



**A LEADER...
NOT A FOLLOWER!**

MANUFACTURER OF TRAFFIC-,
CRASH- AND LED LIGHTING SYSTEMS

VERDEGRO®

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WORLD WIDE MARKET

VERDEGRO
IS A PROUD
MEMBER OF



YOUR PREFERRED DEALER

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ABOUT VERDEGRO

2003
Founded (by G.C. Verwijs & S. de Groot)

2004
First led solar power arrowboard trailer

2005
Introduction of the TMA-EU

2008
Moved to current headoffice

2008
Introduction of the Auto Cone

2009
New crash test facility opened

2009
Launched the new MLS

2012
The TMA-US was launched acc. NCHRP 350 TL-3

2013
The Light TMA was launched acc NCHRP 350 TL-2

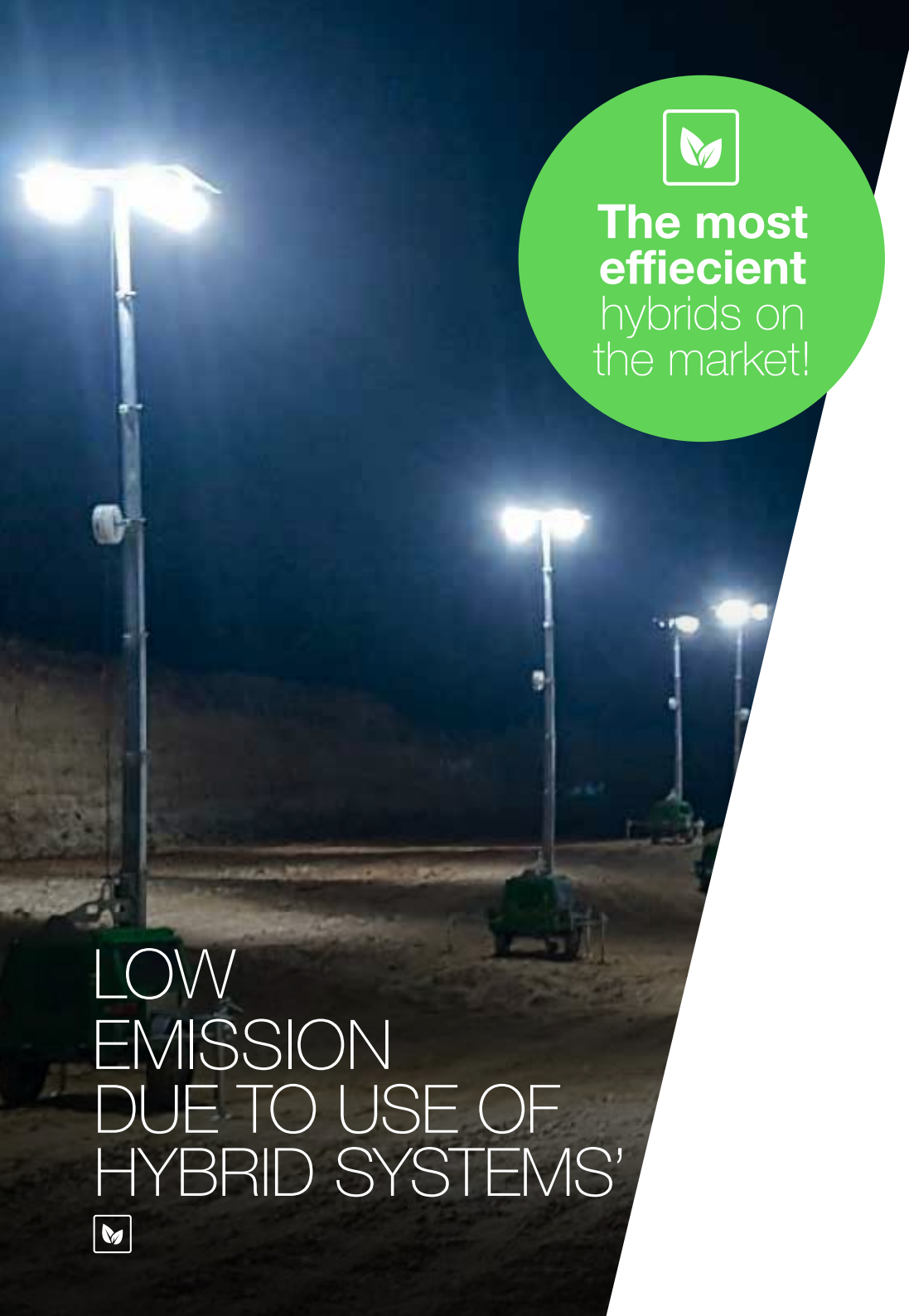
2014
Introduction Hybrid Light Towers

2016
The BLADE was launched acc. MASH

2017
Verdegro USA LLC

2018
New production facility

2019
Introduction of the BLADE trailer



**The most
efficient**
hybrids on
the market!

LOW
EMISSION
DUE TO USE OF
HYBRID SYSTEMS'



LIGHTING

HYBRID POWERED



HYBRID LED LIGHT
TOWER TRAILER (LLTT-H)

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HYBRID LED LIGHT **XL**
TOWER TRAILER (LLTT-H)

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HYBRID LED LIGHT **XXL**
TOWER TRAILER

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SOLAR BATTERY POWERED



HYBRID LED LIGHT TOWER
BUCKET (LLTB-H)

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LED LIGHT TOWER TRAILER
(LLTT)

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LED LIGHT TOWER UNIT
(LLTU)

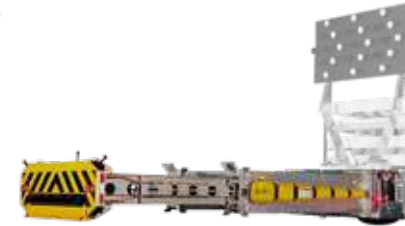
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'ONLY EUROPEAN TMA
MANUFACTURER THAT
PASSED NCHRP 350 &
MASH TESTING'

CRASH

MASH TESTED



BLADE - TRUCK MOUNTED
ATTENUATOR

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BLADE - TRAILER TRUCK
MOUNTED ATTENUATOR

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NCHRP 350 TESTED



LIGHT TRUCK MOUNTED
ATTENUATOR (LTMA)

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TRAILER TRUCK MOUNTED
ATTENUATOR (TTMA)

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TRUCK MOUNTED
ATTENUATOR-US (TMA-US)

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NCHRP 350 EU TESTED



TRUCK MOUNTED
ATTENUATOR-EU (TMA-EU)

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ARROW BOARDS



RED X LIGHT BOARD

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OPTIONAL ARROW
BOARDS FOR TMA'S

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WORKZONE
EQUIPMENT
ACCORDING TO
YOUR SPECS

TRAFFIC



SOLAR MESSAGE TRAILER
(SMT)

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MOBILE VARIABLE MESSAGE
SIGNS (VMS)

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ARROW TRAILERS
(AT)

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SOLAR MESSAGE
UNIT (SMU)

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MOBILE LANE SIGNALING
SYSTEM (MLS)

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RIS SYSTEM
(RIS)

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RUMBLE MAT LAYER
(RML)

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AUTO CONE
(AC)

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PICK & PLACE TMA ARROW
WARNING UNIT (PPT)

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**NEW
2019
AUTO CONE
V2**



**The most
efficient
hybrids on
the market!**



HYBRID LED LIGHT TOWER TRAILER
(LLTT-H) HYBRID POWERED

HYBRID POWERED



NEW!



HYBRID LED LIGHT TOWER TRAILER XL
(LLTT-H) HYBRID POWERED



NEW!



