

control components

Topcon machine receivers LS-B110

The LS-B110 receives the laser beam and transmits this signal proportionally to the control box.

- Solid and waterproof design
- LED screen in multiple colours
- 360° detection



APMB-1 machine control

The APMB-1 control box controls the height and slope of the cutting edges of the machine.

- Easy to use / easy to program
- "On grade" line adjustment
- Clear LEDs for height indication
- Proportional joystick - up to 8 functions
- Suitable for any brand of receiver (Topcon, Trimble, Leica, Moba)



Optional:

- 3D System interface
- Automatic door control
- Skid-steer interface kit
- Vertical indication



AP slope sensor

Combined with the APMB-1 control box the slope sensor measures and controls the slopes with high accuracy.

- Waterproof housing (this also applies to the connector)
- Range 0 to 20%, two sides



Topcon sonic tracker

This height sensor measures the distance to a reference line or plane with the help of sonar to millimeter accuracy. Using the button on the APMB-1 box the distance can be infinitely adjusted per millimeter.

The sonic tracker is installed on a parallelogram, on the left or right door of the machine. If the loader drives too far from the reference point the tracker can easily be brought back above the point by controlling the hydraulic door.



In the APMB-1 control box the signal is automatically switched between LS-B110 or sonic tracker.

About AP

In our modern building the machines are built from the beginning to the end. We consider quality of paramount importance. We have experienced employees, two fully automated welding robots, an automated warehouse, advanced sandblasting and spraying installations and a healthy amount of knowledge and enthusiasm.

Since 1979 years AP has specialised in the development and construction of **agricultural machines**, **irrigation machines** and **earth moving machines**. Our range of products is very diverse; through years of experience and intensive contact with dealers and users we continuously attempt to improve the machines and to meet the wishes of our customers.

Last but not least we have an excellent development department where customer specific products are designed and constructed.



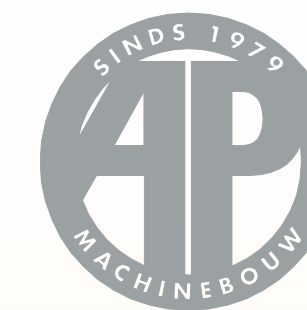
MACHINE CONSTRUCTION
AGRICULTURE IRRIGATION EARTH MOVING

AP Machinebouw B.V.
Ambachtstraat 21
8313 AV RUTTEN NETHERLANDS
T 0031 - 527 618 246
info@apmb.nl
www.apmb.eu



Dream machine

AP Machinebouw B.V. - Rutten - Netherlands - 0031-527 618 246 - apmb.eu



MACHINE CONSTRUCTION
AGRICULTURE IRRIGATION EARTH MOVING

AP LEVELLING MACHINES



high accuracy levelling

levellers

The leveller is used for the levelling of all kind of materials on roads, parkings, squares etc. and for the creation of sports / recreation fields. The leveller is suitable for wheel loaders, skid steers or tractors.

The rear side of the leveller is equipped with a cutting knife, the front side is provided with a finishing plate with bucket (for transportation of material). The cutting knife and the finishing plate are controlled separately. The doors, hydraulically controlled from the cabin, enable the machine to level closely to any edge. The 100% proportional control offers high accuracy levelling. No more over- or undershooting when controlling the blade.



Standard equipment

- Removable Hardox knives
- Removable Hardox bottom
- Hydraulic doors
- Quadruple hydraulic block proportionally controlled
- Proportional control of the hydraulic doors
- APMB-1 control box
- 2 Stainless steel receiver masts L = 1800 mm



Options

- Extendable mast with scale
- Topcon LS-B110 machine receivers
- AP slope sensor
- Topcon sonic tracker
- 3D, GPS or total station
- Sprayed in company colours
- Vertical indication on APMB-1 box



All AP levelling machines require :

- Power supply 1 x 12V or 24V/10 amp.
- 1 Double functioning hydraulic valve with free return flow
- Floating position
- Necessary hydraulic power : 15 l./min. - 160 bar (max. 80 l./min. - 200 bar)

basic levellers

This basic leveller is a simple, but effective levelling machine that is supplied with control box, proportional control and two stainless steel receiver masts as standard. The height adjustment is controlled by two cylinders on a torsion plate which guarantees levelling to millimeter accuracy.



Standard equipment

- Removable Hardox knives
- 2 Stainless steel receiver masts with scaling
- Height control through Hardox Torsion plate
- Hydraulic system with back up accumulator
- Dual hydraulic block 100% proportionally controlled and accumulator
- Basic control box with height indication and laser receiver cables
- Double functioning cylinders
- Fixed sides
- Pivot point fitted with bronze bushings

Options

- Extendable mast with scaling
- Machine receivers (brand and type of choice)
- APMB-1 control box
- Sprayed in company colours

Technical specifications levellers

Type	Working width cm	Max. width cm	Blade height cm	Weight kg
M-LEV 1200	120	163	40	410
M-LEV 1400	140	183	40	425
LEV 1200	120	196	52	475
LEV 1400	140	216	52	525
LEV 1600	160	236	52	590
LEV 1800	180	256	52	640
LEV 2000	200	293	65	920
LEV 2200	220	313	65	980
LEV 2450	245	333	65	1040
LEV2650	265	353	65	1080
LEV 2850	285	373	65	1150
Basic LEV 1400	140	140	40	330
Basic LEV 1600	160	160	40	350
Basic LEV 1800	180	180	40	370
Basic LEV 2000	200	200	50	390
Basic LEV 2200	220	220	50	410

powerblades

The AP Powerblade is designed to build in large amounts of material and directly level intout to the on grade line. The Powerblade functions best when combined with a skid-steer loader but can also be used with a wheel loader. The compact construction provides a high stability and optimal control. The doors, hydraulically controlled from the cabin, enable the machine to level closely to any edge.

Because both the proportional valve block and the cables are installed on the Powerblade the machine is simply and quickly ready for use. Furthermore it enables a flexible switch from loader.

Highly accurate in combination with laser control. By using the APMB-1 machine control it is possible to work with the easy to operate “on grade” line adjustment. The on grade level can be determined from the cab. At some skid-steer loaders the control of the Powerblade can be integrated in the joysticks.



Standard equipment

- Removable Hardox knives
- Double functioning cylinders
- Quadruple hydraulic block 100% proportionally controlled
- Hydraulic doors
- APMB-1 control box
- All cables, junction box and cabling

Options

- Extendable mast with scaling
- Topcon LS-B110 machine receivers
- Topcon sonic tracker
- 3D, GPS or total station
- Special version for working in rocky conditions
- AP slope sensor
- Sprayed in company colours
- Finishing plate / bucket
- Vertical indication on APMB-1 box

Technical specifications powerblades

Type	Working width cm	Blade height cm	Weight kg
PB 1200	120	52	350
PB 1800	180	68	595
PB 2000	200	68	620
PB 2200	220	68	645
PB 2350	235	68	665
PB 2500	250	68	700
PB 2850	285	80	850

