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Let's get social



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protrust solutions ltd



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Other Services

Protrust Composites

We have our own dedicated on-site composite department and are specialists in the manufacture of Carbon Fibre components and Tooling. Our products are manufactured to the highest standards using autoclave processing. We supply products worldwide to many sectors such as Motorsport, Aerospace, Oil and Gas and Mobility equipment. With our wealth of knowledge, we can advise and manage your design through to production to bring your concept to reality.

Penske Racing Shocks UK

Protrust Solutions is the sole UK distributor of Penske Racing Shocks. We are the official technical partner to the BTCC and have enjoyed championship-winning success in a variety of motorsports from Formula One, to GT Racing, and the British Touring Car Championship. We offer a comprehensive range of racing dampers for both 2 and 4-wheeled motorsports.


Tube Reprofilng

On site we have a unique in-house designed and build tube reprofling machine that is capable of Aero, Oval and streamline profiles. Due to its simple yet highly effective design we can offer any size batch runs from as little as one without expensive set up costs.



Product Guide

PROTRUST
SOLUTIONS



PROTRUST

SOLUTIONS

Welcome to Protrust Solutions

Protrust Solutions was Founded in 2021 when we acquired SPA Technique Ltd and Penske Racing Shock UK. We are a professional and trustworthy company that will continue to Innovate, Design, Develop and manufacture the Market leading products that SPA Design (through SPA Technique) has created within the many markets including Motorsport, Defence & commercial.

Our products have been designed, manufactured and sold throughout the world for over 30 years and the experience within our markets puts us a premier supplier.

Supplying to the likes of Formula 1, WRC and major Tier 1 Motorsport manufacturers, we are also a Technical Partner to the BTCC you can be assured safety is our priority.

Our head office is based in the UK in the heart of the midlands and along with its main partner SPA Technique Inc in Indianapolis USA. We currently have over 30 dealers and service agents worldwide. These partners can offer technical support and information required to keep you on top of your game bringing you the finest fire suppression systems available on the market.

Fire Systems

Here at Protrust solutions , we provide an extensive line-up of plumbed-in FIA Approved fire Suppression Systems which are either Water based foams or Clean-agent gas, that are homologated to the FIA Technical List 16 & 52 and available direct order online or through our vast dealer network.

Our fire extinguishers have been developed with High Performance, cost and weight saving as the main focal point of their design. We continually push the boundaries of what's possible, to bring you the ultimate fire suppression solution for your application.

The Protrust systems range in size from, 1.25Ltr to 4Ltr for water-based suppressants or 2.25kg to 3kg for the clean agent gas the FIA approved suppression systems are suitable for all types of motorsports, from Single seater to rally, circuit and competition cars.

Our Brands...



Our Firesense range is our most cost-effective range of fire suppression systems, utilizing a high-performance Flourine- Free water-based suppressant, ATF Respondol making it suitable for ethanol and methanol fires with superb knock down capabilities,designed with the End user in mind our Firesense systems are a simple installation. covering all categories of Motorsport, it's the ideal system to cover the FIA Technical list 16 categories .



The Firesense Pro Range builds on the qualities of the Firesense brand but uses the industry leading water-based suppressant for fuel and oil-based fires. Boasting the highest performance on Class B & F fires, perfect for motorsport, making this the number one choice in Handheld fire protection. Designed to have a maximum cooling effect and create a protective barrier against heat. 4fire suppressant Significantly reduces the post fire ambient temperatures therefore reduces the likelihood of fuel re-ignition meaning once the fire is out, It Stays out.



The Firesense Extreme Range is perfect for competitors looking to protect not only their car but also the electronic systems installed. Using FK-5-1-12 this is a clean agent suppressant not only extinguishes a fire in a matter of seconds it will also help to protect any valuable assets fitted on or within a motorsport vehicle, including electronic components, the gas fluid is a waterless fire suppressant and provides the high margin of safety for human occupancy, it leaves no residue, so clean up is minimal and it is electrically non-conductive.



