

Technical description



Drive system

Max. drive power	255 kW (45 °C temperature of cooling water)
Battery type	High Performance Battery System
Technology	Li-Ion NMC (nickel manganese cobalt)
Max. charging power	20 kW @ 30 A 40 kW @ 60 A
Option	80 kW @ 100 A
Mains voltage	400-480 VAC (3 phase + N + PE / 3 phase + PE)



Noise measurement data and vibration

Noise emission	according to 2000/14/EC directive	
Emission sound pressure level L_{PA}	n.a. dB(A)	(in the cabin)
Guaranteed sound power level L_{WA}	n.a. dB(A)	(of the machine)
Vibration transmitted to the machine operator	< 8.20 ft/s ²	(to the hand-arm system)
	< 1.64 ft/s ²	(to the whole body)



Hydraulic system

Hydraulic pumps	double axial displacement pump in open loop hydraulic system allows all functions to be operated simultaneously automatic working pressure cut-off to minimize peak pressure
Hydraulic oil tank capacity	172 gal
Max. working pressure	5,076 PSI
Hydraulic oil	electronic monitoring of all filters use of synthetic environmentally friendly oil possible



Control

Control system	includes all control and monitoring functions, designed to withstand extreme environmental conditions and heavy construction tasks
Display	high resolution monitor in the operator's cabin, clear display of complete machine operating data, warnings and failure indications in the required language
Operation	several movements can be performed simultaneously thanks to electro-hydraulic proportional control, all categories of loads can be positioned with utmost precision



Crawlers

Drive system	with fixed axial piston hydraulic motors
Crawler side frames	maintenance-free, with hydraulic chain tensioning device
Brake	hydraulically released, spring-loaded multi-disc holding brake
Drive speed	0-1.056 mph
Flat track pads	width 3.3 ft



Swing gear

Drive system	with fixed axial piston hydraulic motors, planetary gearbox, pinion
Swing ring	roller bearing with external teeth
Brake	hydraulically released, spring-loaded multi-disc holding brake
Swing speed	0-2.2 rpm continuously variable
Speed control	both swing modes are possible - speed control or free swing for speed control: a multi-disc holding brake locks automatically at zero swing motion.



Hoisting gear

Standard crane winches 1 + 2	Internal low-maintenance planetary gearbox in oil bath, load support by the hydraulic system, spring-loaded, multi-disc holding brake, pressure controlled, variable flow hydraulic motors for the main winches, full utilisation of engine power as the winch speed is automatically adjusted to suit the respective line pull
Line pull in the 7 th layer	26,977 lbf
Rope diameter	26 mm
Drum diameter	1.9 ft
Rope speed	0-446 ft/min
Rope capacity in 7 layers	1604 ft
Option - winch with free fall	free fall: clutch and braking functions are provided by the service brake (low wear and maintenance-free multi-disc brake in compact design)



Boom/jib luffing winches

Main boom	
Line pull	max. 40,466 lbf
Rope diameter	24 mm
Boom luffing	15-86° in 96 s
Jib	
Line pull	max. 23,605 lbf
Rope diameter	20 mm
Jib luffing	15-78° in 46 s

Operating weight

Composition of operating weight	basic machine with crawlers winches 1 + 2, A-frame 56 ft main boom, consisting of boom foot (23 ft) and boom head (33 ft) 115,300 lbs rear counterweight (8×11,000 lbs + 1×26,500 lbs + 660 lbs) 44,100 lbs carbody counterweight (2×22,000 lbs) 352,700 lbs pulley block
Total weight	approx. 331,575 lbs