



PEREGRINE MLS

EFFICIENCY AND EXCELLENCE

2022

Need something bespoke and high precision?

Peregrine MLS Ltd. is your source for high precision metalwork, electronics manufacturing, bespoke foam protection solutions, and more.

This official catalogue contains our range of Products and Services that we have been providing clients in a variation of industries, including Motorsport, Transport, Manufacturing & more.

Peregrine MLS is a British Manufacturing company possessing over 30 years' experience in the motorsport, automotive, aviation component manufacturing sectors.

Let us invite you to explore our catalogue and join the group of our clients.



Who is Peregrine?

Whilst a relatively new company, our founders each with more than 30 years' experience in the motorsport, automotive, aviation component manufacturing sectors, within companies such as McLaren, Toyota and Mercedes HPP recognised in 2019 that there was a requirement in the marketplace for a cost effective, high quality, high efficiency manufacturing services provider, as such, Peregrine-MLS Ltd was formed.

As a bespoke precision manufacturer, we are able to take your concepts, designs & ideas and make them a reality. We are a single-source solution with all production in-house, resulting in reduced lead times, mitigated quality issues & lower costs covering the following specialist areas:

- High Precision Metalwork
- HV & LV Electric Looms/Harnessing
- Electronics Manufacturing
- Foam Protection Solutions
- Lean Consultancy Services





OUR RANGE OF SERVICES



BRITISH MADE AWARDS

Peregrine MLS Ltd - the United Kingdom

Best Emerging Automotive Electronics Manufacturer 2021
Manufacturing Expansion Excellence Award 2021

HIGH PRECISION METALWORK

METALWORK

Manufacturing precision metalwork is a key part of our business, allowing us to deliver both in-house and customer provided designs. Peregrine has in-house CAD & CAM experts that can support our customers by also offering a complete design service. We also offer reverse engineer solutions, so the designs meet exacting requirements.

Our vast experience with precision metalwork has allowed us to work with many Motorsport, Heritage, Aviation and high-end Automotive customers.

At Peregrine, we have full 5 Axis milling and turning capabilities and utilise HyperMill by OPENMIND to generate our machine programs, with fully built-in error prevention techniques. Our highly experienced team can work with many different materials ranging from plastics to peek to titanium.



ELECTRICAL WIRING LOOMS

WIRING LOOMS

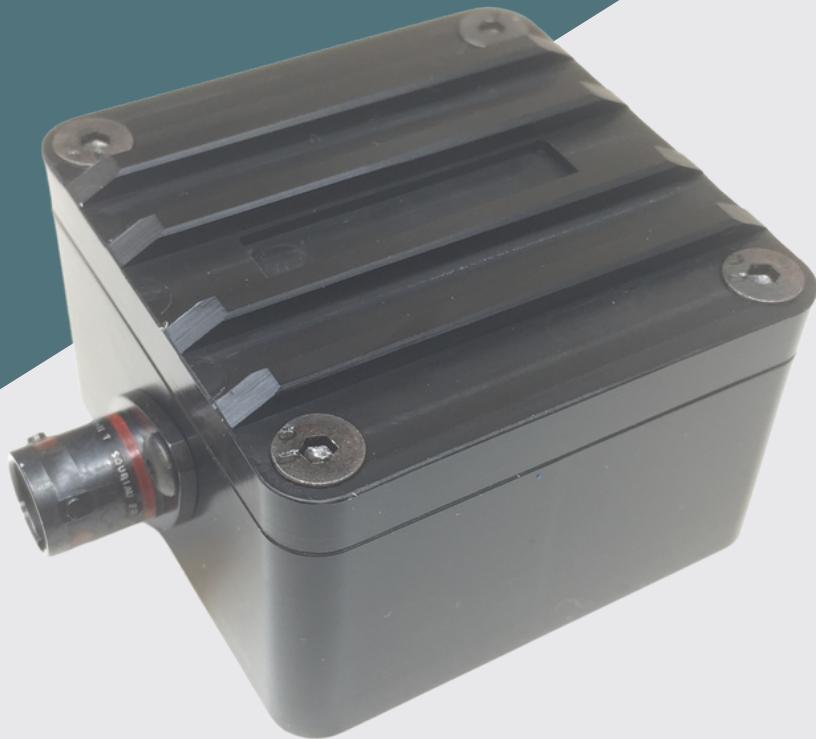
We have the resources to cover all your needs from basic products to complete bespoke cable assemblies.

