

# TECHNICAL DATA

# AGROTRON K

## 410 • 420 • 610 • 430

Type designation		410	420	610	430
<b>Engine</b>					
Liquid-cooled DEUTZ diesel engine	Typ	TCD 2012 L04		TCD 2012 L06	TCD 2012 L04
Rated Power (2000/25 EC)	kW/hp	65/89	73/100	82/112	
Homologated power (2000/25 EC)*	kW/hp	73/100	82/112	87/119	93/127
Max. power (with DPC)	kW/hp	73/100	82/112	89/121	95/130**
Rated engine speed	rpm	2,300			
Cylinders/cubic capacity	No./cm <sup>3</sup>	4/4,038		6/6,057	4/4,038
Bore/Stroke	mm	101/126			
Maximum torque	Nm	382	413	436	492
Constant torque range	rpm	1,600-1,200	1,600-1,250	1,800-1,200	1,600-1,400
Torque rise	%	36	30	30	37
Motor oil changing intervals***		500 h or annually			
Oil quantity/tank capacity	l	10/180		14/180	10/180
<b>Cab</b>					
Air conditioning		upon request (ProfiLine: standard)			
Automatic air condition ProfiLine		upon request			
<b>Electrical system</b>					
Voltage	V	12			
Three-phase generator	kW/A	12/95			
Battery	V/Ah	12/170			
High current socket		3-pin, 25 A			
<b>Chassis, brakes, steering</b>					
Front differential lock		45% standard, 100% upon request, 100% multi-plate lock upon request			
ASM with deluxe setting		upon request (standard on front axle with suspension)			
Rear differential lock		electro-hydraulic activation			
Service brake front		Automatic activation of front-wheel drive			
Service brake rear		disc brake system, oil-immersed on the rear axle			
Parking brake		acts on disk brake			
Steering system		hydrostatic with synchronous steering cylinder			
Steering angle/turning radius		52°/4.65 m		52°/4.95 m	52°/4.65 m
Steering		Separate gear pump			
Pump flow rate/pressure	l/min (bar)	up to 26 (180)			

\* without fan

\*\* with PTO boost

\*\*\* 250 h with bio-diesel

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<b>Hydraulic system</b>												
Version A	Open Center, joint gearbox/hydraulic oil system, 60l/min, 26l removable, 3 mechanical control units, cross control levers and single levers, electric switching to 4th function optional											
Version B	Open Center, separate hydraulic oil system, 75l/min, 35l removable, 3 mechanical control units, cross control levers and single levers											
ProfiLine	LoadSensing, separate hydraulic oil system, 83l/min, 35l removable, 4 electric control units, time and volume control, controlled using PowerCom S and electric cross levers											
System pressure	bar	200										
<b>Powerlift</b>												
AGROTRONIC-hD	Standard											
Category of 3-point hitch, rear	II/III; Quick-action coupling											
Lifting capacity, rear	kg	6,220										
Front powerlift, cat. II	upon request											
Front powerlift lifting force	kg	2,500										
<b>Hydraulic remote valves</b>												
No. of remote valves, connections	3, mechanical (ProfiLine: 4, electrical)											
Non-pressurised recirculation	Standard											
Functions	Double-acting with floating position, can be coupled under pressure											
Blocking	In neutral position, lifting and float position											
Actuation	1+2 with cross-lever, 3 with individual lever (ProfiLine: 1+2 on PowerComS, 3+4 with Joystick)											
<b>Transmission</b>												
Type	ZF 7100, 8-speed range transmission, electro-hydraulic group shifting											
Powershift	3-range powershift (ProfiLine with APS)											
Powershuttle	Standard											
No. of speeds (with creeper speed)	F/R	24/8 (36/12)										
Clutch	Multi-plate clutch, oil-immersed/comfort clutch											
<b>Front PTO</b>												
Clutch/actuation	Multi-plate clutch, oil-immersed/electrohydraulic											
Speed	rpm	1,000										
PTO profile	1 3/8", 6 spline shaft											
Max. transferable power	max. engine power											
Direction of rotation	Clockwise in direction of travel											
<b>Rear PTO</b>												
Clutch/actuation	Oil immersed, modulated start-up/electro-hydraulic shifting/Remote control											
PTO stub	replaceable/bolted											
Profiles	1 3/8" 6 spline or 1 3/8" 21-section											
Engine speed 540/1,000	rpm	1,990/1,990										
Engine speed 540E/1,000E	rpm	1,550/1,550										
<b>Speeds*</b>												
	<b>Creeper speed</b>				<b>Field</b>				<b>Road</b>			
	L	M	H	R	L	M	H	R	L	M	H	R
1	0.32	0.39	0.46	0.32	1.62	1.95	2.33	1.62	7.68	9.32	11.05	7.68
2	0.52	0.63	0.75	0.52	2.62	3.15	3.77	2.62	12.41	14.90	17.84	12.41
3	0.86	1.04	1.24	0.86	4.34	5.21	6.24	4.34	20.56	24.69	29.56	20.56
4	1.43	1.72	2.06	1.43	7.22	8.67	10.38	7.22	34.17	41.03	50.00	34.17

