DPC	kW/hp	121/165	135/184
Speed rated power	rpm	2,100	
Starting torque	%	106	110
Maximum torque	Nm	606	693
Constant power range	rpm	1,400-1,900	
Air intake		On top left A strut	
Tank capacity	l	300	
Engine oil change interval		500 h or annually	
<b>Cab</b>			
Construction		Integrated, sound-proofed safety cab	
Noise level	dB (A)	73-74	
Air conditioning		Standard	
PowerComV armrest		Standard	
Cab suspension		mechanical or pneumatic on request	
<b>Electrical system</b>			
Voltage	V	12	
Alternator	W/A	2,500/200	
Starter	V/kW	12/3.1	
Battery	V/Ah	12/180	
External socket		7 pole signal/7 pole ISO and DIN (option)	
High-voltage socket		3-pin, 25 A	
AGROTRONic-hD connections		External signal transmitter, 4-pin	
<b>Chassis, brakes, steering</b>			
Front drive		Central drive	
Front axle suspension		hydro-pneumatic suspension on request	
Differential locks front/rear	ASM	Fully-automatic control through speed, steering angle, individual wheel brake and slip (100% locking value); can be deactivated	
Service brake	front/rear	Automatic engagement front drive/oil-immersed disk brake system	
Parking brake		Acts on disk brake in rear axle	
Steering angle	°	52°	
Turning radius	m	5.13	
Steering		Open Centre with separate pump	
Pump flow rate/pressure	l/min (bar)	44 (185)	

\* without fan

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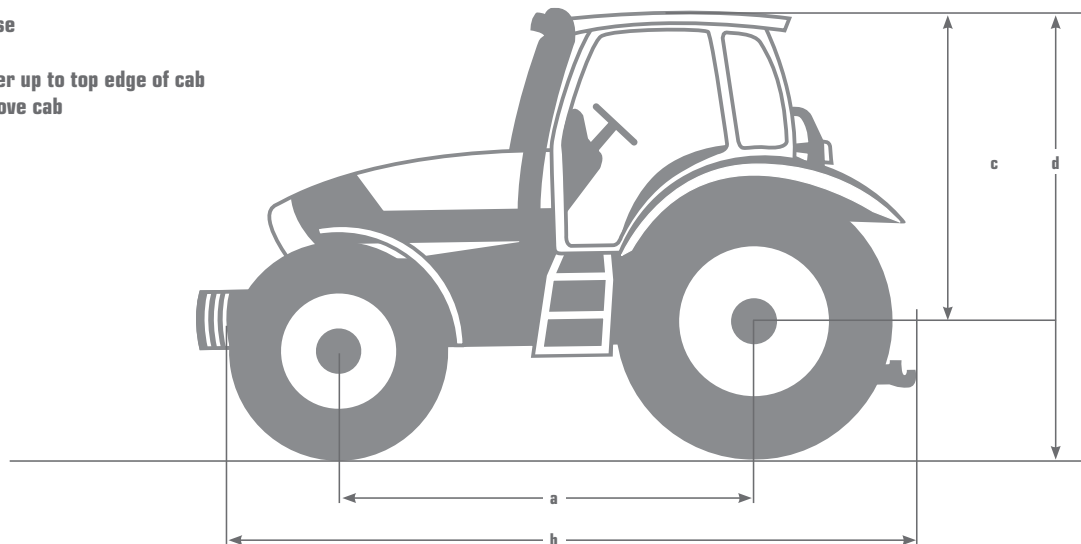
Type designation	610	620
<b>Hydraulic system</b>		
System	Load sensing	
Oil reservoir	Shared with transmission	
Pump flow rate	l/min (bar)	Load sensing 120 (200)
Available oil quantity	l	30
<b>Front PTO on request</b>		
Clutch	Multi-plate clutch, oil-immersed	
Actuation	Electrohydraulic	
PTO speed	rpm	1,000
PTO profile	6-spline shaft 1 3/8"	
Max. transmittable power	kW/hp	110/150
Direction of rotation	Right in direction of travel	
Actuation	Electrohydraulic/right	
Engine speed at PTO speed 1,000	rpm	2,100
<b>Rear PTO</b>		
Clutch	Oil-immersed, modulating start-up	
Actuation	Electrohydraulic circuit	
PTO stub	Bolted, can be exchanged	
Profiles	6-spline shaft 1 3/8"	
Engine speed 540/1,000 and 540E/1,000E	rpm	1,946 and 1,645 rpm
Remote control	On left rear mudguard (and right on wide mudguards)	
<b>Transmission</b>		
Transmission type	Infinitely variable TTV transmission up to 50 km/h * (40 km/h on request)	
Reversing transmission	Hydraulic, oil-immersed multi-plate clutches	
Oil cooler	Standard	
Transmission/hydraulics oil volume	l	120
Maximum speed	Set by means of engine speed regulator, max. speed 40 or 50 km/h – 50 km/h with lowered engine speed of only 1,830 rpm	
<b>Powerlift</b>		
AGROTRONIC-hD	Draft/positional/mixed control/free floating/ diagnosis/vibration damping/slip control	
Category of 3-point hitch, rear	II/III; WKS-fast action couplings	
Rear powerlift lifting force	kg	9,200
Rear powerlift remote control mudguards	on left mudguard as standard, left and right optional	
Front powerlift lifting force (on request)	kg	4,000
Category of 3-point hitch, front	II/III; WKS-fast action couplings	
<b>Additional hydraulic remote valves</b>		
Number electronic	4	
Parallel operation	Standard	
Non-pressurized recirculation	Standard	
Blocking/engaging	In neutral position or raise/lower	
Functions pressure	Double-acting with float position, can be coupled under pressure	
Actuation	By PowerComV for 1+2, Joystick for 3+4	
Flow rate adjustment	4 remote valves electrically adjustable	
Flow time adjustment	2 remote valves electrically adjustable	

