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HOWE X HOWE

















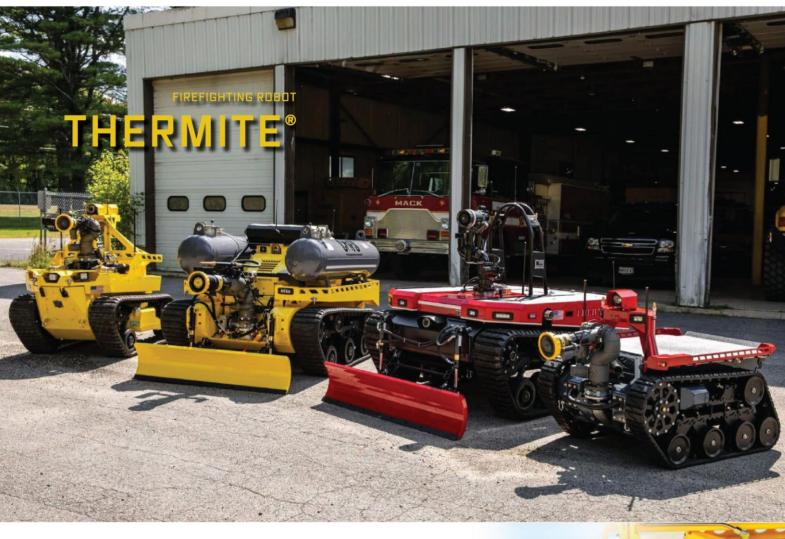


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Email: sales@alqudra-global.com

Website: www.alqudra-global.com



HOWE X HOWE

THERMITE*

Thermite is a compact, high-performance firefighting robot. It is an automated robot that has the ability to fight fires and respond to emergency situations, and is capable of dealing with advanced and dangerous fire situations

that neither humans nor any other machine can handle with the same efficiency.

The Thermite was designed with the highest quality standards with a focus on durability and high endurance on a military base. This device has a long life span and low maintenance, thus reducing costs and ease of maintenance. It is the first responder and fight fires very effectively and keeps firefighters away at a safe distance in order to preserve safety. Their souls, it is their first line of attack and defense.

Thermite is recommended for:

fires in oil and gas fields, chemical and petrochemical facilities, Storage places such as petroleum tanks Petroleum and liquified gas refineries.

Fire hazardous materials and ammunition.

Nuclear reactors
Aircraft and port accidents.

Heavy industry factories such as aluminum, iron and steel factories.

High-rise building and house fires.

Power plants, electricity and pipelines.

Forest fires and open areas where it is difficult to control the fire.

Marine tanker fires it can be used on board tankers, ships and boats in coastal and marine firefighting in general for its ease of transportation and control of its placement in various places.





> CAPABLE OF OUTPUTTING 2,500 GPM FLOW RATE

The Thermite RS3 is a super-high volume, low center of gravity, wide chassis, industrial firefighting robot. The RS3 is remotely operated with a bellypack controller that provides high-definition video feedback for ultimate maneuverability in difficult conditions. The RS3's modular design and wider stance allows additional equipment to be incorporated, including a plow assembly and positive pressure ventilation (PPV) ventilator. Fabricated using industrial-grade steel reinforced rubber tracks, RS3 can navigate rugged terrain and withstand exposure to the extreme elements.

HOWERNDHOWE.COM -

MAX FLOW RATE 2,500 GPM

FIREFIGHTINER

DIMENSIONS

L 120 IN W 65.5 IN H 64.75 IN





THERMITE RS3

FIREFIGHTING ROBOT

SYSTEM

TRACKS Industrial-grade

belted rubber

WINCH

8,000 lb capacity

VIDEO SYSTEM

DTV (standard) FLIR thermal (optional)

POWER TRANSMISSION

Hydrostatic

TYPE

Independent propulsion

MUNITUR

MAKE & MODEL

Elkhart Brass Scorpion

MAX STREAM VERTICAL

+150 ft / 50 m

MAX STREAM HORIZONTAL

+300 ft / 100 m

MAX PSI/BARS

200 psi

FLOW

2,500 gpm

DIMENSIONS

VEHICLE WEIGHT

+/- 3,500 lb depending on attachments

GROUND CLEARANCE

LENGTH

120 in

WIDTH

65.5 in

HEIGHT

64.75 in

SYSTEM PERFORMANCE

RANGE

300 m environment dependent

SPEED 8 mph

MAX GRADE SLOPE

+50%

MAX SIDE SLOPE

35%

ENGINE

MAKE & MODEL

Yanmar 3TNV88C

ENGINE DESCRIPTION

36.8 hp, diesel, 4 stroke, water cooled

FUEL CAPACITY

9 gal

OPTIONAL ATTACHMENTS

- Foam Nozzle
- Foam Tank
- Scene Lighting
- **PPV Ventilator**
 - Max PPV Tilt: 35 degrees above horizontal
 - Flow: 9,200 cfm
- Plow Assembly
 - Height: 13 in
 - Width: 65 in
- Dimensions with Attachments
 - Length: 115 in
 - Width: 65.5 in
 - Height: 87.75 in

FEATURES

- 36.8 hp diesel engine
- 2,500 gpm nozzle
- Stand off range of over 300 m
- Track and vehicle cooling sprayers
- Up to 20 hr of runtime without refueling
- High strength industrial-grade belted rubber tracks
- Provides reconnaissance and situational awareness in high risk areas

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> UNSURPASSED MOBILITY WITH MAXIMUM STANDOFF

Thermite RS1 is the most capable, durable and reliable firefighting robot on the market. The RS1 is remotely operated with a bellypack controller that provides high-definition and infrared video in real-time, allowing the machine to traverse hazardous terrain with maximum control. Manufactured by leaders in robotic innovation, RS1 has the power to push vehicles from its path, the agility to climb stairs and the ability to output a maximum 1,250 gpm. Thermite is designed as an advanced tool to help operators combat fires safely and efficiently.

RIMINE

HOWERNOHOWE.COM -

MAX FLOW RATE 1,250 GPM

FIREFIGHTING ROBOT

DIMENSIONS

L 77.25 IN W 44 IN H 64 IN



THERMITE RS1

FIREFIGHTING ROBOT



ENGINE DESCRIPTION 24 hp, diesel, 4 stroke, water cooled MAKE & MODEL Kohler KDW1003

SYSTEM

TRACKS

Industrial-grade belted rubber

WINCH 5,000 lb capacity POWER TRANSMISSION

Hvdrostatic

TYPE Independent propulsion

VIDEO SYSTEM

DTV (standard) FLIR thermal (optional)

DIMENSIONS

LENGTH 77.25 in

HEIGHT 64 in

WIDTH 44 in

GROUND

CLEARANCE 8 in

VEHICLE WEIGHT

+/- 1,600 lb

MONITOR

MAKE & MODEL Elkhart Brass Cobra MAX STREAM HORIZONTAL

+300 ft / 100 m

FLOW 1,250 gpm

MAX PSI/BARS

200 psi

MAX STREAM VERTICAL

+150 ft / 50 m

FEATURES

- 24 hp diesel engine
- 1,250 gpm nozzle
- Stand off range of over 300 m
- Track and vehicle cooling sprayers
- Up to 20 hrs of runtime without refueling High strength construction grade tracks and road wheels
- Provides reconnaissance and situational awareness in high risk areas
- Optional attachments: foam nozzle and scene lighting

SYSTEM PERFORMANCE

MAX GRADE SLOPE

+50%

300 m environment dependent

MAX SIDE SLOPE **SPEED** 35%

6 mph



> NEXT GENERATION THERMITE® EV2 ALL-ELECTRIC FIREFIGHTING ROBOT

The Thermite® EV2 is an all-electric firefighting robot that provides real-time situational awareness with recording capabilities. Thermite EV2 safely and effectively targets fires with its modular design, including a multi-position nozzle and additional attachments. Instead of a traditional internal combustion engine, the Thermite EV2 is powered with the latest in high-capacity battery technology; and unlike these flammable fuel consuming engines, it does not require oxygen for power, enabling the firefighting robot to move farther into dangerous high-temperature oxygen deprived environments.

