

Overall test results

	1st	2nd	3rd	4th	5th
	JCB	Manitou	Merlo	Bobcat	Dieci
Model	541-70 AgriPro	MLT 741-140 V+	TF 42.7 CS 140	TL 38.70 HF Agri	AgriPlus 40.7 VS Evo2
Engine manufacturer	JCB	Deutz	Deutz	Doosan	FPT
Engine capacity (litres)	4.8	3.6	3.6	3.4	4.5
Rated power (hp)	145	136	140	130	138
Transmission	Hybrid	Hydrostatic	Hydrostatic	Hydrostatic	Hydrostatic
Fuel consumption – road route plus muck handling (litres)	15.35	15.80	16.10	16.15	16.50
HYDRAULICS					
Hydraulic flow rate (litres/min) at idle	51.8	46.4	53.7	22.3	66.7
Hydraulic flow rate (litres/min) at 1,500rpm	91.6	99.5	94.5	122.5	103.5
Hydraulic flow rate (litres/min) at max revs	96	105	129.4	141.2	109
Lift capacity – boom in, height 20cm (kg)	4,782	4,874	4,517	4,446	3,946
Lift capacity – boom in, height 120cm (kg)	5,802	5,099	4,487	4,405	5,364
Lift capacity – boom in, height 220cm (kg)	5,099	5,252	4,395	4,426	5,160
Lift capacity – boom in, height 320cm (kg)	5,241	5,404	4,344	4,772	5,578
Lift capacity – boom out, height 20cm (kg)	2,223	2,141	2,243	2,001	1,061
Lift capacity – boom out, height 320cm (kg)	2,549	2,590	2,294	2,111	1,703
CYCLE TIMES AT MAX POWER					
Boom up (secs)	7.0	9.1	6.4	5.3	6.0
Boom down (secs)	7.2	8.9	5.5	5.0	5.1
Crowd (secs)	3.0	4.3	3.4	2.9	3.4
Tip (secs)	3.2	3.7	4.7	3.2	3.0
Boom in (secs)	7.2	8.9	8.0	5.3	5.2
Boom out (secs)	5.5	6.7	4.1	5.5	4.2
Complete cycle (secs)	33.1	41.6	32.1	27.2	26.9
Lift height to headstock pivot, boom in (m)	5.0	4.9	5.2	5.0	4.3
Lift height to headstock pivot, boom out (m)	7.2	7.3	7.4	7.3	6.2
DIMENSIONS, WEIGHTS AND TURNING CIRCLES					
Length (m)	5.17	4.98	4.76	4.96	5.22
Height (m)	2.46	2.38	2.54	2.42	2.40
Width (m)	2.36	2.40	2.27	2.36	2.30
Ground clearance (m)	0.33	0.41	0.46	0.44	0.43
Wheelbase (m)	2.78	2.85	2.79	2.87	2.79
Weight (t)	8.12	7.46	7.88	7.64	8.06
Turning circle (m)	7.53	7.70	7.60	7.60	7.52
CAB					
Height (cm)	145	142	146	152	151
Length (cm)	144	163	150	148	168
Width (cm)	88	82	95	90	91
Platform height (cm)	94	84	106	82	88

* Manufacturer's data

