

TECHNICAL DATA

AGROTRON M

410 • 420 • 600 • 610 • 615 • 620 • 625 • 640 • 650

Type designation		410	420	600	610	615	620	625	640	650
Engine										
Liquid-cooled DEUTZ diesel engine	Type	2012 L04 4V		2012 L06 2V		2012 L06 4V	2012 L06 2V	2012 L06 4V		
Cylinders/cubic capacity	No./cm ³	4/4,038				6/6,057				
Bore/stroke	mm	101/126								
Injection system		DCR (DEUTZ Common-Rail) with 1,600 bar injection pressure and 7-hole-injectors								
Rated Power	kW/hp	98/134	113/154	89/121	97/132	107/146	114/155	120/163	125/171	133/181
Homologated power (2000/25 EC)*	kW/hp	98/134	113/154	97/132	107/146	107/146	120/163	120/163	129/176	135/184
Max. power with DPC	kW/hp	104/142	116/157	97/132	107/146	110/149	122/166	122/166	133/181	141/192
Rated engine speed	rpm	2,100								
Maximum torque	Nm	610	659	599	599	599	659	659	717	749
Constant torque range	rpm	1,600-1,100			1,600-1,200	1,700-1,100	1,700-1,400	1,600-1,100	1,700-1,000	1,700-1,100
Power at maximum torque	kW/PS	90/122	97/131	88/120	96/131	98/133	110/149	102/139	120/163	126/171
Constant power range	rpm	1,600-2,100		1,700-2,100		1,800-2,100			1,750-2,100	
Air intake		under the hood			on the A-strut, left hand top					under the hood
Tank capacity	l	270							305	
Engine oil fill data/changing intervals*		12/500 h or annually			14/500 h or annually				16/500 h or annually	
Cab										
Cab		Integrated, sound-proofed safety cab								
Noise level	dB (A)	70-73								
Multifunktionsarmlehne		standard								
Air conditioning		standard								
PowerComS armrest		with ProfiLine version								
iMonitor operating terminal		on request with ProfiLine version								
Automatic steering guidance		on request Agrosky with an accuracy of ±2 cm								
Cab suspension mechanical or pneumatic		upon request								
Electrical system										
Voltage	V	12								
Three-phase alternator	W/A	14/150							14/200	
Starter	V/kW	12/4								
Battery	V/A	12/180								
ISOBUS implements operation (DIN 11783)		on request preliminary setup for terminal or via iMonitor								
Chassis, brakes, steering										
Front axle drive system		Central drive								
Front axle suspension	50 km/h	standard								
Front axle suspension	40 km/h	on request								
Front axle control front/rear	ASM	Fully automatic control with speed, steering angle, individual wheel braking and slip (100% locking); can be deactivated								
Service brake	front/rear	Automatic activation of the front drive/disc brake system, oil-immersed								4-wheel braking
Power brake unit		standard								
Steering angle/turning radius	m	4.65		4.95		5.13			5.80	
Steering		Load Sensing with separate pump (42l/180 bar)								
Hydraulic system										
System		Open Center or Load Sensing upon request								
Oil reservoir		Shared with transmission								
Pump flow rate	l/min (bar)	Open Center 83 (200)/Load Sensing 120 (200)								
Available oil quantity	l	max. 40								
Front PTO upon request										
Operation/Sense of rotation		electro-hydraulic/right								
Speed at 1,960 rpm engine speed	rpm	1,000								
Rear PTO										
Clutch		Oil-immersed, modulating start-up								
Actuation		electro-hydraulic shifting, Automatic function								
PTO stub		bolted								
Profiles		1 3/8" PTO 6-spline shaft or 1 3/8" 21-spline								
Engine speed 540/1,000 u. 540E/1,000E		1,995 and 1,610 rpm								
Remote control		on rear mudguard left (and right with wide mudguards)								