LEARN MORE:



HOWERNOHOWE.COM -

HOWERNDHOWE.COM



+1 207.247.2777 **CONTACT** firesales@howeandhowe.com INFO



THERMITE® EV2

ALL-ELECTRIC FIREFIGHTING ROBOT

SYSTEM

TRACKS Industrial-grade belted rubber

WINCH 8,000 lb capacity

VIDEO SYSTEM HD (standard)

DRIVE SYSTEM 200-amp hour battery system Dual Electric Drive

MONITOR

MAKE & MODEL Akron Brass

DeckMaster

MAX STREAM VERTICAL +150 ft / 50 m

MAX STREAM HORIZONTAL +300 ft / 100 m

MAX PSI/BARS 200 psi

FLOW

1250 gpm (4800 lpm)

DIMENSIONS

VEHICLE WEIGHT

2,700 lb depending on attachments

GROUND CLEARANCE

10 in

LENGTH

113 in (plow and winch inc.)

WIDTH

60.5 in

HEIGHT

52 in w/ monitor stowed 73 in w/monitor full extension

OPTIONAL ATTACHMENTS

- Foam Nozzle
- Foam Tank
- Scene Lighting
- CAFS
- Plow Assembly
 - Height: 13 in
 - Width: 65 in
- Multisensor Day/night 360 deg. PTZ with CCTV and Thermal Zoom
- FLIR Thermal

FEATURES

- 1,250 gpm nozzle
- Stand off range of over 300 m
- Track and vehicle cooling sprayers
- Up to 20 hr of runtime
- High strength industrial-grade helted rubber tracks
- Provides reconnaissance and situational awareness in high risk areas

SYSTEM PERFORMANCE

RANGE 300 m environment dependent

35%



> NEXT GENERATION THERMITE® EV1 ALL-ELECTRIC FIREFIGHTING ROBOT

The Thermite® EV1 is an all-electric firefighting robot that provides real-time situational awareness. Thermite EV1 safely and effectively targets fires with its modular design, including a multi-position nozzle and additional attachments. Instead of a traditional internal combustion engine, the Thermite EV1 is powered with the latest in high-capacity battery technology; and unlike these flammable fuel consuming engines, it does not require oxygen for power, enabling the firefighting robot to move farther into dangerous high-temperature oxygen deprived environments.



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THERMITE® EV1

ALL-ELECTRIC FIREFIGHTING ROBOT





SYSTEM

TRACKS Industrial-grade belted rubber

WINCH 5,000 lb capacity

VIDEO SYSTEM HD (standard)

DRIVE SYSTEM 200-amp hour battery system Dual Electric Drive

MONITOR

MRKE & MODEL Elkhart Brass Cobra

MAX STREAM VERTICAL +150 ft / 50 m

MAX STREAM HORIZONTAL

+300 ft / 100 m

MAX PSI/BARS 200 psi / 13 bar

FLOW 1250 gpm

DIMENSIONS

VEHICLE WEIGHT 1,550 lb / 703 kg depending on attachments

GROUND CLEARANCE 6 in / 17.8 cm

LENGTH 75 in / 190.5 cm

WI□TH 38 in / 96.5 cm

HEIGHT

43 in / 109.2 cm (top of halo) 51 in / 129.5 cm (top of antenna)

FEATURES

1,250 gpm nozzle

Stand off range of over 300 m

Track and vehicle cooling sprayers

Up to 20 hr of runtime

High strength industrial-grade belted rubber tracks

Provides reconnaissance and situational awareness in high risk areas

SYSTEM PERFORMANCE

RANGE

300 m environment dependent

SPEED 5 mph / 8 kph

MAX GRADE SLOPE

+50%

MAX SIDE SLOPE

35%



> NEXT GENERATION SWAT-BOT™ EV2 MOBILE BALLISTIC SHIELD

In 2012, Howe & Howe created SWAT-BOT*, a highly mobile, ballistic shield, tracked robot designed to protect an 8 person team from direct gunfire allowing operators a safer, more protected offensive movement. This robot provides effective defensive & offensive abilities in active shooter scenarios, hostage, and standoff situations. After reengineering its original design, SWAT-BOT is now allelectric & utilizes some of the same technologies that are in the unmanned ground vehicles used by the U.S. Army & Thermite® firefighting robots.

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SWAT-BOT™



ELECTRONICS

RADIO CONTROL Handheld control w/Picatinny rail mount

LOUDSPEAKER

SYSTEM

Industrial-grade Belted rubber

WINCH 8,000 lb capacity

UTILITY TOOLS Door breacher Dragon tail

DRIVE SYSTEM 200-amp hour battery system **Dual Electric Drive**

DIMENSIONS

BASE HEIGHT 47 in / 78 in 119 cm / 198 cm (shield deployed)

BASE WIDTH 60.5 in/116 in 154 cm / 294 cm (shield deployed)

BASE LENGTH 97in / 246 cm

WEIGHT 3700 lbs / 1680 kg

Spotlight

LIGHTING

Front

Emergency flasher, dual color

VIDEO/CAMERA OPTIONS

- Video system options
 - M1D PTZ HD Color/Thermal

BALLISTICS OPTIONS

- Ultra high hard steel nose
- Three ballistic glass windows
- Collapsible ballistic shield
 - NIJ 3
 - NIJ 4

SYSTEM PERFORMANCE

REMOTE RANGE 300 m / 984 ft (environment dependent)

8 mph / 13 kph

MAX GRADE SLOPE

MAX SIDE SLOPE

Press News & Global Awards

Press News & Global Awards

The Howe & Howe team have been selected two years in a row for the innovative products they make.

The Thermite® RS3 won a Popular Science 2020/2021 Best of What's New Award for "tackling the toughest blazes.

The top 100 new technologies of 2021 | Popular Science (popsci.com)

* Social Media

- https://www.facebook.com/188236245889/posts/10159582187000890/
- https://www.facebook.com/188236245889/posts/10159459660630890/
- https://www.instagram.com/p/CW54Z9fNhM4/
- https://twitter.com/Textron/status/1468326450877112327
- https://twitter.com/smartercreative/status/1467903415904870404



Abu Dhabi Civil Defense Authority won the International Best Practice award at the Excellence in Fire and Emergency Awards 2021



- https://www.fire-magazine.com/excellence-in-fire-emergency-awards-winners-2021
- https://www.albayan.ae/uae/news/2021-12-08-1.4318451
- https://www.instagram.com/p/CXN1AGkhi5a/
- https://www.instagram.com/p/CXN1YIzFc-P/
- https://twitter.com/FIRE_Editor/status/1466798415992569861?s=20
- https://www.instagram.com/p/CIF4km-hLKJ/?igshid=ZmRIMzRkMDU%3D





Global Press News

- https://www.intelligentliving.co/thermite-rs3-americas-first-firefighting-robot/
- https://www.lafd.org/news/lafd-debuts-rs3-first-robotic-firefighting-vehicle-united-states
- https://edition.cnn.com/2020/10/21/business/first-firefighting-robot-in-america-lafd-trnd/index.html
- https://www.lafd.org/news/lafd-debuts-rs3-first-robotic-firefighting-vehicle-united-states
- https://newatlas.com/robotics/us-first-firefighting-robot-la

Coverage of some of the accidents involving thermite

- https://www.youtube.com/watch?v=2HI603r6BTA
- https://www.youtube.com/watch?v=lrc2ykFRSiQ
- https://www.youtube.com/watch?v=DW4cauOMw1k
- https://www.youtube.com/watch?v=7lYi2onX nc
- https://www.youtube.com/watch?v=PEF0WhRJAJo
- https://www.youtube.com/watch?v=r6xJur4bOScG



Local Press News

Press release from the Ministry of Interior website and social media platforms

https://www.moi.gov.ae/ar/media.center/News/2764416.aspx

Instagram

- https://www.instagram.com/p/BmF4qM5hmmn/?utm_source= ig share sheet&igshid=12fid2nl4heq9&r=wa1
- https://www.instagram.com/tv/CMfPNrqhCM1/?utm_source=i g_web_copy_link