Our Firesense Elite range is the pinnacle of motorsport fire suppression provided by Protrust Solutions. Driver safety is critical, Firesense Elite is designed to have a maximum cooling effect in the cockpit and create a protective barrier against heat. Significant reductions in post fire ambient temperatures reduces the likelihood of fuel re-ignition meaning once the fire is out, It Stays out. These extinguishers conform to the 8865-2015 (Technical list 52) standards, Recommended for use in all FIA categories but mandatory for WRC, WRX, R2, R3 and RGT3, T1, RG-T.



Our Firesense+ range of fire extinguishers are specifically tailored towards the travel and leisure sectors. A small yet powerful 400ml spray can, the extinguisher can be stored easily either in its a wall mounted bracket or a travel pouch, it can be used on all types of firewood, with minimal consequential damage. Ideal for: Kitchens, workshops, cars, motorcycles, caravans, boats and home use. The range uses 4fire universal, an industry leading suppressant for fuel and oil-based fires making them a perfect addition to safety.



Single Seater



FIRESENSE - MECHANICAL SYSTEM

- FIA Approved
- Lightweight & Compact design
- AR-AFFF Fire Suppressant
- Supplied as a kit or bottle only

FIA Approved - Technical List 16 Homologation No EX.054.19

AVAILABLE IN 1.25 / 2.25 LTR OPTIONS



FIRESENSE - ELECTRICAL SYSTEM

- FIA Approved
- Lightweight & Compact design
- AR-AFFF Fire Suppressant
- Supplied as a kit or bottle only

FIA Approved - Technical List 16 Homologation No EX.054.19

AVAILABLE IN 2.25 LTR ONLY



FIRESENSE EXTREME - MECHANICAL SYSTEM

- FIA Approved
- High Level of Fire Suppression using Clean Agent Gas
- Lightweight & Compact Design
- Supplied as a kit or bottle only

FIA Approved - Technical List 16 Homologation No EX.0

AVAILABLE IN 2.25 KG ONLY



FIRESENSE EXTREME - ELECTRICAL SYSTEM

- FIA Approved
- High Level of Fire Suppression using Clean Agent Gas
- Lightweight & Compact Design
- Supplied as a kit or bottle only

FIA Approved - Technical List 16 Homologation No EX.0

AVAILABLE IN 2.25 KG ONLY



COMPARE BOTTLE SIZES AND WEIGHTS ON OUR FIRE SYSTEM SPECIFICATION CHART.

SCAN HERE
CHECK PRICES AND
ORDER ONLINE





Saloon



FIRESENSE - MECHANICAL SYSTEM

- FIA Approved
- AR-AFFF Fire Suppressant
- Lightweight & Compact design
- Supplied as a kit or bottle only

FIA Approved - Technical List 16 Homologation No EX.054.19

AVAILABLE IN 2.25 LTR OPTIONS



FIRESENSE - ELECTRICAL SYSTEM

- FIA Approved
- AR-AFFF Fire Suppressant
- Lightweight & Compact design
- Supplied as a kit or bottle only

FIA Approved - Technical List 16 Homologation No EX.054.19

AVAILABLE IN 2.25 LTR ONLY



FIRESENSE EXTREME - MECHANICAL SYSTEM

- FIA Approved
- High Level of Fire Suppression using Clean Agent Gas
- Lightweight & Compact Design
- Supplied as a kit or bottle only

FIA Approved - Technical List 16 Homologation No EX.0

AVAILABLE IN 2.25 KG ONLY



FIRESENSE EXTREME - ELECTRICAL SYSTEM

- FIA Approved
- High Level of Fire Suppression using Clean Agent Gas
- Lightweight & Compact Design
- Supplied as a kit or bottle only

FIA Approved - Technical List 16 Homologation No EX.0

AVAILABLE IN 2.25 KG ONLY



COMPARE BOTTLE SIZES AND WEIGHTS ON OUR FIRE SYSTEM SPECIFICATION CHART.

