

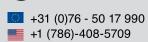
A LEADER... NOT A FOLLOWER!

MANUFACTURER OF TRAFFIC-, CRASH- AND LED LIGHTING SYSTEMS

VERDEGRO§

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OR SEARCH FOR YOUR PREFERRED DEALER AT OUR WEBSITE WWW.VERDEGRO.COM/DISTRIBUTORS

WORLD WIDE MARKET

VERDEGRO®

Verdegro Group Munnikenheiweg 59 4879 NE, Etten Leur. The Netherlands T: +31 (0)76 - 50 17 990 info@verdegro.com

YOUR PREFERRED DEALER







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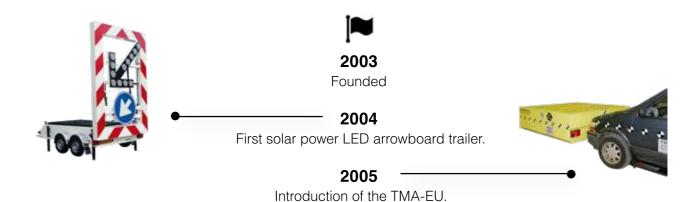
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BLADE

INTRO 68

ABOUT VERDEGRO



2008

Moved to current headoffice



2012

The TMA-US was launched acc. NCHRP 350 TL-3

2013

The Light TMA was launched acc. NCHRP 350 TL-2

2014

Introduction Hybrid Light Towers



2017

Verdegro USA LLC

2017New production facility

2018/2019 -



Introduction of the BLADE trailer



HYBRID POWERED



HYBRID LED LIGHT
TOWER TRAILER (LLTT-H)



HYBRID LED LIGHT TOWER
BUCKET (LLTB-H)

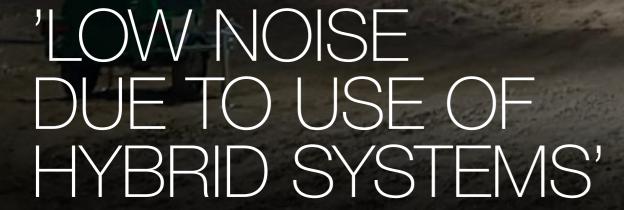
SOLAR BATTERY POWERED



LED LIGHT TOWER TRAILER (LLTT)

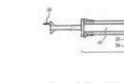


LED LIGHT TOWER UNIT (LLTU)



CRASH





BLADE - TRUCK MOUNTED ATTENUATOR

BLADE - TRAILER TRUCK MOUNTED ATTENUATOR

NCHRP 350 TESTED







LIGHT TRUCK MOUNTED ATTENUATOR (LTMA)

TRAILER TRUCK MOUNTED ATTENUATOR (TTMA)

TRUCK MOUNTED
ATTENUATOR-US (TMA-US)

NCHRP 350 EU TESTED



TRUCK MOUNTED
ATTENUATOR-EU (TMA-EU)

ARROWBOARDS



OPTIONAL ARROW
BOARDS FOR TMA'S



RED X LIGHT BOARD

'ONLY EUROPEAN TMA MANUFACTURER THAT PASSED NCHRP 350 & MASH TESTING'

AUTION KEEP CLEAR 'VMS PRODUCTS BUILDT ACCORDING YOUR SPECS'

TRAFFIC



SOLAR MESSAGE TRAILER (SMT)



MOBILE VARIABLE MESSAGE SIGNS (VMS)



ARROW TRAILERS



SOLAR MESSAGE UNIT (SMU)



MOBILE LANE SIGNALING SYSTEM (MLS)



RIS SYSTEM



RUMBLE MAT LAYER
(RML)



AUTO CONE (A.C.)



PICK & PLACE TMA ARROW WARNING UNIT (P.P.T.)

HYBRID POWERED







HYBRID LED LIGHT TOWER BUCKET
(LLTB-H) HYBRID POWERED

LIGHTING

SOLAR AND HYBRID
POWERED LIGHT
TOWERS. SAVE ON
DAILY OPERATIONAL
COSTS BY LOWERING
REFUELING AND
MAINTENANCE

A NEW CONCEPT FOR THE WORL WIDE MARKET

SOLAR BATTERY POWERED



LED LIGHT TOWER TRAILER
(LLTT) SOLAR POWERED



LED LIGHT TOWER UNIT (LLTU) SOLAR POWERED

ϵ

HYBRID LED LIGHT TOWER

(SMART SOLAR- BATTERY- AND DIESEL POWER SYSTEM)



FUEL CONSUMPTION 2.5L EACH DAY/

60 NIGHTS BEFORE REFUELING! * ASK FOR FULL SPECIFICATIONS















HYBRID LED LIGHT TOWER BUCKET

(SMART SOLAR- BATTERY- AND DIESEL POWER SYSTEM)



