



S
000

**EMISSION-FREE.
SUSTAINABLE.
COST-EFFECTIVE.**

e-PACK.

Electro-hydraulic system
for zero-emission
crane operation.





Exhaust and noise emissions are playing an increasingly important role in many applications, with large cities and nighttime work leading the charge. It is only natural then for the crane industry to work on offering sustainable solutions to this challenge.

Thanks to their compact dimensions, AC cranes are often used in dense urban areas, at nighttime, and indoors. Or to put it another way, at the very place where customers need to confront these environmental concerns the most. That is where our environmentally friendly solution to these challenges, the innovative e-Pack, comes in.





Ready for work right away – with extraordinary versatility.

The electro-hydraulic e-Pack can be quickly connected to AC cranes and features an integrated electric motor that allows for zero-emission crane operation while significantly reducing noise levels. It is particularly well-suited for use in sensitive areas where stricter emission standards apply so that using a conventional diesel-driven crane is impossible. Not to mention, of course, that many countries and even individual municipalities have been implementing restrictions on the use of machinery that runs on diesel fuel.

As soon as the e-Pack is connected to the crane and a regular 400 V / 63 A CEE industrial socket, zero-emission crane setup can begin. On top of this, all crane functions continue to be highly precise both individually and when working together thanks to the hydraulic system's tried-and-true load sensing control.

AREAS OF APPLICATION:


- Indoors
- Cleanrooms
- Dense urban areas
- Nighttime work
- Sensitive areas, such as in the proximity of hospitals



Crane controls and operation.

The controls for e-Pack operation are seamlessly integrated into the crane's IC-1 control system. As a result, the touchscreen in the cab can be used to select an e-Pack operating mode, start/stop the electric motor, display the e-Pack status, and much more.

The e-Pack not only powers all crane functions, but also the hydraulic air conditioning system, so that operators can enjoy maximum comfort during their work. In addition, the performance differences in comparison to diesel operation when telescoping and luffing the main boom, rotating the superstructure, and operating the hoist are absolutely minimal.

	AC 3.045-1 City		AC 3.055-1		AC 4.080-1	
	Diesel engine	e-PACK 63A	Diesel engine	e-PACK 63A	Diesel engine	e-PACK 63A
 Hoist without load	111 m/min	> 60%	120 m/min	> 40%	115 m/min	> 50%
 Hoist with max. load	Yes	Yes	Yes	Yes	Yes	Yes
 Slewing	1.9 min ⁻¹	> 50%	1.8 min ⁻¹	> 25%	1.6 min ⁻¹	> 30%
 Telescoping	80 s	> 50%	490 s	> 74%	510 s	> 60%
 Luffing up	50 s	> 90%	50 s	> 67%	42 s	> 60%
 Luffing down	50 s	100%	50 s	100%	42 s	100%

* Limited operation with 32A possible

Low operating costs.

In addition to zero-emission, low-noise operation, the e-Pack also comes with significant advantages in terms of cost. For instance, its intelligent electric motor control system ensures that power consumption is limited to the exact amount needed for the crane functions being used. The result? Lower operating costs in comparison to diesel operation, as well as a reduction in the diesel engine's operating hours.

The only thing the e-Pack needs is for the corresponding AC crane to be prepared with the required electrical and hydraulic connections. The hydraulic connection between the e-Pack and the crane is established using hoses with compatible quick couplings.



Available for many crane models.

A particularly cost-effective solution: If you have various Tadano cranes in your fleet, you only need to buy a single e-Pack to run them with zero emissions.