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Saloon / Rally



FIRESENSE - 3.0 LTR FIRE SYSTEM

- FIA Approved
- ATF Respondol Fire Suppressant
- Saloon & Rally Compliant
- Supplied as a kit or bottle only

FIA Approved - Technical List 16 Homologation No EX.0

AVAILABLE IN MECHANICAL OR ELECTRICAL



FIRESENSE - STEEL MECHANICAL SYSTEM

- FIA Approved
- ATF Respondol Fire Suppressant
- Saloon & Rally Compliant
- Supplied as a kit or bottle only

FIA Approved - Technical List 16 Homologation No EX.046.17

AVAILABLE IN 4 LTR ONLY



FIRESENSE PRO - 3.0 LTR FIRE SYSTEM

- FIA Approved
- 4Fire Fire Suppressant
- Saloon & Rally Compliant
- Supplied as a kit or bottle only

FIA Approved - Technical List 16 Homologation No EX.0

AVAILABLE IN MECHANICAL OR ELECTRICAL



FIRESENSE EXTREME 3.0KG/4.0KG SYSTEM

- FIA Approved
- Clean Agent Gas
- Patented Autohead firing head
- Supplied as a kit or bottle only

FIA Approved - Technical List 16 Homologation No EX.046.17

AVAILABLE IN MECHANICAL OR ELECTRICAL



COMPARE BOTTLE SIZES AND WEIGHTS ON OUR FIRE SYSTEM SPECIFICATION CHART.

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Rally Packs



FIRESENSE STEEL MECHANICAL + HANDHELD

- FIA Approved
- Saloon & Rally Compliant
- ATF Respondol Fire Suppressant
- Mechanically operated plumbed in system

FIA Approved - Technical List 16 Homologation No EX.0

4LTR SYSTEM + 2.4LTR HANDHELD



FIRESENSE 3.0LTR + HANDHELD

- FIA Approved
- Saloon & Rally Compliant
- ATF Respondol Fire Suppressant
- Mechanically operated plumbed in system

FIA Approved - Technical List 16 Homologation No EX.

3LTR MECHANICAL / ELECTRICAL + 2.4LTR HANDHELD



FIRESENSE EXTREME 3.0KG + HANDHELD

- FIA Approved
- Patented Autohead firing head
- ATF Respondol Fire Suppressant
- Electrically operated plumbed in system

FIA Approved - Technical List 16 Homologation No EX.0

3KG MECHANICAL / ELECTRICAL SYSTEM + 2.0KG HANDHELD



COMPARE BOTTLE SIZES AND WEIGHTS ON OUR FIRE SYSTEM SPECIFICATION CHART.

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Handheld



FIRESENSE - AR-AFFF

- 2.4 Litre Approved For International Rallying
- AR-AFFF Fire Suppressant
- Includes mounting bracket & straps

FIA and Motorsport uk (MSUK) Approved (2.4ltr ONLY)

AVAILABLE IN 1.75 / 2.4 LTR OPTIONS



FIRESENSE EXTREME - NOVEC

- 2.0kg FIA & MUK Approved
- Zero O-zone depletion, clean agent extinguishant
- Includes mounting bracket & straps
- Suitable For Class A, B & C fires
- Extinguishes fires in seconds

FIA and Motorsport uk (MSUK) Approved (2.0kg ONLY)

AVAILABLE IN 1.25 / 2.0 KG OPTIONS



FIRESENSE PRO - 4F UNIVERSAL

- 2.4ltr FIA & MUK Approved
- Industry leading performance on class B fires
- Includes mounting bracket & straps
- Suitable For Class A, B, C & F fires
- Compatible on electrical equipment up to 1000V

FIA and Motorsport uk (MSUK) Approved (2.4kg ONLY)

AVAILABLE IN 1.0 / 1.75 / 2.4 LTR OPTIONS



COMPARE BOTTLE SIZES AND WEIGHTS ON OUR FIRE SYSTEM SPECIFICATION CHART.