HYBRID LED LIGHT TOWER XXL
(LLTT-H) HYBRID POWERED

SOLAR BATTERY POWERED



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



LED LIGHT TOWER TRAILER
(LLTT) SOLAR POWERED



LED LIGHT TOWER UNIT
(LLTU) SOLAR POWERED

'HIGHEST LIGHTING
HOURS WITHOUT
REFUELING'



HYBRID LED LIGHT TOWER

(SMART SOLAR- BATTERY- AND HYBRID DIESEL POWER SYSTEM)



FUEL CONSUMPTION 2.5L EACH DAY/
60 NIGHTS BEFORE REFUELING!
* ASK FOR FULL SPECIFICATIONS



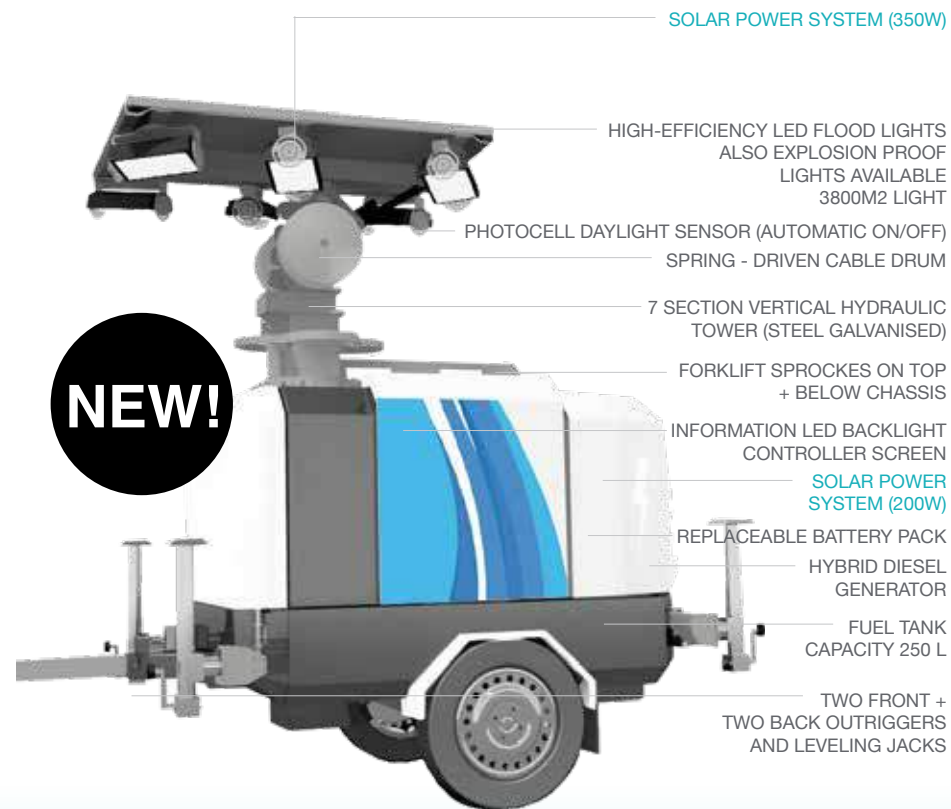


STANDARD
EQUIPPED WITH
REPLACEABLE
BATTERY PACK



LED LIGHT TOWER TRAILER- HYBRID XL

(SMART SOLAR- BATTERY- AND HYBRID DIESEL POWER SYSTEM)



FUEL CONSUMPTION 4L EACH DAY

60 NIGHTS BEFORE REFUELING!

* ASK FOR FULL SPECIFICATIONS



DOUBLE YOUR
LIGHT OUTPUT,
WITH THE NEW
XXL TRAILER



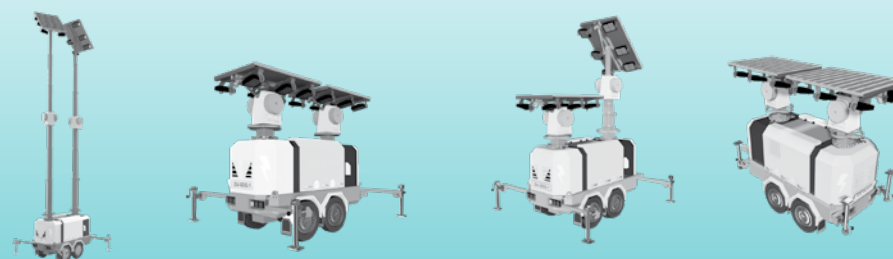
LED LIGHT TOWER TRAILER-HYBRID XXL

(SMART SOLAR- BATTERY- AND DIESEL POWER SYSTEM)

NEW!



FUEL CONSUMPTION 6 L EACH DAY
60 NIGHTS BEFORE REFUELING!
* ASK FOR FULL SPECIFICATIONS



'VARIABLE NUMBER
OF LED LIGHTS,
SOLAR PANELS AND
BATTERIES'



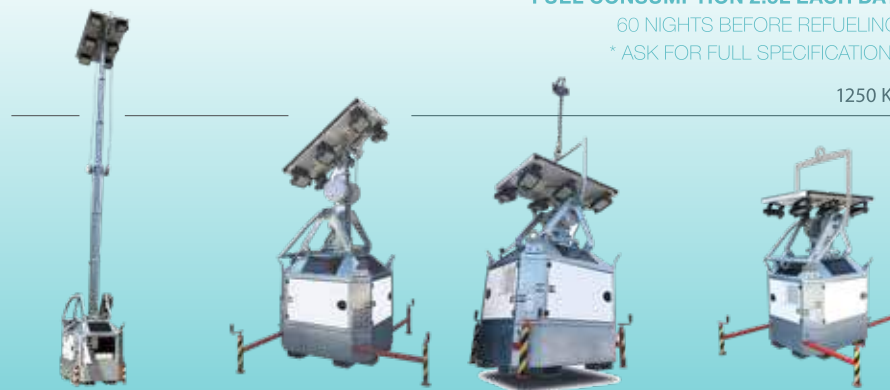
HYBRID LED LIGHT TOWER BUCKET

(SMART SOLAR- BATTERY- AND DIESEL POWER SYSTEM)



FUEL CONSUMPTION 2.5L EACH DAY/
60 NIGHTS BEFORE REFUELING!
* ASK FOR FULL SPECIFICATIONS

1250 KG

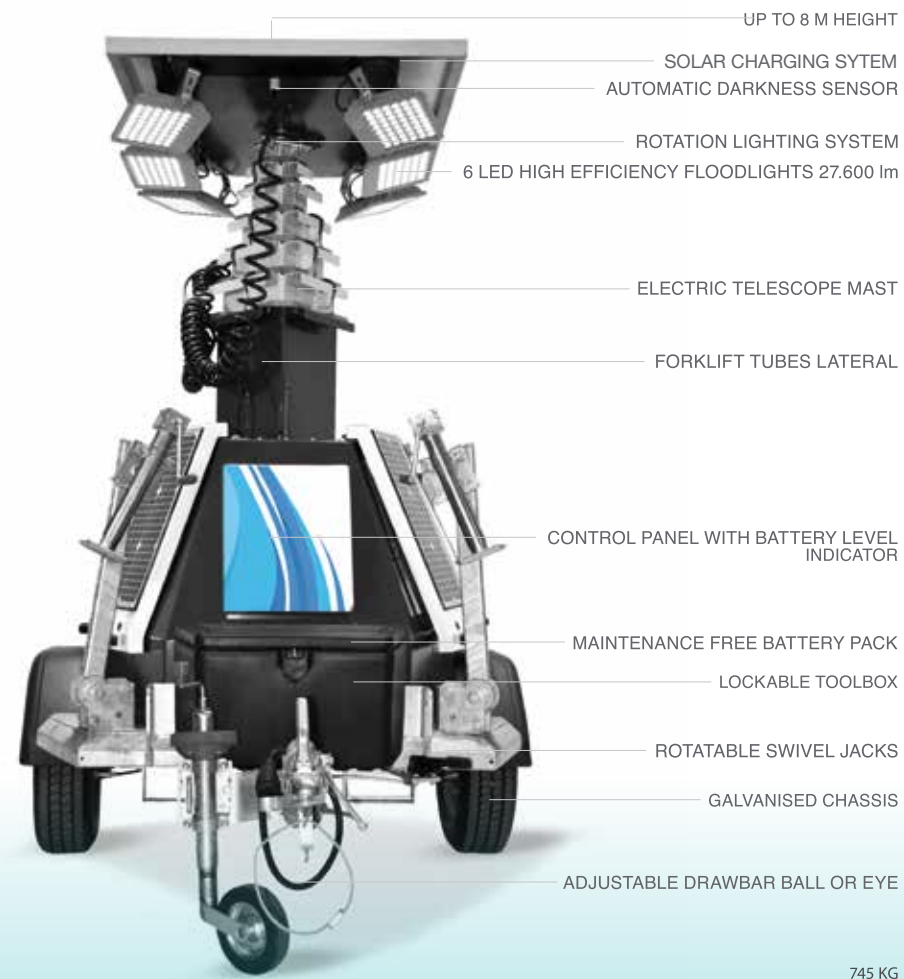


'SOLAR POWERED
CO2 NEUTRAL AND
NOISELESS MOBILE
LIGHTING TRAILER'



