

RECEIVING SYSTEMS



20

20

DESIGNED FOR HARSH OPERATING ENVIRONMENTS

MOBA-AUTOMATION.COM.AU

FOR EARTHMOVING PROFESSIONALS - AUSTRALIAN MADE - BUILT FOR HARSH OPERATING CONDITIONS

MOBA receiving systems allow you to maximise the time you spend productively in the cab. By guiding your machinery to an exquisite level of accuracy of depth or elevation, you will optimise machine time. This means greater efficiency, effectiveness and profitability for your business. You can use MOBA rugged, highly flexible receiving systems on a wide range of machines. The receivers can be used either for visual display or in conjunction with a control panel for fully automatic blade control.

MOBA receivers are built with the backing of more than 40 years experience designing and manufacturing laser systems for the harsh Australian environment. Our systems are 100% manufactured in Australia and use the latest leading electronic components, providing a performance which is unmatched.

APPLICATIONS

- » Land levelling
- » Road construction
- » Agricultural site preparation
- » Airfield construction

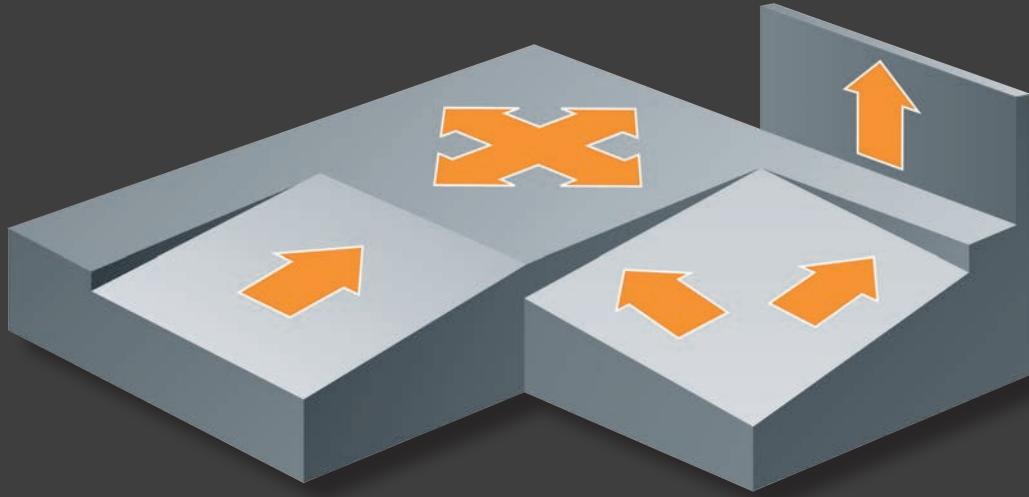


„I bought my first MOBA laser receiving system some 20 years ago and it hasn't stopped since. In my experience the system is excellent. Just switch it on and watch the blade automatically level to the correct grade every time. No overshooting, no lagging - perfect every time.“

Anthony Briganti

EXTREMELY VERSATILE YET EASY TO USE

- » Level
- » Vertical
- » Single grade
- » Dual grade
- » Cone



LASER RECEIVERS

VISUAL GUIDANCE

LASERGUIDE MINI SERIES R.45.BM

- » Visual receiver for all machine types
- » Integrated magnetic clamp
- » Fully waterproof
- » Economically priced
- » 120 mm receiver length
- » Single D Cell battery operation



01

LASERGUIDE MINI SERIES R.45.TC

- » Visual receiver for all machine types
- » Integrated magnetic clamp / fully waterproof
- » Tilt compensation
- » Economically priced
- » 190 mm receiver length
- » Long range of operation 500m



02

LASERGUIDE MINI SERIES R.45.TC.PRO

- » Visual receiver for all machine types
- » Integrated magnetic clamp / fully waterproof
- » Tilt compensation & 190 mm receiver length
- » Economically priced
- » Remote in-cabin display via Bluetooth / CAN
- » 4 x C cell battery operation, can be externally powered via 12 / 24 VDC



03

LASERGUIDE R.ULS.B

- » True multi channel receiver
- » 9 separate visual channels via LED display
- » 200 mm receiver length / Bluetooth / CAN connection
- » Use standalone or with a display panel / internal batteries
- » Fully waterproof
- » Available in different configurations