FUEL CONSUMPTION 2.5L EACH DAY/

60 NIGHTS BEFORE REFUELING!
* ASK FOR FULL SPECIFICATIONS
1250 KG





LED LIGHT TOWER TRAILER

(FULL BATTERY LED LIGHT TOWER WITH SOLAR SYSTEM)

UP TO 8 M HEIGHT

SOLAR CHARGING SYSTEM

AUTOMATIC DARKNESS SENSOR

ROTATION LIGHTING SYSTEM

6 LED HIGH EFFICIENCY FLOODLIGHTS 27.600 Im

ELECTRIC TELESCOPE MAST

FORKLIFT TUBES LATERAL

CONTROL PANEL WITH BATTERY LEVEL

ALUMINIUM BODY

MAINTENANCE FREE BATTERY PACK

LOCKABLE TOOLBOX
ROTATABLE SWIVEL JACKS

GALVANISED CHASSIS
PARKING BRAKE

FORKLIFT TUBES LONGITUDINAL

ADJUSTABLE DRAWBAR BALL OR EYE

745 KG













-IGHTING



LED LIGHT TOWER UNIT

(FULL BATTERY LED LIGHT TOWER WITH SOLAR SYSTEM)

UNIQUE BUCKET
 HANDLING SYSTEM

UP TO 9 M HEIGHT

AUTOMATIC DARKNESS SENSOR

SOLAR CHARGING SYSTEM

LED STREET LIGHT OR FLOODLIGHTS

GALVANISED STEEL TOWER

LIFTING HOOK(S)

INSIDE WIRING

UP TO 35 HOURS STANDALONE
OR CONNECTED TO CENTRAL POWER
SOURCE

LOCKABLE CONTROL PANEL

BATTERY LEVEL INDICATOR & SOLAR CHARGING INDICATOR

MAINTENANCE FREE BATTERY PACK GALVANISED BODY

BUILT-IN BATTERY CHARGER

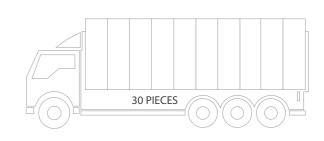
ROTATABLE SWIVEL JACKS

FORKLIFT TUBES

450 KG



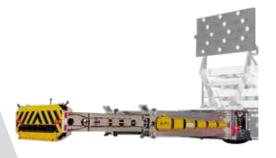
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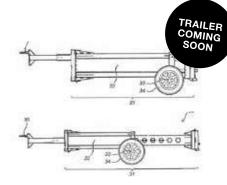




MASH TESTED







BLADE - TRAILER TRUCK MOUNTED ATTENUATOR

NCHRP 350 TESTED



LIGHT TRUCK MOUNTED
ATTENUATOR (LTMA)



TRAILER TRUCK MOUNTED
ATTENUATOR (TTMA)



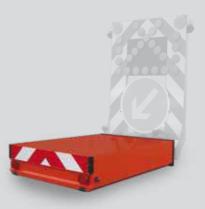
TRUCK MOUNTED
ATTENUATOR-US (TMA-US)

CRASH

TRAFFIC AND
WORKZONE SAFETY
USE OF ALUMINUM
AND GALVANISED
STEEL PARTS ONLY

A NEW CONCEPT FOR THE WORLD WIDE MARKET.

NCHRP 350 EU TESTED



TRUCK MOUNTED

ATTENUATOR-EU (TMA-EU)

ARROWBOARDS



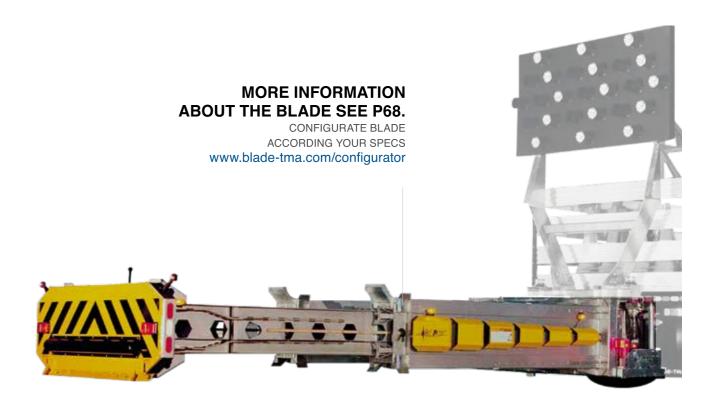
OPTIONAL ARROW
BOARDS FOR TMA'S



RED X LIGHT BOARD

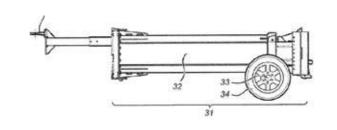
24

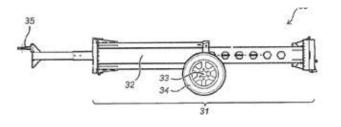
BLADE - TRUCK MOUNTED ATTENUATOR



BLADE - TRAILER TRUCK MOUNTED ATTENUATOR

COMING SOON







LIGHT TRUCK MOUNTED ATTENUATOR

LTMA (70K)



