

AXION

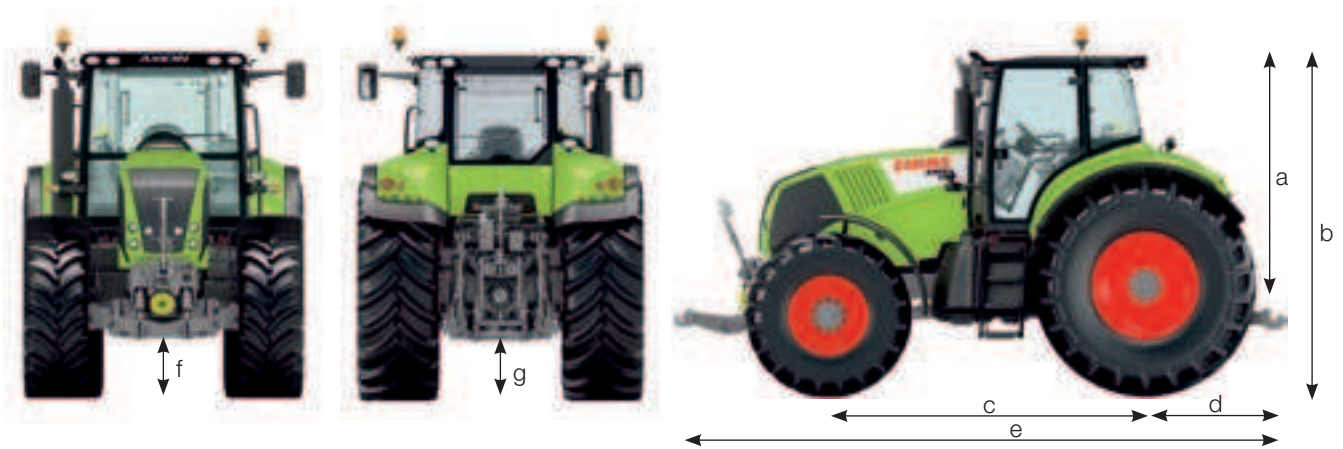
		850	840	820	810
Hydraulics					
Load-sensing circuit		●	●	●	●
Output at rated speed standard (option)	l/min	110 (150)	110 (150)	110 (150)	110 (150)
Max. operating pressure	bar	200	200	200	200
Number of auxiliary spool valves (min.–max.)		3–8	3–8	3–8	3–8
Number of mechanical spool valves (min.–max.)		3–4	3–4	3–4	3–4
Quantity control		●	●	●	●
ELECTROPILOT 4-way control		○	○	○	○
Rear linkage					
Max. lifting power at ball ends	kg	10229	9676	9460	9460
Continuous lifting power at 610 mm	kg	6,251	6,251	6,251	6,251
Lifting range	mm	850	850	850	850
Vibration damping		●	●	●	●
Active slip control		○	○	○	○
25-ampere socket		●	●	●	●
Front linkage					
Lift capacity	t	3.3/5.4	3.3/5.4	3.3/5.4	3.3/5.4
Front PTO rpm		○	○	○	○
External operation		○	○	○	○
Hydraulic connections		max. 5	max. 5	max. 5	max. 5
Trailer plug		●	●	●	●
Cab					
CEBIS with electronic spool valves		●	●	●	●
CIS with mechanical spool valves		●	●	●	●
4-point suspension		●	●	●	●
Multifunction armrest		●	●	●	●
Air conditioning		●	●	●	●
Automatic climate control		○	○	○	○
Passenger seat		●	●	●	●
Cooler compartment		●	●	●	●
Dimensions					
Rear wheels		620/70 R 42	620/70 R 42	20.8 R 38	20.8 R 38
Front wheels		480/70 R 30	480/70 R 30	16.9 R 28	16.9 R 28
Length with front ballast and trailer hitch (e)	mm	5721	5721	5721	5721
Centre rear axle – cab upper edge (a)	mm	2,278	2,278	2,278	2,278
Overall height (b)	mm	3203	3203	3153	3153
Wheelbase (c)	mm	2985	2985	2985	2985
Clearance, rear axle – lower link (d)	mm	1,353	1,353	1,353	1,353
Weight					
(standard tyres, with oil and fuel, without driver)					
Rear wheels		580/70 R 42	20.8 R 42	20.8 R 38	20.8 R 38
Front wheels		480/70 R 30	16.9 R 30	16.9 R 28	16.9 R 28
Weight without ballast	kg	8098	7416	7238	7148
Max. front ballast without front lift linkage	kg	1,454	1,454	1,454	1,454
Weight distribution with ballast (rear/front)	%	50/50	49/51	49/51	48/52
Max. permissible gross weight (40-km/h version)	kg	14,000	12,000	12,000	12,000
Max. permissible gross weight (50-km/h version)	kg	12,000	12,000	12,000	12,000
Ground clearance					
Front axle (f)	mm	587	587	568	568
Rear axle (g) (without drawbar)	mm	564	564	515	515

