

IHI

# IHI CRAWLER CRANES LINE-UP



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IHI Construction Machinery Limited

# IHI CCH SERIES

CCH700 70ton



CCH2500 250ton



CCH3000 300ton



CCH1200 120ton



CCH2800 280ton



CCH900EX 90ton

Technical Details	CCH500EX 50ton	CCH700EX 70ton	CCH900EX 90ton	CCH1200EX 120ton	CCH2500EX 250ton
<b>Engine</b>					
Make	Cummins	Cummins	Cummins	Cummins	Cummins
Model	QSB6.7	QSB6.7	QSB6.7	QSB6.7	QSB6.7
Rated output	149kW/2,100min <sup>-1</sup>	149kW/2,100min <sup>-1</sup>	179kW/2,000min <sup>-1</sup>	224kW/2,100min <sup>-1</sup>	242kW/2,000min <sup>-1</sup>
Peak torque	742N·m/1,500min <sup>-1</sup>	742N·m/1,500min <sup>-1</sup>	990N·m/1,500min <sup>-1</sup>	1,356N·m/1,500min <sup>-1</sup>	1,424N·m/1,500min <sup>-1</sup>
<b>Crane Details</b>					
Max. lifting capacity x Working radius	50 metric ton x 3.7m	70 metric ton x 3.8m	90 metric ton x 4.0m	120 metric ton x 5m	250 metric ton x 4.7m
Max. boom length	51m	54m	61m	75m	90m
Max. boom length (Main + Jib)	57m (42m + 15m)	63m (45m + 18m)	68m (46m + 22m)	88m (63m + 25m)	109m (72m + 37m)
<b>Rope Speed</b>					
Main hoisting / lowering	110/80 – 55/40m/min	110/80 – 55/40m/min	100/75 – 50/38m/min	120/60 – 60/30m/min	120/60 – 60/30m/min
Aux. hoisting / lowering	110/80 – 55/40m/min	110/80 – 55/40m/min	100/82 – 50/41m/min	120/60 – 60/30m/min	120/60 – 60/30m/min
Boom hoisting / lowering	60m/min	60m/min	55m/min	70m/min	85 – 40m/min
<b>Part Line</b>					
Hook block capacity x Part line	50 ton x 8 5.8 ton x 1	70 ton x 10 6.5 ton x 1	90 ton x 9 7 ton x 1	120 ton x 10 12 ton x 1	250 ton x 16 13.5 ton x 1
Counter weight (with removal system)	17.7 ton	26.3 ton	24 ton	42.6 ton	88.9 ton
Car body weight	—	—	10.5 ton (crawler weight)	—	29 ton
Total operating weight (with basic boom)	51.4 ton	68.1 ton	84.2 ton	122.5 ton	210 ton
Average ground bearing pressure	0.67kgf/cm <sup>2</sup>	0.69kgf/cm <sup>2</sup>	0.84kgf/cm <sup>2</sup>	0.87kgf/cm <sup>2</sup>	1.07kgf/cm <sup>2</sup>

Technical Details	CCH500 50ton	CCH700 70ton	CCH900 90ton	CCH1200 120ton	CCH1500 150ton	CCH2000 200ton	CCH2500 250ton	CCH2800 280ton	CCH3000 300ton
<b>Engine</b>									
Make	Cummins	Cummins	Cummins	Cummins	Cummins	Cummins	Cummins	Cummins	Cummins
Model	QSB6.7	QSB6.7	QSB6.7	QSL	QSL	QSL	QSL	QSL	QSM11
Rated output	149kW/2,100min <sup>-1</sup>	149kW/2,100min <sup>-1</sup>	179kW/2,000min <sup>-1</sup>	242kW/2,000min <sup>-1</sup>	242kW/2,000min <sup>-1</sup>	242kW/2,000min <sup>-1</sup>	242kW/2,000min <sup>-1</sup>	242kW/2,000min <sup>-1</sup>	280kW/2,100min <sup>-1</sup>
Peak torque	742N·m/1,500min <sup>-1</sup>	742N·m/1,500min <sup>-1</sup>	990N·m/1,500min <sup>-1</sup>	1,424N·m/1,500min <sup>-1</sup>	1,424N·m/1,500min <sup>-1</sup>	1,424N·m/1,500min <sup>-1</sup>	1,424N·m/1,500min <sup>-1</sup>	1,424N·m/1,500min <sup>-1</sup>	1,898N·m/1,400min <sup>-1</sup>
<b>Crane Details</b>									
Max. lifting capacity x Working radius	50 metric ton x 3.7m	70 metric ton x 3.8m	90 metric ton x 4.0m	120 metric ton x 5.0m	150 metric ton x 5.0m	200 metric ton x 5.0m	250 metric ton x 5.0m	280 metric ton x 5.0m	300 metric ton x 5.0m
Max. boom length	51m	54m	61m	75m	84m	90m	90m	90m	90m
Max. boom length (Main + Jib)	57m (42m + 15m)	63m (45m + 18m)	77m (49m + 22m)	88m (63m + 25m)	103m (72m + 31m)	103m (72m + 31m)	109m (72m + 37m)	109m (72m + 37m)	109m (72m + 37m)
Max. tower boom length (Post + Jib)	—	70.2m (42m + 31m)	78m (44.5m + 37m)	92m (51.25m + 44m)	102m (57m + 51m)	105m (60m + 51m)	—	—	—
<b>Rope Speed</b>									
Main hoisting / lowering	100/70 – 50/35m/min	110/80 – 55/40m/min	120m/min	100/50 – 50/25m/min	110/55 – 55/28m/min	110/55 – 55/28m/min	120/60 – 55/28m/min	120/60 – 55/28m/min	120/60 – 55/28m/min
Aux. hoisting / lowering	100/70 – 50/35m/min	110/80 – 55/40m/min	120m/min	100/50 – 50/25m/min	110/55 – 55/28m/min	110/55 – 55/28m/min	120/60 – 55/28m/min	120/60 – 55/28m/min	120/60 – 55/28m/min
Boom hoisting / lowering	60m/min	60m/min	65m/min	60 – 30m/min	32 – 14m/min x 2	32 – 14m/min x 2	32 – 14m/min x 2	32 – 14m/min x 2	32 – 14.5m/min x 2
<b>Part Line</b>									
Hook block capacity x Part line	50 ton x 10 5.8 ton x 1	70 ton x 10 7 ton x 1	90 ton x 8 12 ton x 1	120 ton x 10 12 ton x 1	150 ton x 12 13.5 ton x 1	200 ton x 16 13.5 ton x 1	250 ton x 16 13.5 ton x 1	280 ton x 20 13.5 ton x 1	300 ton x 20 13.5 ton x 1
Counter weight	16 ton	25 ton	30.6 ton	50 ton	64 ton	78 ton	87 ton	87 ton	106.5 ton
Car body weight	—	—	—	—	—	16 ton	16 ton	16 ton	26 ton
Total operating weight (with basic boom)	49.4 ton	64.1 ton	87 ton	121.5 ton	161 ton	193 ton	209.4 ton	210.5 ton	256 ton
Average ground bearing pressure	0.64kgf/cm <sup>2</sup>	0.78kgf/cm <sup>2</sup>	0.89kgf/cm <sup>2</sup>	0.92kgf/cm <sup>2</sup>	0.91kgf/cm <sup>2</sup>	1.05kgf/cm <sup>2</sup>	1.06kgf/cm <sup>2</sup>	1.07kgf/cm <sup>2</sup>	1.19kgf/cm <sup>2</sup>