TESTED ACCORDING THE NCHRP-350 TL-2 70 KPH (2-50 / 2-51). 2000P TESTS DONE WITH 2000 KG US PICK-UP TRUCK

PERSONALIZED WITH TWO TONE PAINT JOB

2.5 TON VAN UP TO 9 TON TRUCK

HYDRAULIC ROTATING SYSTEM INCLUDED

OPTIONAL SUBFRAME FOR
MOUNTING BETWEEN CHASSIS
AND CARGOFLOOR ON
ENERGY ABSORPTION
ALUMINUM MOISTURE
PROOF CARTRIDGE
ENERGY ABSORPTION

REPLACEABLE ALUMINUM TUBES

FIRST IMPACT ALUMINUM REPLACEABLE HOOD

REFLECTIVE FOIL ACCORDING YOUR SPECS

280 KG









CRASH



TRAILER TRUCK MOUNTED ATTENUATOR

TTMA (100K)

ARROW BOARDS FOR TTMA'S SEE P38!

> NCHRP 350/100 kph TESTED INCLUDING OPTIONAL IMPACT TESTS OPTIONAL ARROW BOARD

ENERGY ABSORBING REPLACEABLE ALUMINUM TUBES

ADJUSTABLE HEIGHT DIN-TOWING EYE 40 OR 50 MM, OR BALL COUPLING

LIGHT ARROW & REFLECTION

MOUNTING BRACKET

— STEEL HOT GALVANIZED
ENERGY ABSORPTION
TOW BAR FRONT SLIDING
CONSTRUCTION

RUBBER SPRING AXLE

MUD FLAPS

ENERGY ABSORPTION ALUMINUM CARTRIDGE

PERSONALIZED WITH TWO TONE PAINT JOB

FIRST IMPACT REPLACEABLE HOOD

REFLECTIVE FOIL ACCORDING YOUR SPECS

SAFETY GRABBERS

740 KG







'EASY TO OWN AND OPERATE. FAST & QUICK'

CRASH

TRUCK MOUNTED ATTENUATOR-US

TMA-US (100K)

ARROW BOARDS FOR TMA'S SEE P38!

LED TAILLIGHTS INTEGRATED
IN STRUCTURE + CUSHION

ENERGY ABSORBING REPLACEABLE ALUMINUM TUBES

HYDRAULIC ROTATING SYSTEM

DOUBLE SAFETY BLOCKING DEVICE

BOLT CONNECTION
STRUCTURE FOR ARROW
BOARDS

STEEL HOT GALVANIZED
 MOUNTING SYSTEM

ENERGY ABSORPTION ALUMINUM MOISTURE PROOF CARTRIDGE

FORKLIFT TUBES FOR EASY HANDLING

FIRST IMPACT ALUMINUM REPLACEABLE HOOD

PERSONALIZED WITH TWO TONE PAINT JOB

REFLECTIVE FOIL ACCORDING YOUR SPECS

TESTED ACCORDING THE NCHRP 350. TL-3 100 KPH (3-50 / 3-51 / 3-52 / 3-53). 2000P TESTS WERE DONE WITH A 2000 KG US PICK-UP TRUCK TESTED ACCORDING THE OPTIONAL UK 110 KPH TEST (TD 49/07).

950 KG









33

TRUCK MOUNTED ATTENUATOR-EU

TMA-EU (100K)



DOUBLE SAFETY BLOCKING DEVICE

HYDRAULIC ROTATION SYSTEM

FORKLIFT TUBES FOR EASY HANDLING

STEEL HOT GALVANIZED MOUNTING SYSTEM

ENERGY ABSORPTION ALUMINUM MOISTURE PROOF CARTRIDGE

CORNER AND BOTTOM PROTECTORS

REFLECTIVE FOIL ACCORDING YOUR SPECS

OPTIONAL SWIVEL WHEELS (FRONT & BACK)

OPTIONAL RUBBER IMPACT STRIP

TESTED IN THE SPIRIT OF THE NCHRP 350 TL·3 100 KPH (3-50/3-51/3-52/3-53) 2000P TEST'S WERE DONE WITH 2000KG EUROPEAN STYLE SUV'S



WE ONLY USE HIGH
QUALITY ALUMINUM
INSIDE INSTEAD OF
NONDURABLE
PAPER!