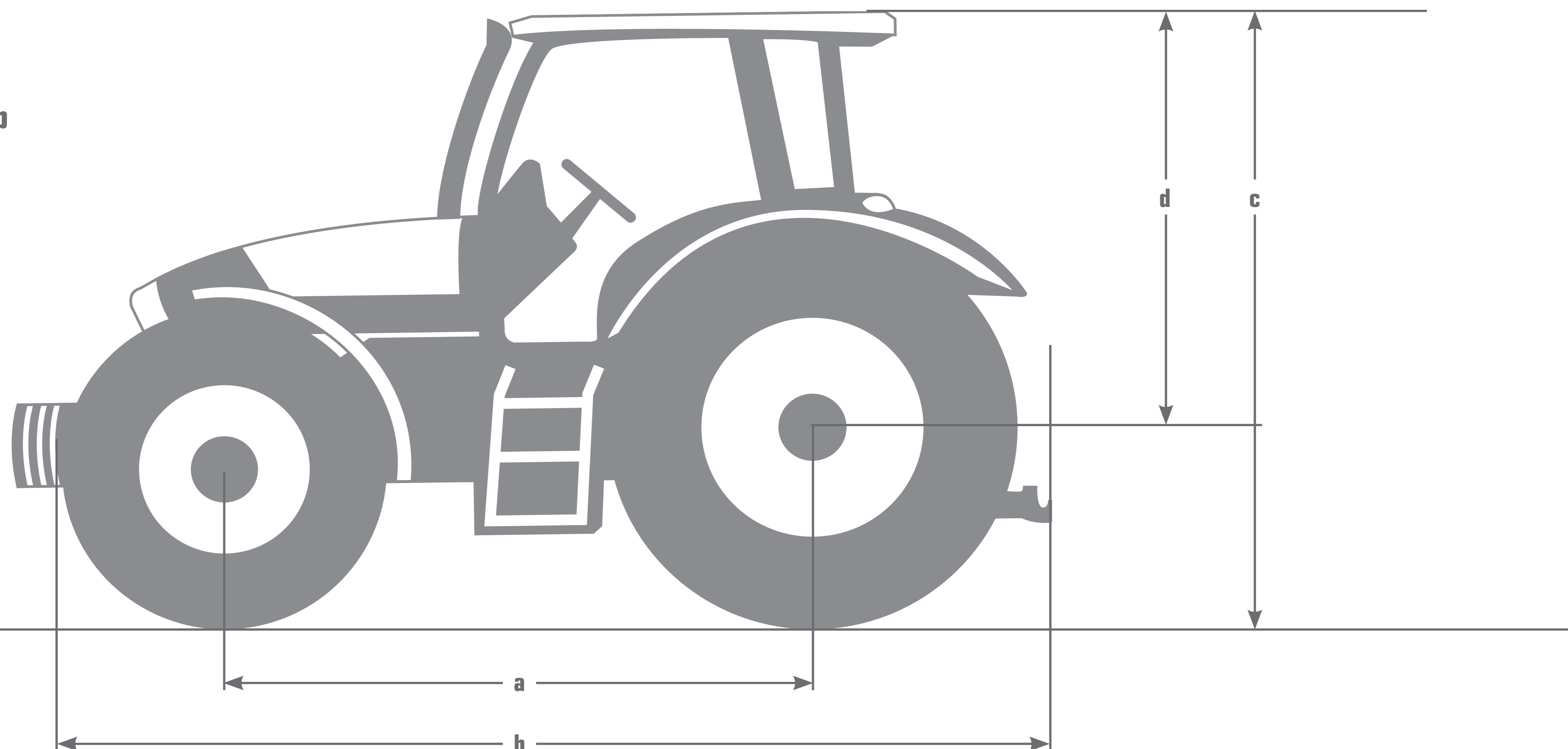
\*All data apply for 16.9.R34 tyres and rated speed of 2,300 rpm.