Our trained engineers see every project as a challenge. With many years of bespoke loom assembly experience, we employ tried and tested production methods and industry standard expertise to bring the kind of reliability you should expect from a Peregrine MLS Ltd product.

Wiring looms are a collection of wires which transmit electrical power through electronic devices. Peregrine MLS Ltd understand that looms are vital to the functionality of such devices. We have the skill and experience in designing and manufacturing cable assemblies that will stand up to the most rigorous electrical, mechanical and environmental applications.



ELECTRICAL ASSEMBLIES



ELECTRONIC ASSEMBLIES

Peregrine MLS engineers possess years of experience in the designing and manufacturing of complex electronic assemblies and products, working to the highest quality standards. We are able to supply electronic assemblies and complete box builds for a wide variety of customers and OEMs, spanning a broad range of technology sectors.



BATTERY CONVERSION



MOTORSPORT ECU EXTERNAL BATTERY CONVERSION

Many motorsport ECUs are fitted with an internal battery that is not rechargeable. Depending on the ECU, these typically need changing every 1-3 years. Many are also soldered to the electronic circuit board and old batteries need to be de-soldered and new ones soldered back in. There is a limited number of times this can be done before the electronic circuit board becomes damaged. The battery change also involves returning the ECU somewhere for the work to be done, the shipping carrying its own risk of loss.

Peregrine MLS Ltd have teamed up with OLDtronics and have built a small box, in a similar style to an ECU that contains the battery. The ECU needs to be adapted to have a flying lead bringing out the battery connections. The battery is of a larger capacity than is typically fitted inside the ECU, therefore should last between 5-10 years.

HEAT STAKING



HEAT STAKING

The heat staking process technology creates almost no mechanical stress because it operates through a precise control and application of the temperature and pressure to cause the reforming of the plastic that it makes contact with. Even glass-filled plastics can be reliably joined using this method, which is not the case for cold staking or other techniques.

Heat Staking makes it easy to bond metal to plastic and is commonly used in high volume/low cost applications such as automotive, IT and consumer appliances.