'EUROPEAN STANDARDS, PROVEN QUALITY'

34

CRASH

750 KG

RED X LIGHT BOARD



13X RED 200 MM LED LIGHTS ACC/ BS EN 12352:2006, CLASS L8H

9 RED LIGHTS FORM THE CROSS AS A STEADY LIGHT WITH ORTHAGONAL ARMS

THE 4 LAMPS OUTSIDE THE RED CROSS
FLASH VERTICALLY IN PAIRS AT A
RATE OF NOT LESS THEN 60 AND
NOT MORE THAN 90 FLASHES
PER MINITE

FOLDED PANEL YELLOW BACKING BOARD 610, EITHER BS EN 1899 CLASS 2

AUTOMATIC CABIN CONTROLLED ROTATING REFLECTIVE SIGN (LEFT- &RIGHT-& HARD SHOULDER & CONVOY SIGNS)

FOLDED YELLOW BACKING BOARD EITHER BS EN 1899 CLASS 2

> DIAGRAM P7029 "CONVOY VEHICLE NO OVERTAKING"

RED X ARROW BOARD CAN BE TRUCK BED OR TMA MOUNTED (BRAND VERDEGRO)

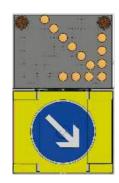
'FUTURE PROOF
TRAFFIC MANAGMENT
EQUIPMENT.'

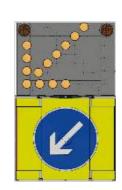
CONVOY

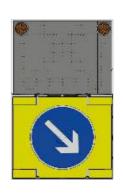
VEHICLE

OVERTAKING

TransportNetwork









RED X



OPTIONAL ARROW BOARD?



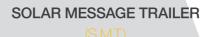














MOBILE VARIABLE
MESSAGE SIGNS (V.M.S.)



ARROW TRAILERS



SOLAR MESSAGE UNIT (SM.U.)



MOBILE LANE
SIGNALING (M.L.S.)



RIS SYSTEM



THE INTERNATIONAL VMS STANDARDS STARTS HERE

A NEW CONCEPT FOR THE WORLD WIDE MARKET.



RUMBLE MAT LAYER
(R.M.L.)



AUTO CONE (A.C.)



PICK & PLACE TMA ARROW WARNING UNIT (P.P.I.)

42

TRAFFIC SOLAR POWERED MESSAGE TRAILER'

SOLAR MESSAGE TRAILER

OPTICS ACC, NEN-EN 12966 EMC TESTED (ELECTROMAGNETIC COMPATIBILITY) WIFI OR UMTS WIRELESS COMMUNICATION

MAX. 880 WP SOLAR SYSTEM

SIGN PROGRAMMABLE BY TABLET, SMARTPHONE OR PC

LOW POWER CONSUMPTION FULL COLOR LED DISPLAY

UNIQUE AUTOMATIC ROTATION & STABILIZATION SYSTEM

ONE BUTTON OPERATION EASY-TO-USE FRONT MOUNTED CONTROL PANEL SPARE TIRE AND CONE STORAGE SPACE REMOVABLE GALVANISED DRAWBAR

RUBBER SUSPENSION BRAKED AXLE 2 ALUMINUM PAINTED BATTERY COMPARTMENTS 4 LIFT EYES EACH ON A CORNERS **GALVANISED CHASSIS**

> PORTABLE RUMBLE STRIPS STORAGE STABILIZER CHASSIS FOR HEAVY WIND

> > 750 KG (UP TO 1100 KG)







MOBILE VARIABLE MESSAGE SIGNS



SOLAR POWERED

SIGN PROGRAMMABLE BY TABLET OR SMARTPHONE

WIFI AND 3G UMTS WIRELESS COMMUNICATION

FULL COLOR VMS ACC. YOUR SPECIFICATIONS

TRAILER CHASSIS OPEN OR CLOSED DESIGN

OPTIONAL HYBRID SYSTEM OR DIESEL GENERATOR

HYDRAULIC LEVELING SYSTEM, OPTIONAL VMS
ROTATION

SMALL OR WIDE TRAILER CHASSIS

DOUBLE OR SINGLE AXLE TRAILER

OPTICS ACC. NEN-EN 12966
EMC TESTED (ELECTROMAGNETIC COMPATIBILITY)
WIFI OR UMTS WIRELESS COMMUNICATION

750 KG (UP TO 1400 KG)









ARROW TRAILERS



750 KG (UP TO 1400 KG)









SOLAR MESSAGE UNIT

PATENT NO 2001420 (SMU)