Twitter

https://twitter.com/moiuae/status/1026036045371125760?s=19









Local Press News

Press release from thr Abu Dhabi Civil Defense Authority website and social media platforms



• 18 Affiliates proficient in using the firefighting robot for Abu Dhabi Civil Defense (adcda.gov.ae)

Instagram

- https://www.instagram.com/tv/CKjaS8ihA4P/?utm_source=ig_web_copy_link
- https://www.instagram.com/p/CLQ_V1UhKlY/?utm_source=ig_web_copy_link
- https://www.instagram.com/p/CKd0BZ5BJKW/?utm_source=ig_web_copy_link

Twitter

https://twitter.com/adcd997/status/1360870425706823682?s=20

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ربوت ألى يؤدي مهام 8 رجال إطفاء





















«الدفاع المدني»

Various Press News





For more information about the Thermite robotic firefighting robot



WWW.HOWEANDHOWE.COM

ALQUDRA-GLOBAL.COM

YouTube Channel

THERMITE RS3 ROBOTIC FIREFIGHTING-AR1

THERMITE™ FIREFIGHTING ROBOT

THERMITE RS3 ROBOTIC FIREFIGHTING

THERMITE® RS3-EN

Social Media Channels

HOWE AND HOWE/INSTAGRAM

INSTAGRAM

FACEBOOK

X

LINKEDIN

Contact



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WHY HEN

DESIGNED SCIENTIFICALLY

Designed by fire service veterans and scientists, using advanced fluid mechanics.

SUPERIOR SUPPRESSION

Large droplets, wide coverage and long reach for efficient water mapping.

INCREASED SAFETY

With products like Turbo, HEN increase safety and ergonomics for firefighters.

WIDELY ADOPTED

Trusted by dozens of fire departments, US military and industrial fire departments.

Contact Us

for more details

Email:

sales@alqudra-global.com

Website:

www.alqudra-global.com



Now offering TURBO back pressure increaser

Bundle it with popular
BLADE nozzle and HYDRO shutoff

info@algudra-global.com





HEN TURBO

WORLD'S FIRST Hose Back pressure increaser

- Increases hose stiffness and handling.Reduces dangerous hose and nozzle
- Knocks out kinks and reduces overall hoseline kinking.
- Improves performance on all hoseline construction packages.

AVAILABLE SIZES

25PSI-1.5"NH, 25PSI-1.5"NPSH 25PSI-2.5"NH, 25PSI-2.5"NPSH

HEN HYDRO

HIGH DURABILITY Shutoff with gate-ball valve

- Easier opening and closing.
- Provides improved stream distance and shape when partially closed.
- Large hand bale opening provides improved control.
- All aluminum construction reduces weight and improves balance.

AVAILABLE SIZES

HYDRO 100 SERIES: 1" WATERWAY HYDRO 138 SERIES: 1 3/8" WATERWAY HYDRO 200 SERIES: 2" WATERWAY

HEN *Blade*

WORLD'S FIRST Adjustable smoothbore nozzle

- Large droplet size.
- Go from a solid tight stream to a solid inline blade pattern.
- Quarter-turn stream adjustment optimized for ergonomics.
- Delivering Coverage, Cooling and Contraction of Gasses.

AVAILABLE SIZES

20GPM@100PSI, 45GPM@100PSI, 95GPM@100PSI, 160GPM@50PSI, 185GPM@50PSI, 265GPM@50PSI



A better way to fight fire

HEN BLADE- NOZZLES

Adjustable SmoothBore Nozzle



Adjustable SmoothBore nozzle that allows you to go from a solid tight stream to a solid in-line blade pattern

- Solid tight pattern and solid blade pattern
- Optimized placement and droplet size
- Aluminum alloy body for maximum durability
- NFPA compliant

Available in following sizes:

20GPM@100PSI, 45GPM@100PSI, 95GPM@100PSI, 160GPM@50PSI,185GPM@50PSI and 265GPM@50PSI

High durability shutoff with gate-ball valve, ergonomically designed for superior flow



- · Lightweight ergonomic design.
- Maximize stream efficiency in baled down operations.
- Aluminum alloy body and gate-ball valve for maximum durability
- NFPA compliant

Available in following sizes:

Hydro 100 series: 1" waterway Hydro 138 series: 13/8" waterway Hydro 200 series: 2" waterway





BLADE 20 Combination



Overview

The HEN BLADE combination smoothbore nozzle redefines fire attack by combining the reach and penetration of a traditional smoothbore with the versatility of an in-line blade pattern. With a simple quarter turn, firefighters can transition from a tight solid stream to a wide, high-impact blade stream, delivering large water droplets for maximum efficiency, improved cooling, and enhanced control.

Specifications

| | IMPERIAL | METRIC |
|---------------------|----------|---------|
| Target Flow | 20 gpm | 75 lpm |
| Target Pressure | 100 psi | 7 bar |
| Blade Pattern Angle | 22° | 22° |
| Weight | 1lb | 0.45 kg |
| Length | 5.0 in. | 127 mm |
| Width | 2.5 in. | 64 mm |
| | | |

Coverage

| WIDTH | REACH |
|--------|-------|
| 10' | 25' |
| 8' | 20' |
| 6' | 15' |
| — 4' — | 10' |
| - 2' - | 5' |
| | |



Features

- · Quarter-turn from wide blade pattern to solid tight pattern
- Hard-coat anodized aluminum construction
- · Available with 1" NH and 1" NPSH threads
- Full-time swivel
- NFPA 1960/1964 compliant
- 5-Year Warranty

| 1) |
|----|
| 3) |
| 6) |
| 5) |
| 3) |
| |





BLADE 45Combination Smoothbore Nozzle



Overview

The HEN BLADE combination smoothbore nozzle redefines fire attack by combining the reach and penetration of a traditional smoothbore with the versatility of an in-line blade pattern. With a simple quarter turn, firefighters can transition from a tight solid stream to a wide, high-impact blade stream, delivering large water droplets for maximum efficiency, improved cooling, and enhanced control.

Specifications

| | IMPERIAL | METRIC |
|---------------------|----------|---------|
| Target Flow | 45 gpm | 170 lpm |
| Target Pressure | 100 psi | 7 bar |
| Blade Pattern Angle | 22° | 22° |
| Weight | 1lb | 0.45 kg |
| Length | 5.5 in. | 140 mm |
| Width | 2.5 in. | 64 mm |

Coverage

| WIDTH | REACH |
|--------|-------|
| 10' | 25' |
| 8' | 20' |
| 6' | 15' |
| — 4' — | 10' |
| - 2' - | 5' |
| | |

Features

- Quarter-turn from wide blade pattern to solid tight pattern
- · Hard-coat anodized aluminum construction
- Available with 1" NH, 1" NPSH, 1.5" NH, & 1.5" NPSH threads
- · Full-time swivel
- NFPA 1960/1964 compliant
- 5-Year Warranty

| FLOW RATE GPM (LPM) |
|---------------------|
| 32 (121) |
| 39 (149) |
| 45 (172) |
| 51 (192) |
| 56 (210) |
| |









Overview

The HEN BLADE combination smoothbore nozzle redefines fire attack by combining the reach and penetration of a traditional smoothbore with the versatility of an in-line blade pattern. With a simple quarter turn, firefighters can transition from a tight solid stream to a wide, high-impact blade stream, delivering large water droplets for maximum efficiency, improved cooling, and enhanced control.

