

ARION

		ARION 510	ARION 520	ARION 530	ARION 540	ARION 610	ARION 620	ARION 630	ARION 640
MOTOR									
Manufacturer	DPS	DPS	DPS	DPS	DPS	DPS	DPS	DPS	DPS
Number of cylinders/intake		4/TI	4/TI	4/TI	4/TI	6/TI	6/TI	6/TI	6/TI
Cubic capacity	cm ³	4,525	4,525	4,525	4,525	6,788	6,788	6,788	6,788
Nominal engine speed	rpm	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200
Output at nominal engine speed (ISO TR 14396)	kW/hp	81/110	88/120	96/130	99/135	88/120	99/135	107/145	114/155
Max. output (ISO TR 14396)	kW/hp	86/117	93/127	98/133	103/140	96/130	103/140	114/155	118/160
Max. output with CPM (ISO TR 14396)	kW/hp	–	–	–	118/160	–	–	–	132/180
Output at nominal engine speed (ECE R 24)	kW/hp	77/105	85/115	92/125	96/130	85/115	96/130	103/140	110/150
Max. output (ECE R 24)	kW/hp	82/112	90/122	94/128	99/135	92/125	99/135	110/150	114/155
Max. output with CPM (ECE R 24)	kW/hp	–	–	–	114/155	–	–	–	129/175
Max. output at engine speed	rpm	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Constant output	rpm	400	500	500	550	400	400	550	500
Engine speed at max. torque	rpm	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650
Max. torque (ISO TR 14396)	Nm	477	526	541	585	534	580	633	657
Max. torque with CPM (ISO TR14396)	Nm	–	–	–	619	–	–	–	718
Max. torque (ECE R 24)	Nm	470	520	530	577	527	571	630	656
Max. torque with CPM (ECE R 24)	Nm	–	–	–	610	–	–	–	710
Electronically controlled injection pump		•	•	•	•	•	•	•	•
Air filter dust aspiration		•	•	•	•	•	•	•	•
Max. fuel capacity	l	250	250	250	250	330	330	330	330
Oil change interval	h	500	500	500	500	500	500	500	500

TRANSMISSION

Version V/R		24/24	24/24	24/24	24/24	24/24	24/24	24/24	24/24
Min. speed	km/h	1.6	1.6	1.6	1.6	1.6	1.7	1.5	1.6
Max. speed	km/h	40	40/50	40/50	40/50	40/50	40/50	40/50	40/50
REVERSHIFT clutchless reverser		•	•	•	•	•	•	•	•
Number of Powershift Speeds		6	6	6	6	6	6	6	6
Electrically controlled ranges		4	4	4	4	4	4	4	4
HEXACTIV		○	○	○	○	○	○	○	○
Creep range	km/h	0.41	0.41	0.41	0.41	0.41	0.42	0.38	0.41
Extra-slow	km/h	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.11
Oil change interval	h	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000

REAR AXLE

Electrohydraulically connected differential locks		•	•	•	•	•	•	•	•
Automatic differential locks		•	•	•	•	•	•	•	•
Max. rear tyres		600/65 R38	650/65 R38	650/65 R38	650/65 R38				

PTO

Wet multi-disc clutch		•	•	•	•	•	•	•	•
Remote control switch-on and emergency stop		•	•	•	•	•	•	•	•
540/1,000		•	•	•	•	•	•	•	•
540/540(E)/1,000/1,000(E)		○	○	○	○	○	○	○	○
PTO shaft*		○	○	○	○	○	○	○	○
Replaceable PTO shaft end		•	•	•	•	•	•	•	•
Shaft splines		6/21	6/21	6/21	6/21	6/21	6/21	6/21	6/21