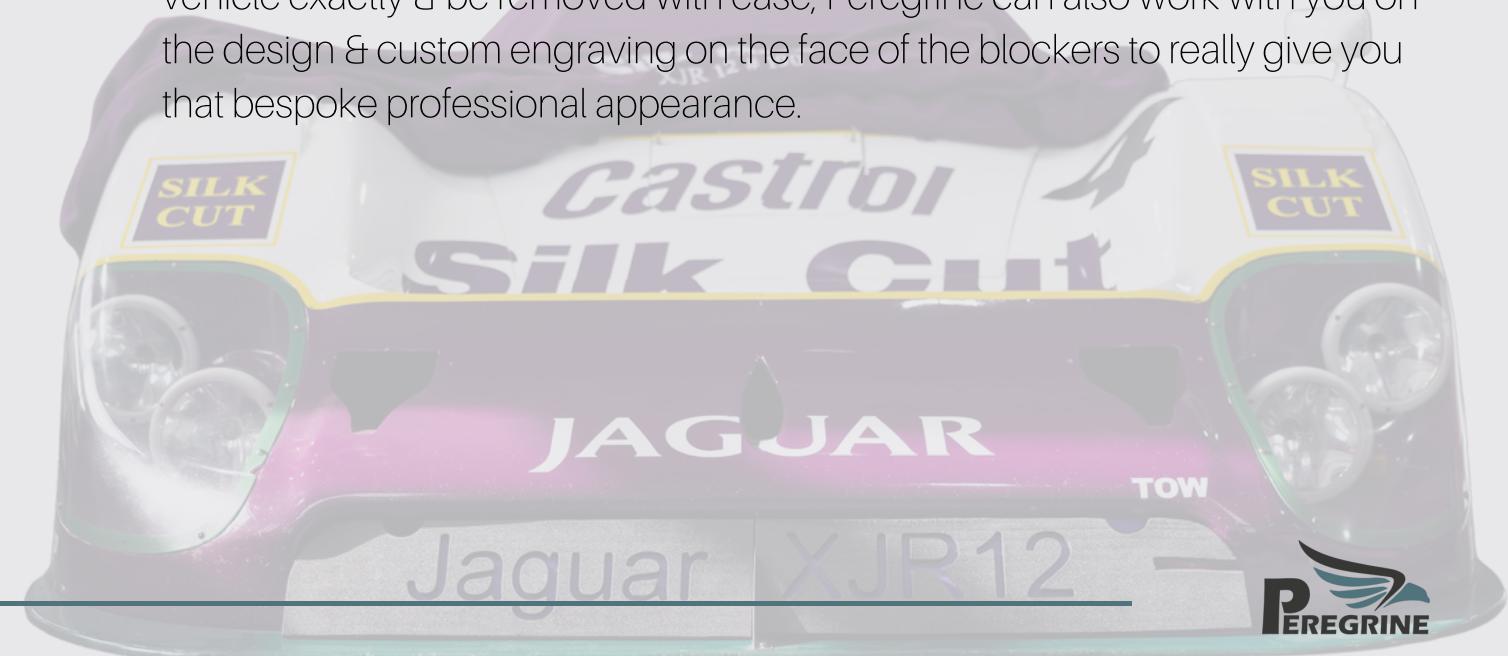
AIR INLET BLOCKERS



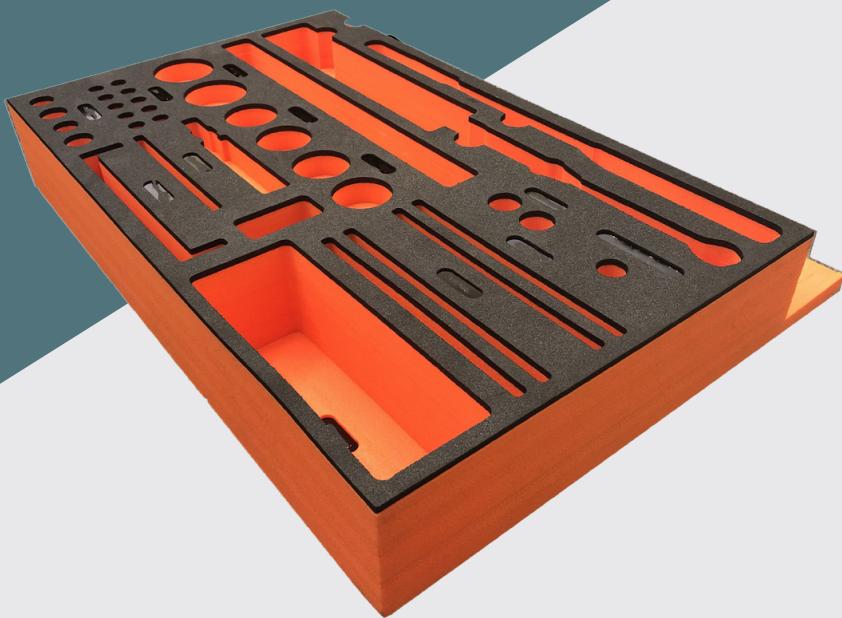
AIR INLET BLOCKERS

Peregrine MLS provides contoured foam air intake blockers tailored to your vehicles dimensions, ensuring vehicle air intake system is kept clean, dry and free from debris when not in use.

The air intake blockers are manufactured using our high precision CNC machines, with a full range of materials & colours available. They can fit your vehicle exactly & be removed with ease, Peregrine can also work with you on the design & custom engraving on the face of the blockers to really give you that bespoke professional appearance.



5S TOOL SHADOW FOAMS



SHADOW FOAMS

Tool Shadow Foams are a very effective way to achieve efficient visual management of your tools. These bespoke kits will allow the use of contrasting foam colors to show anyone visually that tools or items are missing. When used properly searching will be reduced drastically and allow you to focus on other value adding tasks.

Tool Shadow Foams fit right into your toolbox or tool chest drawers, so your tools will stay where they belong. These liners are great for a workstation, toolbox and can be used as part of a 5S program.

How to benefit from Tool Foam Organisers?

- Easily identify misplaced tools.
- Save time.
- Reduce searching.
- Saves money due to lost tools.
- Shapes make it easy for anyone to return tools.