Specifications

| | IMPERIAL | METRIC |
|---------------------|----------|---------|
| Target Flow | 95 gpm | 350 lpm |
| Target Pressure | 100 psi | 7 bar |
| Blade Pattern Angle | 22° | 22° |
| Weight | 1.2 lb | 0.54 kg |
| Length | 5.7 in. | 145 mm |
| Width | 2.7 in. | 69 mm |
| | | |

Coverage

| WIDTH | REACH |
|--------|-------|
| 10' | 25' |
| 8' | 20' |
| 6' | 15' |
| — 4' — | 10' |
| - 2' - | 5' |

Features

- Quarter-turn from wide blade pattern to solid tight pattern
- · Hard-coat anodized aluminum construction
- Available with 1.5" NH and 1.5" NPSH threads
- Full-time swivel
- NFPA 1960/1964 compliant
- 5-Year Warranty

| PRESSURE PSI (BAR) | FLOW RATE GPM (LPM) |
|--------------------|---------------------|
| 50 (3.4) | 67 (253) |
| 75 (5.2) | 82 (310) |
| 100 (6.9) | 95 (358) |
| 125 (8.6) | 106 (400) |
| 150 (10.3) | 116 (438) |
| | |









Overview

The HEN BLADE combination smoothbore nozzle redefines fire attack by combining the reach and penetration of a traditional smoothbore with the versatility of an in-line blade pattern. With a simple quarter turn, firefighters can transition from a tight solid stream to a wide, high-impact blade stream, delivering large water droplets for maximum efficiency, improved cooling, and enhanced control.

Specifications

| | IMPERIAL | METRIC |
|---------------------|----------|---------|
| Target Flow | 160 gpm | 650 lpm |
| Target Pressure | 50 psi | 4 bar |
| Blade Pattern Angle | 22° | 22° |
| Weight | 1.7 lb | 0.77 kg |
| Length | 6.6 in. | 168 mm |
| Width | 3.2 in. | 81 mm |
| | | |

Coverage

| WIDTH | REACH |
|--------|-------|
| 19' | 50' |
| 16' | 40' |
| 12' | 30' |
| — 8' — | 20' |
| - 4' - | 10' |

Features

- Quarter-turn from wide blade pattern to solid tight pattern
- Hard-coat anodized aluminum construction
- · Available with 1.5" NH and 1.5" NPSH threads
- Full-time swivel
- NFPA 1960/1964 compliant
- 5-Year Warranty

| PRESSURE PSI (BAR) | FLOW RATE GPM (LPM) |
|--------------------|---------------------|
| 30 (2.1) | 124 (470) |
| 40 (2.8) | 143 (543) |
| 50 (3.4) | 160 (607) |
| 60 (4.1) | 176 (665) |
| 70 (4.8) | 190 (719) |







BLADE 185 Combination Smoothbore Nozzle



The HEN BLADE combination smoothbore nozzle redefines fire attack by combining the reach and penetration of a traditional smoothbore with the versatility of an in-line blade pattern. With a simple quarter turn, firefighters can transition from a tight solid stream to a wide, high-impact blade stream, delivering large water droplets for maximum efficiency, improved cooling, and enhanced control.

Specifications

| | IMPERIAL | METRIC |
|---------------------|----------|---------|
| Target Flow | 185 gpm | 750 lpm |
| Target Pressure | 50 psi | 4 bar |
| Blade Pattern Angle | 22° | 22° |
| Weight | 1.7 lb | 0.77 kg |
| Length | 6.6 in. | 168 mm |
| Width | 3.2 in. | 81 mm |

Coverage

| WIDTH | REACH |
|----------------------------|-------|
| 19' | 50' |
| 16' | 40' |
| 12' | 30' |
| 8' | 20' |
| - 4' - | 10' |
| | |



Features

- Quarter-turn from wide blade pattern to solid tight pattern
- Hard-coat anodized aluminum construction
- Available with 1.5" NH and 1.5" NPSH threads
- Full-time swivel
- NFPA 1960/1964 compliant
- 5-Year Warranty

| PRESSURE PSI (BAR) | FLOW RATE GPM (LPM) |
|--------------------|---------------------|
| 30 (2.1) | 143 (541) |
| 40 (2.8) | 165 (625) |
| 50 (3.4) | 185 (698) |
| 60 (4.1) | 202 (765) |
| 70 (4.8) | 218 (826) |
| | |







BLADE 265 Combination Smoothbore Nozzle



Overview

The HEN BLADE combination smoothbore nozzle redefines fire attack by combining the reach and penetration of a traditional smoothbore with the versatility of an in-line blade pattern. With a simple quarter turn, firefighters can transition from a tight solid stream to a wide, high-impact blade stream, delivering large water droplets for maximum efficiency, improved cooling, and enhanced control.

Specifications

| | IMPERIAL | METRIC |
|---------------------|----------|----------|
| Target Flow | 265 gpm | 1075 lpm |
| Target Pressure | 50 psi | 4 bar |
| Blade Pattern Angle | 22° | 22° |
| Weight | 1.9 lb | 0.86 kg |
| Length | 7.0 in. | 178 mm |
| Width | 3.4 in. | 86 mm |
| | | |

Coverage

| WIDTH | REACH |
|--------|-------|
| 19' | 50' |
| 16' | 40' |
| 12' | 30' |
| — 8' — | 20' |
| - 4' - | 10' |
| | |

Features

- Quarter-turn from wide blade pattern to solid tight pattern
- · Hard-coat anodized aluminum construction
- Available with 1.5" NH, 1.5" NPSH, 2.5" NH, & 2.5" NPSH threads
- Full-time swivel
- NFPA 1960/1964 compliant
- 5-Year Warranty

| PRESSURE PSI (BAR) | FLOW RATE GPM (LPM) |
|--------------------|---------------------|
| 30 (2.1) | 205 (776) |
| 40 (2.8) | 237 (896) |
| 50 (3.4) | 265 (1002) |
| 60 (4.1) | 290 (1098) |
| 70 (4.8) | 313 (1186) |







HYDRO 100 Shutoff



Overview

HYDRO shutoff with 1-inch waterway. High durability shutoff with full-ball valve, designed for superior flow performance while minimizing resistance and enhancing firefighter control. The HYDRO shutoff provides superior flow with less waterway turbulence.

Features

- Gate-ball design maintains stream quality when baled-down
- Lightweight
- Hard-coat anodized aluminum body and all-metal ball
- Inlet Threads: 1" NH, 1" NPSH, 1.5" NH, and 1.5" NPSH
- Outlet Threads: 1" NH, 1" NPSH, 1.5" NH, and 1.5" NPSH
- · Full-time swivel
- · NFPA 1964 compliant
- 5 Year Warranty
- · Pistol grip available

Specifications

| | IMPERIAL | METRIC |
|---------------------------|---------------|----------------|
| Waterway Size | 1.00 in. | 25 mm |
| Rated Pressure | 200 psi | 14 bar |
| Weight (1" / 1.5" thread) | 1.2 / 1.3 lbs | 0.54 / 0.59 kg |
| Length (1" / 1.5" thread) | 4.7 / 4.7 in. | 1119 / 119 mm |
| Width (1" / 1.5" thread) | 3.5 / 3.5 in. | 89 / 89 mm |
| Height (1" / 1.5" thread) | 4.1 / 4.4 in. | 105 / 112 mm |





VEGNOUS VI

GLOBAL LLee

HYDRO 138 Shutoff



Overview

HYDRO shutoff with 1.375 inch waterway. High durability shutoff with full-ball valve, designed for superior flow performance while minimizing resistance and enhancing firefighter control. The HYDRO shutoff provides superior flow with less waterway turbulence.

Features

- · Gate-ball design maintains stream quality when baled-down
- Lightweight
- · Hard-coat anodized aluminum body and all-metal ball
- Inlet Threads: 1.5" NH, 1.5" NPSH, 2.5" NH, and 2.5" NPSH
- Outlet Threads: 1.5" NH, and 1.5" NPSH
- · Full-time swivel
- NFPA 1964 compliant
- 5 Year Warranty
- · Pistol grip available

Specifications

| | IMPERIAL | METRIC |
|-----------------------------|---------------|----------------|
| Waterway Size | 1.375 in. | 35 mm |
| Rated Pressure | 200 psi | 14 bar |
| Weight (1.5" / 2.5" thread) | 1.9 / 2.3 lbs | 0.88 / 1.04 kg |
| Length (1.5" / 2.5" thread) | 5.4 / 5.4 in. | 137 / 137 mm |
| Width (1.5" / 2.5" thread) | 4.2 / 4.2 in. | 107 / 107 mm |
| Height (1.5" / 2.5" thread) | 4.9 / 5.4 in. | 124 / 137 mm |



HEN

HYDRO 200 Shutoff



Overview

HYDRO shutoff with 2 inch waterway. High durability shutoff with full-ball valve, designed for superior flow performance while minimizing resistance and enhancing firefighter control. The HYDRO shutoff provides superior flow with less waterway turbulence.