LED LIGHT TOWER TRAILER

(FULL BATTERY LED LIGHT TOWER WITH SOLAR SYSTEM)

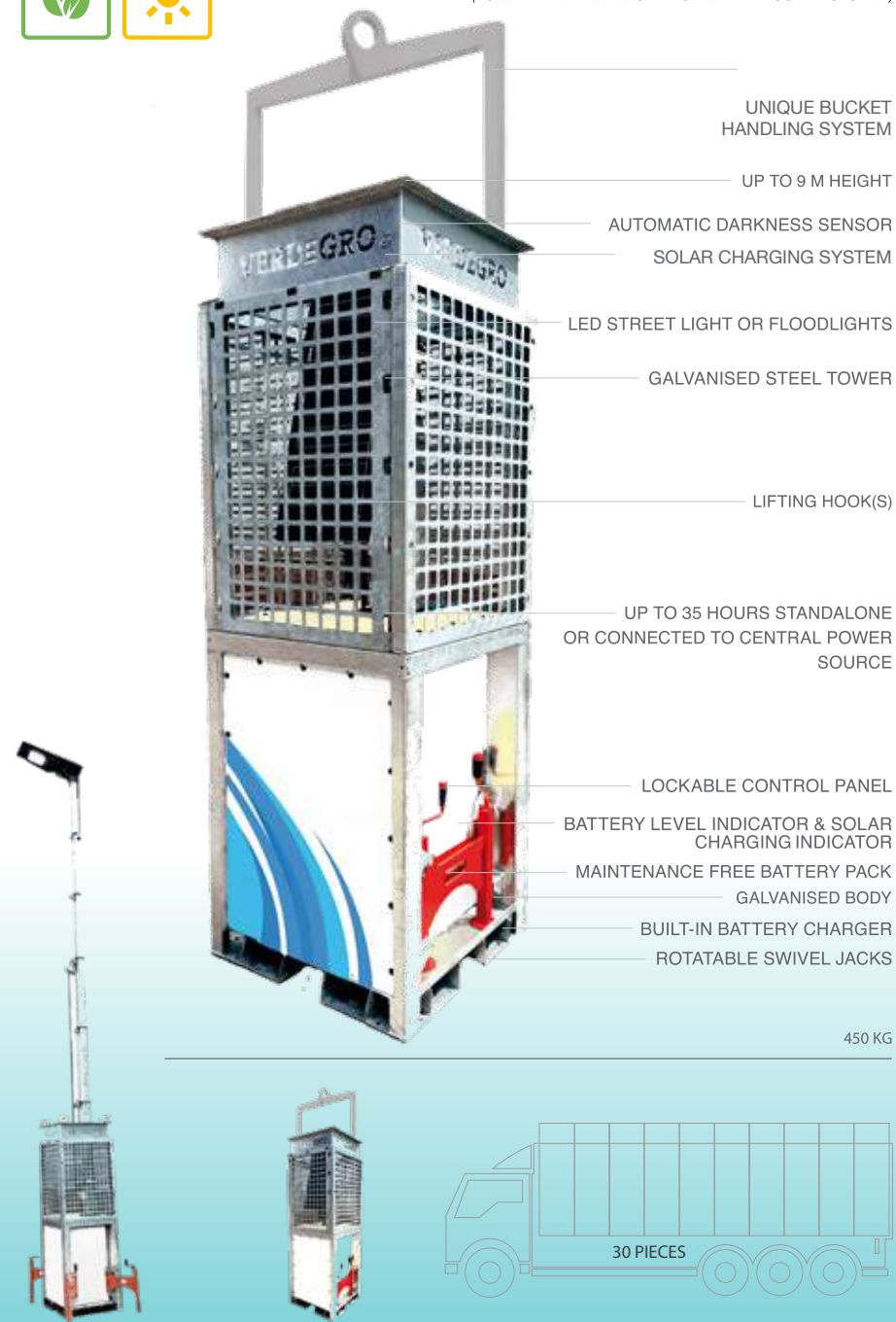


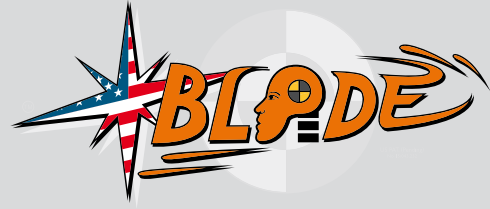
UP TO 30 LED
LIGHT TOWER
UNITS IN ONE
TRUCK LOAD



LED LIGHT TOWER UNIT

(FULL BATTERY LED LIGHT TOWER WITH SOLAR SYSTEM)

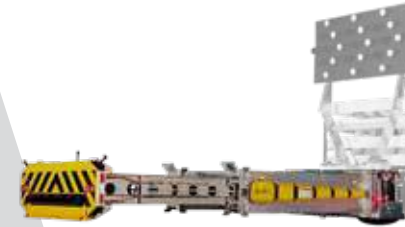




THE No.1 MASH
TRUCK MOUNTED ATTENUATOR

CRASH
ATTENUATOR
TESTED
ACCORDING
NCHRP350 OR
MASH

MASH TESTED



BLADE - TRUCK MOUNTED
ATTENUATOR

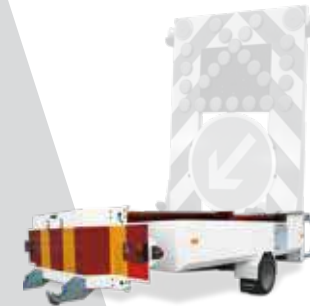


BLADE - TRAILER TRUCK
MOUNTED ATTENUATOR

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



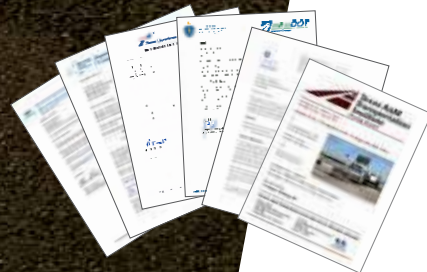
RED X LIGHT BOARD



THE No. 1 MASH TMA

CHECK THE BLADE-TMA
WEBSITE FOR MORE
INFORMATION.

WWW.BLADE-TMA.COM

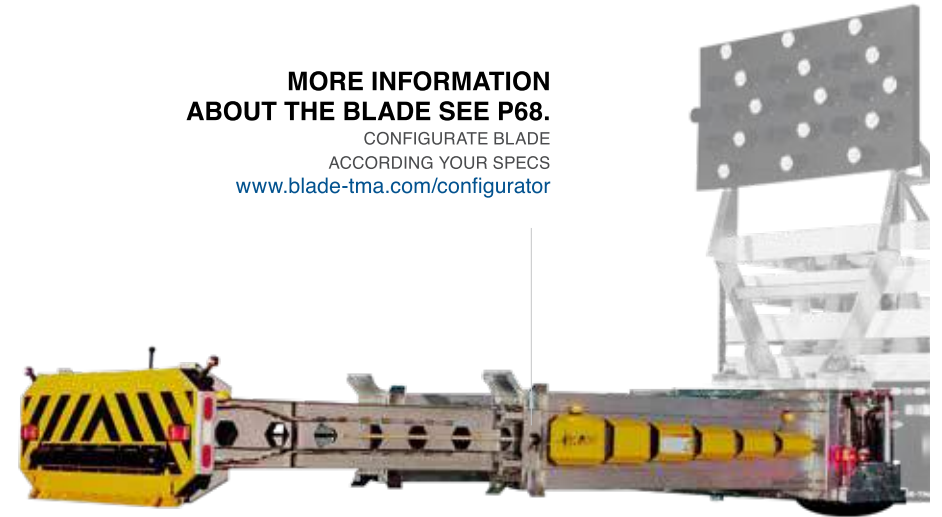


WO PATENT NO 9739328

BLADE - TRUCK MOUNTED ATTENUATOR

**MORE INFORMATION
ABOUT THE BLADE SEE P68.**

CONFIGURATE BLADE
ACCORDING YOUR SPECS
www.blade-tma.com/configurator



TESTED ACCORDING MASH16 TL-3
TESTED ACCORDING THE OPTIMAL UK 110KPH TEST (TD49-07)

WO PATENT NO 9739328

BLADE - TRAILER TRUCK MOUNTED ATTENUATOR



LIGHT TRUCK MOUNTED ATTENUATOR

LTMA (70K)

ARROW BOARDS
FOR LTMA'S
SEE P38!

