

TECHNICAL DATA

AGROTRON M

600 • 610 • 620 • 640 • 650

Type designation		600	610	620	640	650
Engine						
Liquid-cooled DEUTZ diesel engine	Typ	TCD 2012 L06 2V			TCD 2012 L06 4V	
Cylinders / cubic capacity	No. / cm ³	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 (2000/25 EC)*	kW/hp	89/121	97/132	114/155	125/171	133/181
Homologated power (2000/25 EC)*	kW/hp	97/132	105/143	120/164	129/176	135/184
Max. power with DPC	kW/hp	97/132	105/143	122/166	133/181	141/192
Rated engine speed	rpm	2,100				
Maximum torque	Nm	527	574	655	717	749
Constant torque range	rpm	1,600 - 1,100	1,600 - 1,200	1,700 - 1,400	1,700 - 1,000	1,700 - 1,100
Power at maximum torque	kW/hp	88/120	96/131	110/149	120/163	126/171
Constant power range	rpm	1,700 - 2,100				1,750 - 2,100
Air intake		on the A-strut, left hand top				under the hood
Tank capacity	l	270			305	
Engine oil fill data/changing intervals**		14/500 h or annually			16/500 h or annually	
Cab						
Cab		Integrated, sound-proofed safety cab				
Noise level	dB (A)	73 - 74				
Air conditioning		standard				
PowerComS armrest		with ProfiLine version				
Cab suspension mechanical or pneumatic		upon request				
Electrical system						
Voltage	V	12				
Three-phase alternator	W/A	14/150			14/200	
Three-phase alternator	V/kW	12/4				
Battery	V/A	12/180				
Chassis, brakes, steering						
Front axle drive system		Central drive				
Front axle suspension	50 km/h	standard				
Front axle suspension	40 km/h	upon 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
Steering angle/turning radius	m	52°/4.95		52°/5.13		52°/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		1½" PTO 6-spline shaft or 1½" 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)				

* without cooling fan

** 250 h with bio-diesel

TECHNICAL DATA

AGROTRON M

600 • 610 • 620 • 640 • 650

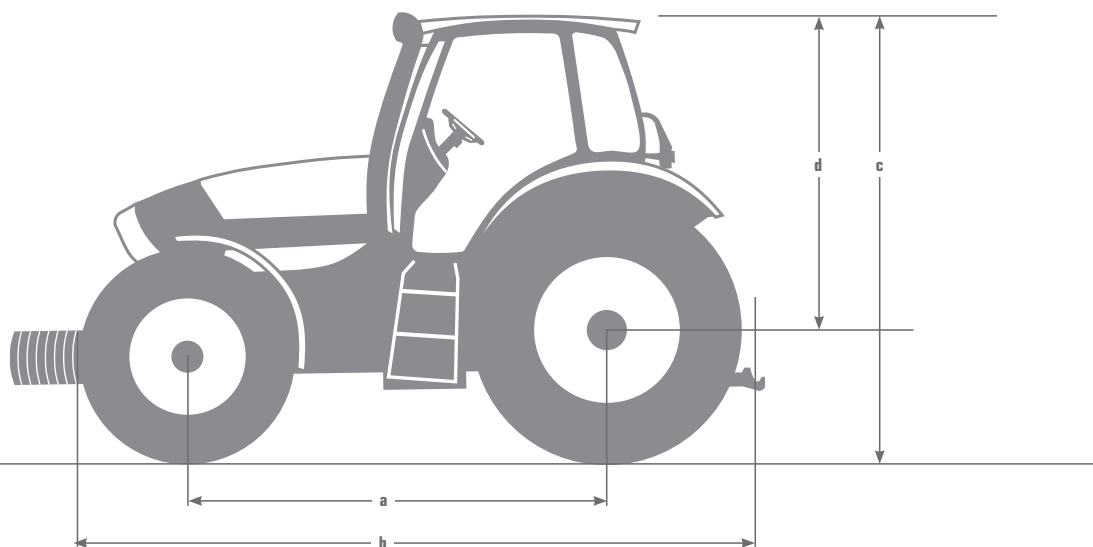
Type designation	600	610	620	640	650			
Transmission								
Type	7.200; 6-speed range transmission; synchronized							
Powershift	4-speed powershift							
Automatic Powershift	with ProfiLine version							
Powershuttle reversing transmission	standard							
Max. speed	40/50 km/h	Adjustment with engine speed controller max. Speed 40/50 km/h						
No. of gears (with creeper gear)	FR	24/24 (40/40)						
Vibration absorbers	Hydrodamp torsion damper							
Clutch	Multi-plate clutch, oil-immersed							
Disk diameter	Quantity	200/8			200/9			
*Speeds AT 600, 610								
	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 AT 620								
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 AT 640								
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 AT 650								
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.								
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							
Parallel operation	standard							
Functions	Double-acting with floating position, can be coupled under pressure							
Actuation	cross lever, 2 single lever / 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							

TECHNICAL DATA

AGROTRON M

600 • 610 • 620 • 640 • 650

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



Type designation	600	610	620	640	650
Dimensions in mm					
a Wheel base		2,647		2,767	2,817
b Length with lower link		4,587		4,757	4,807
c Height above cab		2,922		2,997	3,127
d Axle centre up to top edge of cab		2,102		2,102	2,202
Width across tyres (max.)		2,540			2,720
Turning radius with track 1.900		4,950		5,125	5,800
Ground clearance		520		570	605
Tyres Agrotion 600/610: 18,4 R 38; 620/640: 20,8 R 38; 650: 650/65 R 42.					