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



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<b>Dimensions in mm*</b>				
a	2,419		2,647	2,419
b	4,139		4,370	4,139
c	2,630		2,660	2,630
d	1,913		1,943	1,913
<b>Weights in kg (40 km/h)</b>				
<b>Unladen weight</b>				
front	1,650		1,750	1,650
rear	2,790		3,100	2,790
total	4,440		4,850	4,440
<b>Permissible laden weight</b>				
front**	3,500		3,800	
rear	6,000		6,300	
total	7,500		8,000	
<b>Payload</b>				
front	1,850		2,050	2,150
rear	3,210		3,200	3,510
total	3,060		3,150	3,560
<b>Flange dimensions</b>				
Flange dimension at front	mm	1,660		
Wheel connection, front	mm	275 x 8 x 20		
Flange dimension at rear	mm	1,640		
Wheel connection, rear	mm	205 x 8 x 20		

Front axle lead calculation in % :  $[(\text{Front rolling circumference} \div \text{rear rolling circumference} \times i) - 1] \times 100\% = \text{front axle lead \%}$ . The minimum front axle lead should be +0.5% and maximum +4.5%.

Ratio (i): AT K 410/420:  $i=1.316$ ; AT K 610/430:  $i=1.3572$

\* with tyres 16.9 R 34

\*\* In front loader mode up to 5km/h max. 9,625kg for all models.

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<b>Tyres, wheels, track widths</b>				
14.9 R 24	1,590/1,690 f			
16.9 R 34	1,600/1,700 r			
480/65 R 24	1,890 f			
540/65 R 34	1,850 r			
380/70 R 28		1,590/1,690 f		
480/70 R 38		1,700 r		
420/70 R 24	1,590/1,690 f			
480/70 R 34	1,700 r			
540/65 R 24	1,790 f			
540/65 R 38	1,800 r			
16.9 R 24	1,590/1,690 f			
16.9 R 38	1,600/1,700 r			
360/70 R 28			1,590/1,690 f	
16.9 R 38			1,600/1,700 r	
420/70 R 24			1,790 f	
520/70 R 34			1,800 r	
480/65 R 24			1,890 f	
600/65 R 34			1,840 r	
540/65 R 24			1,790 f	
600/65 R 38*			1,840 r	
16.9 R 24			1,590/1,690 f	
18.4 R 38*			1,700 r	
480/70 R 24			1,790 f	
520/70 R 38*			1,800 r	
230/95 R 32	1,540/1,740 f			
270/95 R 44*	1,500/1,800 r			
270/95 R 32	1,440/1,840 f			
270/95 R 46	1,500/1,800 r			
230/95 R 32	1,490/1,790 f			
230/95 R 44	1,500/1,800 r			
230/95 R 32			1,540/1,740 f	
230/95 R 48			1,500/1,800 r	
270/95 R 32**			1,440/1,840 f	
300/95 R 46**			1,500/1,800 r	
270/95 R 32			1,440/1,840 f	
270/95 R 48			1,500/1,800 r	

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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.

\* AT K 610/430: Combination only permitted in connection with cabin suspension.

\*\* Only permitted Kleber Super 3.

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