

If strength, reliability and ease of use are important to you – you are ready for the MikroBlade system™

- Professionals choose MikroBlade™ systems because they can rely on them every day.
- Mikrofyn respond to customer needs and requests for new development.
- Our customers are the #1 most important source for new ideas. That's why MikroBlade™ is so easy to use.
- We have carefully designed and optimized every component in the MikroBlade™ system to work together as one unit hereby creating the most responsive and accurate blade system on the market.
- All our sensors and lasers exceeds the IP-68 standard (waterproof below 1m).



**TECHNICAL DATA**

Supply: 9 – 28 V, full polarity and load dump protected  
 Operating temperature: –40° C to 70° C (–40° F to 158° F)

**CB1 AM Control Box**

Size: 160 x 55 x 100 mm (6.3 x 2.2 x 4")  
 Weight: 837 g (1.8 lb)  
 Seal: Water resistant, IP-66  
 Hydraulic driver: Proportional and on/off

**EM4 Electrical Mast**

Size: 3200 mm (126') (10.5 ft.) fully extended  
 Weight: 37 kg (81.4 lb) including shock mount  
 Seal: Water resistant, IP66  
 Accuracy: 0.1 mm (0.004")

**MD10 Laser Receiver**

Sensor pickup range: Proportional detection 360° capture range  
 Weight: 2 kg (4.4 lb)  
 Seal: Water resistant, IP 68  
 Accuracy: ±1.5 mm (±0.06") independent of beam width  
 Laser window: 190 mm (7.5")

**MD40 Laser Receiver**

Sensor pickup range: Proportional detection 360° capture range  
 Weight: 3,2 kg (7.0 lb)  
 Seal: Water resistant, IP68  
 Accuracy: ±2,5 mm (±0.1") independent of beam width  
 Laser window: 320 mm (12.6")

**ML4A Construction Laser**

Operating area: 900 m (2950 ft.), 1600 m (5250 ft.) with high power diode  
 Dual slope: Up to + 110% dependent on model  
 Seal: Water resistant, IP 68  
 Accuracy: 2mm/100m (0.002% grade)



# MikroBlade™

## Versatile machine control for box-blades, scrapers, dozers and skid loaders



AUTHORIZED MIKROFYN DISTRIBUTOR:



MikroFyn A/S · Bondovej 16 · 5250 Odense SV · Denmark · www.mikrofyn.com

Since the start in 1987 MikroFyn A/S has placed itself among the top-five worldwide manufacturers of professional precision lasers and machine control systems. The profits of the business are reinvested in new products and growing the business. MikroFyn is built upon sound principals of developing and manufacturing state-of-the-art products, supported by experts and cooperating with outstanding professional local distributors.

www.kombiack.dk  
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 4089041



# MikroBlade. Better features – better value

## Automated machine control for box-blades, scrapers, dozers and skid loaders

The new MikroBlade™ system is an extremely rugged and versatile machine control system for applications needing height control.

The MikroBlade™ is a complete system combining the easy to use CB1AM Control Box, an all steel high-pressure valve block, the MD10 Laser Receiver and the rugged Electric Mast EM4.

But you can also run the system manually as an indicator system. Alternatively you can use the MM4 manual mast or the MD40 laser detector.

All components have been developed to meet the extra strain experienced on a tractor, so we can safely say that our MikroBlade™ is the most rugged and durable design on the market.

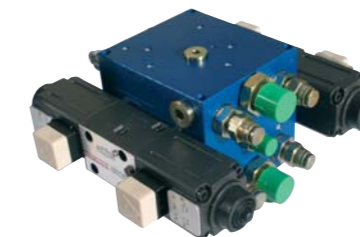
The system can be mounted on and control a broad range of machinery such as scrapers, graders and soil movers, automatically controlling and adjusting the work.

- Most rugged and durable design on the market.
- All steel high-pressure valve blocks.
- Very logical user interface – “you are immediately on the move”.
- Fully waterproof (IP66) control box.
- Extra rugged MIL connector with quick lock to CAN bus interface.
- Very bright LED display that can be read even in strong direct sunlight.
- Choice of manual or automatic level control of the machine.
- Works with all types of lasers.
- Choice of several MD Laser Receivers.



## Simple, easy-to-use Control Box CB1AM

The laser sensor is interfaced to the CB1AM Control Box, that calculates the corrections to control the hydraulics in less than 1/1000 sec – now that is quick response. Bright LED displays ensure that the driver has all the information he needs under any light conditions to accurately control the machine. The user dialog is very straight-forward so you are immediately on the move.



## Automated Hydraulic Valve HV1, designed for the MikroBlade system™

You have the possibility to add the Automatic Hydraulic Valve HV1 to your MikroBlade™ system. We have developed an all steel high-pressure valve blocks that is ideally suited to integrate into most machine hydraulics.

## Machine Detector MD10

Cast in special shock proof fiber-glass-armored plastic combined with the low weight make the MD10 and MD40 the most robust laser receivers on the market. They will withstand any shock and vibrations experienced on heavy machinery.



## ML4A – Dual Slope Construction Laser

The ML4A is probably the most rugged Construction Laser on the market – what other laser is guaranteed water proof to 3 meters head of water far exceeding the IP-68 standard.



## Electric Mast EM4

The Electric Mast EM4 was originally developed for agricultural use together with our new MikroBlade™ system. The rugged design and the antivibration system of the platform is the ultimate combination against damages in the harsh agricultural environment.

This is also why many have chosen to integrate the EM4 into their MikroGrader™ and MikroDozer™ systems.

When mounted on the blade and fully extended, the MD Laser Receiver will be elevated more than 4 m (13') above the ground – enough to get above most obstructions on the work site.