Weights in kg					
Unladen weight front/rear	1,880/3,580		2,010/3,700	2,010/3,960	2,700/4,050
Total unladen weight	5,460		5,610	5,970	6,750
Payload front/rear	2,320/2,920		2,690/3,500	2,690/4,640	2,500/4,950
Payload front/rear combined	3,040		3,390	4,030	4,250
Total perm. weight front axle	4,200		4,700		5,200
Total perm. weight rear axle	6,500		7,200	8,600	9,000
Total perm. weight	8,500		9,000	10,000	11,000

Tyres, wheels, track widths					
Normal wheel (ex works)	Track widths (mm)				
14.9 R 24	1,700 f				
16.9 R 38	1,600/1,700 r				
480/70 R 24	1,800 f				
520/70 R 38	1,800 r				
16.9 R 24	1,800 f				
18.4 R 38	1,800 r				
540/65 R 24	1,900 f				
600/65 R 38	1,850 r				
420/70 R 28		1,600/1,800 f			
18.4 R 38		1,800 r			
16.9 R 28		1,900 f	1,900 f		
20.8 R 38		1,900 r	1,906 r		
480/70 R 28		1,900 f	1,900 f		
580/70 R 38		1,900 r	1,906 r		
480/70 R 30					1,900 f
20.8 R 38					1,900 r
480/70 R 30					1,880 f
580/70 R 38					1,865 r

TECHNICAL DATA

AGROTRON M

600 • 610 • 620 • 640 • 650

Type designation	600	610	620	640	650	
Tyres, wheels, track widths						
Normal wheel (ex works)	Track widths (mm)					
480/70 R 34 580/70 R 42					1,880 f 1,865 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*	Track widths (mm)					
230/95 R 32 230/95 R 48	1,600/1,800 f 1,500/1,800 r		1,600/1,800 f 1,500/1,800 r			
270/95 R 32 270/95 R 48	1,500/1,900 f 1,500/1,800 r					
230/95 R 36 270/95 R 48	1,600/1,800 f 1,500/1,800 r					
270/95 R 32 300/95 R 46	1,500/1,900 f 1,50/1,800 r					
230/95 R 36 270/95 R 48			1,900 f 1,800/2,000 r			
270/95 R 32 300/95 R 46			1,900 f 1,800/2,000 r			
270/95 R 38 300/90 R 50					2,000 2,000	
270/95 R 42 270/95 R 54					2,000 2,000	
Erreichbare Spurweiten mit Verstellrädern	1,450-2,050 f 1,400-2,000 r		1,450-2,050 f 1,400-2,000 r	1,450-2,050 f 1,550-2,250 r		
Flange dimensions						
Flange dimension at front	mm	1,710	1,710	1,710	1,710	1,788
Wheel connection, front	mm	275x8x20	275x8x20	275x8x20	275x8x20	335x10x22
Flange dimension at rear	mm	1,640	1,640	1,640	1,890	1,890
Wheel connection, rear	mm	275x8x22	275x8x22	275x8x22	275x8x22	275x8x22
Transmission i (front/rear)		1.3625	1.3625	1.3255	1.3171	1.2558
Lead calculation in %: [(Front rolling circumference ÷ rear rolling circumference x i)-1] x 100% lead as %. The lead should be at least +0.5% with a maximum + 4.5%.						

* Available standard tyre combinations are given on the current valid price lists.
Operation with twin tyres is possible at the front and rear; observe the Motor Vehicle Construction and Use Regulations.

This printed material is designed for international use. The illustrations it contains show both special equipment and incomplete standard equipment. The availability of some illustrated models, standard and special equipment can vary from country to country. Only the dealer's price list stipulates whether such illustrated equipment is included as a standard feature or whether it is a special accessory. In addition the illustrated mounted implements and special accessories may not always comply with the respective statutory regulations. It is the responsibility of the customer – after consultation with the dealer – to verify this, taking the operating instructions into account. All information and illustrations in this brochure are subject to correction; errors excepted. Furthermore all information contained in this brochure is not binding and is subject to modifications of a technical and commercial nature or those resulting from statutory regulations. No claims whatsoever can be derived from these. SAME DEUTZ-FAHR DEUTSCHLAND GmbH reserves the right to make any changes to the design and technical construction and also the scope of standard equipment at any time and without prior notice. Order no.: 568-10-01

 **SAME DEUTZ-FAHR**

