The travelling drive technology LI-AS-DRIVE for the Liebherr LTM mobile cranes.
The LI-AS-DRIVE system for the LTM mobile cranes provides more efficiency, pollution control and driving comfort.

The travelling drive technology LI-AS-DRIVE - with Liebherr Diesel engine and automated ZF power shift gear - has been newly developed for the LTM 1100. The electronic components for the Diesel engine, power shift gear, interarder (LTM 1049/1 and LTM 1050/1 and LTM 1090/3) are interconnected by a CAN bus and offer a crane specific driving strategy with an outstanding product advantage.

The LI-AS-DRIVE system is setting standards in respect to quality and reliability:

- Cruise controller, the speed is kept constant by action on the engine and interarder even on gradients
- Sensitive manoeuvring by means of the accelerator pedal
- Driving without clutch pedal
- Single-lever control of all abrasionproof braking functions
- Easy control of the functions by membrane keyboard and multi-functional steering column switch at the right
- Standardized operating and display elements, identical for all LTM mobile cranes

The LI-AS-DRIVE system is superior economy:

- 15 – 20 % reduced fuel consumption compared to traditional power trains with automatic transmission and converter
- Abrasionproof brake management of engine brake, interarder and eddy-current brake (optional)
- Reduced maintenance expenditure

The LI-AS-DRIVE system augments the environmental compatibility:

- Reduced exhaust gas emission (EURO III)
- Reduced noise emission

The LI-AS-DRIVE system offers an outstanding driving convenience:

- Intelligent driving strategy matching the mobile crane
- Sensitive manoeuvering by means of the accelerator pedal
- Driving without clutch pedal
- Single-lever control of all abrasionproof braking functions
- Easy control of the functions by membrane keyboard and multi-functional steering column switch at the right
- Standardized operating and display elements, identical for all LTM mobile cranes

The characteristic feature of the LI-AS-DRIVE system is abrasionproof brake management of engine brake, interarder and eddy-current brake, which are individually controlled. This system offers a major cost advantage at the same time.

The components of the LI-AS-DRIVE such as on the LTM 1100/2.
The modular master computer technology LI-AS-DRIVE for the power train of the mobile crane LTM 1100/2.

1 Input/output module for the Diesel engine, power shift gear, compressed air control for braking function, operating functions
1a Instruments-keyboard
2 Input/output module for multi-axle operation, differential locks, steering from crane cab, display functions
2a Instruments-display unit
3 Input/output module for control of the Diesel engine, engine brake, cruise controller
4 Control injection pump of Liebherr Diesel engine
5 Input/output module for eddy-current brake (optional)
6 Control of ZF power shift gear (integrated gear electronics)
7 Input/output module for intarder
8 Input/output module for anti-lock device (for cranes with 2/3/4 axles)

ZF power shift gear 16 AS 2602 (AS-TRONIC)

= CAN - Bus
= LSB - Liebherr system bus
= SCI - Serial communication interface
Mobile crane LTM 1200/1, max. lifting capacity 200 tons, with LI-AS-DRIVE.

Mobile crane LTM 1055/1, max. lifting capacity 55 tons, with LI-AS-DRIVE.

Mobile crane LTM 1100/2, max. lifting capacity 100 tons, with LI-AS-DRIVE, during erection work at the exhibition tower of the New Munich Fair.
### The mobile crane range.

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<th>Crane Code</th>
<th>t (t)</th>
<th>m</th>
<th>km/h</th>
<th>kW/PS max.</th>
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Subject to technical modification.

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