* 250 h with bio-diesel

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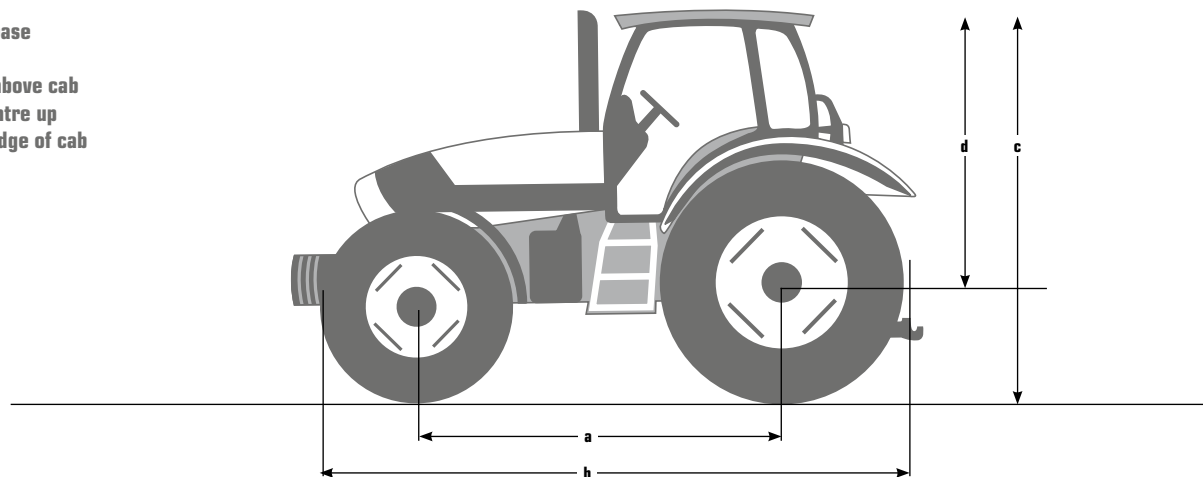
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Transmission									
Type	7,200; 6-speed range transmission; synchronized								
Powershift	4-speed powershift								
Automatic Powershift	with ProfiLine version								
Powershuttle reversing transmission	standard								
Max. speed	40/50 km/h	Adjustment with engine speed controller max. Speed 40/50 km/h							
No. of gears (with creeper gear)	F/R	24/24 (40/40)							
Vibration absorbers	Hydrodamp torsion damper								
Clutch	Multi-plate clutch, oil-immersed								
Powerlift									
AGROTRONIC-hD	Draft control/position control/mix control/float/diagnosis/vibration damping/slip control								
Category of 3-point hitch, rear	II/III; fast action couplings								
Lifting force rear	kg	9,200							
Remote control of rear powerlift	standard on mudguard, left and right								
Front powerlift (upon request) – lifting force	kg	4,000							4,500
Cat. 3-point hitch, front	II; fast action couplings								
Hydraulic remote valves									
Quantity	4 standard; 5 or 6 upon request								
Parallel operation	standard								
Functions	Double-acting with floating position, can be coupled under pressure								
Actuation	cross lever; 2 single lever								
Electr. actuation with ProfiLine	2 using button in PowerComV control lever; 2 using proportional joystick on ProfiLine								
Flow rate	4 control units mechanically adjustable/4 control units electrically adjustable on ProfiLine								
Throughflow time	2 control units electrically adjustable on ProfiLine								
*Speeds Agrottron M 410, 600, 610, 615									
		Creeper speed				Normal			
		L	M	H	S	L	M	H	S
1		0.40	0.48	0.57	0.68	3.24	3.89	4.65	5.58
2		0.71	0.86	1.02	1.23	5.84	7.00	8.38	10.04
3		1.15	1.37	1.64	1.97	9.36	11.22	13.43	16.11
4		1.73	2.07	2.48	2.97	14.11	16.91	20.24	24.27
5		–	–	–	–	19.40	23.26	27.84	33.38
6		–	–	–	–	29.68	35.59	42.60	50.00
**Speeds Agrottron M 420, 620, 625									
		L	M	H	S	L	M	H	S
1		0.41	0.50	0.59	0.71	3.38	4.05	4.85	5.81
2		0.74	0.89	1.07	1.28	6.09	7.30	8.73	10.47
3		1.19	1.43	1.71	2.06	9.76	11.70	14.01	16.80
4		1.80	2.16	2.58	3.10	14.71	17.64	21.11	25.31
5		–	–	–	–	20.23	24.25	29.03	34.80
6		–	–	–	–	30.85	37.11	44.41	50.00
**Speeds Agrottron M 640									
		L	M	H	S	L	M	H	S
1		0.39	0.47	0.56	0.67	3.18	3.81	4.56	5.47
2		0.70	0.84	1.00	1.20	5.72	6.86	8.21	9.84
3		1.12	1.35	1.61	1.93	9.18	11.00	13.17	15.79
4		1.69	2.03	2.43	2.91	13.83	16.58	19.84	23.79
5		–	–	–	–	19.01	22.80	27.29	32.71
6		–	–	–	–	29.10	34.89	41.75	50.00
***Speeds Agrottron M 650									
		L	M	H	S	L	M	H	S
1		0.39	0.47	0.56	0.67	3.18	3.82	4.57	5.48
2		0.70	0.84	1.01	1.21	5.73	6.87	8.22	9.86
3		1.12	1.35	1.61	1.94	9.19	11.02	13.19	15.82
4		1.69	2.03	2.43	2.92	13.85	16.61	19.88	23.83
5		–	–	–	–	19.05	22.84	27.33	32.77
6		–	–	–	–	29.15	34.95	41.83	50.00

