



The mobile crane range.

 max		tm		km/h
t	m	max.	kW/PS	max.
35	3	105	205 278	80
45	2.5	150	270 367	80
55	2.5	189	270 367	80
60	2.5	183	270 367	80
80	2.5	235	320 435	80
90	3	297	300 408	77
100	2.7	330	400 544	80
150	3	450	400 544	76
160	3	539	400 544	76
200	3	640	400 544	80
250	3	750	440 598	76
300	3	900	440 598	76
500	3	1610	440 598	77
800	3	4356	420 570	73
550	4.5	5256	420 570	73

Subject to technical modification.

P 318, 3.01

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The new travelling drive technology LI-AS-DRIVE for the Liebherr LTM mobile cranes.



LIEBHERR

The better crane.

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

The new travelling drive technology LI-AS-DRIVE – with Liebherr Diesel engine and automated ZF power shift gear – has been newly developed for the LTM 1100/2. The electronic components for the Diesel engine, power shift gear, intarder (LTM 1100/2 and LTM 1200/1), eddy-current brake and anti-lock device (only LTM 1045/1 and LTM 1055/1) are interconnected by a CAN bus and offer a crane specific driving strategy with an outstanding product advantage.

- The characteristic feature of 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, intarder 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

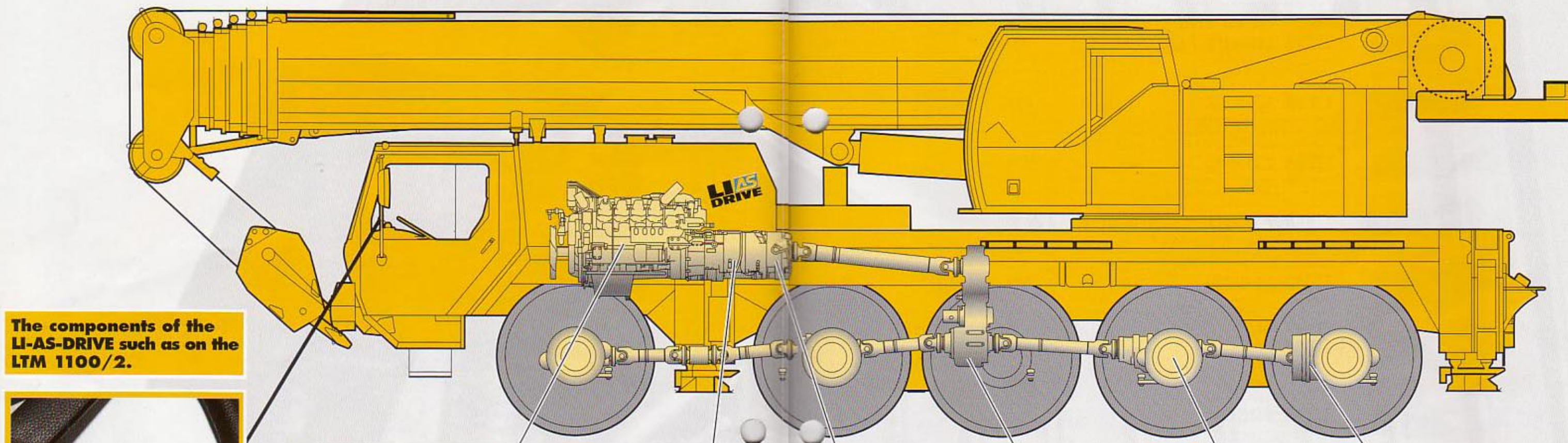
The LI-AS-DRIVE system is setting standards in respect to quality and reliability:

- Field-proven, industrial scale-manufactured automated gear
- Fully automatic control - operating errors are impossible
- Clutch overload protection

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

- Intelligent driving strategy matching the mobile crane

- Cruise controller, the speed is kept constant by action on the engine and intarder 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 components of the LI-AS-DRIVE such as on the LTM 1100/2.