04

LASERGUIDE MAXI R.5CH

- » True multi channel receiver
- » Separate visual channels via LED display
- » 500 mm receiver length
- » Use standalone or with a display panel
- » Fully waterproof
- » Available in different configurations



05

LASERGUIDE MAXI R.10CH

- » True multi channel receiver
- » Separate visual channels via LED display
- » 1000 mm receiver length
- » Use standalone or with a Display panel
- » Fully waterproof
- » Available in different configurations



06

DISPLAY PANELS

VISUAL GUIDANCE

ANDROID APP MCE.R45APP

- » Brightness control
- » Centre band accuracy selection
- » In-cab display via Bluetooth
- » Works with R.45.TC.PRO



01

DISPLAY PANEL DB.UNI.PRO

- » Brightness control
- » Centre band accuracy selection
- » In-cab display via Bluetooth / CAN
- » Push button switches
- » Works with R.45.TC.PRO and R.ULS.B



02

DISPLAY PANEL CB.5CHL & CB.10CHL

- » Bright LED's
- » Rugged design
- » In-cab display via cable
- » Works with R.5CH & R.10CH



03



The R.45.TC and R.45.TC.PRO laser receivers use sophisticated electronic sensors to automatically compensate for errors caused by inclination of the boom arm. This enables the user to maintain better accuracy as well as to complete the job in less time.

LASER RECEIVERS

MACHINE CONTROL

LASERGUIDE R.ULS SERIES

- » True multi channel receiver
- » 9 separate visual channels via LED display
- » 200 mm receiver length / +/- 2mm accuracy
- » Automatic blade control via control panel
- » Fully waterproof
- » Available in different configurations



01

LASERGUIDE R.ULS.MM

- » True multi channel receiver
- » 9 separate visual channels via LED display
- » Automatic blade control via control panel
- » Fully waterproof / Millimetre accurate
- » Fully configurable deadband, offset with mm precision via control panel
- » Available in 250mm, 500mm & 1000mm receiver lengths



02

LS-3000

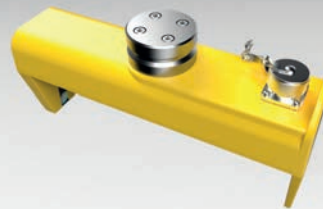
- » True linear millimetre receiver
- » Raw accuracy resolution 0.1mm
- » Achievable accuracy with control panel 1mm
- » 280mm receiver length
- » Automatic blade control via control panel
- » Fully configurable deadband, offset with mm precision via control panel



03

ULTRASONIC SENSOR MOB.007

- » Maintains reference from curb or string
- » Robust waterproof design
- » Large working range



04

LASERGUIDE R.GNSS

- » Multi constellation / fully configurable deadband, offset with mm precision via control panel
- » Simple setup & ideal for land levelling applications / fully waterproof
- » Automatic blade control via control panel
- » Available in different configurations
- » Capable of constructing a flat, single or dual plane slope



05

CONTROL PANELS

MACHINE CONTROL

CONTROL PANEL CB.2001

- » Suits bang bang valves
- » 3 accuracy settings
- » Economically priced
- » Toggle switches
- » Works with R.3CHS



01

CONTROL PANEL CB.2200

- » Suits bang bang valves
- » 3 accuracy settings
- » Economically priced
- » Toggle switches
- » Works with R.3CHS
- » Can be integrated with elevating mast



02

CONTROL PANEL CB.D2

- » Suits proportional or bang bang valves
- » 3 accuracy settings
- » Can be integrated with elevating mast
- » Large, easy to read LCD display / machined aluminium casing
- » Works with all receivers



03

DUAL CONTROL PANEL CB.DU02

- » Suits proportional or bang bang valves
- » 3 accuracy settings
- » Can be integrated with elevating mast
- » Large, easy to read LCD display / Machined aluminium casing
- » Works with all receivers



04

SPECIALISED SENSORS / MOUNTING BRACKETS



SLOPE SENSOR UG.001

- » Maintains any slope or level reference at all times 60% range
- » Robust waterproof design



