

AGROTRON K 90 • 100 • 110 • 120

Engine		K 90	K100	K110	K120
Manufacturer / type		Deutz / BF4M 2012 C	Deutz / BF4M 2012 C	Deutz / BF6M 2012 C	Deutz / BF4M 2012 C
Cylinders / displacement	no. / in. ³ (L)	4 / 246 (4L)		6 / 369 (6L)	4 / 246 (4L)
Bore / stroke	in. (mm)	4 / 5			
Crankcase capacity	U.S. gal. (L)	2.6 (10)		3.7 (14)	2.6 (10)
Cooling system		Liquid			
Rated power (ECE R24)	hp (kW)	84 / 62	95 / 70	104 / 76	115 / 85
Max. power (2000/25/EC)*	hp (kW)	99 / 73	112 / 82	118 / 87	126 / 93
Rated engine speed / max. power	rpm	2300 / 1990			
Torque rise	%	35	30	30	40
Starting torque	%	134	126	129	124
Maximum torque	ft.-lb. (Nm)	274 (372)	292 (396)	308 (418)	329 (447)
Constant torque range	rpm	1600–1200	1600–1250	1800–1200	1600–1400
Power at maximum torque	hp (kW)	83 (61)	90 (66)	95 (70)	102 (75)
Constant power range	rpm	1800–2300			
Engine oil change intervals		500 hours or annually			
Fuel tank capacity	U.S. gal. (L)	47.6 (180)		47.8 (180)	47.6 (180)
POWER TRAIN					
Transmission					
Type / synchronization		ZF 7100, 8-speed range transmission			
PowerShift		3-speed powershift (APS standard on Profile)			
PowerShuttle (reverser)		Standard			
No. of gears (with creeper speed)	F / R	24F / 8R (standard); with creeper 36F / 12R (optional)			
Clutch		Multi-plate clutch, wet / comfort clutch			
Rear PTO					
Clutch / actuation		Oil immersed, modulated startup / electrohydraulic shifting			
PTO stub		Replaceable / bolted			
Profiles		1 $\frac{1}{8}$ " 6-spline or 1 $\frac{3}{8}$ " 21-section			
Engine speed 540 / 1000	rpm	1990 / 1990			
Engine speed 540E / 1000E	rpm	1550 / 1550			
Front PTO					
Clutch / actuation		Multi-plate clutch, wet / electrohydraulic			
Speed	rpm	1000			
PTO profile		1 $\frac{3}{8}$ " 6-spline shaft			
Direction of rotation		Clockwise			

*All data applies to 16.9.R34 tires and rated speed of 2300 rpm.

SPECIFICATIONS

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HYDRAULICS				
System specs				
System / oil reservoir	Open center / common with transmission; Profiline (standard): load-sensing / separate			
Pump flow rate gpm / psi (L/min. / bar)	13.8 / 2,900 (53 / 200); Profiline : 22 / 2,900 (83 / 200)			
Oil reservoir capacity U.S. gal. (L)	6.9 (26); Profiline : 9.2 (35)			
3-point hitch				
Agrotronic-hD	Standard			
Rear 3-point hitch	Cat. 2 / 3; quick-connect			
Rear lift capacity lbs. (kg)	13,700 (6220)			
Front 3-point hitch	Optional			
Front lift capacity lbs. (kg)	5,500 (2500)			
Rear hydraulic outlets				
Number / type	2 / electrohydraulic; Profiline 4 / electrohydraulic			
Parallel operation	Standard			
Functions	Double-acting with floating position, can be coupled under pressure			
Detent positions	Neutral, raise and float			
Actuation	1 & 2 with crosslever; 3 with individual lever; Profiline 1 & 2 on PowerComS, 3 & 4 with joystick			
Front hydraulic outlets (optional)				
Detent positions	2			
Electrical system				
Battery	170 aH			
Alternator	12V / 95A			
Rear power outlet	3-pin, 25-amps			
Steering, brakes and chassis				
Steering system	Hydrostatic with separate gear pump			
Pump flow rate / pressure gpm / psi (L/min. / bar)	6.9 / 2,610 (26 / 180)			
Steering angle / turning radius ft. (m)	52° / 15.25 (4.65)	52° / 16.2 (4.95)	52° / 15.25 (4.65)	
Brake—front	Automatic activation of front-wheel drive			
Brake—rear	Wet disc brake system			
Parking brake	Actuates the disc brake on the rear axle			
Front differential lock	45% standard; Profiline : 100%			
ASM locking value 100%	Optional			
Rear differential lock	Electrohydraulic activation			