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 REQUEST

ENERGY ABSORPTION
ALUMINUM MOISTURE
PROOF CARTRIDGE

ENERGY ABSORPTION
REPLACEABLE ALUMINUM TUBES

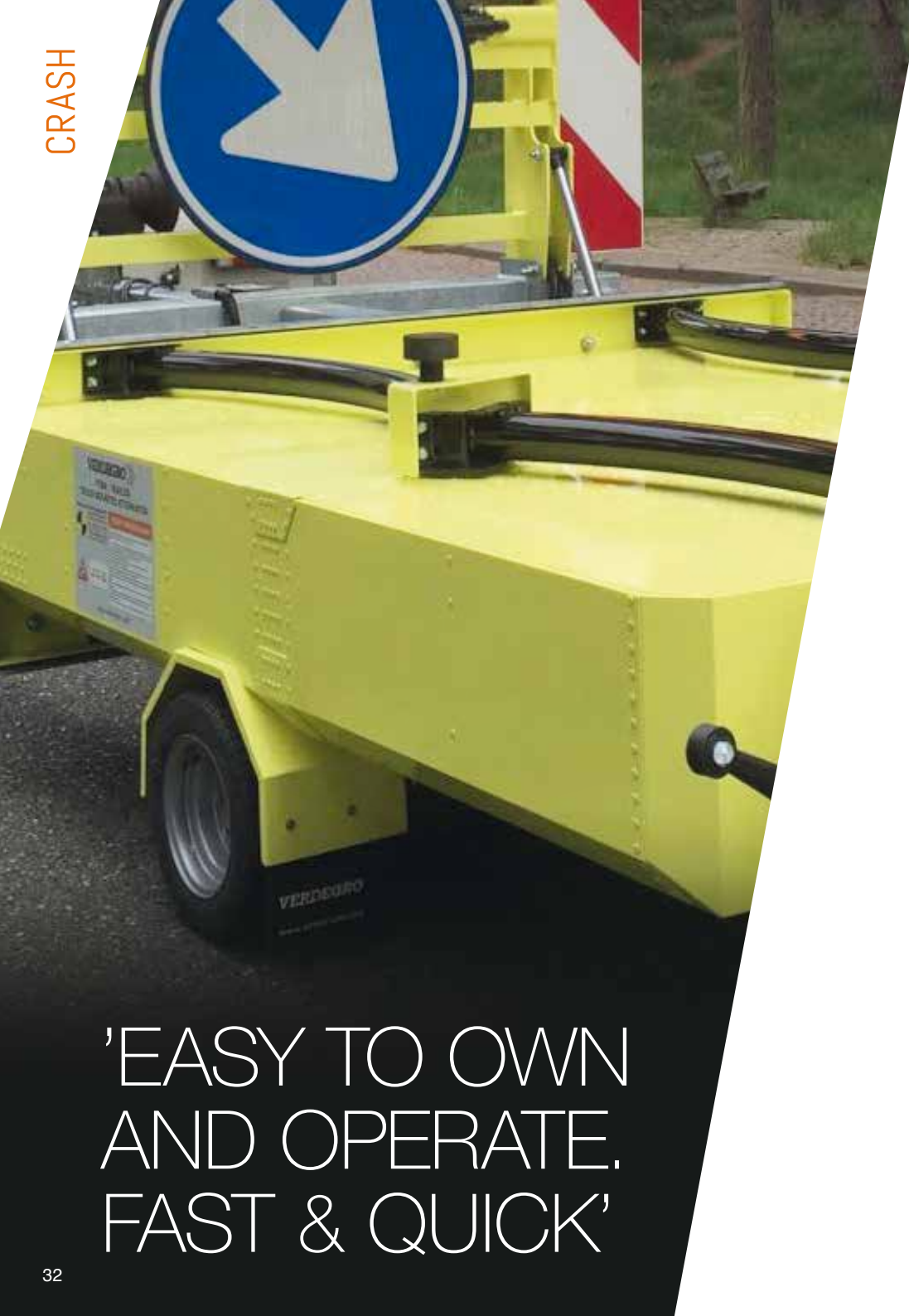
FIRST IMPACT ALUMINUM REPLACEABLE HOOD

REFLECTIVE FOIL ACCORDING YOUR SPECS
ENERGY ABSORPTION ALUMINUM CARTRIDGE

280 KG

FOR LIGHT
VEHICLES TESTED
AND APPROVED





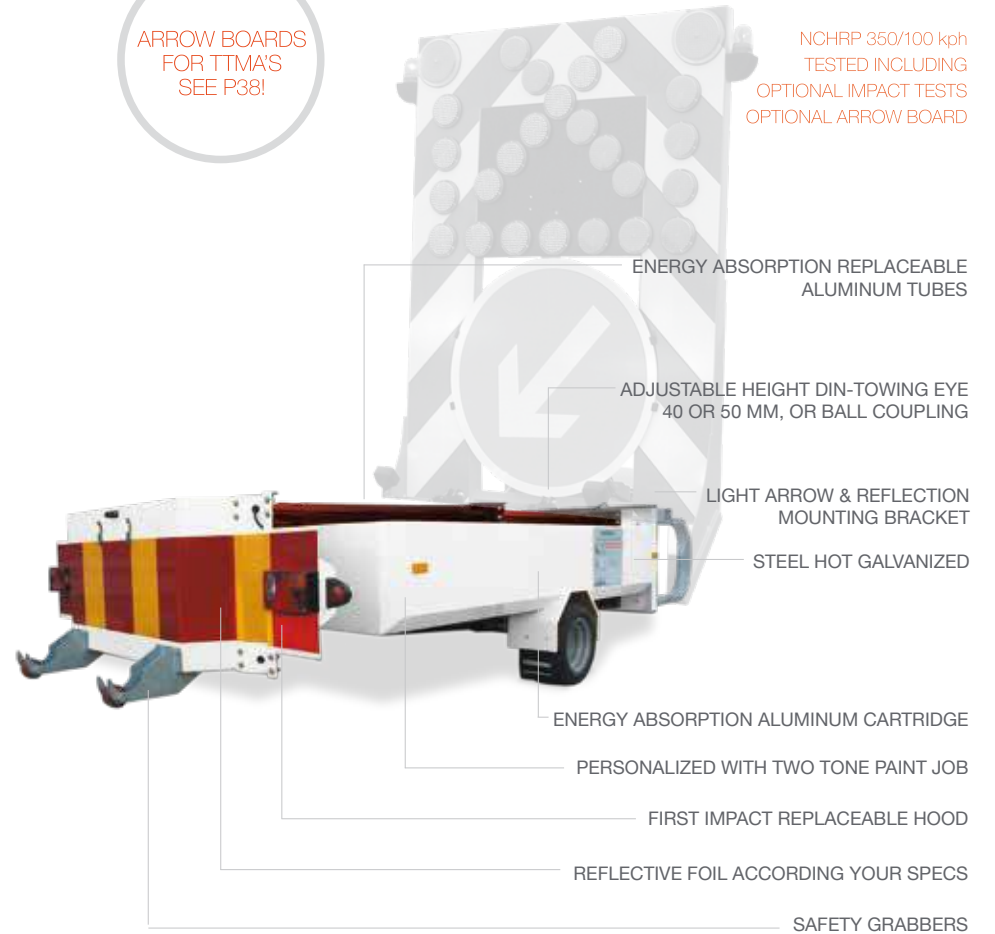
'EASY TO OWN
AND OPERATE.
FAST & QUICK'