SOLAR CHARGING SYSTEM
UP TO 6,5 M HEIGHT

LOW POWER CONSUMPTION FULL COLOR

SIGN PROGRAMMABLE BY TABLET OR SMARTPHONE

HYDRAULIC LIFT SYSTEM

MAINTENANCE FREE BATTERY PACK

HYBRID POWER SYSTEM

PERSONALIZED WITH TWO TONE PAINT JOB

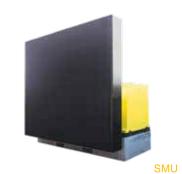
GALVANISED STEEL CONSTRUCTION FRAME FORKLIFT TUBES

OPTICS ACC. NEN-EN 12966 EMC TESTED (ELECTROMAGNETIC COMPATIBILITY) WIFI OR UMTS WIRELESS COMMUNICATION

1500 KG











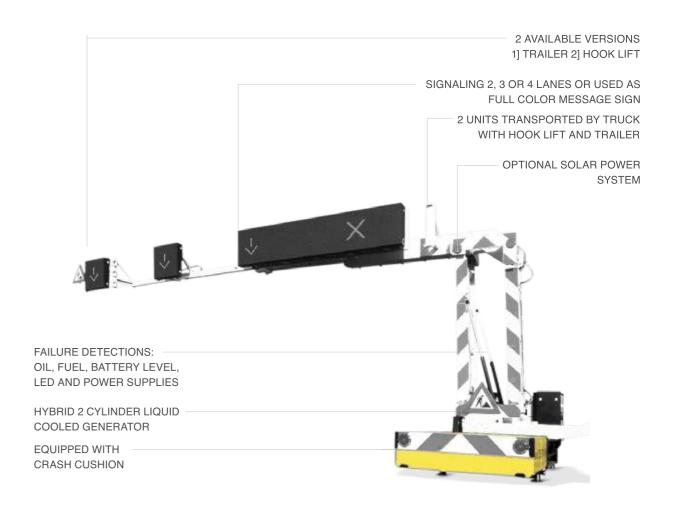
TRAFFIC

Daar kun je mee komen

SYSTEMS AVAILABLE'

CE

MOBILE LANE SIGNALING



OPTICS ACC. NEN-EN 12966 EMC TESTED (ELECTROMAGNETIC COMPATIBILITY) 3G/ WIFI OR UMTS WIRELESS COMMUNICATION

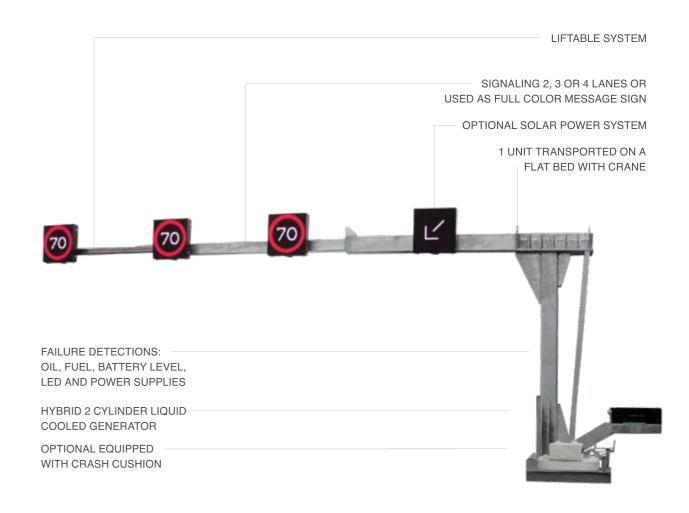
± 14.000 KG







(€ **RIS SYSTEM**



OPTICS ACC. NEN-EN 12966 EMC TESTED (ELECTROMAGNETIC COMPATIBILITY) WIFI OR UMTS WIRELESS COMMUNICATION

± 10.000 KG



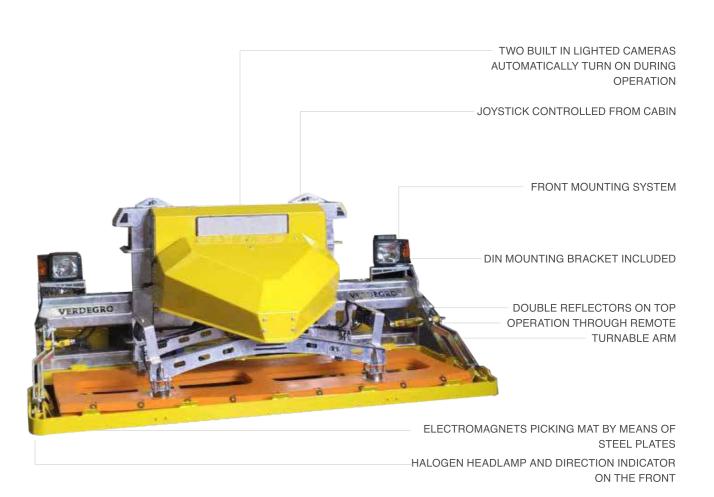


'UNIQUE DESIGN

TRUCK CABIN'

OPERATIONAL FROM

RUMBLE MAT LAYER



R.M.L.