Features

- Gate-ball design maintains stream quality when baled-down
- Lightweight
- Hard-coat anodized aluminum body and all-metal ball
- Inlet Threads: 1.5" NH, 1.5" NPSH, 2.5" NH, and 2.5" NPSH
- · Outlet Threads: 1.5" NH, and 1.5" NPSH
- · Full-time swivel
- NFPA 1964 compliant
- · 5 Year Warranty
- · Pistol grip available

Specifications

| | IMPERIAL | METRIC |
|-----------------------------|---------------|---------------|
| Waterway Size | 2 in. | 51 mm |
| Rated Pressure | 200 psi | 14 bar |
| Weight (1.5" / 2.5" thread) | 1.9 / 3.6 in. | 0.88 / 1.6 kg |
| Length (1.5" / 2.5" thread) | 5.4 / 5.9 in. | 137 / 150 mm |
| Width (1.5" / 2.5" thread) | 4.2 / 4.7 in. | 107 / 119 mm |
| Height (1.5" / 2.5" thread) | 4.9 / 5.4 in. | 124 / 137 mm |







TURBO 1.5" Back Pressure Increaser



Overview

The TURBO 1.5" increases the back pressure by an additional 25-30 PSI in the handline stretch for 150-185 GPM nozzles.

Turbocharge the performance of 1.75-inch hose when using a 50 PSI nozzle pressure yielding impressive benefits across all essential metrics, from higher pressure hose to premium low-pressure hose design.

Streamline essential members and handline fire stream development tasks on the fire ground, enhancing suppression and safety.

Features

- Increase hose pressure by 25-30 PSI with 150-185 GPM nozzles
- · Increase hose stiffness and handling
- · Reduce dangerous hose and nozzle whip
- Hard-coat anodized aluminum construction
- · Available with 1" NH and 1" NPSH threads
- NFPA 1960/1964 compliant
- 5-Year Warranty

Specifications

| IMPERIAL | METRIC |
|----------|--|
| 200 psi | 14 bar |
| 0.54 lb | 0.24 kg |
| 2.4 in. | 60 mm |
| 2.5 in. | 64 mm |
| 2.5 in. | 64 mm |
| | 200 psi 0.54 lb 2.4 in. 2.5 in. |

Pressure Drop at Given Flow Rate

| PRESSURE PSI (BAR) | FLOW RATE GPM (LPM) |
|--------------------|---------------------|
| 22 (1.5) | 150 (568) |
| 25 (1.7) | 160 (606) |
| 28 (1.9) | 170 (644) |
| 31 (2.1) | 180 (681) |
| 35 (2.4) | 190 (719) |
| | |

HEN

TURBO 2.5"

Back Pressure Increaser



Overview

The TURBO 2.5" increases the back pressure by an additional 25-30 PSI in the handline stretch for 250-275 GPM nozzles.

Turbocharge the performance of 2.5-inch hose when using a 50 PSI nozzle pressure yielding impressive benefits across all essential metrics, from higher pressure hose to premium low-pressure hose design.

Streamline essential members and handline fire stream development tasks on the fire ground, enhancing suppression and safety.

Features

- Increase hose pressure by 25-30 PSI with 250-275 GPM nozzles
- Increase hose stiffness and handling
- · Reduce dangerous hose and nozzle whip
- Inlet Threads: 2.5" NH, and 2.5" NPSH
- Outlet Threads: 2.5" NH, and 2.5" NPSH
- NFPA 1964 compliant
- 5 Year Warranty

Specifications

| 14 bar |
|---------|
| 0.70 kg |
| 87 mm |
| 94 mm |
| 94 mm |
| |

Pressure Drop at Given Flow Rate

| PRESSURE PSI (BAR) | FLOW RATE GPM (LPM) |
|--------------------|---------------------|
| 22 (1.5) | 245 (927) |
| 24 (1.7) | 255 (965) |
| 26 (1.8) | 265 (1003) |
| 28 (1.9) | 275 (1041) |
| 30 (2.1) | 285 (1079) |

OFFICIAL DISTRIBUTOR IN THE MIDDLE EAST FOR HOWE AND HOWE

Contact Us for more details

Email: sales@alqudra-global.com

Website: www.alqudra-global.com



The Turtle Fire System was founded in response to the growing concern of electric vehicle fires and the need for a simple, safe, and effective water delivery system. Its unique design and operation allows for applications beyond EV fires, such as internal combustion engine fires, cooling fuel storage tanks, deep-seated fires, exposure protection, hazmat incidents and more.

VOLUME

Full spectrum nozzle capable of effectively delivering 75 to 500+ GPM and anywhere in between.

SAFE

Once deployed, the Turtle Fire System operates unmanned, reducing exposure to fire and harmful toxic gasses.

EFFECTIVE

Low-profile design easily deployed under a vehicle to deliver copious amounts of water directly onto an EV battery case.

DURABLE

Made in the USA of 100% welded American steel. Its strength is reinforced by its patent pending dome shape.

SIMPLE

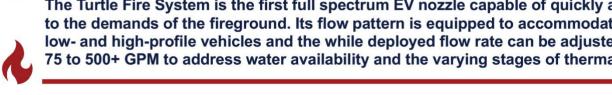
Able to be assembled and deployed rapidly with minimal manpower.

FORCE MULTIPLIER

The Turtle Fire System enables departments to repurpose manpower and do more with less.



The Turtle Fire System is the first full spectrum EV nozzle capable of quickly adapting to the demands of the fireground. Its flow pattern is equipped to accommodate both low- and high-profile vehicles and the while deployed flow rate can be adjusted from 75 to 500+ GPM to address water availability and the varying stages of thermal runaway.







OFFICIAL DISTRIBUTOR IN THE MIDDLE EAST FOR HOWE AND HOWE





- Patent pending dome shape and hole placement allows for full coverage of EV battery case.
- Hole sizes emit a column of water which allows for rapid heat absorption and permits the passing of debris.
- 3 Slide plate allows for maneuverability across various surfaces.
- A carabiner can be attached to the front loop to assist with deployment.

- Pike poles can utilize the side handles to push or reposition the Turtle Fire System.
- 6 Cam and groove connection allows for quick assembly and includes a secondary lock as an added safety measure.
- Powder coated steel pipe provides leverage for deployment, added heat barrier for the hose, and ensures that water flow is maintained should the tires fail causing the vehicle to drop.

www.algudra-global.com

MINI TURTLE FIRE SYSTEM

EV NOZZLE





The Mini TURTLE™ Fire System offers the same key benefits of our original nozzle but in a more compact form.

At 33% smaller and supplied with two 1½" pipes, the Mini Turtle Fire System has been optimized for the following scenarios:

- Ferries and tunnels operating with limited pump pressures
- A standpipe in a parking structure to accommodate a gated wye for a handline
- Limited water supply
- Engine storage restrictions

VOLUME

Capable of effectively delivering low to high flows up to 300+ GPM.

DURABLE

Made of welded steel. Its strength is reinforced by its patented dome shape.

SAFE

Once deployed, the Mini Turtle nozzle operates unmanned, reducing exposure to fire and harmful toxic gasses.

SIMPLE

Able to be assembled and deployed rapidly with minimal manpower.

EFFECTIVE

At only 2.5" high, the Mini Turtle is easily deployed under a lowprofile electric vehicle.

FORCE MULTIPLIER

Enables departments to repurpose manpower and do more with less.



Operating Pressures

| | Pump PSI | | |
|-------------|----------|-----|-----|
| | 100 | 125 | 150 |
| Hose Size | | GPM | |
| 100' of 1¾" | 250 | 285 | 315 |
| 100' of 2" | 320 | 350 | 380 |
| 100' of 2½" | 343 | 375 | 410 |



HOSE-PULL®

Operation and technical support device

HOSE-PULL® ® is an adaptable and very robust technical support tool. The device assists personnel on the field by significantly improving the mobility of a large and long hose lays. With their omnidirectional wheels, it can move all over different types of surface. By reducing hoseline ground friction, it eases their movements on the fireground areas and reduces physical stress while handling it.