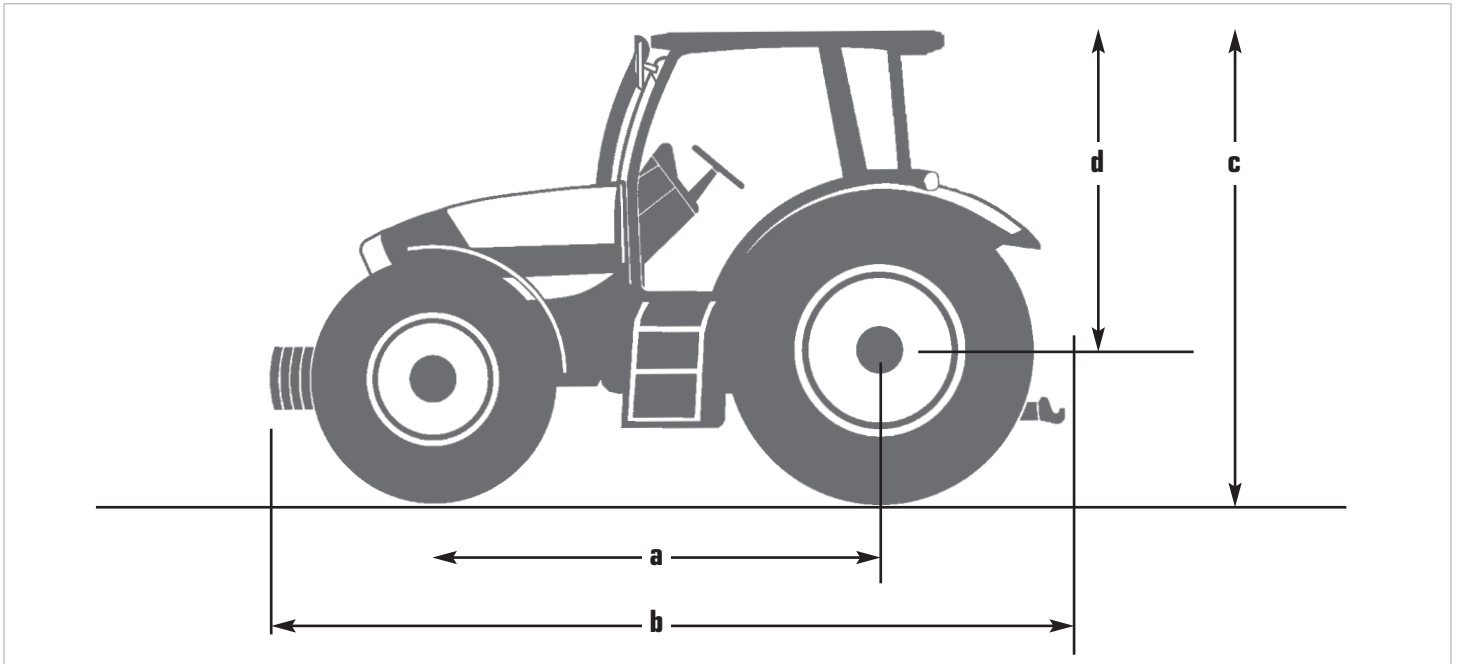
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Track widths and tires		K 90	K 100	K 110	K 120
14.9 R24 16.9 R34	in. (mm) in. (mm)	62.6 / 66.5 (1590 / 1690) v 63 / 67 (1600 / 1700) h			
480 / 65 R24 540 / 65 R34	in. (mm) in. (mm)	63 (1890) v 72.8 (1850) h			
380 / 70 R28 480 / 70 R38	in. (mm) in. (mm)	62.6 / 66.5 (1590 / 1690) v 67 (1700) v			
420 / 70 R24 480 / 70 R34	in. (mm) in. (mm)	62.6 / 66.5 (1590 / 1690) v 67 (1700) h			
540 / 65 R24 540 / 65 R38	in. (mm) in. (mm)	70.5 (1790) v 70.9 (1800) h			
16.9 R24 16.9 R38	in. (mm) in. (mm)	62.6 / 66.5 (1590 / 1690) v 63 / 67 (1600 / 1700) h			
360 / 70 R28 16.9 R38	in. (mm) in. (mm)			62.6 / 66.5 (1590 / 1690) v 63 / 67 (1600 / 1700) h	
420 / 70 R24 520 / 70 R34	in. (mm) in. (mm)			70.5 (1790) v 70.9 (1800) h	
480 / 65 R24 600 / 65 R34	in. (mm) in. (mm)			63 (1890) v 72.4 (1840) h	
540 / 65 R24 600 / 65 R38*	in. (mm) in. (mm)			70.5 (1790) v 72.4 (1840) h	
16.9 R24 18.4 R38*	in. (mm) in. (mm)			62.6 / 66.5 (1590 / 1690) v 67 (1700) h	
480 / 70 R24 520 / 70 R38*	in. (mm) in. (mm)			70.5 (1790) v 70.9 (1800) h	
230 / 95 R32 270 / 95 R44	in. (mm) in. (mm)	60.6 / 68.5 (1540 / 1740) v 59 / 70.9 (1500 / 1800) h			
270 / 95 R32 270 / 95 R46	in. (mm) in. (mm)	56.7 / 72.4 (1440 / 1840) v 59 / 70.9 (1500 / 1800) h			
230 / 95 R32 230 / 95 R44	in. (mm) in. (mm)	58.7 / 70.5 (1490 / 1790) v 59 / 70.9 (1500 / 1800) h			
230 / 95 R32 230 / 95 R48	in. (mm) in. (mm)			60.6 / 68.5 (1540 / 1740) v 59 / 70.9 (1500 / 1800) h	
270 / 95 R32** 300 / 95 R46**	in. (mm) in. (mm)			56.7 / 72.4 (1440 / 1840) v 59 / 70.9 (1500 / 1800) h	
270 / 95 R32 270 / 95 R48*	in. (mm) in. (mm)			56.7 / 72.4 (1440 / 1840) v 59 / 70.9 (1500 / 1800) h	
Operator's station					
Air conditioning		upon request (Profiline : standard)			
Automatic air condition Profiline		upon request			