AUTO CONE

CONE STORAGE (SINGLE OR DOUBLE)
COMPARTMENT MAX. 500 CONES

CONE PICKING & PLACING
COMPARTMENT INSTALLED IN FRONT
OF THE STORAGE

TWO SETS OF ROBOTIC ARMS
MOUNTED ON THE LEFT AND
RIGHT SIDE OF THE UNIT

CONE GUIDING RAILS ON EACH
SIDE HYDRAULICALLY RETRACTED
OR EXTENDED

CONES 750 MM HEIGHT
400 MM X 400 MM FOOTPRINT,
4.8 KG EACH, DIFFERENT
REFLECTIVE FOILS POSSIBLE

PLC CONTROLLED ELECTRIC
AND OPTICAL LIMIT SWITCH
USED TO CONTROL
OPERATING

SAFETY DEVICES AND STROBE LIGHTS STANDARD EQUIPPED LCD TOUCH SCREEN OPERATE SYSTEM INSTALLED IN CABIN

MANUAL OR AUTOMATIC OPERATION SELECTION
MAXIMUM FORWARD WORKING SPEED = 15 KM/H
(BASED ON CONE SPACE 25 METERS OR MORE)
MAXIMUM BACKWARD WORKING SPEED = 9 KM/H
(BASED ON CONE SPACE 25 METERS OR MORE)
CONE SPACING MIN. 3 METERS
(FORWARD & BACKWARDS)
LEFT AND RIGHT WORK MODE

AUTO CONE SUGGESTED TO BE INSTALLED ON 4 X 2 VEHICLE CHASSIS (MAN / VOLVO / MERCEDES / DAF / OTHERS ON REQUEST)

A.C.



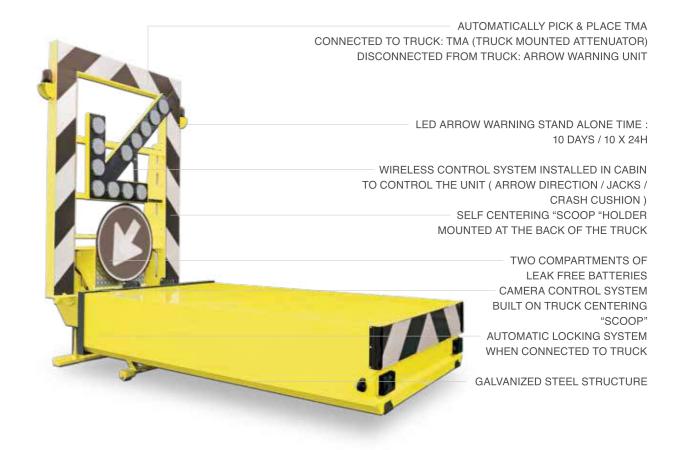






CONE PICK & PLACER (250 OR 500 PCS)

PICK & PLACE TMA ARROW WARNING UNIT







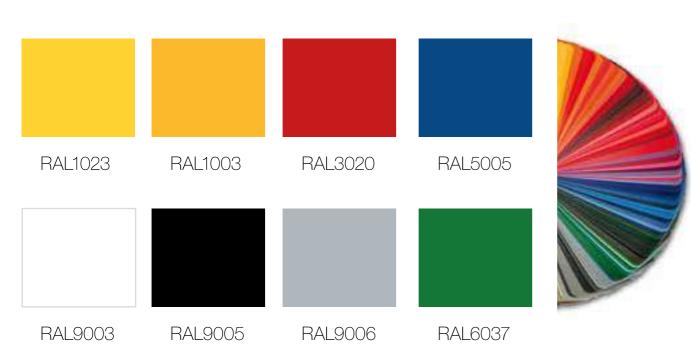






CUSTOMIZE YOUR PRODUCT TO YOUR COMPANY COLORS





ALL OUR PRODUCTS ARE AVAILABLE IN EVERY RAL COLOR



















'IT'S ALL ABOUT SAVING LIVES'

'PROVEN SAFETY ALSO WHEN IT'S NOT A TEST.'

VERDEGRO®

GET YOUR GOODIES & JOIN US!