HOSE-PULL® highlights



Simplifying fireground hose lay movements



Adaptable to different types of surface



Large weight capacity



Quick set up (less than 5 sec)



Fully engineered, manufactured, and assembled at our workshop



Minimal maintenance required (high pressure water washing)



Adaptable to different hose line diameters



Easy, safe and fast assembly through the two-in-one system Slic Pins (composed of an axle and a pin)









OFFICIAL DISTRIBUTOR IN THE MIDDLE EAST FOR HOWE AND HOWE Contact Us for more details

Email: sales@alqudra-global.com **Website:** www.algudra-global.com

FEATURES

PARAMETER DESCRIPTION

Cradle + Wheels PA66 GF-30

materials

Component materials Stainless steel 304

Diameter Up to 70 mm (approx. 2 3/4 inches)

Up to $110\ mm$ (approx. $4\ 1/2$ inches)

Max Temperature80°C (176°F)Min Temperature- 20°C (-4°F)Wheels colorsRed / BlackCradle colorsRed / Black

Warranty 1-year parts and labour







ACCESSORIES & OPTIONS

HOSE-PULL double format by adding a cradle using a connecting ring



- Polymer made dual cradleModularity for -
- Adaptable to different hose line sizes
- Available diameters:

70 mm (2 3/4 inches)

110 mm (4 1/2 inches)



Contact Us

for more details

Email:

sales@alqudra-global.com

Website:

www.alqudra-global.com

Simple HOSE-PULL®

HOSE-PULL® is made of a polymer cradle and two omnidirectional wheels allowing it to maneuver on different types of surface.



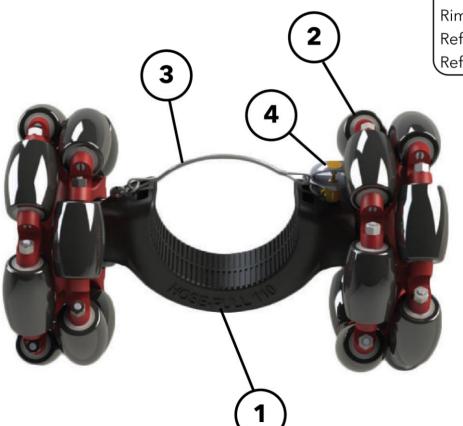
FEATURES

DN70 weight 4,43 Kg (9,77 lbs)

DN110 weight 4,59 Kg (10,12 lbs)

DN70 color Red DN110 color Black

Rims colors Black / Red Ref UGAP 2716089 Ref Gallin G090062



NOMENCLATURE

| 1 | Cradle |
|---|---------------------------------|
| 2 | Wheel |
| 3 | Stainless steel retention cable |
| 4 | Locking mechanism |

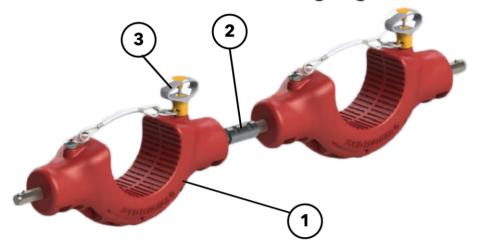
جلوبال G L O B A L

OPTIONS-

Double HOSE-PULL®

From the single HOSE-PULL model base, cradles can be twinned through a connecting ring.

Double cradle model with connecting ring



COMPONENTS

| 1 | Cradle |
|---|-------------------|
| 2 | Connecting ring |
| 3 | Locking mechanism |

 Black DN110 simple cradle (110mm (4 ½ inches))



 Red DN70 simple cradle (70mm (2 ¾ inches))



Connecting ring



Weight: 5,09 g DN 70 or DN 110

Engineered polymer fixed dual cradle



ÖJÖLLÖLLI AUSUDRAI VIII

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sales@alqudra-global.com

Website:

www.alqudra-global.com



Foldable products for protection of persons, subjects and environment Catalogue of products





Rollers for fire hoses

Backsaver ET-Roller 7 Electric Roller for fire hoses up to 6 inch powered by Milwaukee batteries





ET-Roller 6 Electric Roller for fire hoses up to 4 inch powered by 18 V Milwaukee aku batteries Backsaver ET-Roller 7 Electric Roller for fire hoses up to 6 inch powered by Milwaukee batteries

Portable collapsible spill bunds



Collapsible spill bund ECCOTARP



Collapsible Spill Bund UNIQUE



Collapsible Spill
Bund CARGO



Collapsible spill bund DECON



Collapsible spill bund RAIL



Collapsible spill bund ANTISTATIC

Large collapsible folding pools



Large Surface
Folding Pool LARGE



Large Surface Folding
Pool HEAVY DUTY



Collapsible Electric Car Quarantine Container

Temperature alarm

Emergency containers



Emergency container EC 01 and EC 02



Collapsible Flexible
Utility Tray FASTER

High capacity tank



High capacity tank with collapsible structure



Collapsible containment tank

Drain covers



Magnetic Drain
Cover MDC



Foldable Drain Cover FDC



Nitrile drain cover NDC

Dispenser Carts



Foldable Dispenser Cart SDC 03 Plus



Metal Sorbent Dispenser
Cart SDC 05

Protective screens



Magnetic ET Flexi protective screen for door frames



ET Flexi protective screen with structure for fixing to desktop

Others



Folding drip collection tray with exchangeable absorbent lining



Industrial Folding

Funnel IFF



Impermeable emergency barrel insert



Facade drainage slot



Decontamination foot floor mats



Floor ET Barrier



scan for more detalies

Do you really know all the products from ECCOTARP?

SFP

Fire Safety Bio Gel - Product - Summary



Fire protection "SF+Bio" is a unique means of fire prevention for materials with porous surface.



Impregnation "SF+Bio" is a ready-to-use polymer suspension of a balanced composition of fire retardant, binder and functional additives.

It is used to prevent fire and fire spread in case of fire, as well as to protect the treated material from harmful agents (fungi, insects and their larvae).

- 1) «SF+Bio» composition is fire and explosion safe;
- 2) Non-toxic:
- 3) According to the degree of impact on the human body belong to IV class of hazard (low-hazardous substances) according to GOST 12.1.007-76;
- 4) Does not give efflorescence or salt streaks on the surface of the treated material;
- 5) Does not change the structure of the treated material;
- 6) Does not interfere with air exchange;
- 7) Does not interfere with gluing, painting or other subsequent processing;
- 8) Harmless during processing and further use;
- 9) Treated materials are harmless to humans and animals;
- 10) Low consumption of 1 liter per 7-12 m2.

The principle of action of fire-bio-protective impregnation "SF+Bio":

As a result of treatment with fire-bio-protective impregnation, the material becomes weakly flammable, which allows it to resist the effects of flame and high temperatures during a fire. If the operating conditions are observed, the validity of the composition is not less than 5 years.

Fire Safety Bio Gel Barier - Product - Summary



Innovative Heat Resistant Gel Barrier «SF+Bio Gel Barrier».



"SF+Bio Gel Barrier" is an aqueous gel composition that includes an aqueous absorbent material consisting of blends of copolymers, block copolymers, water and target additives. Refers to A composition for creating heat resistant protection and the process of retarding or extinguishing a fire using an aqueous gel solution.

Intended: To protect a surface from heat damage or prevent ignition.

"SF+Bio Gel Barrier":

- 1) It has high fire and heat resistance;
- 2) Non-toxic (safe for humans and animals);
- 3) Biodegradable;
- 4) No secondary damage to materials from exposure to the Gel;
- 5) Ability to hold for a long time on inclined and horizontal surfaces.

Principle of Action:

Forms a continuous layer of aqueous Gel composition on the surface to be protected. Due to its structure and physicochemical data it is retained on inclined, horizontal surfaces for a long time.

Cohesion of Gel with the surface of the object, reduces the temperature of the object below the burning temperature of the object, thereby blocking the spread and damping of fire.

