

Product range

THE NEW STANDARD IN ELECTRIC CRAWLER CRANES



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PV-E CRANE

PV-E CRANE BRINGS A SERIE OF INNOVATIVE ELECTRIC CRAWLER CRANES AND ITS **ADVANTAGES TO YOU**



100% battery powered



Zero NOx and CO2 emission



Quiet operation



Interchangeable battery-box



100% fuel savings



Less maintenance

UNLIMITED BATTERY POWERED



Motor

The electric crawler cranes will have a 250 kW electric motor instead of a diesel engine. This will be used to drive the hydraulic pumps similar as a conventional hydraulic crawler crane. The electric motor will be powered by a 260 kWh lithium-ironphosphate (LiFePO4) battery pack.



Battery pack (interchangeable)

These batteries are the latest development in traction cell technology and have some major advantages; “They are super safe, chemically stable and inert. They have a long life and you can recharge them from any level of charge without shortening their life – they are not subject to ‘memory’ issues.

PV-E will give a 1,000 load cycle, or 3 year, warranty on the batteries. “The batteries are very efficient. Charging at 44 kWh per hour from a typical 63 Amp site supply means less than six hours to fully recharge the 260 kWh battery from empty to full. The charger is carried on board, built into the crane, so just a mains charging cable is needed to connect to the supply.

The batteries are in two packs, each with a capacity of 130 kWh. They can easily be swapped out for spare charged ones to extend running time. In addition, LiFePO4 batteries are 100 % maintenance free and do not need, for example, any topping up with demineralised water like conventional lead acid batteries do. They are 100 % recyclable as they do not contain any toxic acids or heavy metals.

COMPONENT SPECIFICATIONS



Electric Motor

Supplied by first class manufacturer
100% battery powered
Max 250kW
9 phase
2700 Nm peak torque



Hydraulic pump

Series A8VO
400 bar peak pressure
Supplied by Bosch Rexroth
ISO standard



Battery pack

Engineered and manufactured in Holland
2 x 130 kW interchangeable battery
650 volt
Lithium-iron-phosphate (LiFeP04)
Maintenance free and recyclable
Work hours: 8 hours
Fully recharged: 6 hour (63A)



Battery Management system & Electric Control Unit

Engineered and manufactured in Holland
Temperature sensors
Remote diagnostic system

FEATURES EC SERIES



Jack-up cylinder

For safe lifting of the base unit
For easy assembly of the tracks
*not for all models



Self assembly system

For safe and efficient assembly of counterweights and boom foot
*not for all models



Winches

High performance winches
Optional free fall function for special applications



Certifications

CE
TÜV
EMC Compatibility
And other applicable regulations and standards

EC SERIES

Lattice boom

Model	EC80	EC90	EC100	EC135	EC160
Capacity					
Max. lifting capacity (t)	80	90	100	135	160
Winches					
Line pull	7	8	8	12,5	12,5
Drive system	Electric motor (9-phase)	Electric motor (9-phase)	Electric motor (9-phase)	Electric motor (9-phase)	Electric motor (9-phase)
Max. power (kW)	250	250	250	250	250
Battery technology	LFP	LFP	LFP	LFP	LFP
Max. onboard charging power (kW)	44	44	44	44	44
Main boom					
Main boom (m)	13-58	13-58	13-58	18-75	18-75
Fixed Jib					
Fixed Jib (m)	09-18	09-18	09-18	13-31	13-31
Max. combination with mainboom (m)	46+18	49+18	49+18	63+31	63+31
Luffing Jib					
Luffing JIB	-	36	36	49	49
Max. combination with mainboom (m)	-	45,7+36	45,7+36	48,5+49	48,5+49
Self erecting					
Jack-up system	no	yes	yes	yes	yes
Self assembly system cilinders	no	optional	optional	yes	yes
Self assembly system counterweights	no	optional	optional	yes	yes

ECT SERIES

Telescopic boom

Model	ECT70	ECT80	ECT120
Capacity			
Max. lifting capacity (t)	70	80	120
Winches			
Line pull	7,5	7,5	8,3
Drive system	Electric motor (9-phase)	Electric motor (9-phase)	Electric motor (9-phase)
Max. power (kW)	250	250	250
Battery technology	LFP	LFP	LFP
Max. onboard charging power (kW)	44	44	44
Main boom			
Main boom (m)	10,8-38	11,68-44	13,2-50
Fixed Jib			
Fixed Jib (m)	2	0,68	0,6 / 3,2
Max. combination with mainboom (m)	38+2	44+0,68	50+0,6 / 50+3,2
Luffing Jib			
Luffing JIB	8+6	8+6	8,5+6,5+6 / 21
Max. combination with mainboom (m)	38+14	44+14	50+21
Self erecting			
Jack-up system	no	yes	yes
Self assembly system cilinders	no	yes	yes
Self assembly system counterweights	yes	yes	yes

CURIOUS ABOUT THE NEW INNOVATIVE ELECTRIC CRAWLER CRANE?

Don't hesitate and contact us!

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