# TECHNICAL DATA

## AS 1600

OPERATING WEIGHT: 10920 KG
ENGINE POWER: 90 KW / 122 HP
BUCKET CAPACITY: 1.6 – 2.5 m³

- COMFORTABLE DRIVER´S CAB WITH ROPS SAFETY SYSTEM
- JOYSTICK CONTROLS
- SERVO-ASSISTED WORKING HYDRAULICS
- HIGH-PERFORMANCE, POWER-CONTROLLED HYDROSTATIC FOUR-WHEEL DRIVE
- FOUR-WHEEL STEERING
- PLANETARY AXLES WITH SELF LOCKING DIFFERENTIAL IN FRONT AXLE
- LOW-MAINTENANCE WET LAMELLA BRAKES IN FRONT AND REAR AXLE
- Z$^{PLUS}$-KINEMATICS WITH PRECISE PARALLEL LIFTING
- ELECTRO-HYDRAULIC QUICK-COUPLER
- WIDE RANGE OF ATTACHMENTS

### ENGINE

| | |
|---|---|
| Low-noise, water-cooled Deutz TCD 3,6 L4 turbo diesel engine with intercooler. Common Rail injection system, cooled external exhaust gas recirculation and diesel oxidation catalyst (DOC). No regeneration necessary. | • |
| Net power at | 2200 rpm |
| acc. to ISO 14396 | 122 hp / 90 kW |
| Max. torque at | 1600 rpm |
| acc. to ISO 14396 | 480 Nm |
| Air intake filter: | 2-level dry-air filter with safety cartridge |
| Electrical system: | |
| Operating voltage: | 24 Volt |
| Battery capacity: | 2 x 95 Ah |
| Alternator rating: | 120 A |

### DRIVE

| | |
|---|---|
| Hydrostatic drive with automotive control including MDRIVE (hand throttle and inching speed can be coupled to the pedal), 3 stages (jolt-free), multi-functional lever (joystick) for drive and working hydraulics control | • |
| Axles: planetary axles with four-wheel steering for maximum flexibility, oscillating rear axle | • |
| Differential lock: Automatic self-locking differential in front axle | locking factor 45 % |
| Wheels: tire size: | 17,5-25 |
| optionally: | 17,5 R25 |
| optionally: | 550/65 R25 |
| Speeds: road gear: | 0-20 km/h |
| field gear: | 00-15 km/h |
| Oscillation: max. oscillation angle: | +/- 10° |

### BRAKES

| | |
|---|---|
| Operating brakes: 1. hydraulically operated wet lamella brake in front and rear axle, acting on all 4 wheels 2. hydrostatic inching brake, acting on all 4 wheels | • |
| Parking brake: Spring-loaded wet lamella brake in rear axle, acting on all 4 wheels | • |

### STEERING

| | |
|---|---|
| Hydrostatic 4-wheel steering with automatic alignment (4 steering modes: 4-wheel, front wheel, crab and reduced crab steering) max. steering angle | +/- 35° |
| Turning radius measured over rear end | R = 4350 mm |

### HYDRAULIC SYSTEM

| | |
|---|---|
| Dual-circuit system | |
| 1. Load sensing working hydraulics circuit (lift/lower, tilt, accessories), and swivel function (via priority valve); four-fold control valve with primary and secondary protection; with servo-controlled joystick operation Max. operating pressure at 2200 min$^{-1}$: max. oil flow for auxiliary hydraulics | 138 l/min and 235 bar |
| 2. Circuit constant pump (swivelling), single control valve with primary and secondary protection | • |
| Float position for lifting cylinders | • |
| Boom suspension | • |

# TECHNICAL DATA

| PERFORMANCE DATA | |
|---|---|
| Bucket position: | |
| Tilting angle | 45° |
| Dumping angle, top | 53° |
| Lifting force: | 6900 daN |
| Breakout force: | 8000 daN |
| Thrust force: | 9000 daN |
| Tipping load: | |
| Standard bucket, max. turned, straight | 6000 kg |
| Standard bucket, max. turned, 90°-swivelled | 6010 kg |
| Payload: | |
| on forks, max. turned, frontal, even terrain | 4125 kg |
| on forks, max. turned, max. swivelled, even terrain | 3945 kg |