UPLOAD YOUR PRODUCT PHOTO AND GET VERDEGRO GOODIES!

WWW.VERDEGRO.COM



QUESTIONS ABOUT OUR GOODIES?

MAIL: SALES@VERDEGRO.COM

WWW.VERDERGO.COM

WWW.BLADE-TMA.COM







CAP BLADE WINTER A





UPLOAD YOUR BLADE PHOTO AND GET BLADE GOODIES!







PROUDLY TESTED IN THE U.S.A.

THE No.1 MASH TMA; FINALLY A NEW LEADER IS BORN. BLADE, THE LONG AWAITED NEW TRUCK MOUNTED ATTENUATOR.

THIS IS BLADE

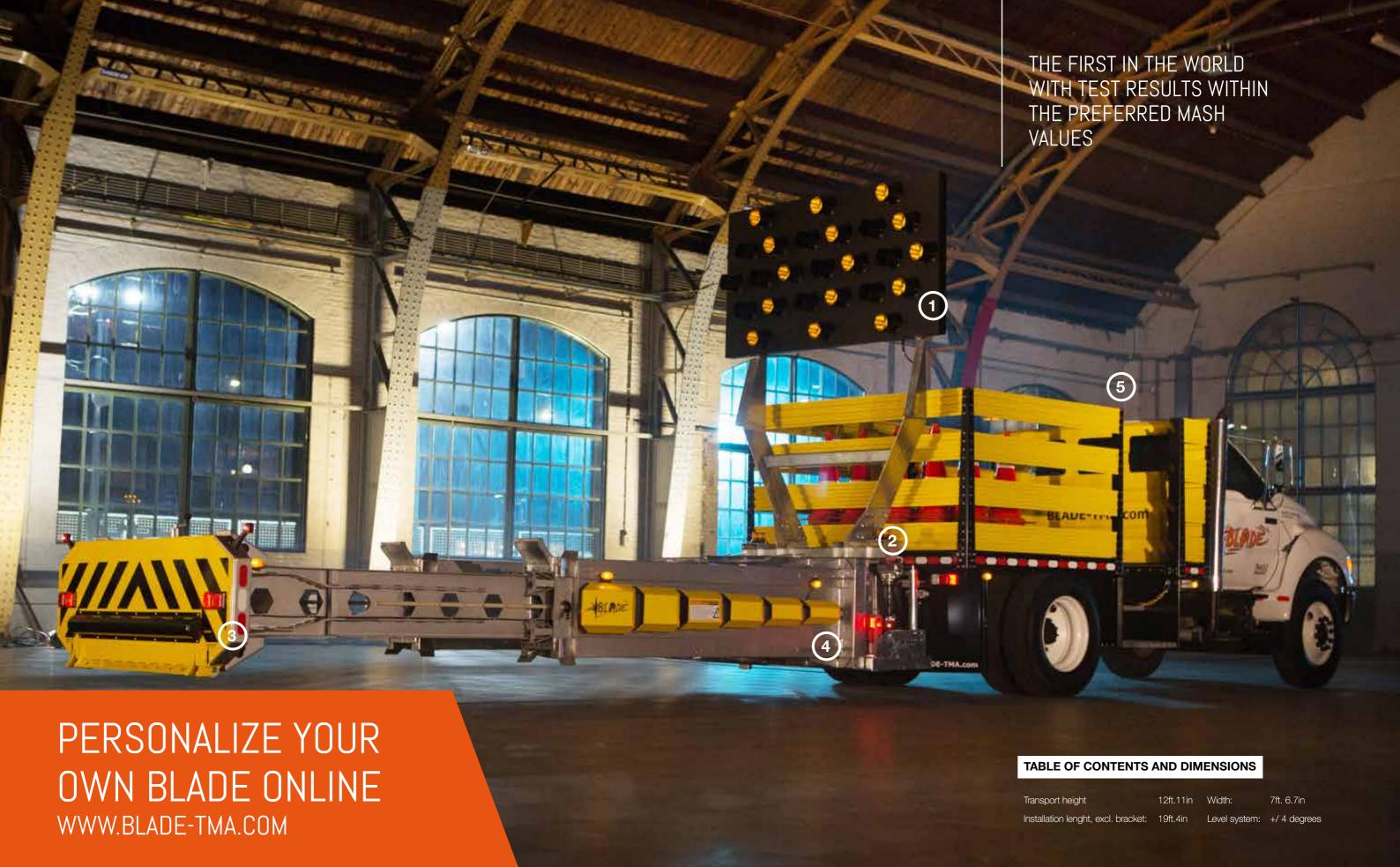
The No1 MASH TMA; Finally a new leader is born. BLADE, the long awaited new Truck Mounted Attenuator. Full scale crash tested according the Manual for Assessing Safety Hardware (MASH) that supersedes the 20 year old NCHRP-350.