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



740 KG



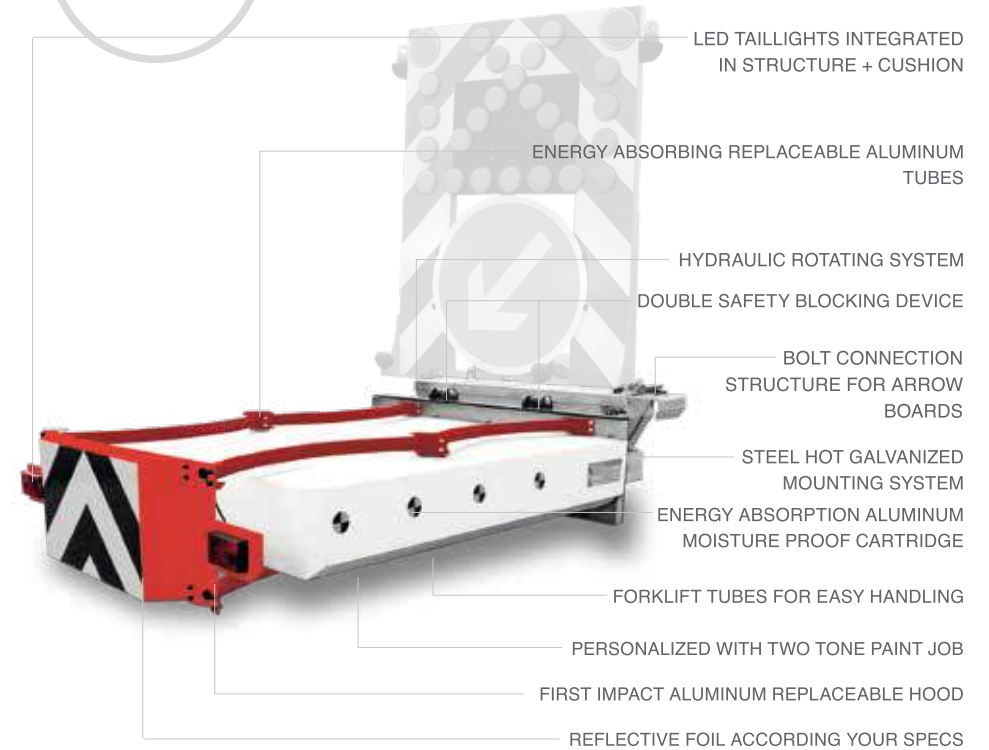


'A UNIQUE DESIGN
PROVEN QUALITY'

TRUCK MOUNTED ATTENUATOR-US

TMA-US (100K)

ARROW BOARDS
FOR TMA'S
SEE P38!



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





'EUROPEAN
STANDARDS,
PROVEN QUALITY'

TRUCK MOUNTED ATTENUATOR-EU

TMA-EU (100K)

ARROW BOARDS
FOR TMA'S
SEE P38!



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



750 KG

WE ONLY USE HIGH
QUALITY ALUMINIUM
INSIDE **INSTEAD OF
NON-DURABLE
PAPER!**



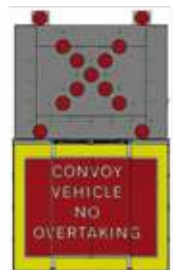


'FUTURE PROOF
TRAFFIC MANAGMENT
EQUIPMENT. '



UK PATENT GB2562892A
HIGHWAYS ENGLAND APPROVED, GT50/ 198/0027/1

RED X LIGHT BOARD



NEW

THE PERFECT
COMBINATION WITH THE
VERDEGRO LIGHT TRUCK
MOUNTED ATTENUATOR
(LTMA 70K).

VERDEGRO MINI ARROW BOARD (LP15)





'ARROW BOARDS
TO FIT YOUR
SPECIFIC NEEDS'

OPTIONAL
ARROW
BOARD?

YES
WE
CAN

ARROW
BOARDS
FOR TMA

CONTACT US AND MAKE
YOUR TMA COMPLETE
SALES@VERDEGRO.COM





'A WIDE RANGE
OF HIGH QUALITY
TRAFFIC SYSTEMS'

VISIT WWW.VERDEGRO.COM/PRODUCTS/TRAFFIC

TRAFFIC

INNOVATION STARTS HERE

A NEW CONCEPT FOR
THE WORLD WIDE MARKET...



SOLAR MESSAGE TRAILER
(S.M.T.)



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



ARROW TRAILERS
(A.T.)



**SOLAR MESSAGE
UNIT (S.M.U.)**



**MOBILE LANE
SIGNALING (M.L.S.)**



RIS SYSTEM
(R.I.S.)



RUMBLE MAT LAYER
(R.M.L.)



AUTO CONE
(A.C.)



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

**NEW
2019
AUTO CONE
V2**

'FULL COLOR SOLAR POWERED MESSAGE TRAILER'



SOLAR MESSAGE TRAILER

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



750 KG (UP TO 1100 KG)



'MOBILE VARIABLE MESSAGE SIGNS'



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 AND WARNING TRAILERS'



ARROW TRAILERS



750 KG (UP TO 1400 KG)

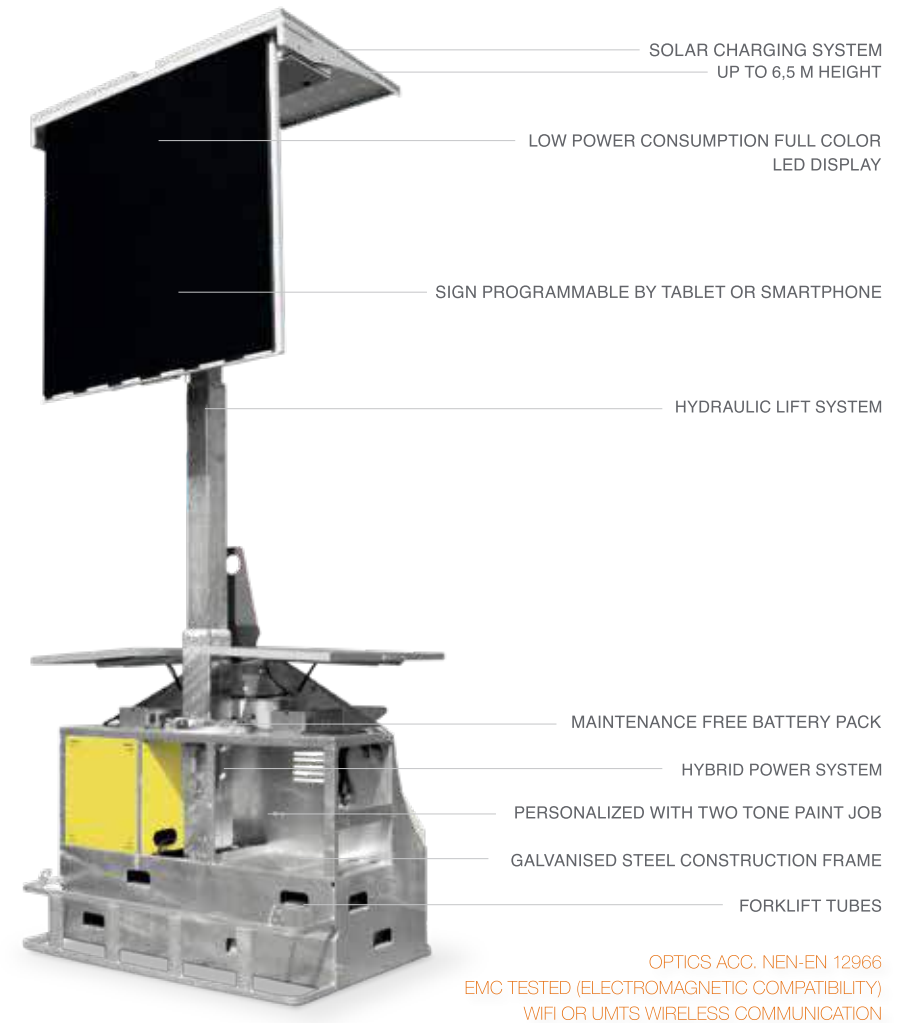


'TEMPORARY STAND ALONE SOLAR OR HYBRID POWERED ROAD INFORMATION PANEL'



SOLAR MESSAGE UNIT

PATENT NO 2001420 (SMU)



