OUR CURRENT RANGE OF INDUSTRIAL PRODUCTS INCLUDE:

- MULTICUSHIONS
- BUFFERS
- FLANGED ISOLATORS NON-INTERLOCKED
- FLANGED ISOLATORS SAFETY INTERLOCKED
- RECESSED FLANGED ISOLATORS
- CENTRE FIXING ISOLATORS
- SHEAR TYPE ISOLATORS
- SUSPENSION & HVAC RANGE
- FREE STANDING ISOLATORS
- PLATE ISOLATORS
- HY-DEFECTION ISOLATORS
- INSTRUMENT ISOLATORS
- FLEXIBLE BUSHES METAL
- FLEXIBLE BUSHES PLAIN
- MISCELLANEOUS RUBBER PRODUCTS
- SAFETY PROTECTION
- AUTO UNIVERSAL PRODUCTS AND HOSES

www.mackayrubber.com.au

MACKAY

INDUSTRIAL

Mackay is a major supplier of a diverse range of engineered rubber and bonded metal/rubber & composite products for the automotive, mining, rail, construction and industrial markets. Our products are exported worldwide.

Our technical expertise, customer-responsive service and commitment to continuous improvement ensure that Mackay's reputation for reliable high-quality products will continue.

Design and development of optimal engineered rubber product solutions requires advanced design technologies and skills, breadth and depth of expertise, advanced rubber development expertise, and a variety of manufacturing processes.

- **CAE design capabilities across a wide range of materials**
- **Long history of providing Australia with off the shelf vibration and noise isolation solutions.**
- **100% Australian owned**

Mackay offers an extensive range of Vibration Isolators and Motor Mounts for a wide array of applications, including those with loads up to 17,000 kg. With over 50 years of experience, Mackay supports industries and the automotive sector across Australia and internationally. Unique in the market, Mackay not only supplies but also designs and manufactures vibration isolators, providing expert recommendations tailored to specific needs. Their broad selection and unmatched product support set them apart in the industry.

CAPABILITIES

- **Process types: injection moulding, compression-transfer moulding, and extrusion.**
- **In-house compound development, mixing and certification of compounds.**
- **Assembly of rubber-metal mouldings into associated forged or cast components.**
- **Moulding press capacity up to 1,000 tonnes, capable of moulding parts up to 2.4m x 1.5m**
- **Shaped low-pressure hoses for water, air, and fluid for industrial custom equipment.**
- **Moulding Press Capacity up to 1000 ton. Capable of moulding up to 2.4m x 1.5m**

MACKAY

MULTICUSHIONS

MULTICUSHIONS

The Multicushions system is a new approach to isolator selection. The large range of sizes and durometers combined with interchangeable metric and imperial studs allows selection of the most appropriate cushion isolator for the application.

First choose the best cushion for the application and then choose the desired stud combination.

MULTICUSHION KITS

A flexible water hose (Not suitable for oil, fuel MULTICUSHION® isolators are made from high-grade natural rubber and all metal surfaces are passivated to automotive OEM standards.

The studs are easily inserted with a screw driver whilst the microBOND™ 'fastener adhesive system' provides secure thread locking.

BUFFERS

CYLINDRICAL RUBBER BUFFERS

The aim of any cylindrical rubber buffers Mackay's Cylindrical Rubber Buffers are designed for optimal energy absorption, using a special high-hysteresis rubber compound bonded to a steel base plate. The substantial rubber content ensures high efficiency, and Mackay can also provide simpler, cost-effective designs for applications with lower force requirements in new machine developments.

RUBBER BUFFERS

As a leading supplier of bonded rubber buffers in Australia, Mackay focuses on creating buffers that integrate seamlessly into equipment, reducing shock transmission and supporting economic design. These buffers are particularly useful in vehicle suspension systems, providing effective stiffening under increasing loads. For optimal performance, users should first select the appropriate cushion for their application, followed by the desired stud combination.

CONICAL BUFFERS

Our conical buffer Australia supply provides effective control of vibrations in machines and mechanical noise.