- Standardized operating and display units.**
- Central operating unit with membrane keyboard
 - Central display unit
 - Right steering column switch, e.g. for cruise controller and eddy-current brake (optional)

- Liebherr V8 turbo-charged Diesel engine type 9408 TI-E of 400 kW output at 2000 min⁻¹**
- Exhaust gas emission in accordance with EURO III
 - Electronic engine management
 - Continuous ventilator control
 - Integrated Liebherr engine brake system (exhaust valve brake)
 - Engine monitoring system
 - Diagnostic

- Automated ZF power shift gear type AS 2602 (AS-TRONIC)**
- 16-speed power shift gear
 - Electronic-pneumatic controlled 2-disk dry clutch
 - LI-AS-DRIVE driving strategy
 - Optional automatic or manual gear selection even during the drive
 - Gear and clutch monitoring functions
 - Diagnostic

- High-performance ZF transfer case type VG 3800**
- Specially developed single-stage gear for the LI-AS-DRIVE, with longitudinal differential for the distribution of the driving power to axle 1 and 2 (optional) and to axle 4 and 5

- Integrated retarder system "Intarder"**
- Abrasionproof, continuously controlled hydraulic brake, integrated into the LI-AS-DRIVE strategy
 - Brakematic
 - With overheating protection

- TELMA-type eddy-current brake Focal (optional)**
- Abrasionproof, four-stage controllable sustained-action brake
 - Fitted to the 5th axle
 - Controlled by means of the right-hand steering column switch

- Kessler special mobile crane axles type 71**
- Extremely robust planetary axles specially adapted to the LI-AS-DRIVE

The new travelling drive technology LI-AS-DRIVE offers a crane specific driving strategy.

Mobile crane LTM 1200/1, max. lifting capacity 200 tons, with LI-AS-DRIVE.

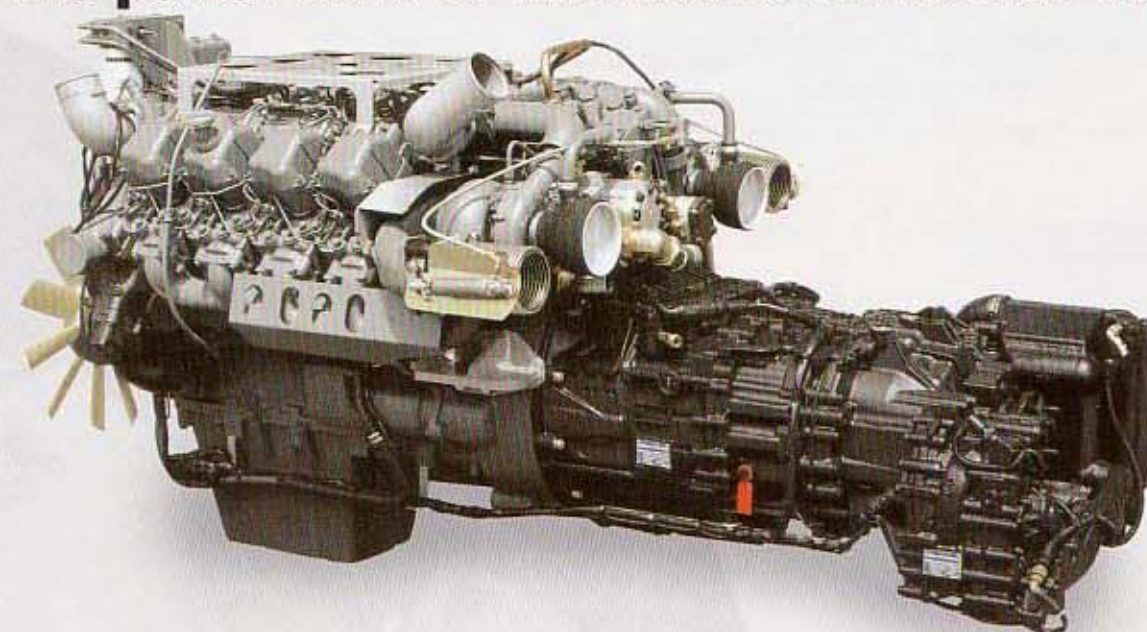


Mobile crane LTM 1055/1, max. lifting capacity 55 tons, with LI-AS-DRIVE.