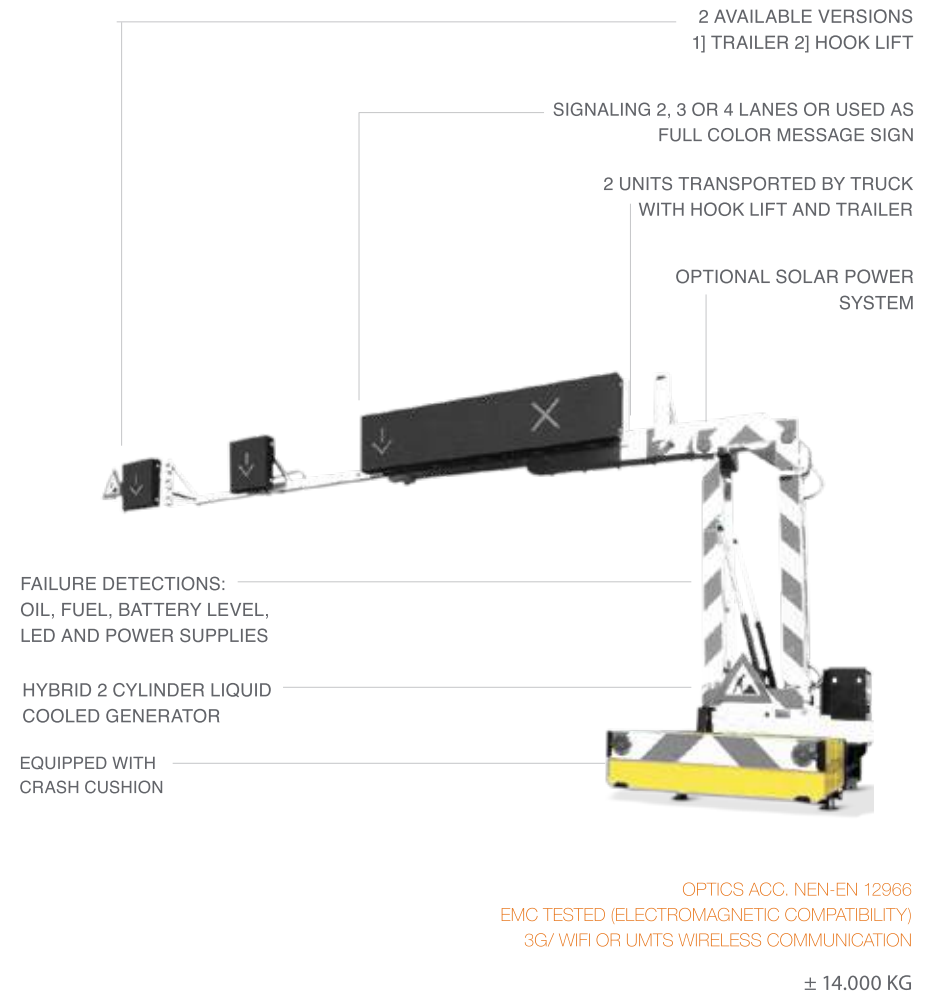
1500 KG

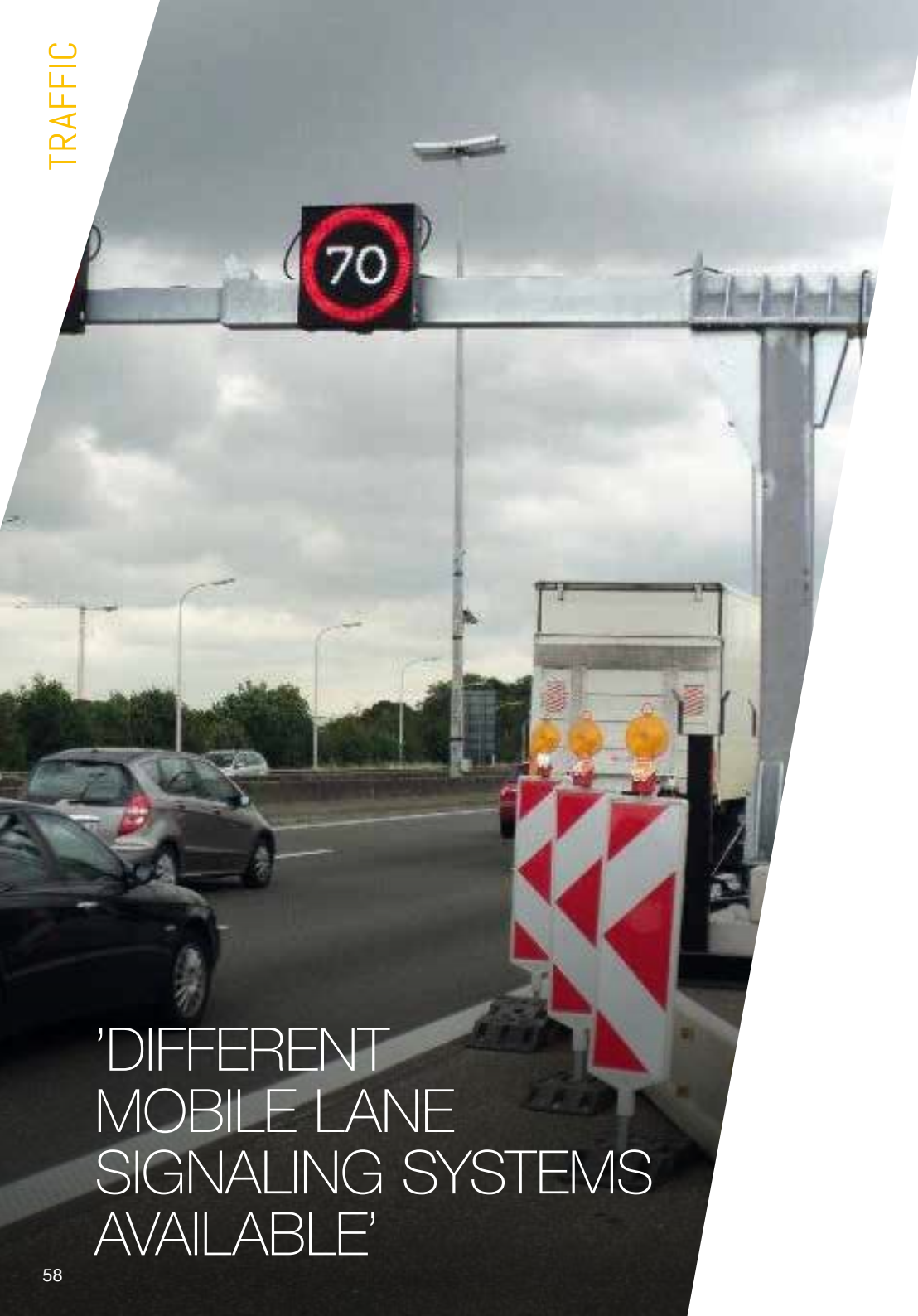




'DIFFERENT MOBILE
LANE SIGNALING
SYSTEMS AVAILABLE'

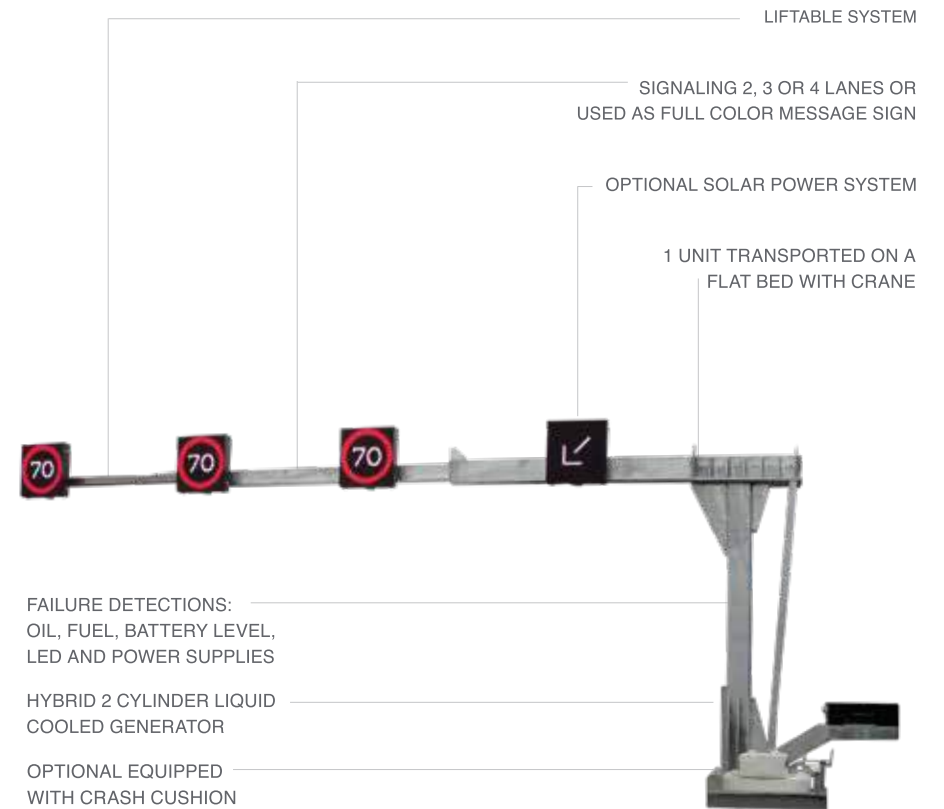
MOBILE LANE SIGNALING (MLS)