Tipping load according to ISO 14397, payload according to EN 474-3;

| FILLING CAPACITIES | |
|---|---|
| Engine with filter | approx. 10.0 l |
| Fuel tank | approx. 170.0 l |
| Front axle | approx. 21.0 l |
| Rear axle | approx. 18.5 l |
| Hydraulic system with tank | approx. 160.0 l |
| Distributor gear | approx. 6.0 l |

| CHASSIS | |
|---|---|
| Rigid single-frame chassis with rear axle support for maximum stability, especially when working in swivelled position | • |
| Sealed articulated/oscillated pivot with play-free, chain operated swinging system with constant turning speed and power | • |
| Swing boom system with Z$^{PLUS}$kinematics with precise parallel lifting | • |
| Operator's cab with flexible four-point mountings for maximum driver comfort and minimum noise levels | • |
| The servo-assisted joystick controls are smooth, accurate and long lasting | • |

| STANDARD FEATURES | |
|---|---|
| Amply dimensioned ROPS panoramic comfort cabin with 2 lockable doors | • |
| Doors can be locked in 2 positions within the contour of the loader | • |
| Air-conditioning system | • |
| Single piece floor mat for easy cleaning | • |
| Tinted windows | • |
| Parallel guided windscreen wiper | • |
| Rear wiper | • |
| Front and rear screen washing device | • |
| Heated rear window | • |
| 2 large fold away outside mirrors | • |
| Tinted roof window | • |
| 3-Step drive selector switch | • |
| Intuitive modular control panel with onboard computer for machine monitoring and machine settings like :<br>* Flow volume of auxiliary hydraulic function<br>* Selection of the speed in the low gear | • |
| Speedometer | • |
| Steering column is adjustable in height and inclination | • |
| Ergonomically adjustable joystick | • |
| Multiply adjustable driver's seat | • |
| Safety belt | • |
| Sun visor | • |
| Heating and ventilation system with recirculation air function | • |
| Main battery switch | • |
| Interior light | • |
| Socket | 24 V |
| Coat hook | • |
| Storage pockets in the cabin | • |
| Lockable storage compartment at the chassis | • |
| 2 driving lights on cabin roof | • |
| 2 working lights rear | • |
| 2 working lights at monoboom | • |
| Single key system | • |
| Hydraulic quick coupler with electric safety device | • |
| Towing coupling | • |
| Fastening and lifting points | • |
| Proportional 1st and 2nd auxiliary hydraulics circuit is integrated in the joystick | • |
| Color scheme: | yellow |
| Operator's cabin, axles and wheels: | grey |

# TECHNICAL DATA

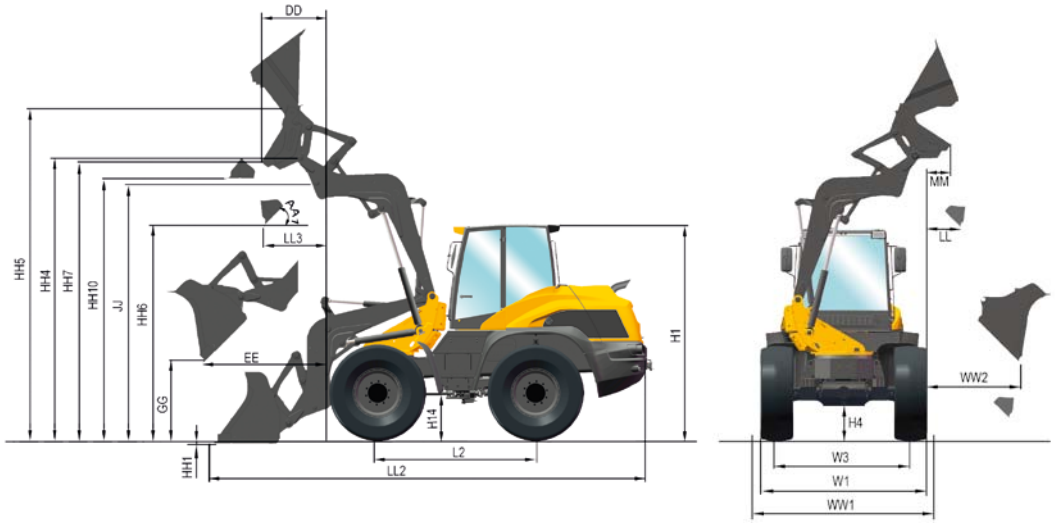
| OPTIONAL EQUIPMENT | |
|---|---|
| Version | 40 km/h |
| Wide tires | o |
| Beacon light | o |
| Interior mirror | o |
| Acoustic back up alarm | o |
| FOPS grid for cabin roof | o |
| Permanent function for auxiliary hydraulics | o |
| Safety valves | o |
| Bio-degradable oil fill for hydraulic system | o |
| Pressureless return line | o |
| Left joystick | o |
| Lockable differential on rear axle | o |
| Air suspended driver's seat | o |
| Radio | o |
| Immobilizer | o |
| Special corrosion protection for salt applications | o |
| Attachments as per separate list as pallet fork, load hook etc. | o |