* Standard in UK

4-WD FRONT AXLE

Electrohydraulic operation		•	•	•	•	•	•	•	•
Automatic 4-WD		•	•	•	•	•	•	•	•
Max. steering angle	°	55	55	55	55	55	55	55	55
Castor angle	°	6	6	6	6	6	6	6	6
Angle of oscillation	°	10	10	10	10	10	10	10	10
Steering radius	m	4.4	4.5	4.5	4.5	4.8	4.9	4.9	4.9
Track	mm	1,950	1,950	1,950	1,950	1,950	2,050	2,050	2,050
with tyres		13.6 R 28	14.9 R 28	14.9 R 28	14.9 R 28	14.9 R 28	16.9 R 28	16.9 R 28	16.9 R 28
Wet multi-disc clutch		•	•	•	•	•	•	•	•
PROACTIV sprung front axle		○	○	○	○	○	○	○	○
Fixed fenders		○	○	○	○	○	○	○	○
Pivoting fenders		○	○	○	○	○	○	○	○

HYDRAULICS

Open hydraulic circuit		•	•	•	•	–	–	–	–
Output at rated speed	l/min.	60	60	60	60	–	–	–	–
Max. operating pressure	bar	200	200	200	200	–	–	–	–
Load sensing circuit		○	○	○	○	•	•	•	•
Output at rated speed	l/min.	110	110	110	110	110	110	110	110
Max. operating pressure	bar	200	200	200	200	200	200	200	200
Number of control valves (min./max.)		2/6	2/6	2/6	2/6	2/6	2/6	2/6	2/6
Quantity control		•	•	•	•	•	•	•	•
ELECTROPILOT 4-way control		○	○	○	○	○	○	○	○

REAR LINKAGE (measured values)

Max. lifting power	kg	6,500	6,500	6,500	6,500	6,500	6,500	6,900	8,000
Continuous lifting power at 610 mm	kg	4,100	4,100	4,100	4,100	4,100	4,100	4,200	5,100
Lifting range	mm	745	745	745	745	745	745	748	812
Vibration dampening		•	•	•	•	•	•	•	•
Active slip control		○	○	○	○	○	○	○	○
Trailer hydraulic brake		○	○	○	○	○	○	○	○
Compressed-air brake system		○	○	○	○	○	○	○	○
Trailer plug		•	•	•	•	•	•	•	•
25 amp socket		○	○	○	○	○	○	○	○

CABIN

4-point suspension		•	•	•	•	•	•	•	•
Air conditioning		•	•	•	•	•	•	•	•
Automatic climate control system		○	○	○	○	○	○	○	○
Multifunction armrest		•	•	•	•	•	•	•	•
CIS with mechanical control valves		•	•	•	•	•	•	•	•
CEBIS with electronic control valves		○	○	○	○	○	○	○	○
Passenger seat		•	•	•	•	•	•	•	•
Cooler compartment		○	○	○	○	○	○	○	○

DIMENSIONS

ARION 510 ARION 520 ARION 530 ARION 540 ARION 610 ARION 620 ARION 630 ARION 640

HEIGHT

Rear wheels		16.9 R 38	18.4 R 38	18.4 R 38	18.4 R 38	18.4 R 38	20.8 R 38	20.8 R 38	20.8 R 38
Front wheels		13.6 R 28	14.9 R 28	14.9 R 28	14.9 R 28	14.9 R 28	16.9 R 28	16.9 R 28	16.9 R 28
Centre rear axle – cab upper edge (a)	mm	2,156	2,156	2,156	2,156	2,180	2,180	2,180	2,180
Overall height (b)	mm	2,956	2,981	2,981	2,981	3,005	3,055	3,055	3,055

LENGTH

Wheel base (c)	mm	2,560	2,560	2,560	2,560	2,820	2,820	2,820	2,820
Clearance, rear axle – lower link (d)	mm	1,198	1,198	1,198	1,198	1,198	1,198	1,198	1,198
Length (e) (with jerrican weights and coupling device)	mm	4,889	4,889	4,889	4,889	5,155	5,155	5,155	5,155

GROUND CLEARANCE

Front axle (f)	mm	491	516	516	516	516	541	541	541
Rear axle (g)	mm	483	508	508	508	508	535	549	549