Acts as an improved method for extinguishing Class A and B fires.

Ecology

Once in the soil, the gel-like substance helps the soil recover from fire by maintaining a higher level of soil moisture content for extended periods of time.

Fire Safety Bio Gel Barier - Product - Usage

Scope of application:

- Oil & Gas Industry:

SF+Bio Gel Barrier Application Example:

Protection of Oil Storage and Fuel and Lubricant Storage Facilities;

In the event of a fuel tank fire, SF+Bio Gel Barrier is applied to adjacent fuel tanks. SF+Bio Gel Barrier is applied to the adjacent fuel tanks.

The main task of the Gel is to contain the heating of neighboring tanks,

to prevent heating and ignition until the main fire is finally

extinguishing the main fire. Once the fire has been extinguished. fire "SF + Bio Gel Barrier" is easily washed off with water from the

surface of the protected object. It does not require special disposal.

- Automotive industry:

Example of the use of "SF+Bio Gel Barrier": In order to avoid the consequences (see photo below) of fire, melting, smoldering, you should spray Gel on nearby objects. The Gel will contain

the temperature until the main firefighting forces arrive.

Using a fire extinguisher, spray "Stop Fire Barrier Gel" on panels, partitions in the compartments between cars.

"Stop Fire Barrier Gel will keep the temperature down

during evacuation and the arrival of the main firefighting force.

- Military industry;
- Shipbuilding.

Production:

- 1) Capacity of one unit 1,000 liters per day, the ability to quickly scale up production to the required volume.
- 2) Filling line for finished products (plastic containers).
- 3) Equipment for the production of self-adhesive stickers (label), with laser cutting.





Fire Safety Bio Gel Barier - Product - Usage

Composition "SF+Bio" for extinguishing forest, steppe and peat fires, is able not only to highly effectively resist the spread and development of forest fires, but also contributes to the rapid recovery of fertile layer and forest after the fire!



The innovative composition is non-toxic! does not contain any hazardous substances in its formulation.

It does not contain Chlorine, Fluorine and Bromine.

Work on extinguishing a large fire with the help of "SF+Bio", can be divided into the following stages:

- 1) Localization of the fire, i.e. elimination of the possibility of a new spread of the fire (creation of barrier strips with the help of fire-fighting equipment and aviation).
- 2) Elimination of the fire, i.e. extinguishing the fire (with the help of knapsack and mechanical fire extinguishing means).

Features of SF+Bio use are ease of application, effectiveness of extinguishing and further absence of reignition of fire.









Global Vision - 360° Fire Safety for a <u>Safer, Smarter Nation</u>

01

FROM SPARK TO SUPPRESSION:
A FULL-SPECTRUM FIRE RESPONSE

360° Fire Safety Solutions combine unique patented technologies to manage fire emergencies from the moment of ignition to full-scale suppression — even in complex environments like oil fields. With smart detection and instant and scalable response, this system anticipates and neutralizes threats Global's; escalation, supporting the UAE's drive for innovation-led infrastructure and public safety.

02

ECO-ENGINEERED SAFETY
FOR A SUSTAINARIF FIITIRE
Global Vision

Aligned with UAE Vision 2030's sustainability goals, these systems use eco-friendly, non-toxic extinguishing agents that are safe even for human skin. By minimizing water usage and avoiding corrosive damage, they not only protect infrastructure and the environment but also save lives in critical moments. Ideal for both urban and industrial settings, they are a key asset in building safer, greener smart cities.

03

NATIONAL RESILIENCE THROUGH
OPERATIONAL CONTINUITY

The economic impact of fire-related incidents can be catastrophic, especially across vital sectors such as logistics, energy, and tourism. 360° solutions are designed to protect not just lives and property, but also business operations and national assets. By embedding these GC ems into critical infrastructure, the UAE builds resilience, attracts global investment, and reinforces its position as a leader in innovation and safety.

www.alqudra-global.com

Nano Capsules

TECHNOLOGY



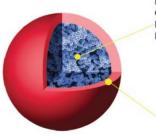


- The polymer microcapsule shells contain a highly effective extinguishing agent.
- · Size of microcapsules: 700-1300 micrometers.
- NFPT technology utilizes polymer matrixes filled with microcapsules containing highly volatile extinguishing liquids.
- In the event of overheating, sparking, or flames (sources of ignition), the microcapsules are destroyed and a gaseous extinguisher is released into the atmosphere.
- Generally, the opening should take place at temperatures between 110°C and 150°C.
- There are many advantages to this technology, including its high efficiency, versatility, ease of use, ability to extinguish fires of all classes with the least amount of fire-extinguishing liquid, and complete safety for both people and the environment.

Nano Capsules



MICROCAPSULE FILLED WITH EXTINGUISHER



HIGHLY EFFECTIVE, VERY VOLATILE GASIFICATION OF LIQUID (NOVAC 1230) FIRE EXTINGUISHER FK-5-1-12

POLYMER SHELL (-50 +70C°)

EXTRAORDINARY MERITS OF NFPT CHEMISTRY SCIENTISTS



he capsules are filled with fire extinguishing composition



Microcapsule shell durability



Design temperature Microcapsule triggering



Design and development of a bonding material that provides strength, flexibility, and stability to BAST products..

Nano Capsules - Products - Sticker



| NAME OF THE PRODUCT | SIZE, MM | MAX. PROTECTED VOLUME | RESPONSE TEMPERATURE |
|------------------------|-----------|-----------------------------|-------------------------|
| BAST Sticker-10 | 100x25x2 | 10 litres | 120 ± 5 °C |
| BAST Sticker-20 | 100x50x2 | 20 litres | 120 ± 5 °C |
| BAST Sticker-30 | 100x100x2 | 30 litres | 120 ± 5 °C |
| BAST Sticker-Socket | 20x30x2 | 0.5 litres | 120 ± 5 °C |



Nano Capsules - Products - Cord



BAST CORD

Using a cord filled with microcapsules and granules, this technology provides protection for large objects with a volume up to 2 000 litters based on the production of fire protection plates.

- In this method, fires are extinguished through reactive impulse extinguishing and as close as possible to potential dangers.
- The material maintains the operability of electronic systems, does not damage equipment, is dielectric, and is able to operate in humid, hot, and smokey conditions.
- Despite its autonomy, this tool can be used in conjunction with smart signalling and triggering devices that are compatible with the corresponding software.

Nano Capsules - Products - Paint



BAST PAINT

A wide range of surfaces can be painted with microcapsules, including plastic, wood, metal, rubber, and even textiles



Where to use?

- · Protection against fire in small closed spaces, such as:
- Control cabinets
- False floors
- Dropped ceilings
- · Boat engine compartments
- Electric vehicle battery compartment
- Server rooms
- Storage with explosive or valuable products
- · Electronic devices
- Heavy-duty appliances

Nano Capsules - Products - Application



APPLICATION AREAS OF BAST PRODUCTS





Logistics & Transportation



Construction



Hospitality







Military & Defence





Email: sales@algudra-global.com

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جلوبال LOBAL جلوبا

Nano Capsules - Products - Certificates















Nano Capsules - Products - Certificates











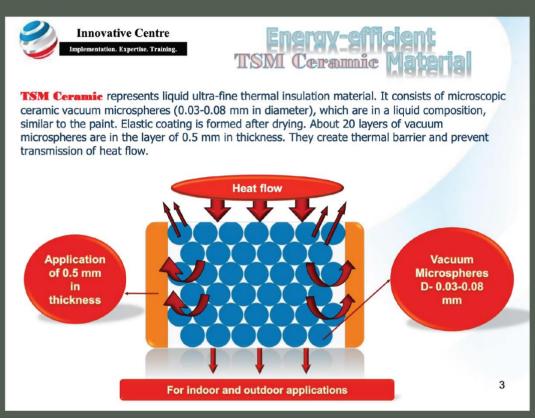








Liquid Thermal and Fire insulation - Product - Summary



Liquid Thermal and Fire insulation - Product - Advantages







HEAT SAVING

Heat flow reflection 60-70%. Cutting expenses on heat of a building by 30%.