| EMISSIONS | |
|---|---|
| Engine | Emissions according to stage III B - EU-RL 97/68 |
| Noise emission | |
| Sound power level LWA[1] | 101 dB(A) |
| Acoustic power level LpA[2] | 76 dB(A) |
| | |
| Vibrations | |
| Vibration total value (3): | < 2,5 m/s² |
| Effective vibration level (4): | < 0,5 m/s² |

(1) According to 2000/14/EG
(2) According to ISO 6396
(3) According to ISO/TR 253980
(4) According to ISO/TR 25398

All data based on standard tires.
All data are non-binding.
Changes are reserved without notice.
The order confirmation is exclusively decisive.

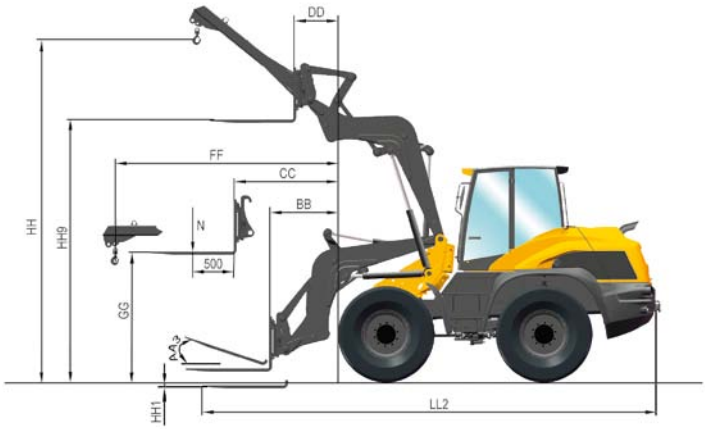
# TECHNICAL DATA

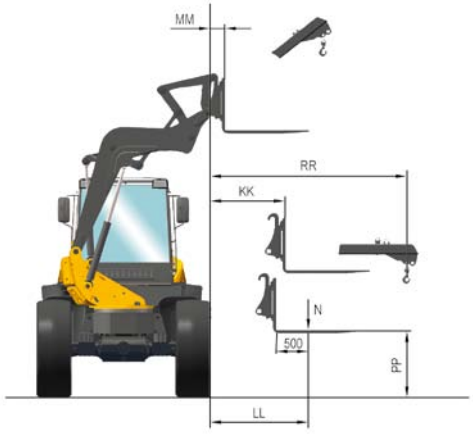






| BUCKETS | STANDARD 1.6 m³ | 4x1 1.5 m³ |
|---|---|---|
| AA1 | 53° | 53° |
| DD | | 790 |
| EE | 1915 | 1995 |
| GG | 1100 | 1035 |
| H1 | 3100 | 3100 |
| H4 | 440 | 440 |
| H14 | 500 | 500 |
| HH1 | 110 | 110 |
| HH4 | 3985 | 3985 |
| HH5 | 4975 | 4950 |
| HH6 | 3100 | 3010 |
| HH7 | | 3910 |
| HH10 | 3750 | 3750 |
| JJ | 3390 | 3390 |
| L2 | 2280 | 2280 |
| LL | 550 | 610 |
| LL2 | 6580 | 6570 |
| LL3 | 1070 | 1140 |
| MM | | 370 |
| W1 | 2460 | 2460 |
| W3 | 1980 | 1980 |
| WW1 | 2480 | 2480 |
| WW2 | 1495 | 1555 |




| | LOAD HOOK | FORKS |
|---|---|---|
| AA3 | | 25° |
| BB | | 940 |
| CC | | 1535 |
| DD | | 680 |
| FF | 3255 | |
| GG | | 1750 |
| HH | 5145 | |
| HH1 | | 60 |
| HH9 | | 3735 |
| KK | | 1110 |
| LL | | 1415 |
| LL2 | 6515 | 7015 |
| MM | | 305 |
| PP | | 780 |
| RR | 2845 | |