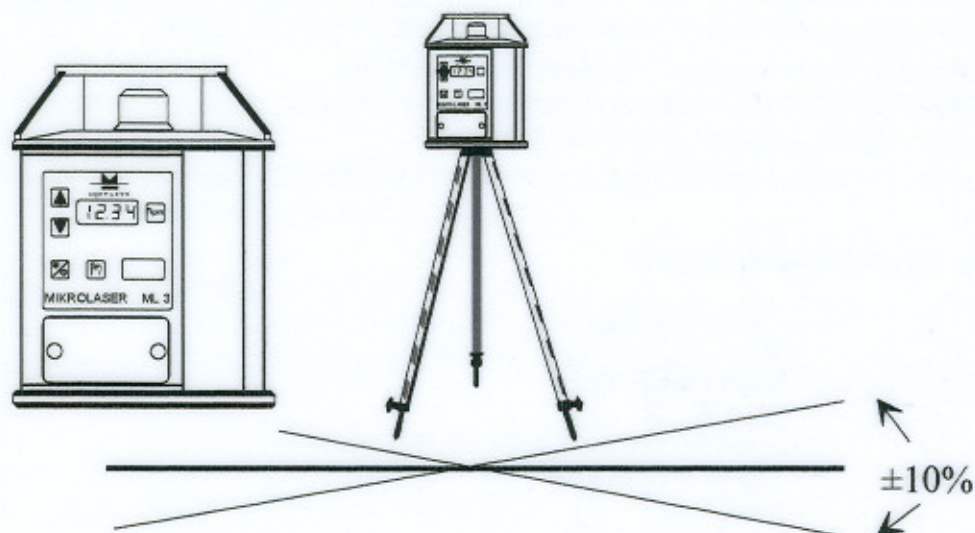
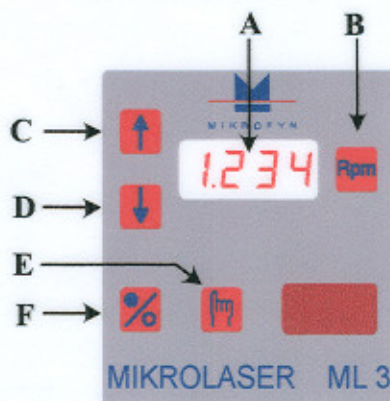


Placing

Laser ML 3



Operation



A : Display

B : Adjustment of RPM 300 / 600

C : Adjustment of Slope +

D : Adjustment of Slope -

E : Manual / Automatic mode

F : Turn on / Turn off

Battery

The ML 3 is battery operated. The Ni-Cd battery is of the widely known rechargeable 7.2V "Makita" type.

To recharge the battery, place the battery in the supplied charger.

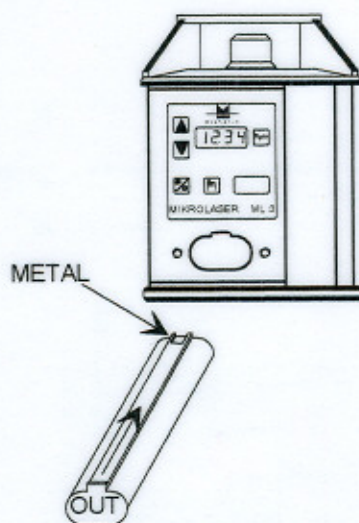
The LED on the charger will light during charging.

When the LED goes out, the battery is fully recharged.

A complete recharge takes about one hour.

A fully recharged battery has a capacity of more than 15 hours of operation.

To insert the battery



1. Unscrew the two finger screws on the battery compartment lid.
2. Insert the battery with the negative pole upwards.
3. Push the battery as far as it will go, when it is behind the rim of the battery compartment, give it a slight push downwards.
4. Remount the battery compartment lid.

Note: To ensure that the battery is kept dry, inspect that the battery compartment lid and gasket are OK.

If the battery compartment is flooded, dry the laser without the battery and lid at max. 50°C (122°F).

The storage of the laser should be made without battery.

Operating instructions

Horizontal Mode

1. Insert battery in the battery compartment.

The display shows the type of laser

--3-

2. Push the  button.

The display shows the condition of the battery.
bA 0 = flat battery, bA 9 = full battery.



bA 9

The ML 3 goes through an aligning process.
After aligning, the rotor head starts rotation
and the laser beam is turned on.

If the laser is placed beyond its aligning range
 $\pm 10^\circ$, the display will give the message:
"out of range". Please reposition the laser.

oor

Grade setting

1. Push the  or the  button
until the display has reached the value
you want to enter to the laser.

0.000

2. The ML 3 starts a self-calibrating procedure.
The procedure is accomplished in 9 steps.
Every step is shown in the display.

CAL 1

Avoid exposing the laser to vibrations during
the self-calibrating procedure, as it will
make the ML 3 restart the procedure.

CAL 9

3. When the self-calibrating procedure is finished,
the ML 3 will resume your selected grade.
Next time you change the grade setting, the ML 3
will assume the new position without running
the self-calibrating procedure.

Operating instructions

Manual Mode

1. Push the  button.

2. Push the  button.

The display shows that the laser is operating in manual mode.



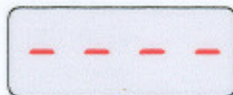
In manual mode, grades beyond the aligning area can be set. However in this mode there is **no** automatic levelling.

Vertical Mode (manually)

1. Lay down the laser on its back.

2. Push the  button.

The display shows that the laser is operating in manual mode.

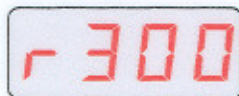


Adjustment of speed of rotation

1. Push the  button.

The ML 3 has two settings for the speed of rotation; 300 and 600 rpm.

By using 300 rpm you save battery power.



Technical Specifications

Working distance: 400m

Accuracy: 5mm/100m

Automatic levelling range: $\pm 10^\circ$

Grade adjustment range: 0 to 10 %

Rotational speed: 300 and 600 rpm

Laser/optics:		<u>VD</u>
Diode:	670 nm	635 nm
Maximum output:	1 mW	<5 mW
Beam diameter:	12 mm	12 mm
Laser class:	Class 1	Class 3A
Optics and windows are AR coated.		

Battery:
 7.2 V "Makita" type 1.4 Ah.
 Full recharge less than one hour.
 Operational time approximately 30 hours.

Dimensions: 17 x 17 x 24 cm

Weight: 5 kg.