FOAM PACKAGING SOLUTIONS



PACKAGING FOAMS

Peregrine have the manufacturing ability & experience to design and manufacture of complex and bespoke foam packaging with a range of cellular foam materials & vast range of colours available.

As a highly experienced CNC manufacturing company we look at specification and job requirements in high detail, whilst giving much more consideration to complete overall packaging solution and end costs to customers and applications.

Our range of foam is used to give protection to fragile and expensive items because of its ability to absorb and recover from repeated shocks.

Lightweight and clean, it's the best choice for product protection. Peregrine can supply Nanuk cases for a wide variety of products and industries. Nanuk cases provide complete range of indestructible waterproof cases and are the ideal solution to meet the needs of the most demanding users, in the most extreme conditions.

OUR MACHINES CAPABILITIES

INTEGREX I - 300

CV 5 - 500

QT - 250

SPARTAN CNC

RUIJIE CNC



NEW

INTEGREX i300

The INTEGREX i-300 advanced Multi-Tasking machine delivers maximum versatility, high precision and throughput for medium to large complex parts. It combines the capabilities of a high-powered turning center and full-function machining center to produce parts in single setups. This machine configuration works to minimize fixtures, tools, handling and non-cut time.

MACHINE SPECIFICATION:

- Milling spindle travel -30 ~ 210 degrees (.0001 degree min index angle)
- Optional 20k RPM (15 HP) milling spindle available
- Full C-axis contouring (.0001 degree minimum index)
- Programmable NC Tailstock
- Available spindle connections (KM63/ CAPTO C6 / HSK A63)
- 36-tool ATC standard (HSK A63) – 72 or 110 tool options available
- Multiple bed lengths available – 40", 60"



CV5-500

Bridge construction 5-axis vertical machining center with a fully supported trunnion table provides high-rigidity for high-accuracy machining. High-accuracy simultaneous 5-axis machining center.

Designed to deliver high speed, high-accuracy machining and ease of operation. The CV5-500 defines a new standard for 5-axis machining offering exceptional value.

MACHINE SPECIFICATION:

- Fully supported trunnion table with roller gear cam on B/C axes and roller linear guides on X-, Y- and Z-axes
- High-rigidity 12,000 min-1 spindle 18.5kW/119.4Nm (10% ED rating) with an optional 18,000 min-1 high-speed spindle.
- 30 tool magazine with high-speed ATC (1.3 seconds tool-to-tool)
- Minimised footprint with side chip conveyor
- High-performance MAZATROL SmoothX CNC delivers exceptional 5-axis machining results.



QT-250

The QUICK TURN 250 CNC turning center brings together advanced technology, productivity and value to deliver exceptional performance for shops large and small. With a standard through-hole chuck package, this 2-axis machine efficiently processes a wide range of part sizes.

Plus, the machine comes equipped with the SmoothG CNC that features MAZATROL conversational programming and EIA-ISO programming. For fully automated operations, the machine can be outfitted with a bar feeder or robotic automation to maximize your profit potential.

MACHINE SPECIFICATION:

- Powerful, integrated main turning spindle
- CNC programmable tailstock
- Through-hole chuck packages
- Automatic tool eye
- Easy integration of bar feeders and gantry robots for unmanned operation



CNC ROUTER - 2.5m x 1.3m

The Spartan CNC Router is perfect for a wide range of production activities, from Plastazote Foam, Aluminium Composite Material to Hard Wood. This router can be used for the simplest of projects you may require, all the way to mass producing on a continuous level.

MACHINE SPECIFICATION:

- Powerful, integrated main turning spindle
- Bed Size (mm): 1300 x 2500
- High Performance Stepper Drive
- 2.2 - 4.5kW Performance Spindles With The 2.2kW & 3.0kW Being Water Chilled



CNC ROUTER - 1.2m x 1.2m

The Spartan CNC Router is perfect for a wide range of production activities, from Plastazote Foam, Aluminium Composite Material to Hard Wood. This router can be used for the simplest of projects you may require, all the way to mass producing on a continuous level.

MACHINE SPECIFICATION:

- Powerful, integrated main turning spindle
- Bed Size (mm): 1200 x 1200
- High Performance Stepper Drive
- 2.2 - 4.5kW Performance Spindles With The 2.2kW & 3.0kW Being Water Chilled

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