● Standard ○ Optional – Not available

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Tyres (standard axle or sprung front axle)					
Rear tyres	Front tyres				
20.8 R 38 (520/85 R 38)	16.9 R 28 (420/85 R 28)	–	–	□	□
	480/70 R 28	–	–	□	□
20.8 R 42 (520/85 R 42)	16.9 R 30 (420/85 R 30)	–	□	□	□
	480/70 R 30	–	□	□	□
580/70 R 38	16.9 R 28 (420/85 R 28)	–	–	□	□
	480/70 R 28	–	–	□	□
	540/65 R 28	–	–	□	□
580/70 R 42	16.9 R 30	–	□	□	□
	480/70 R 30	□	□	□	□
	540/65 R 30	–	□	□	□
620/70 R 42	16.9 R 30 (420/85 R 30)	–	□	□	□
	480/70 R 30	□	□	□	□
	540/65 R 30	□	□	□	□
	600/65 R 28	□	□	□	□
650/65 R 38	480/70 R 28	–	–	□	□
	540/65 R 28	–	–	□	□
650/65 R 42	480/70 R 30	□	□	□	□
	540/65 R 30	□	□	□	□
	600/65 R 28	□	□	□	□
650/75 R 38	480/70 R 30	□	□	□	□
	540/65 R 30	–	□	□	□
	600/65 R 28	□	□	□	□
710/70 R 38	480/70 R 30	□	□	□	□
	600/65 R 28	□	□	□	□
710/60 R 38	600/60 R 28	–	–	–	□
710/60 R 42	600/60 R 30	–	–	□	□
650/85 R 38	480/70 R 34	□	□	–	–
	540/65 R 34	□	□	–	–
	600/70 R 28	□	□	–	–
	600/70 R 30	□	□	–	–
	620/70 R 28	□	□	–	–
710/70 R 42	480/70 R 34	□	□	–	–
	540/65 R 34	□	□	–	–
	600/70 R 28	□	□	–	–
	600/70 R 30	□	□	–	–

● Standard ○ Optional □ Available – Not available



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Specifications

AXION

		850	840	820	810
Engine					
Manufacturer		DPS	DPS	DPS	DPS
Number of cylinders / intake		6/TI	6/TI	6/TI	6/TI
Cubic capacity	cm ³	6788	6788	6788	6788
Nominal engine speed	rpm	2200	2200	2200	2200
Output at nominal engine speed (ISO TR 14396 ¹)	kW/hp	171/233	156/212	139/189	125/170
Max. output (ISO TR 14396 ¹)	kW/hp	175/238	157/213	145/197	132/180
Max. output with CPM (ISO TR 14396 ¹)	kW/hp	197/268	181/246	170/232	157/214
Output at nominal engine speed (ECE R 24)	kW/hp	165/225	151/205	135/183	120/164
Max. output (ECE R 24)	kW/hp	169/230	154/210	142/193	129/176
Max. output with CPM (ECE R 24)	kW/hp	193/260	177/240	166/227	153/209
Output at nominal engine speed : (97/68 EC2)	kW	187	180 ³	165	150
Max. output at engine speed	rpm	2000	2000	2000	2000
Constant output	rpm	600	600	600	600
Engine speed at max. torque	rpm	1500	1500	1500	1500
Max. torque	Nm	1,020	950	895	792
Electronically controlled injection pump		●	●	●	●
Air filter dust aspiration		●	●	●	●
Fuel tank capacity (HEXASHIFT/CMATIC)	l	503	503/377	407/377	407/377
Oil-change interval	h	500	500	500	500
HEXASHIFT transmission					
Ratios F/R		24/24	24/24	24/24	24/24
Ground speed (min./max.) 40-km/h version	km/h	1.58/40	1.69/40	1.72/40	1.72/40
Ground speed (min./max.) 50-km/h version	km/h	1.58/50	1.69/50	1.72/50	1.72/50
REVERSHIFT clutchless reverser		●	●	●	●
Number of powershift steps		6	6	6	6
Electrically controlled ranges		4	4	4	4
HEXACTIV		●	●	●	●
Creep range	km/h	0.39	0.42	0.43	0.43
CMATIC transmission					
CMATIC infinitely variable transmission		–	○	○	○
Ground speed (min./max.) 40-km/h version	km/h	–	0.05/40	0.05/40	0.05/40
Ground speed (min./max.) 50-km/h version	km/h	–	0.05/50	0.05/50	0.05/50
REVERSHIFT clutchless reverser		–	●	●	●
Rear axle					
Electrohydraulically connected differential locks		●	●	●	●
Automatic differential locks		●	●	●	●
Max. rear tyres		710/70 R 42	710/70 R 42	710/70 R 38	710/70 R 38
Power take-off					
Wet multidisc clutch		●	●	●	●
Remote control engagement and emergency stop		●	●	●	●
540/1000		●	●	●	●
540/540E/1000 or 540E/1000/1000E		○	○	○	○
Changeable PTO shaft stub		●	●	●	●
Number of splines		6/21	6/21	6/21	6/21
4-wheel drive front axle					
Electrohydraulic operation		●	●	●	●
Automatic 4-wheel drive		●	●	●	●
Max. steering angle	Degrees	55	55	55	55
Castor angle	Degrees	5	5	5	5
Angle of oscillation	Degrees	10	10	10	10
Turning radius	m	5.19	5.19	5.15	5.15
Track	mm	1,996	1,996	1,968	1,668
with tyres		480/70 R 30	480/70 R 30	16.9 R 28	16.9 R 28
Wet multidisc clutch		●	●	●	●
PROACTIV suspended front axle		○	○	○	○
Pivoting mudguards		●	●	●	●

● Standard ○ Optional – Not available

¹ Compliant with ECE R 120 (approx.) ² Performance data fit criteria for admissibility. Performance as per 97/68/EC is identical to 2000/25/EC.

³ 175 kW with HEXASHIFT transmission