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Fire System Specifications

SINGLE SEATER

	FLUID	WEIGHT	LENGTH*	WIDTH
FIRESENSE - MECHANICAL	1.25ltr	2.4kg	262mm	127mm
FIRESENSE - MECHANICAL	2.25ltr	3.7kg	375.5mm	127mm
FIRESENSE - ELECTRICAL	2.25ltr	3.5kg	326mm	127mm
FIRESENSE EXTREME- MECHANICAL	2.25kg	3.40kg	267mm	127mm
FIRESENSE EXTREME- ELECTRICAL	2.25kg	3.20kg	235mm	127mm

*Including the firing head

HANDHELD

	FLUID	WEIGHT	LENGTH*	WIDTH
FIRESENSE	1.75ltr	2.8kg	391mm	108mm
FIRESENSE	2.4ltr	3.6kg	455mm	131mm
FIRESENSE EXTREME	1.25kg	2.0kg	348mm	131mm
FIRESENSE EXTREME	2.0kg	3.2kg	391mm	108mm
FIRESENSE PRO	1.0ltr	2.0kg	348mm	81mm
FIRESENSE PRO	1.75ltr	3.25kg	391mm	108mm
FIRESENSE PRO	2.4ltr	4.1kg	455mm	108mm

*Including the firing head

SALOON / RALLY

	FLUID	WEIGHT	LENGTH*	WIDTH
FIRESENSE - ALLOY - MECHANICAL	2.25ltr	3.7kg	375.5mm	127mm
FIRESENSE - ALLOY - ELECTRICAL	2.25ltr	3.5kg	326mm	127mm
FIRESENSE EXTREME- MECHANICAL	2.25kg	3.40kg	282mm	127mm
FIRESENSE EXTREME- ELECTRICAL	2.25kg	3.20kg	253mm	127mm
FIRESENSE 3.0 LTR- ALLOY - MECHANICAL	3.0ltr	4.60kg	264mm	152.40mm
FIRESENSE 3.0 LTR- ALLOY - ELECTRICAL	3.0ltr	4.40kg	264mm	152.40mm
FIRESENSE EXTREME- ALLOY - MECHANICAL	3.0kg	4.39kg	338mm	127mm
FIRESENSE EXTREME- ALLOY - ELECTRICAL	3.0kg	4.19kg	235mm	127mm
FIRESENSE - STEEL - MECHANICAL	4.0ltr	6.65kg	235mm	127mm
FIRESENSE - ALLOY- ELECT - 360 HEAD	4.0ltr	5.7kg	361mm	152.40mm
FIRESENSE EXTREME- ALLOY - MECHANICAL	4.0kg	5.43kg	321mm	152.40mm
FIRESENSE EXTREME- ALLOY - ELECTRICAL	4.0kg	5.23kg	292mm	152.40mm
FIRESENSE ELITE COMING SOON!	1.45ltr	2.6kg	326mm	127mm

*including the firing head apart from 3.0ltr

GOOD TO KNOW!

SERVICING YOUR SYSTEM COULDN'T BE EASIER, JUST CALL OR BOOK ONLINE, SEND IT TO US, WE COMPLETE YOUR SERVICE AND RETURN IT!

BEST OF ALL, WE OFFER LOW COST SERVICING AND REFILLS SO YOUR SYSTEM WON'T COST A FORTUNE TO LOOK AFTER!



Travel and Leisure



FIRESENSE PLUS - AEROSOL

The Protrust Fire & Safety FireSense+ 400ml Cannister Handheld Fire Extinguisher is a compact, efficient and cost-effective extinguisher, capable of tackling A, B, F and Electrical (1000v) rated fires. This is an ideal product if you are limited with storage, due to its compact design.

Our FireSense + range of fire extinguishers are specifically tailored towards the travel and leisure sectors. A small yet powerful 400ml spray can, the extinguisher can be stored easily either in its wall mounted bracket or a travel pouch, it can be used on all types of firewood, with minimal consequential damage. The range uses 4fire universal, an industry leading suppressant for fuel and oil-based fires making them a perfect addition to safety. Ideal for: Kitchens, workshops, cars, motorcycles, caravans, boats and home use.

Available either standalone, with a mounting bracket, with a car sleeve or a variant of 3 coloured pouches - Blue, Red or Grey.