V = Adjustable multi-positioned wheels
H = Non-adjustable welded center

Available standard tire combinations are given on the current valid price lists. Tractors can be equipped with dual wheels front and rear. Please observe motor vehicle construction and use regulations. *For AT K 120: combination permissible only with cabin suspension. **only Kleber Super 3.

SPECIFICATIONS



		K 90	K 100	K 110	K 120
a. Wheel base	in. (mm)	95 (2419)	104.2 (2647)	95.2 (2419)	103.5 (2630)
b. Length	in. (mm)	163 (4139)	172 (4370)	163 (4139)	163 (4139)
c. Height above cab (min.)	in. (mm)	104 (2630)	104.7 (2660)	103.5 (2630)	103.5 (2630)
d. Axle center up to cab edge	in. (mm)	75.3 (1913)	76.5 (1943)	75.3 (1913)	75.3 (1913)
Weight					
Total base weight	lbs. (kg)	9,768 (4440)	10,670 (4850)	9,768 (4440)	9,768 (4440)
Max. gross weight	lbs. (kg)	16,535 (7500)	17,600 (8000)		

Negative castor calculation in % : $[(\text{Front rolling circumference} \div \text{rear rolling circumference} \times i) - 1] \times 100\% = \text{negative castor \%}$. The minimum negative castor should be +0.5% and maximum +4.5%. Ratio (i): AT K 90 -100: i=1,316; 110 / 120: i=1.3572.

* with 16.9 R 34 tire