

ARION		660	650	630	610	550	530	510
Engine								
Manufacturer		DPS	DPS	DPS	DPS	DPS	DPS	DPS
Number of cylinders		6	6	6	6	4	4	4
Cubic capacity	cm ³	6788	6788	6788	6788	4525	4525	4525
Variable geometry turbo		●	●	●	●	–	–	–
Staged turbo (two fixed geometry turbochargers, including one with wastegate)		–	–	–	–	●	●	●
Rated output (ECE R 120) ¹	kW/hp	129/175	129/175	114/155	99/135	114/155	99/135	85/115
Max. output (ECE R 120) ¹	kW/hp	136/185	136/185	121/165	107/145	121/165	107/145	92/125
Max. output with CPM (ECE R 120) ¹	kW/hp	151/205	–	–	–	–	–	–
Engine speed at maximum output	rpm	2000	2000	2000	2000	2000	2000	2100
Type approval value for CMATIC models ²	kW	144	128	115	102	117	106	91
Type approval value for HEXASHIFT models ²	kW	–	141	115	102	117	106	91
Max. torque (ECE R 120) ¹	Nm	849	754	703	640	697	619	562
		(with CPM)						
Engine speed at max. torque	rpm	1500	1500	1500	1500	1500	1500	1500
Max. fuel tank capacity	l	370	370	370	370	245	245	245
Oil-change interval	h	500	500	500	500	500	500	500

CMATIC continuously variable transmission

Transmission type		EQ 220	EQ 200	EQ 200	EQ 200	EQ 200	EQ 200	EQ 200
Speeds (min.-max.)	km/h	0.05-50/40	0.05-50/40	0.05-50/40	0.05-50/40	0.05-50/40	0.05-50/40	0.05-50/40
REVERSHIFT clutchless reverser		●	●	●	●	●	●	●

HEXASHIFT powershift transmission

Ratios F/R		–	24 / 24	24 / 24	24 / 24	24 / 24	24 / 24	24 / 24
Min. speed at 2200 rpm	km/h	–	1.58	1.58	1.73	1.58	1.73	1.68
Max. speed	km/h	–	40/50	40/50	40/50	40/50	40/50	40/50
REVERSHIFT clutchless reverser		–	●	●	●	●	●	●
Powershift speeds		–	6	6	6	6	6	6
Electrohydraulically controlled ranges		–	4	4	4	4	4	4
Min. speed with creep gear at 2200 rpm	km/h	–	0.40	0.40	0.43	0.40	0.43	0.42
Min. speed with super-creep gear at 2200 rpm	km/h	–	0.11	0.11	0.12	0.11	0.12	0.12

Rear axle

Flanged axle		●	●	●	●	●	●	●
Quick-release axle		○	○	○	–	○	–	–
Electrohydraulically activated differential locks		●	●	●	●	●	●	●
Automatic differential lock		●	●	●	●	●	●	●
Park-lock		○	○	○	○	○	○	○
Max. rear tyres		710/60 R 42	710/60 R 42	710/60 R 42	710/60 R 38	650/65 R 38	650/65 R 38	650/60 R 38
Max. diameter of rear tyres	m	1.95	1.95	1.95/1.85	1.85	1.85	1.85	1.75
Oil-change interval	h	1500	1500	1500	1500	1500	1500	1500

PTO

Wet multi-disc clutch		●	●	●	●	●	●	●
Remote control of engagement and emergency stop		●	●	●	●	●	●	●
540/1000		●	●	●	●	●	●	●
540/540 ECO and 1000/1000 ECO		○	○	○	○	○	○	○
Changeable PTO stub		●	●	●	●	●	●	●
1 3/8" PTO stub: 6, 8 and 21 splines		□	□	□	□	□	□	□
Automatic PTO engagement/ disengagement		●	●	●	●	●	●	●

Four-wheel drive front axle

Rigid front axle		–	–	●	●	●	●	●
Rigid and braked front axle		●	●	–	–	–	–	–
PROACTIV front axle suspension		–	–	□	□	□	□	□
PROACTIV front axle suspension with braked front axle		□	□	□	□	□	□	□
Automatic 4-wheel drive		●	●	●	●	●	●	●
Optimum turning radius	m	5.5	5.5	5.5	5.5	5.35	4.95	4.95

● standard ○ optional □ available – not available

ARION		660	650	630	610	550	530	510
Hydraulics								
Load-sensing circuit 110 l/min		●	●	●	●	●	●	●
Load-sensing circuit 150 l/min		○	○	○	○	○	○	○
Max. operating pressure	bar	200	200	200	200	200	200	200
Number of mechanical spool valves (CIS)		2-4	2-4	2-4	2-4	2-4	2-4	2-4
Number of electronic spool valves (CEBIS / CIS+)		2-4	2-4	2-4	2-4	2-4	2-4	2-4
Two central electronic spool valves, operated from ELECTROPILOT		□	□	□	□	□	□	□
Flow rate control		●	●	●	●	●	●	●

Rear linkage

Max. lifting capacity at ball ends	kg	8000	8000	8000	7500	8000	7500	7500
Continuous lifting power at ball ends	kg	5100	5100	5100	5100	5100	5100	5100
Vibration damping		●	●	●	●	●	●	●
External controls		●	●	●	●	●	●	●
Active wheel slip control		○	○	○	○	○	○	○
ISOBUS socket		○	○	○	○	○	○	○
25 amp socket		●	●	●	●	●	●	●

Front linkage

Lift capacity	t	3/4	3/4	3/4	3/4	3/4	3/4	3/4
Front PTO 1000 rpm		○	○	○	○	○	○	○
Vibration damping		●	●	●	●	●	●	●
Position control for CEBIS version		○	○	○	○	○	○	○
External operation		○	○	○	○	○	○	○
Additional hydraulic connections		○	○	○	○	○	○	○
External operation of additional connections		○	○	○	○	○	○	○
ISOBUS socket		○	○	○	○	○	○	○
Trailer socket		●	●	●	●	●	●	●
25 amp socket		○	○	○	○	○	○	○

Cab

CIS version		–	●	●	●	●	●	●
CIS+ version		●	○	○	○	○	○	○
CEBIS version		○	○	○	○	○	○	○
4-pillar cab		●	●	●	●	○	○	○
5-pillar cab		○	○	○	○	●	●	●
4-point suspension		●	●	●	●	●	●	●
Air conditioning		●	●	●	●	●	●	●
Automatic climate control		○	○	○	○	○	○	○
Passenger seat with integral cool box		●	●	●	●	●	●	●

¹ Meets ISO TR 14396

² Performance data fit criteria for admissibility

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● standard ○ optional □ available – not available

ARION		660	650	630	610	550	530	510
Dimensions and weights								
Height: centre of rear axle to cab roof (a)	mm	2166	2166	2166	2166	2166	2166	2166
Overall height (b)	mm	3050	3050	3050	3050	3000	3000	3000
Rear tyres		20.8 R 38	20.8 R 38	20.8 R 38	20.8 R 38	20.8 R 38	18.4 R 38	18.4 R 38
Wheelbase (c)	mm	2820	2820	2820	2820	2564	2564	2564
Length (from front weight carrier to rear lower links) (d)	mm	4818	4818	4764	4759	4508	4503	4443
Weight	kg	7860-8335	6980-7830	6740-7600	6530-7470	6410-7260	6000-6940	5950-6890
Max. permissible total weight (40/50 km/h versions)	kg	12500	12500	11000	10250	11000	10250	10250