'DIFFERENT
MOBILE LANE
SIGNALING SYSTEMS
AVAILABLE'

RIS SYSTEM



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

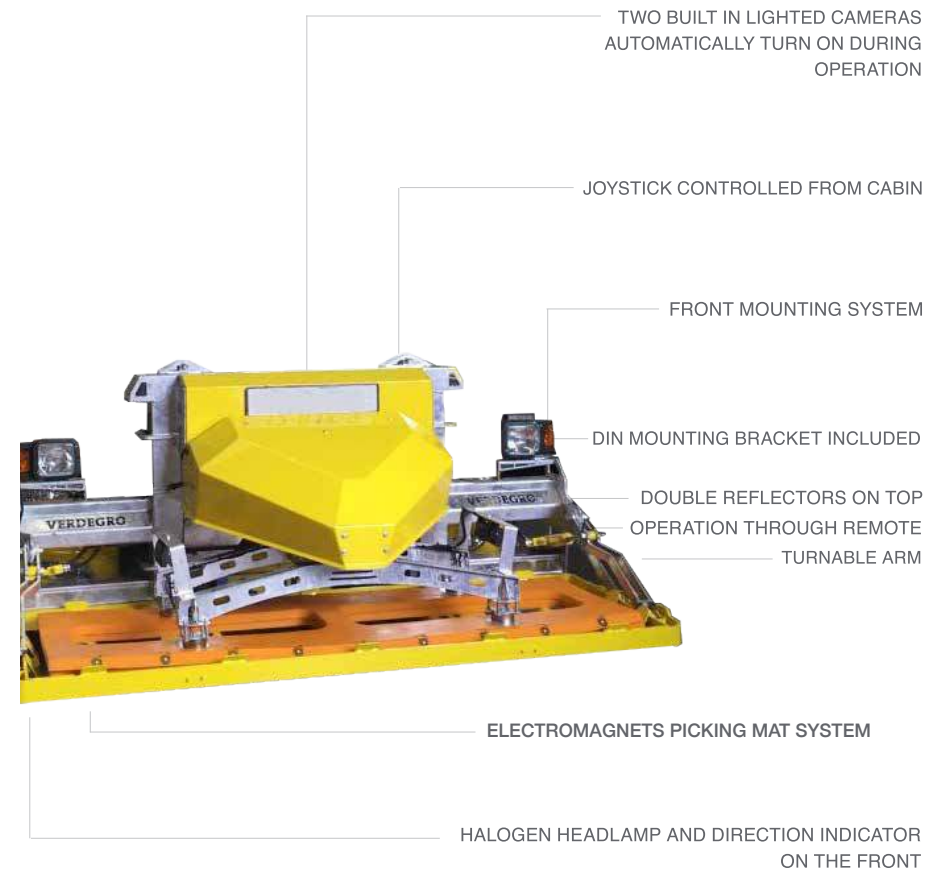
± 10.000 KG



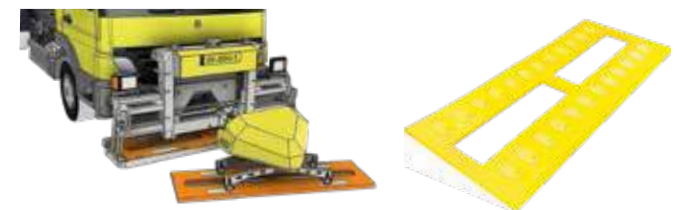


'UNIQUE DESIGN
OPERATIONAL FROM
TRUCK CABIN'

RUMBLE MAT LAYER



R.M.L.



**NEW
2019
AUTO CONE
V2**



— CONE STORAGE (SINGLE OR DOUBLE)

— CONE PICKING & PLACING

— 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

— 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
15 KM/H 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.

'PICK & PLACE
CONES FULL
AUTOMATIC'



PICK & PLACE TMA ARROW WARNING UNIT



'PICK AND
PLACE TMA'





'ENABLES LANE
CLOSURES WITHOUT
ACTUALLY HAVING PEOPLE
OUT ON THE LANE'

'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



SWEATER VERDEGRO

CAP VERDEGRO BLACK



BAG VERDEGRO



QUESTIONS ABOUT
OUR GOODIES?

MAIL: SALES@VERDEGRO.COM

WWW.VERDEGRO.COM

WWW.BLADE-TMA.COM



BLADE SCALE MODEL



CAP BLADE WINTER B



CAP CAMOUFLAGE



CAP BLADE WINTER A

UPLOAD YOUR BLADE PHOTO
AND GET BLADE GOODIES!



WWW.BLADE-TMA.COM



SWEATER BLADE



CAP BLADE GREY

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 to 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!

THE ONLY AVAILABLE TMA WITHIN THE PREFERRED VALUES OF MASH

In fact, the MASH testing guidelines specify that 'longitudinal & lateral occupant ride down acceleration (ORA) should fall below the preferred value of 15.0 g. or at least below the maximum allowed value of 20.49 g.' MASH 16 requires a max. RDA of 20.49 G but prefers a 25% lower value for longitudinal occupant ride down accelerations namely 15.0G! The BLADE-TMA had all test results within the preferred value of 15.0g making it the safest TMA in the market.

THE FIRST TO PASS ALL 4
MANDATORY MASH TESTS WITH 4
IDENTICAL TMA'S RANDOM PICKED
IN JUST ONE WEEK.

BLADE-TMA TL-3

(62.5mph/ 100kph) / TD49/07 (70mph/110kph) Truck Mounted Attenuator (TMA)

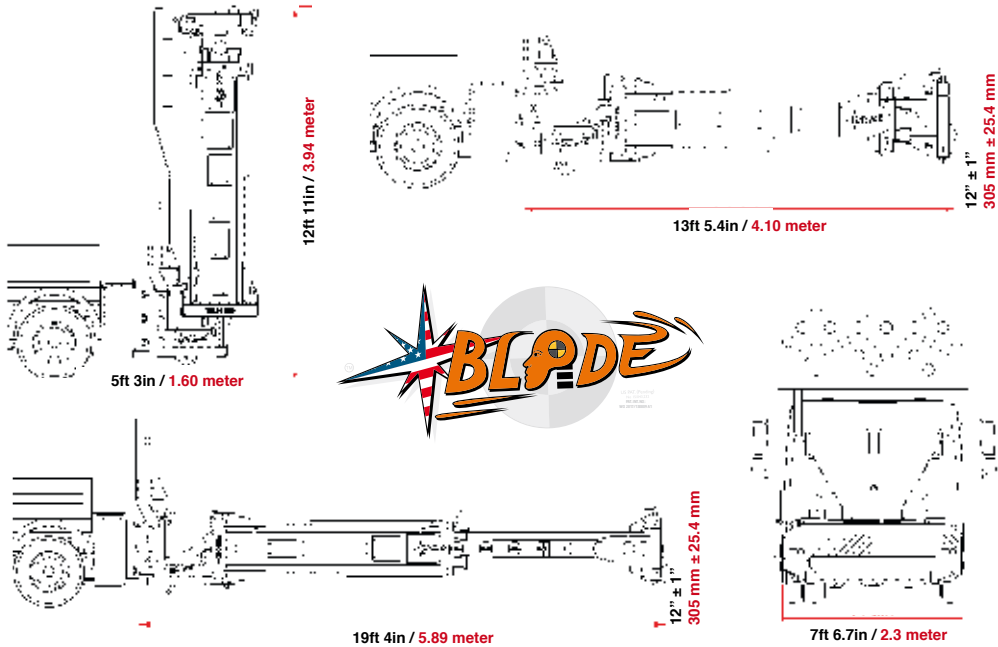
THIS IS WHY YOU WANT THE No.1! Benefits of the BLADE-TMA:

- Only available MASH TMA within the preferred values of 15G acc. MASH!
- The No.1 MASH TMA with the highest safety level.
- Optional tested and passed TD49/07 at 70 mph/110kph
- Protect your workers with the safest, most innovative and highest safety level, Truck Mounted Attenuator available.
- Safely protects and redirects the impacting vehicle away from the “coffin corner” area at the rear of the truck.
- FHWA eligible and DOT approved in most states within the US and Canada
- Best service available by the Verdegro service team.
- Fully assembled BLADE-TMA attenuators shipped and easy to install using the truck bracket, no additional assembly (labor) costs!
- Optional truck bracket for quick and easy installation without any welding or fabrication costs (crash tested truck bracket, required by MASH)
- Innovating new and patented design to absorb energy in retracted position
- Fast deployment within 20 seconds from transport position to full operation mode. Can be deployed while driving at a speed of 50 mph / 80 kph
- Modular design, which results in lower repair costs and easy parts replacement
- No need for an expensive hydraulic raised arrow board frame
- The optional arrow board is mounted on top of the attenuator
- Swap your attenuator + arrow board over to another truck in 10 minutes
- Hydraulic powerpack located in the attenuator.
- Vertical position. Not losing any space on the truck bed as with a fold over attenuator.
- The open design and vertical transport position creates less wind resistance and vibration while driving.
- No hydraulic hoses or extra pivot points in the impact absorbing area.
- No need to install a bracket on your truck body or flatbed! Keep your loading space for what it is meant for!