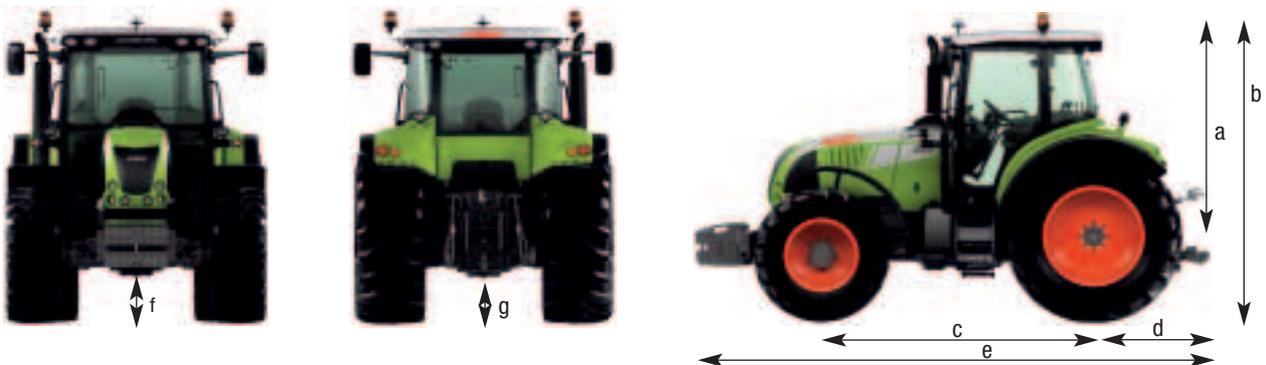
WEIGHTS (standard tyres, with oil and fuel, fixed front axle, with driver)

Rear wheels		16.9 R 38	18.4 R 38	18.4 R 38	18.4 R 38	18.4 R 38	20.8 R 38	20.8 R 38	20.8 R 38
Front wheels		13.6 R 28	14.9 R 28	14.9 R 28	14.9 R 28	14.9 R 28	16.9 R 28	16.9 R 28	16.9 R 28
Weight without ballast	kg	5,380	5,470	5,470	5,470	5,720	5,950	6,220	6,260
PROACTIV weight	kg	+ 179	+ 179	+ 179	+ 179	+ 179	+ 179	+ 227	+ 227
Max. ballast weights ex-works	kg	804	804	804	804	804	954	954	954
Weight distribution with ballast (rear/front)	%	46/54	46/54	46/54	46/54	47/53	46/54	47/53	47/53
Max. permissible gross weight (40 km/h version)	kg	8,800	8,800	8,800	8,800	8,800	10,250	11,000	11,000
Max. permissible gross weight (50 km/h version)	kg	–	8,800	8,800	8,800	8,800	8,800	9,250	9,250

TYRE TABLE

Rear tyres	Front tyres								
16.9 R 38 (420/85 R 38)	13.6 R 28 (340/85 R 28)	•	•	•	•	•	–	–	–
480/70 R 38	380/70 R 28	•	•	•	•	•	–	–	–
540/65 R 38	440/65 R 28	•	•	•	•	•	–	–	–
18.4 R 38 (460/85 R 38)	14.9 R 28 (380/85 R 28)	•	•	•	•	•	•	•	–
600/65 R 38	480/65 R 28	•	•	•	•	•	•	•	–
520/70 R 38	420/70 R 28	•	•	•	•	•	•	•	–
20.8 R38 (520/85 R 38)	16.9 R 28 (380/85 R 28)	–	–	–	–	–	•	•	•
580/70 R 38	480/70 R 28	–	–	–	–	–	•	•	•
650/65 R 38	540/65 R 28	–	–	–	–	–	•	•	•
600/60 R 38*	480/60 R 28*	•	•	•	•	•	–	–	–
650/60 R 38*	520/60 R 28*	•	•	•	•	•	•	•	•

*XEOBIB • Standard ○ Option – not available



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ARION
Specifications