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.



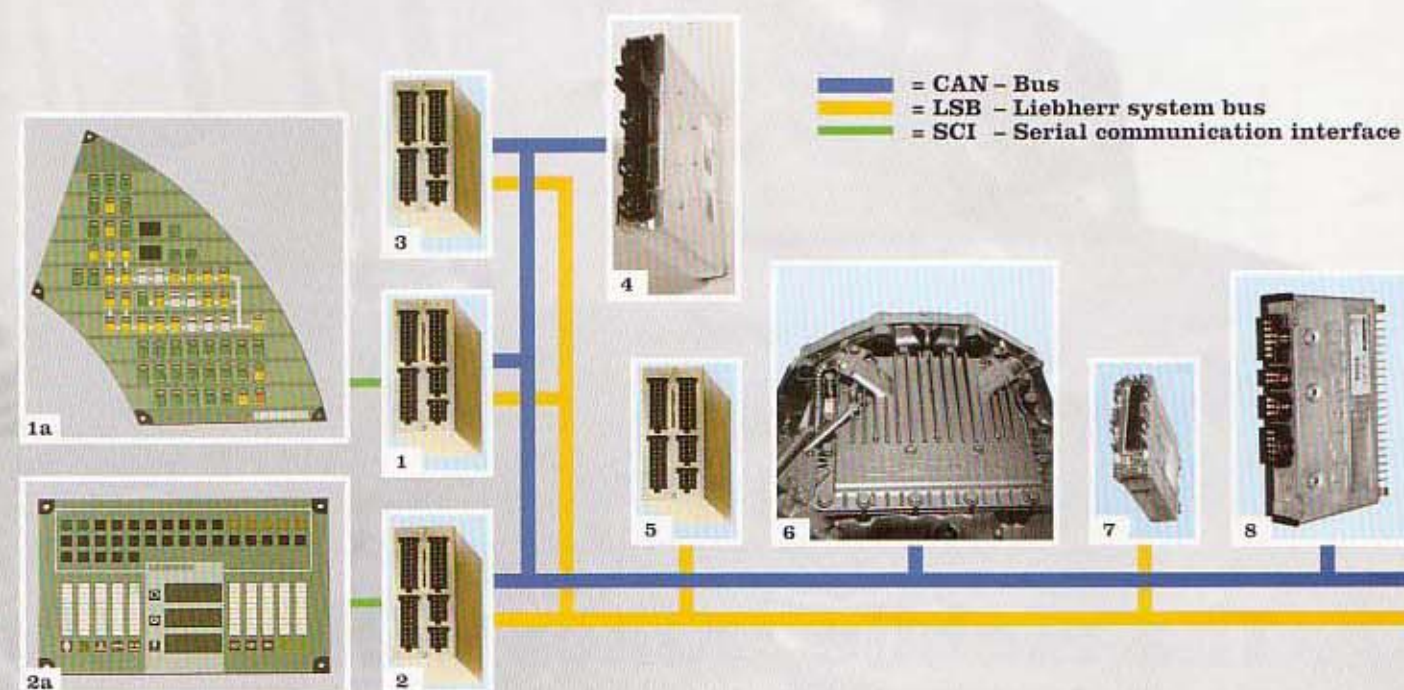
The modular master computer technology LI-AS-DRIVE for the power train of the mobile crane LTM 1100/2.



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

- 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)



The mobile cranes with LI-AS-DRIVE.