*Tyres 18.4 R 38; **Tyres: 580/70 R 38; *** Tyres: 20.8-42. All speeds are identical both forwards and reverse.

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



Type designation	410	420	600	610	615	620	625	640	650	
Dimensions in mm										
a Wheel base	2,419		2,647			2,767		2,817		
b Length with lower link	4,359		4,587			4,757		4,807		
c Height above cab	3,004	3,054	3,004		3,054		3,007		3,127	
d Axle centre up to top edge of cab			2,149			2,132		2,202		
Width across tyres (max.)	2,540					2,720				
Ground clearance	520					570		605		

Tyres Agrottron 410/615: 18,4R38; 620-640: 20,8R38; 650: 650/65 -R42.

Weights in kg									
Total unladen weight	5,155	5,435	5,530			5,810		5,970	6,520
Total perm. weight front axle	4,200	4,700	4,200			4,700		4,700	5,200
Total perm. weight rear axle	6,500	7,200	6,500			7,200		8,600	9,000
Total perm. weight 40 km/h	9,500	10,300	9,500			10,300		11,000	11,850
Total perm. weight 50 km/h	8,500	9,000	8,500			9,000		10,000	11,000

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

Normal wheel (ex works)	Track widths (mm)							
	1,700 f 1,600/1,700 r		1,700 f 1,600/1,700 r		1,600/1,800 f 1,800 r		1,900 f 1,906 r	
14,9R24 16,9R38								
480/70R24 520/70R38								
16,9R24 18,4R38								
540/65R24 600/65R38								
420/70R28 18,4R38								
16,9R28 20,8R38								
480/70R28 580/70R38								
480/70R30 20,8R38							1,900 f 1,900 r	
480/70R30 580/70R38							1,880 f 1,865 r	

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Tyres, wheels, track widths									
Normal wheel (ex works)	Track widths (mm)								
480/70R34 580/70R42									1,900 f 1,900 r
540/65 R 28 650/65 R 38						1,900 f 1,850 r	1,900 f 1,854 r		
540/65 R 30 650/65 R 38									1,880 f 1,865 r
540/65 R 34 650/65 R 42									1,880 f 1,865 r
600/70 R 30 620/70 R 42									1,850 f 1,865 r
600/70 R 30 650/65 R 42									1,880 f 1,865 r
600/70 R 30 710/75 R 34									1,950 f 1,980 r
600/70 R 30 710/70 R 38									1,950 f 1,980 r
Permissible tyre combinations with plate wheels*									
230/95 R 32 230/95 R 48	X	X	X	X	X	X	X	-	-
270/95 R 32 270/95 R 48	X	X	X	X	X	-	-	-	-
230/95 R 36 270/95 R 48	X	X	X	X	X	X	X	X	-
270/95 R 32 300/95 R 46	X	X	X	X	X	X	X	X	-
270/95 R 38 300/90 R 50	-	-	-	-	-	-	-	-	X
270/95 R 42 270/95 R 54	-	-	-	-	-	-	-	-	X
Flange dimensions									
Flange dimension at front	mm	1,710							1,898
Wheel connection, front	mm	275 x 8 x 20							335 x 10 x 22
Flange dimension at rear	mm	1,640						1,890	
Wheel connection, rear	mm	275 x 8 x 22							
Transmission i (front/rear)		1.3625	1.3255	1.3625	1.3625	1.3255	1.3171	1.2558	
Lead calculation in %: $((\text{Front rolling circumference} \div \text{rear rolling circumference} \times i) - 1) \times 100\%$ lead as %. The lead should be at least +0.5% with a maximum + 4.5%.									

* Available standard tire combinations are given on the current valid price lists.

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