WHY MASH?

The safety changes are mainly necessitated by alterations made to vehicles over the past decade. Cars have greatly increased in size, so different safety regulations are required to keep the occupants safe. The average bumper height on light trucks has risen considerably since 1993, so previous highway safety designs are no longer adequate

WHAT'S THE DIFFERENCE FOR TMA'S

The new MASH 2016 standard sets stricter criteria for Truck Mounted Attenuator's, bigger,heavier and newer test vehicles has to be used during testing, also the shadow vehicle criteria are stricter and much heavier, upper and lower truck weight has to be tested, ballast has to be fixed and also the arrow board together with the TMA construction must have been tested. The optional offset- and offset angle tests are now required in MASH!



ARROW BOARD BRACKET FULL SCALE CRASH TESTED MODULAR GALVANIZED STANDARD FOR SEVERAL TYPES OF VMS AND ARROW BOARDS · LED BEACONS NOT INCLUDED TRUCK BRACKET • FULL SCALE CRASH TESTED BRACKET

THE FIRST MASH TMA

THAT PASSED THE TD

FOR THE UK.

49/07 TEST WITH 70MPH

CHOOSE YOUR ACCESSORIES

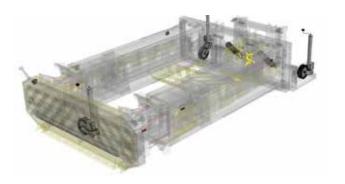






FOIL

- · A BLACK 100MM STRIPING ON THE HOOD
- 100MM STRIPING AND "CAUTION KEEP CLEAR" ON THE MIDDLE FOIL PLATE
- · OTHER FOILS ON REQUEST





JOCKEY WHEELS

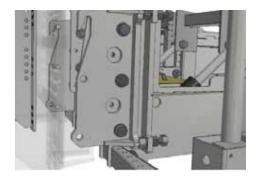
- 3 PIECES OF GALVANIZED JOCKEY WHEELS
- ONE IS MOUNTED TO THE REAR HOOD, AND 2 PIECES ARE MOUNTED ON THE STEEL GALVANIZED STRUCTURE. ALL FULL-SCALE CRASH TESTED





TRUCK BODY

- SERVERAL DIMENSONS AVAILABLE
- · WITH OR WITHOUT MAN BUCKET



QUICK CONNECT + LEVEL SYSTEM

- STANDARD INCLUDED; GET YOUR TMA ON AND OFF IN A COUPLE OF MINUTES
- · ALSO A UNIQUE LEVEL SYSTEM IS ADDED TO ADJUST IT PERFECTLY HORIZONTAL



· INCLUDING FENDERS (BENDS AWAY THE

CUTTED ALU PARTS DURING IMPACT)

 ALL BOLTS AND MATERIALS INCLUDED · EASY TO INSTAL! NO WELDING NEEDED

· ANYONE CAN INSTALL A TMA IN A COUPLE

· INCLUDING 6 PIECES HITCHPINS

OF HOURS

MASH TESTED, PASSED, FHWA ELIGIBLE AND DOT APPROVED

WHY BLADE AND HOW IT WORKS

Let's explain how this patented invention works. The TMA strength comes out of the composite aluminum welded profiles, this machine has 12 internal blades. During an impact the first 4 blades cut through the aluminum composite H-beams and after unlocking 8 blades cut through the welded tubes. The remaining weak aluminum parts will bend away in safe directions. The patent is based on cutting aluminum H beams and tubes using BLADES.

- NO.1 MASH TMA
- MODULAR & REPAIRABLE
- NO.1 ON INCREDIBLE TEST RESULTS
- HIGHEST SAFETY LEVEL TMA





THE 39 CRASH TESTS



No.1 ON RESULTS

This patented BLADE TMA is proudly full scale crash tested according MASH 2016 at the Texas Transportation Institute (TTI), with unbelievable test results! All the ride down values were within the preferred values

(MASH preferred a Longitudinal ridedown of 15.0 g with a maximum of 20.49 G). The BLADE TMA is also full scale crash tested according the UK optional 110Kph test TD49/07.



THIS IS WHY!

THIS TMA HAS THE HIGHEST SAFETY
LEVEL! THIS PATENTED BLADE TMA IS
PROUDLY FULL SCALE CRASH TESTED
ACCORDING MASH 2016





THE No.1 MASH TRUCK MOUNTED ATTENUATOR

MASH TESTED, PASSED, FHWA ELIGIBLE AND DOT APPROVED



WWW.BLADE-TMA.COM