MULTI BUFFER

AMackay, a leading manufacturer and supplier of multi buffers in Australia, designs these buffers to provide superior control over vibration, shocks, and sound, while effectively absorbing impacts. The multi buffer face profile is carefully crafted to feature a simple slip-resistant surface, ensuring optimal impact absorption and static properties.

FLANGED ISOLATORS NON-INTERLOCKED

FLANGED CONFLEX ISOLATORS

Conflex isolators are designed to meet almost all machinery installations within the load range. available in four rubber hardnesses they are the versatile answer to your mobile or static vibration problems.

SLIMLINE ISOLATORS

Our SlimLine isolators are built to offer increased protection to rubber inclusions in machine applications. They provide high isolation efficiency with the same load capacity in both compression and shear applications.

Our SlimLine isolators are ideal for practical applications where constraints in horizontal motion are permissible but a good amount of vibrational isolation is required during vertical motion.

FLANGED STABILEX ISOLATORS

Our flanged STABIFLEX isolators offer a metal protection shield for the rubber in a wide variety of applications.

The STABIFLEX isolators are designed to provide excellent isolation in both compression and shear loadings.

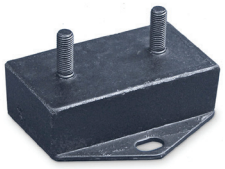
These are suitable in applications wherein both the horizontal and vertical planes require vibrational isolation.

BECA VIBRO-ISOLATORS

Beca Vibro-Isolators are flexible both horizontally and vertically. They are particularly suitable for machines producing horizontal vibration forces. The horizontal deflections are approximately the same as the vertical deflections.

The isolator is effective against all vibrations, irrespective of the direction in which they act.

GENERAL MACHINERY ISOLATORS



General machinery isolators have been engineered to meet various vibrational problems found within any industry and are easily applicable to a wide variety of applications.

The features of these isolators include:

- All angle flexibility
- Ease of installation
- Maximum durability
- Designed for stability
- Ease of selection
- Increased service life on equipment

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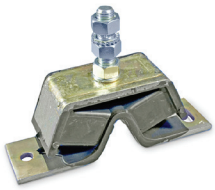
FLANGED ISOLATORS NON-INTERLOCKED

DOUBLE V-SHAPED FLANGE



The V-shaped flange isolators are suitable for marine mount working at shear compression. Two metal parts facilitate the installation through a screw at the top and two holes for securing it to the chassis.

Our V-shaped flange isolators are designed to make provision for major deflections at low loads. As such, the natural frequencies are inherently low and consequently ideal for engines.

SINGLE V-SHAPED FLANGE

The single V-shaped flange is suitable for small engines and consists of two symmetrically-tilted metal parts with a screw-on one side. Its generator mounts make it possible for installations that possess a high magnitude of elasticity, allowing for lower frequencies and enhanced vibration isolation.

Our V-shaped flanged isolators are ideal for low-load engines that require high levels of vibration isolation.effective control of vibrations in machines and mechanical noise.

FLANGED ISOLATORS SAFETY INTERLOCKED

BRB FLANGE ISOLATORS

The BRB type mounts are anti-vibration elements which work the rubber in shear and compression. Their tall height profiles produce large deflections, low natural frequencies, and excellent vibration isolation results.

This range of mounts is suitable for applications where high vibration isolation in the 85-95% range is a priority.

FLANGE PEDESTAL ISOLATORS

The Mackay pedestal mounting combines excellent isolation characteristics with convenient installation features, making it ideal for a wide variety of common installations.

It is typically employed for mounting pumps, compressors, fans, and other machinery, in static and some mobile applications.

Design features include security against excessive overload and rebound movement, a protective stainless steel cover, and an attractive lightweight cast aluminium base. .

FLANGE ISOMOUNTS

The flange Isomount is ideal for marine applications. These general-purpose vibration isolators.

Available in three different sizes, the Isomount comes with a mechanically

galvaniSed base and various options for rubber hardnesses. In addition, they can also be supplied with two types of specialist height adjusters for better functionality.