Standard equipped with:

- Galvanized steel parts
- Aluminum parts powder coated for maximum durability
- Level system
- Quick connect system
- Wired cabin controller with function lights
- Complete electric plugs for easy installation.
- Available with optional Dr. Airbrake automatic braking system, instantly locks brakes of host vehicle upon impact.
- Tested on a host vehicle from 16,010 lbs. (7262KG) with an upper weigh limit of 22,160 lbs. (10.033KG). Tested how it is used in real life! Additional tested up to 40.000lbs/ 18000 kg

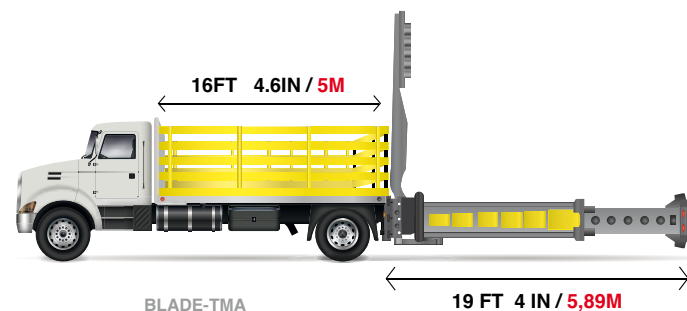
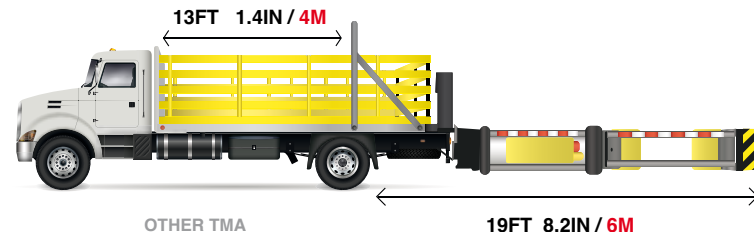
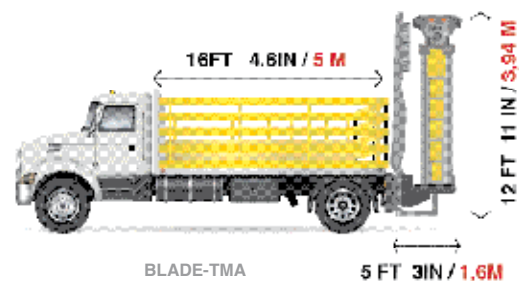
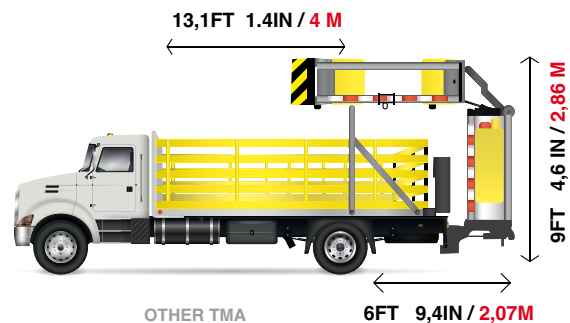
TABLE OF CONTENTS AND DIMENSIONS



Comparison MASH TMA results		MASH Test 3-50*	MASH Test 3-51*	MASH Test 3-52*	MASH Test 3-53*
Max. g-force by MASH	Preferred:	15.0G	15.0G	15.0G	15.0G
	Max:	20.49G	20.49G	20.49G	20.49G
BLADE-TMA G-force (ride down)		12.0G	15.0G	13.8G	11.5G
Other MASH available TMA G-force (ride down)		19.2G	20.1G	18.6G	12.5G
Roll-ahead BLADE-TMA					4420mm
Roll-ahead other MASH TMA (+15% more!)					5121mm
BLADE-TMA G-force reduction compared to another brand!		-/-37,5%	-/-24,9%	-/-25,8%	-/-8%

*FHWA website

Attenuator Truck Benefits



BLADE-TMA BENEFITS

- MORE USEABLE FLOORSPACE
- SHORTER OVERALL LENGTH

All dimensions are indicative, there are no rights to this data

Accessories



(standard)
Quick connect
• level system



Truck bracket



Arrow board
bracket



Truck body



Jockey wheels



Foil

THE ONLY AVAILABLE TMA WITHIN THE PREFERRED VALUES OF MASH

In fact, the MASH testing guidelines specify that 'longitudinal & lateral occupant ride down acceleration (ORA) should fall below the preferred value of 15.0 g. or at least below the maximum allowed value of 20.49 g.' MASH 16 requires a max. RDA of 20.49 G but prefers a 25% lower value for longitudinal occupant ride down accelerations namely 15.0G! The BLADE-TMA had all test results within the preferred value of 15.0g making it the safest TMA in the market.

BLADE-TMA WALL OF FAME

THE NO.1 MASH TMA | IT'S ALL ABOUT SAVING LIVES.



MASH 
BLADE TMA: MASH TL3 ELIGIBLE

VERDEGRO
Manual for assessing
safety hardware
Tested in the USA
PAT. INT. NO: WO 2017/13880Y A1

TESTED, PASSED AND ELIGIBLE

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

PROUDLY TESTED IN THE U.S.A.

THE FIRST AND ONLY TMA WITH
ALL CRASH TEST MOVIES SHOWN
PUBLIC



INCLUDING
THE CABIN
CONTROL
UNIT

THE 39 CRASH TESTS



No.1 ON RESULTS

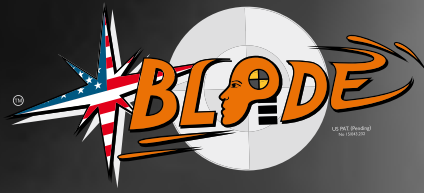
This patented BLADE TMA is proudly full scale crash tested according MASH 2016 at the Texas Transportation Institute (TTI), with unbelievable test results! All the ride down values were within the preferred values

(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.

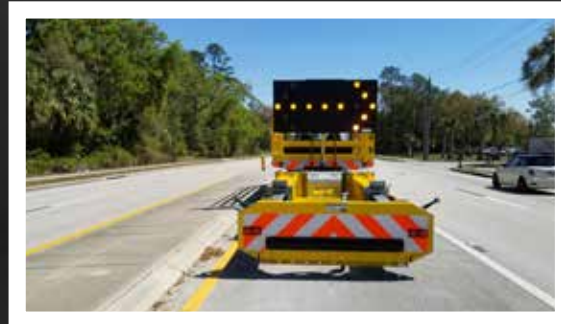
THIS IS WHY!

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



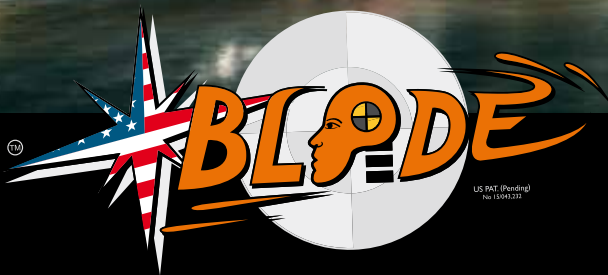


THE WALL OF FAME



THE No.1 MASH TRUCK MOUNTED ATTENUATOR

MASH TESTED, PASSED, FHWA ELIGIBLE AND DOT APPROVED



WWW.BLADE-TMA.COM

The first in the world with test results within the preferred MASH values