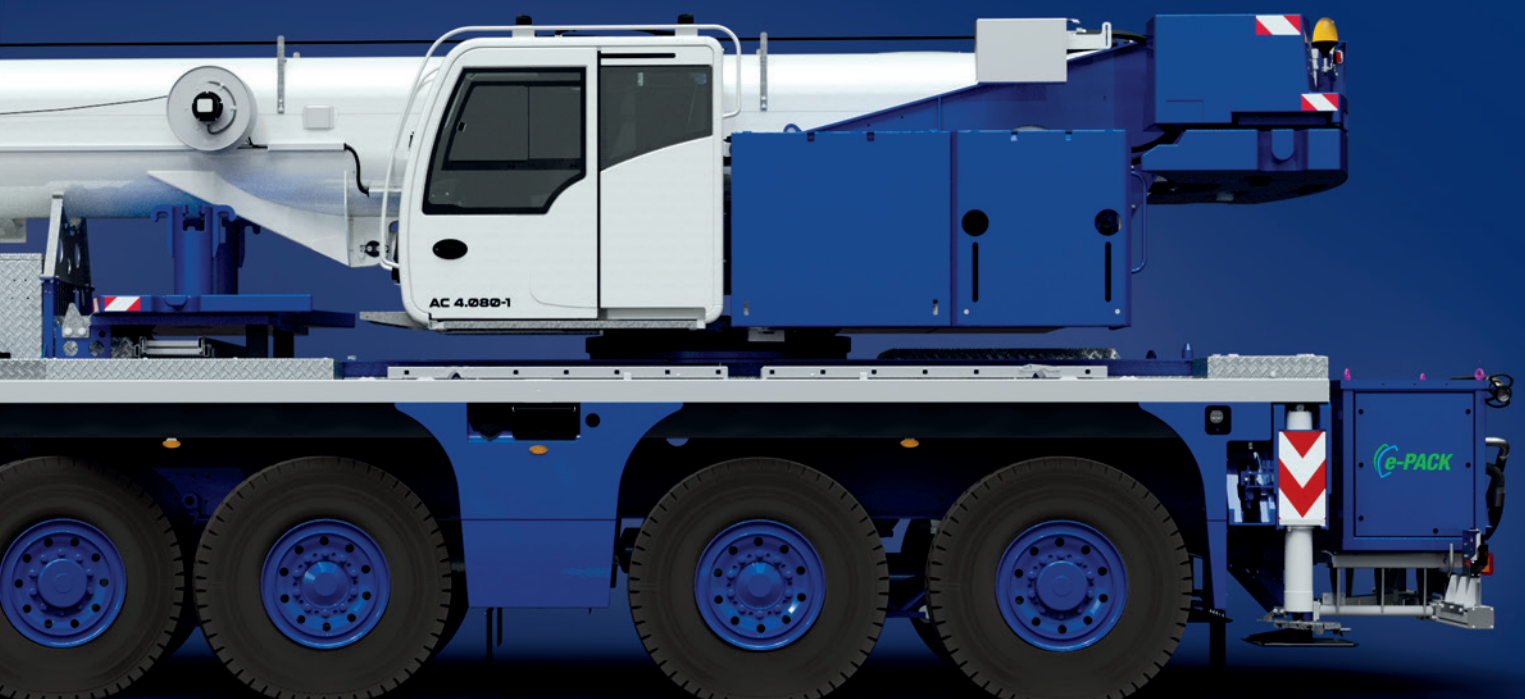
The option of equipping cranes with the required connections at the back of the crane in order to use the e-Pack is available for all new Tadano AC cranes with lifting capacities of up to 80 tonnes – more specifically, for the:

- AC 3.045-1 City
- AC 2.040-1*
- AC 3.060-2*
- AC 4.070-2
- AC 4.080-1

* Coming soon

Easy to transport.

The e-Pack can be transported on a truck or trailer to the work site. In addition, there is also a transport frame available that makes it possible to carry the e-Pack directly at the back of the crane – on the road and at the work site. Not only that, but the e-Pack can remain on the transport frame during operation, saving significant amounts of time and money as a result.



info@tadano.com
www.tadano.com

Tadano Europe Holdings GmbH
Dinglerstraße 24, 66482 Zweibrücken, Germany
Phone: +49 6332 830

Tadano Ltd.
Kanda Square 18th Floor, 2-2-1 Kanda-Nishikicho, Chiyoda-ku, Tokyo 101-0054, Japan
Phone: +81-3-6811-7309 (International Division)



© Tadano Ltd. 2023



Lifting your dreams