RECESSED FLANGED ISOLATORS

Suitable for transmission cooler & power steering return hose applications

An In-Line filter that can be installed on the return line of any hydraulic Power Steering system or Automatic Transmission Cooler Line.

CENTRE FIXING ISOLATORS

TWO-PIECE COMBINATION ISOLATORS

The centre fixing two-piece isolator is made of two parts of elastomer bonded to a central tube:

Interior reinforced: cylindrical tube

Elastomer: Neoprene. Range of three different stiffnesses.

COMBINATION ISOLATORS

Combination isolators provide the excellent shock-absorbing properties of rubber in shear and compression with good dynamic cushioning under rugged operating conditions.

These isolators are designed to be used as an assembly. The rebound unit limits the free movement of the equipment to some extent, but this restriction is very desirable in mobile installations.

DUAL COMPRESSION ISOLATOR

The Mackay dual compression isolators have been engineered to isolate vibration, control shock and reduce noise due to structure-borne vibrations.

They have a high load-carrying capacity with improved multi-directional resilience and built-in rebound protection.

SHEAR TYPE ISOLATORS

U-FLEX SHEAR ISOLATOR

Mackay Heater Valves are a premium Mackay U-Flex isolators are a general-purpose isolator which offers excellent protection against vibration and shock to a wide range of applications including electronic apparatus, vibratory feeders, general machinery as well as equipment in packing cases during transit.

U-Flex isolators are most flexible along the X and Y planes when the rubber is used in shear and offer greater stiffness along the Z plane where the rubber is used in compression. This characteristic is particularly useful when constrained motion is required in one direction.

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MACKAY

SUSPENSION & HVAC RANGE

SPRING MOUNTS

Spring mounts are crucial components that help to isolate vibrational energy and shock from machinery. These vibration isolators are particularly prevalent in machinery equipped with reciprocating or rotating parts, as any imbalances in the moving parts generate vibrations.

SYLOMER PADS

Sylomer pads are super-effective in avoiding vibrational energies and mechanical noise through a solid material by introducing elastic isolators.

TRAXIFLEX SUSPENSION ISOLATOR

Traxiflex suspension isolators effectively eliminate noise from piping and suspended equipment.

The typical applications include:

- Suspension and insulation of single pipe against vibrations
- Insulation of acoustic false ceilings
- Suspension of overhead hot air heating ducts.

SUSPENSION SPRING ISOLATOR

Used for suspension in air-handling, pipework, or similar applications. An extra rubber element is included to provide a substantial improvement in the isolation of mechanical noise from the system

FREE STANDING ISOLATORS

SIMPLE MACHINERY FOOT ISOLATORS

One of the most simplistic yet effective foot isolators that can provide stable vibrational isolation and support in applications such as small generators, small compressors, and portable equipment.

MINIFIX ISOLATORS

MINIFIX is mechanical support that is composed of a rubber foot with a grooved anti-slip base and a threaded stud which allows the equipment to be accurately adjusted.

ADJUSTABLE RUBBER FEET ISOLATORS

The adjustable rubber isolators offer a wide variety of variable isolator setups wherein dimensional values, hardness, and load capacity are the parameters that combine to give extensive adjustability and versatility in operation.

SURE FOOT LEVELING ISOLATORS

Mackay Sure Foot Leveling Isolators are designed for cost-effective machine leveling for isolator loads up to 6000 kg.

PLATE ISOLATORS

Where you require a isolator of straight forward design to provide an uncomplicated solution to controlling vibration and shock , the range of Mackay Plate Mountings provide the answer. These isolators are designed to protect equipment and machinery from damaging vibration and shock and have an excellent capacity for energy control.

HY-DEFLECTION ISOLATORS

TWO-PIECE COMBINATION ISOLATORS

Hy-Deflection Isolators provide flexible support for mechanical apparatus which is subject to intermittent or continuous, low frequency, high amplitude vibration. The design provides soft spring rate quality in all directions with exceptional horizontal stability.

INSTRUMENT ISOLATORS

The Mackay range of instrument isolators are widely used to isolate steady static vibration and the control of occasional shock. These mountings are easy to install and are in configurations to suit a variety of design requirements. It is generally recommended that snubbing washers be used to provide an interlocking system of metal parts which act to prevent damage from overload or excessive shock impact.

