Higher Handling Capacity – Lower Costs

The machine has been designed specifically for handling bulk and general cargo in port handling operations. What sets it apart is its extremely high load capacities combined with a very long reach. The new weight-optimised attachment makes the machine highly effective in operation, guaranteeing maximum performance at minimum cost per tonne of material handled. The modular structure of the basic machine and attachment offers optimal solutions for all operations.

Highest Handling Capacity

Performance
The 6 cylinder Liebherr in-line diesel engine returns together with the ERC system a total system performance of 418 kW, which assures maximum handling output.

Weight-Optimised Attachment
The newly-designed attachment for port application enables an extremely high load capacity. The attachment's weight is optimised thanks to a new design. The ERC, hoist and stick cylinders are adapted to the operating conditions.

Stability
The counterweight in the base unit is tailored to the special operating conditions of a port-based machine. The optimised weight distribution between the uppercarriage, undercarriage and attachment ensures stability with maximum load capacity.

Fuel Efficiency

Engine Idling and Engine Shut Down
The standard automatic idling function reduces the engine speed to idle as soon as the operator takes their hand from the joystick so that no hydraulic function is activated. Proximity sensors in the joystick levers restore the original engine speed as soon as the operator's hand is moved towards the lever again. This ensures that the set engine speed is available immediately. This results in both fuel saving and reduced noise levels. Operating costs can be reduced even further with the optional automatic engine shut down function.

Closed Hydraulic Circuit for the Swing Mechanism
The closed slewing circuit feeds the braking energy back into the system when the uppercarriage is braked. This simple yet effective feature sets new standards in terms of efficiency and economy.

Attachment
- Weight-optimised design for greatest load capacities
- Large working area created by a reach of up to 25 m
- Electro-hydraulic end position control prolongs service life of components
- Quick coupling system guarantees maximum flexibility

Liebherr Double Link Cab
- Always the best view upwards as well as forwards
- Movable forward horizontally up to 4 m
- Safe and convenient access from the ground

Hydraulic System
- Work functions are electrically piloted for optimum controllability
- Load-Sensing-System LUDV enables maximum efficiency
- Huge system performance thanks to the energy recovery system ERC