\* If allowed by law

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- a Wheel base
- b Length
- c Axle center up to top edge of cab
- d Height above cab



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<b>Dimensions in mm</b>			
a		2,767	
b		4,757	
c		2,102	
d		2,997	
Width across tires (max.)		2,500	
Turning radius for track 1.900		5,125	
Ground clearance		570	
<b>Weights in kg</b>			
Unladen weight	front	2,195	
Unladen weight	rear	4,330	
Unladen weight	total	6,525	
Payload	front	2,505	
Payload	rear	3,670	
Payload	total	4,475	
Permissible laden weight	front	4,700	
Permissible laden weight	rear	8,000	
Permissible laden weight	total	10,500	

With front axle suspension: +200 kg; cab suspension +25 kg; front powerlift: +300 kg; front PTO +80 kg; hydraulic brake system +50 kg; front ballast carrier +330 kg

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<b>Tires, wheels, track widths</b>		
<b>Normalrad (ab Werk)</b>	<b>AGROTRON TTV track widths (mm)</b>	
16,9 R28		1,900 f
20,8 R38		1,900 r
480/70 R28		1,900 f
580/70 R38		1,900 r
480/65 R28		1,900 f
600/65 R38		1,850 r
540/65 R28		1,900 f
650/65 R38		1,850 r
<b>Permitted row crop tire combinations with disk wheels*</b>		
230/95 R36		
270/95 R48		
270/95 R32		
300/95 R46		
320/90 R32		
340/85 R48		
270/95 R36		
300/90 R50		
290/95 R34		
420/80 R46		
420/70 R28		
18,4 R38		
<b>Flange dimensions</b>		
Flange dimension at front	(mm)	1,710
Wheel connection at front	(mm)	275 x 8 x 20
Flange dimension at rear	(mm)	1,876
Wheel connection at rear	(mm)	275 x 8 x 22
Transmission i	(rear/front)	1.3156
Lead calculation as %: $[(\text{rolling circumference at front} \div \text{rolling circumference at rear} \times i) - 1] \times 100\% = \text{lead as \%}$ . The lead should be at least + 0.5% and no more than + 4.5%.		

\* Can be obtained from commercial outlets.

Available standard tire combinations are given on the current valid price lists. Operation with twin wheels at front and rear is permitted; road traffic regulations and road traffic licensing regulations must be observed.

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