- A - Ordinary combustibles (wood, paper, fabrics & plastics etc.)
- B - Flammable liquids (gasoline, grease, oil, paint, solvents etc.)
- F - Cooking oils or fats (kitchenware etc.)
- Electrical fires upto 1000v

FIRESENSE
+PLUS

FIRESENSE PRO - 4F UNIVERSAL

- Compact 1.0ltr size
- Industry leading performance on class B fires
- Includes mounting bracket & straps
- Suitable For Class A, B, C & F fires
- Compatible on electrical equipment up to 1000V

FIRESENSE
PRO

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Racecar Mirrors



TOURING / SALOON

- Easy Installation
- High impact shatter resistance construction
- W132mm x H69mm
- Available with a Flat or Convex lens

Touring/Saloon car mirror have a reflective surface area of 91cm. The high impact, light weight construction of both variants is made to withstand the constant loads and forces that occur during racing conditions and have been engineered to minimize drag and is highly used worldwide by teams and manufacturers within the motorsport industry.

AVAILABLE IN BLACK NYLON OR CARBON FIBRE



GT / LE MAN

- Easy Installation
- High impact shatter resistance construction
- W155mm x H65mm
- Available with a Flat or Convex lens

Our GT/LeMans Series race car mirror conforms to FIA and MUK (Motorsport U.K) Event regulation requirements, with a reflective surface area of 100.64cm (minimum surface area must be 100cm). The high impact, light weight construction of both variants is made to withstand the constant loads and forces that occur during racing conditions and have been engineered to minimize drag and is highly used worldwide by teams and manufacturers within the motorsport industry.

AVAILABLE IN BLACK NYLON OR CARBON FIBRE



FORMULA

- Easy Installation
- High impact shatter resistance construction
- W113mm x H52mm
- Available with a Flat or Convex lens

Our Formula Series race car mirror conforms to FIA and MUK (Motorsport U.K) Event regulation requirements, with a reflective surface area of 58.76cm (minimum surface area must be 50cm). The high impact, light weight construction of both variants is made to withstand the constant loads and forces that occur during racing conditions and have been engineered to minimize drag and is highly used worldwide by teams and manufacturers within the motorsport industry.

AVAILABLE IN BLACK NYLON OR CARBON FIBRE

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Racecar Mirrors



GP1

- Easy Installation
- High impact shatter resistance construction
- W152mm x H52mm
- Available with a Flat or Convex lens

Our Formula Series race car mirror conforms to FIA and MUK (Motorsport U.K) Event regulation requirements, with a reflective surface area of 58.76cm (minimum surface area must be 50cm).

The high impact, light weight construction of both variants is made to withstand the constant loads and forces that occur during racing conditions and have been engineered to minimize drag and is highly used worldwide by teams and manufacturers within the motorsport industry.

AVAILABLE IN CARBON FIBRE ONLY



SPORTS CAR

- Easy Installation
- High impact shatter resistance construction
- W148mm x H68mm
- Available with a Flat or Convex lens

Our Sports car mirrors have a reflective surface area of 109.2cm. These are available in three different height sizes; however, a custom stem size may be requested to suit your requirements.

The high impact, light weight construction of both variants is made to withstand the constant loads and forces that occur during racing conditions and have been engineered to minimize drag and is highly used worldwide by teams and manufacturers within the motorsport industry.

AVAILABLE IN BLACK NYLON OR CARBON FIBRE



Quick Release



QR1 - WELD ON BOSS

- CNC manufactured aircraft quality aluminium
- Hard anodised for strength
- Precision cut splines for accurate alignment

There is a choice of two spigot diameters and are available in two grades of material specifications. Conforms to the latest FIA technical specifications and is for track use only.

- QR1 non-electrical boss with 20mm EN3B Shaft Spigot diameters 1" or 5/8ths
- QR1 non-electrical boss with 20mm 4140 Shaft Spigot diameters 1" or 5/8ths



QR1-E - ELECTRICAL WELD ON BOSS

- CNC manufactured aircraft quality aluminium
- Hard anodised for strength
- Precision cut splines for accurate alignment

There is a choice of two spigot diameters and are available in two grades of material specifications. Conforms to the latest FIA technical specifications and is for track use only.

- QR1 electrical boss with 20mm EN3B Shaft Spigot diameters 1" or 5/8ths
- QR1 electrical boss with 20mm 4140 Shaft Spigot diameters 1" or 5/8ths

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