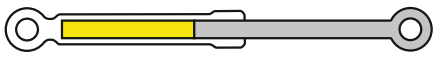
LIEBHERR

Liebherr ERC-System

Efficiency as standard

ERC System –
More Performance, Less Consumption

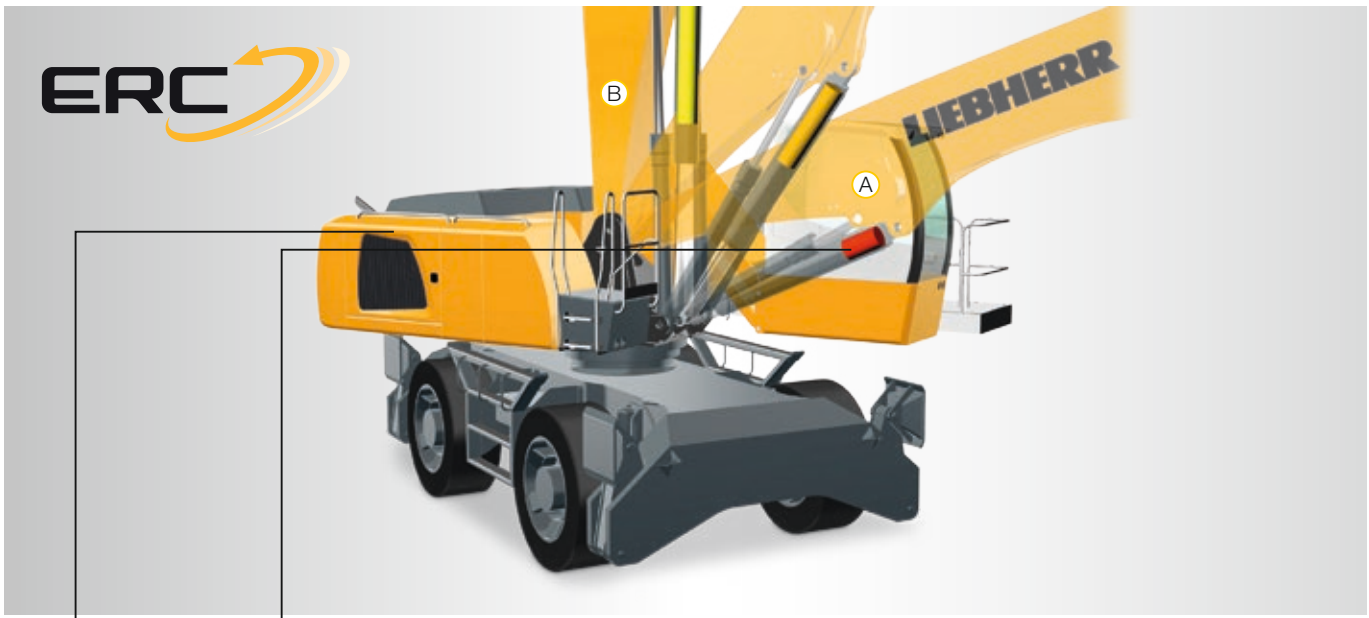
Lowering the equipment stores energy in the ERC system. This stored energy is then made available to the machine to provide additional engine power. When the equipment is raised the stored energy is released and is reflected in powerful, homogeneous operating cycles. The result is a clear saving on fuel – and, at the same time, even greater performance.

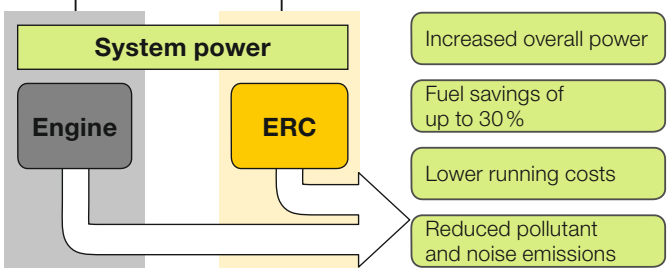


Ⓑ 1. Equipment fitting raised/ Energy released

2. Lower equipment fitting/Store energy
4. Raise equipment fitting/Release energy

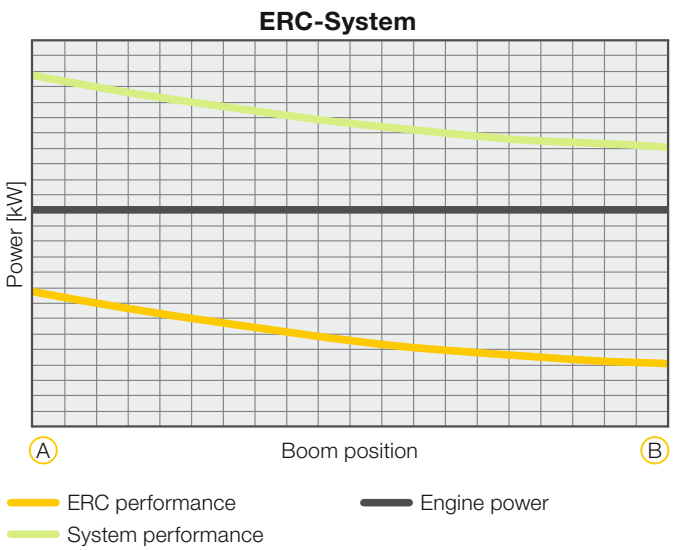
Ⓐ 3. Equipment fitting lowered/ Energy stored





System Power

The energy recovery cylinder is a storage system which is independent of the diesel engine. The system performance of material handling machines fitted with the ERC system is composed of the installed engine power and the energy recovery cylinder. When the equipment is raised, energy from the ERC system is supplied in addition to the power from the diesel engine.



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