COLD PROTECTION

Material reduces penetration of cold air inside by up to 45%.



NOISE INSULATION

Layer of 0.6 mm in thickness reduces noise level by 2 decibels.



WATERPROOFING

Latex in material provides it with low water permeability, less than 0.03 grams per cubic centimetres.



ECOLOGICAL SAFETY

TSM Ceramic is an ecologically pure material: it does not contain any poisonous or harmful substances.



FIRE SAFETY

TSM Ceramic is a fire resistant material, it enables slowing down the flame spread.

Liquid Thermal and Fire insulation - Product - Advantages



Innovative Centre

Implementation. Expertise. Training.

Advantages of TSM SeramicMaterial



ANTICORROSIVE MATERIAL

Insulating the covered surface from water and air, it eliminates external corrosion.



COLOUR MATCHING

It can be painted with any colour, for any interior.



APPLICATION ON HOT SURFACES

Material is used at the temperature from +5 to +150 C°.



EASE OF HANDLING

It is applied with a painting brush or an airless spray.



OPERATING LIFE

Warranty is 30 years. Service life is over 30 years.



COST EFFECTIVENESS

Reduction of working hours thanks to high speed and simplicity of material application. Reduction of repair expenses. Saving of thermal energy. Space saving.

Liquid Thermal and Fire insulation - Product - Usage



Innovative Centre

Implementation. Expertise. Training.

Application of TSM Ceramic in the field of heat power engineering

TSM Ceramic is widely used in the field of heat power engineering

- Pipelines of thermal heating systems
- Steam pipes and gas pipes
- Systems of air conditioning
- > Pipes with cold water (for prevention of condensation)
- > Steam boilers
- Isolation valves
- Containers and tanks











Liquid Thermal and Fire insulation - Product - Usage



Liquid Thermal and Fire insulation - Product - Usage



Objects of petroleum industry with application of TSM Ceramic materials

TSM Ceramic is used successfully for heat insulation of containers and gas receivers.







Achinsk, "ROSNEFT'"
Heat insulation of petroleum storage containers

Liquid Thermal and Fire insulation - Product - Usage



Objects of patroleum industry with application of TSM Ceramic materials

TSM Ceramic is used for heat insulation of oil and gas pipes of above ground and subsurface lining.









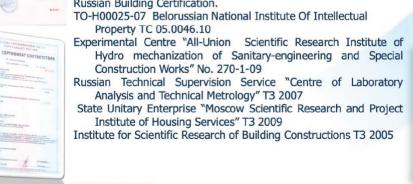
Liquid Thermal and Fire insulation - Product - Certificates





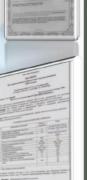


EC Declaration of Conformity No. JIC02250
Conformity Certificate No. POCC RU.AE95.H01852
Fire Certificate No. № C-RU.ПБ24.B.00354
Hygienic Certificate — No.77.01.03.570.П.0650800808
Hygienic Certificate No. 34.77.03.570.П.0038280906
Hygienic Certificate No. 77.TY.05.576.П.0001000907
Russian Technical Expertise Centre CTO-CA-03-002-2009
Russian Building Certification.



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AEVEX Aerospace Company Overview 2025



TRANSFORMING MISSION SUCCESS WITH DATA-DRIVEN SOLUTIONS



AEVEX is a trusted partner delivering advanced airborne, maritime, and ground-based intelligence solutions—providing operational flexibility and ensuring mission data remains customer-owned for global defense, government, and commercial operations.



670+ EMPLOYEES, 7 OFFICE LOCATIONS



40+ YEARS DELIVERING COMPLEX SOLUTIONS



5,000+ UNMANNED, 125+ MANNED PLATFORMS DEVELOPED/OPERATED



124+ PERSONNEL IN EUCOM, AFRICOM, CENTCOM, & SOUTHCOM

Recent News:

Top 100 Drone Defense Companies in 2025 - The Defense Post The Mysterious Phoenix Ghost Drones of the Ukraine War - Forbes

ADVANCED AEROSPACE SOLUTIONS



VFOOSV

AVIATION SOLUTIONS

Design-Build-Fly solutions to deliver complex aircraft platforms with full engineering, modification, integration, and certification support



UNMANNED **SYSTEMS**

Cutting-edge unmanned systems and services from loitering munitions to unmanned surface vehicles and counter-UAS services



GLOBAL SOLUTIONS

Full-service flight operations and mission support for a variety of manned and unmanned operations executed across the globe



TECHNOLOGY PRODUCTS

Innovative technologies to support airborne operations, from special modifications to mission software to position, navigation, and timing



MISSION CONTROL & **DATA SECURITY**

Vessels can be controlled beyond line-of-sight via Starlink, while all mission data belongs to the customer and can be securely stored offboard, ensuring no data remains onboard.

PROVEN PERFORMANCE SUPPORTING THE NATION'S MOST SENSITIVE OPERATIONS

AEVEX MISSION FOCUSED, TRUSTED PARTNER





PROVEN PERFORMANCE CUSTOMIZED SOLUTIONS



Development, operations, and sustainment of:

- Fixed wing
- Rotary wing
- Group 1-4 UAS
- Loitering munitions
- Unmanned surface vehicles



- Thousands of Group 1-4 unmanned platforms rapidly developed for DoD and Industry (Threat Replicators)
- Special-mission modifications and integrations for hundreds of mid-size and large jet platforms
- Sustained ISR mission support for operations in AFRICOM, CENTCOM, and SOUTHCOM



PROVEN, ELITE PERFORMANCE SUPPORTING THE NATION'S MOST SENSITIVE ISR OPERATIONS



650+ full-time aviation & intelligence professionals · HW & SW engineering teams



- 1.9 million operational
- hours overseas Over 18 aerial platforms



- Staff deployed & operating in more than 20 countries
- In-House Deployment Team



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ISR | Kinetic Payloads
FPV Kit | Mesh Network
BLOS Comms | Radar

CONFIGURABLEON DEMAND









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PERFORMANCE SPECS

- 86 min loiter
- 160 km range
- 67 kts (77.1 mph) cruise speed
- 87 kts (100.1 mph) dash speed
- 55 in/139.7 cm length
- 75.5 in/191.8 cm width
- 34 lbs/15.4 kg max wt.

PAYLOAD

- 7.5 lbs (3.4 kg) max wt.
- Kinetic
- Visual/ISR

CONFIGURATION*

- Mesh Networking
- Swarm Autonomy
- A-PNT using Visual Navigation



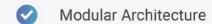


Man Portable

Multi-Launch Capabilities













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DISRUPTOR

PERFORMANCE

- 5-8 hr. endurance
- 600 km (carburetor)
- 1300 km (EFI)

SPECIFICATIONS

- · 83.9 kg max takeoff
- 3.08m length
- 4.8m wingspan
- · 32.66 kg empty weight

PAYLOAD

- · 22.6 kg payload
- MOSA aligned design allows for user defined payloads including ISR, EW and Lethal (frag or penetrator)

LAUNCHER

- Pneumatic launcher
- Vehicle launched option
- Rocket-Aided Take-Off



The Group 3 Disruptor is a runway independent, threat replica aircraft, launched pneumatically or via rocket assisted takeoff (RATO). The airframe is comprised of lightweight carbon fiber and composite materials to achieve an optimal strength-to-weight ratio.



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DOMINATOR

SPECS PERFORMANCE

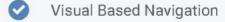
- · 4.6 hrs 11.7 hrs endurance*
- 579 km 1196 km range*
- · 3.07m length · 4.8m wingspan
- · 55.79 kg empty weight
- 92.9 kg 102 kg MTOW**

PAYLOAD

- 18.1 kg payload
- Frag or penetrator
- · Optional ISR

CONFIGURATION

- Mesh radio
- Hardened GNSS Solution
- Visual Navigation
- Alternate PNT
 - * Carburetor vs. EFI
 - * Pneumatic vs. RATO



- Alternate PNT
- **Autonomous Operation**



Small Operational Footprint



Configurable Payloads



Open Architecture





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