

TECHNICAL DATA

AGROTRON K

410 • 420 • 610 • 430

Type designation		410	420	610	430
Engine					
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 ³	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
Cab					
Air conditioning		upon request (ProfiLine: standard)			
Automatic air condition ProfiLine		upon request			
Electrical system					
Voltage	V	12			
Three-phase generator	kW/A	12/95			
Battery	V/Ah	12/170			
High current socket		3-pin, 25 A			
Chassis, brakes, steering					
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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Hydraulic system												
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										
Powerlift												
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										
Hydraulic remote valves												
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)											
Transmission												
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											
Front PTO												
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											
Rear PTO												
Clutch/actuation	Oil immersed, modulated start-up/electro-hydraulic shifting/Remote controll											
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										
Speeds*												
	Creeper speed				Field				Road			
	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

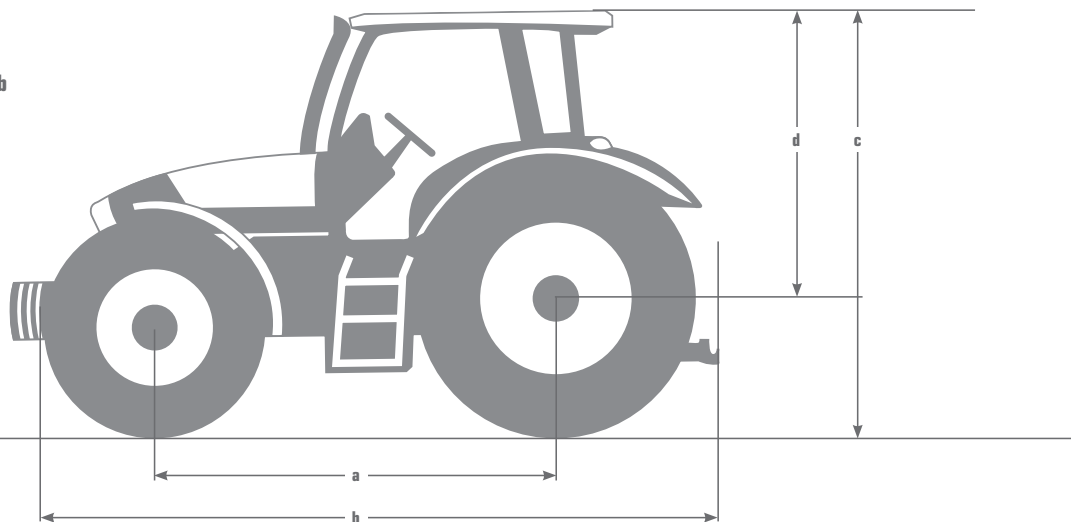
*All data apply for 16.9.R34 tyres and rated speed of 2,300 rpm.

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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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Dimensions in mm*				
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
Weights in kg (40 km/h)				
Unladen weight				
front		1,650	1,750	1,650
rear		2,790	3,100	2,790
total		4,440	4,850	4,440
Permissible laden weight				
front**		3,500	3,800	
rear		6,000	6,300	
total		7,500	8,000	
Payload				
front		1,850	2,050	2,150
rear		3,210	3,200	3,510
total		3,060	3,150	3,560
Flange dimensions				
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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Tyres, wheels, track widths				
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	

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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