A.RAM.005 - RAM mount kit

- » Various adaptor plates to suit control panels

JOYSTICKS MACHINE CONTROL



JOYSTICK A.RS.082

- » Auto/man. Up/down control, proportiona control
- » Can be used CB.D2 and CB.DU02



JOYSTICK A.RS.052

- » Auto/Manual; Up/Down control
- » Can be used with all single control panels

ELEVATION MASTS MACHINE CONTROL

An electric powered mast gives you smooth receiver movement. The mast allows the operator to accurately offset their working height, for example to cut out 100 mm of unwanted soil. Steel framed for strength, the mast is bolted directly to your scraper or earthmoving machine. **MOBA masts** are long lasting and reliable. The mast can be controlled via the Elevation Indicator or via selected control panels.



ME.15



ME.14



ME.12U



CONTROL PANELS FOR ELEVATION MASTS

CONTROL PANELS allow the operator to have full automatic blade control. The control panel integrates with all types of machine hydraulics. MOBA range of control panels are built to suit every need to the finest possible accuracy.



CONTROL PANEL CB.EI

- » Dedicated mast display panel
- » Can be used with ME.12U



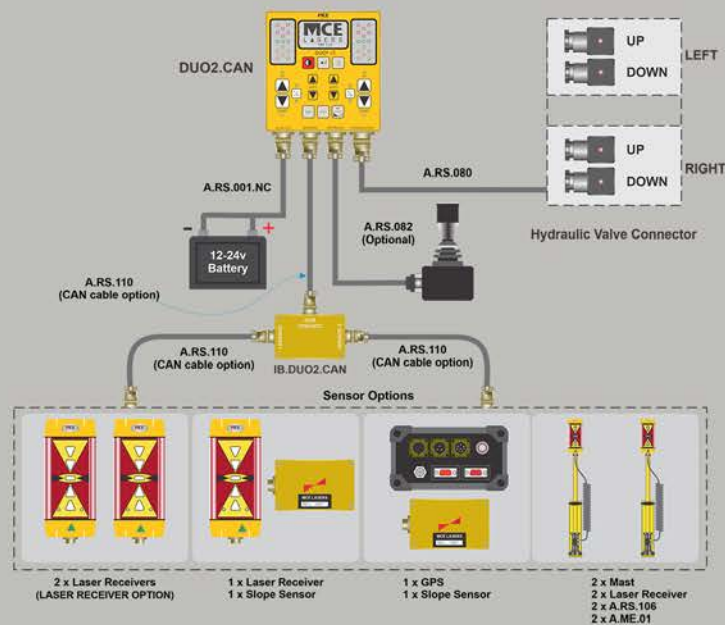
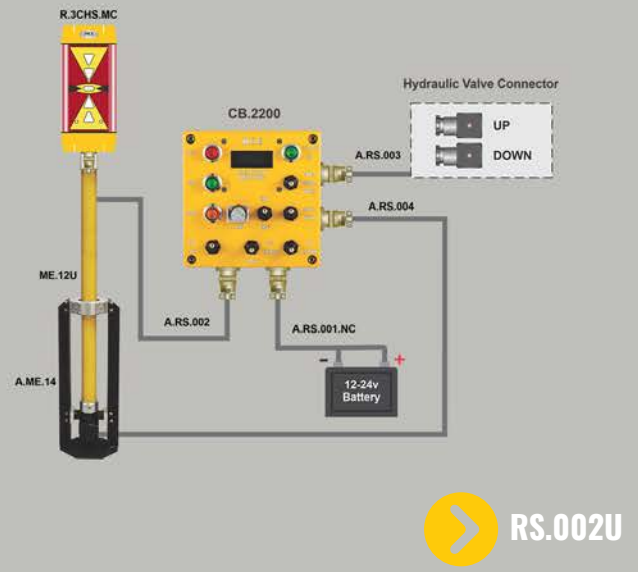
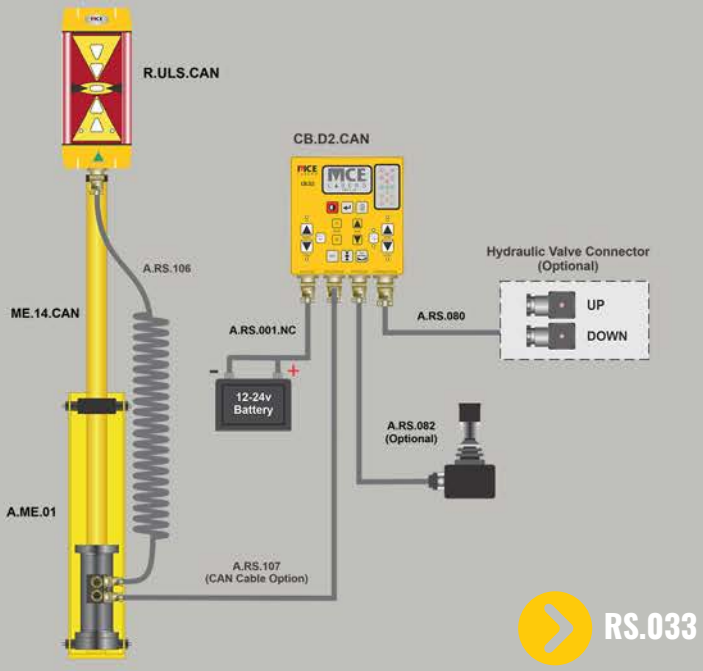
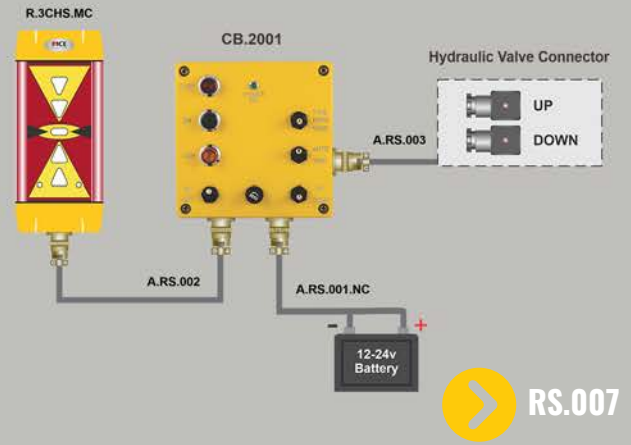
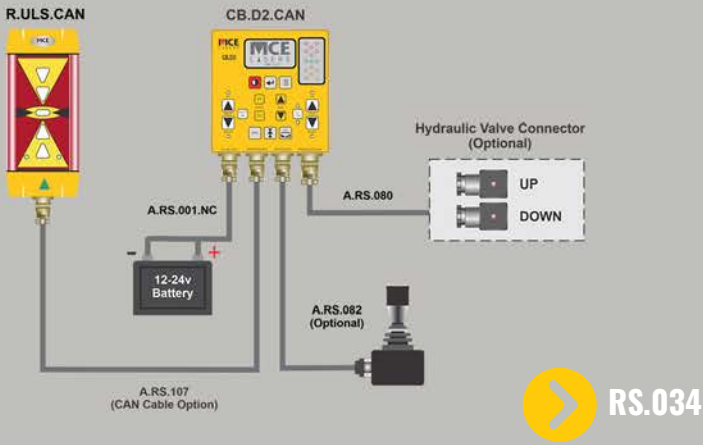
CONTROL PANEL CB.EI.HD

- » Dedicated mast display panel
- » Can be used with ME.14



SET-UP DIAGRAMS

COMMON SYSTEM CONFIGURATIONS



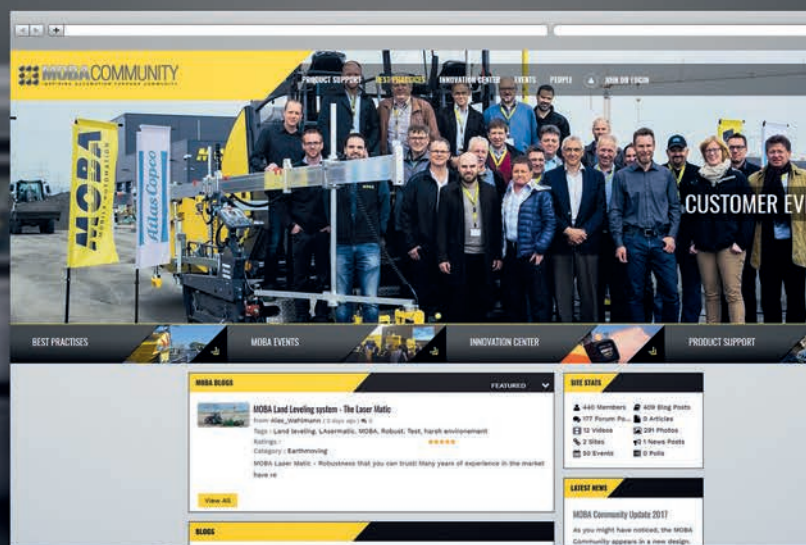
THE EXPERT NETWORK - INSPIRING MOBILE AUTOMATION

Would you like to know how the system has already been successfully deployed by our customers? In the online expert blog, **MOBA Community**, you will find everything from job stories, feature releases, discussion forums to field reports to inform you in detail about our technologies.

Besides blog contributions regarding automation solutions of MOBA Mobile Automation AG, the Community offers numerous forums, discussions, event announcements or expert contributions about various topics of automation of construction machines. The **MOBA Community** acts as an interactive, international exchange platform for everybody who would like to participate actively in the development of this industry.

Contribute your own know-how and perspectives to interesting dialogues, post important questions regarding the (r)evolution of the industry and exchange opinions and experiences with other experts.

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The **MOBA GROUP** is a leading global player in the world of mobile automation. Close collaborations between the headquarters in Limburg an der Lahn and subsidiaries all over Europe, Asia, North and South America create new perspectives for recent and future developments.

Superior technical know-how and more than 40 years of experience combined with an international dealer network guarantee a premium support – **worldwide. INSPIRING MOBILE AUTOMATION** - this is what the **MOBA GROUP** stands for since more than **40 years**.

MOBA GERMANY

65555 Limburg / Germany
Phone: +49 6431 9577-0
E-mail: sales@moba.de

MOBA USA

30269 Peachtree City / USA
Phone: +1 678 8179646
E-mail: mobacorp@moba.de

MOBA CHINA

116600 Dalian / China
Phone: +86 411 39269388
E-mail: sales@mobachina.com

MOBA INDIA

B 210-211 Gandhinagar / India
Phone: +91 989 855 6608
E-mail: sdesai@moba.de

MOBA ISE

08211 Barcelona / Spain
Phone: +34 93 715 87 93
E-mail: moba-ise@moba.de

MOBA UK

S72 7PD Barnsley / UK
Phone: +44 (0) 1226 444250
E-mail: info-uk@moba.de

MOBA FRANCE

77164 Ferrières en Brie / France
Phone: +33 (0) 1 64 26 61 90
E-mail: infos@mobafrance.com

MOBA AUSTRALIA

Victoria 3076 / Australia
Phone: +61 3 9357 0055
E-mail: aumoba@moba.de

MOBA SWEDEN

861 36 Timrå / Sweden
Phone: +46 (0) 73-3750097
E-mail: pwallgren@moba.de

MOBA BRASIL

Belo Horizonte - MG / Brasil
Phone: +55 31 7513-4959
E-mail: mobadobrasil@moba.de

MOBA TECMASERM

08700 Barcelona / Spain
Phone: +34 93 804 24 85
E-mail: moba-tecmaserm@moba.de

MOBA DENMARK

5250 Odense / Denmark
Phone: +45 70 26 96 91
E-mail: jlindskov@moba.de

MOBA CHILE

Avda. Providencia 1476
Phone: +56 (9) 61678464
E-mail: mjmarco@moba.de

MOBA AUSTRIA

A-2544 Leobersdorf / Austria
Phone: +43 664 251 0906
E-mail: gschmid@moba.de

NOVATRON FINLAND

33960 Pirkkala / Finland
Phone: +358 (0) 3 357 26 00
E-mail: sales@novatron.fi

MOBA ITALY

37069 Villafranca di Verona / Italy
Phone: +39 045 630-0761
E-mail: salesitaly@moba.de

YOUR LOCAL MOBA PARTNER:



www.moba-automation.com.au
www.moba-parts.com.au

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