FLEXIBLE BUSHES

PLAIN RUBBER

METAL TUBE & RUBBER

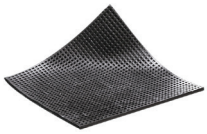
MISCELLANEOUS RUBBER PRODUCTS

BONNET CLAMP

A very strong and rugged bonnet and hatch safety clamp specially designed to secure against accidental opening.

Stoutly molded-in heavy-duty black rubber and is complete with mounting plates.

MACHINERY MOUNTING PADS AUSTRALIA



Used for suspension in air-handling, pipework, or similar applications. An extra rubber element is included to provide a substantial improvement in the isolation of mechanical noise from the system.

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SAFETY PROTECTION

WHEEL CHOCKS

RUBBER WHEEL CHOCKS: provide a firm grip on almost any surface and prevents tires from rolling.

DOCKING BUFFER

The snubber design has an important advantage. During loading the rubber within the chain is put into compression, when the load is released the rubber springs back and the unit returns to it's normal shape. It consists of an endless circle of chain encased in a solid block of rubber. When a sudden impact or tension is applied, the chain expands and the shock is absorbed by the rubber

SLING PROTECTOR

A textile reinforced fully vulcanised high grade cut and abrasion resistant rubber sling and goods protector.

Suits webbing up to 90mm wide.

FLEXI-STRAPS ISOLATORS

High-quality rubber straps and fasteners that protect your load without any flap shifting or sagging.

- Its notable features include:
- Reinforced ends – The hooks will not pull out
- Quick on/off-hook – Eliminate rope tying
- Plastic coated hooks – Does not mark paintwork
- Non-staining, long-life rubber – Weather-resistant compound

AUTOMOTIVE - UNIVERSAL PRODUCTS

BLANKING CAPS

RUBBER WATER BLANKING /BLOCK OFF CAP

Round End plug stop pipe

CLAMPS

PERFORATED BAND, PART STAINLESS STEEL.

- Superior design, single piece band providing reliable performance
- For use in automotive, farm machinery, industrial and general purpose applications
- Made from tough 301Stainless Steel band & housing with zinc plated carbon steel screw
- Built to SAE J1508 Standard
- Hexagonal head slotted worm drive screw for easy fitting and superior sealing
- Conveniently sized in packs of 10 with part number and barcode on the label

*Parts sold each MOQ of 10 (10 pcs per box)

AUTOMOTIVE - UNIVERSAL PRODUCTS

HOSE INSERT SPRINGS

UNIVERSAL HOSE SPRINGS

Galvanised springs for use in non-standard applications where the hose may be more susceptible to vacuum collapse

HOSE ID REDUCERS

HOSE REDUCER (EPDM) WATER-AIR

TRANSMISSION COOLER & P/S RETURN FILTER

IN-LINE FILTER

Suitable for transmission cooler & power steering return hose applications

An In-Line filter that can be installed on the return line of any hydraulic Power Steering system or Automatic Transmission Cooler Line.

HOSE STORAGE SOLUTIONS

SOLVE YOUR HOSE STORAGE PROBLEMS

Mackay offer two hose merchandisers.

These merchandisers are designed to be used as a shop front display or to keep your entire hose range organised behind the counter.

HEATER VALVES

HEATER VALVE TAPS

Mackay Heater Valves are a premium grade product manufactured to meet or exceed OEM standards.

Suits: Universal Fitting, Hot Rods, Machinery

Pull On/Open - Push Off/Closed

UNIVERSAL LINK RODS

SWAY BAR LINK RODS

Universal for
Medium, Large & 4WD Vehicles

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MACKAY

HOSE PRODUCTS

BULK STRAIGHT HOSE

HEATER HOSE - SAE J20R3
Windscreen washer tubing - sae j1037

Radiator overflow hose

Emissions control, fuel vapour & vacuum hose

Fuel & oil hose - SAE j30r7

Fuel injection hose - SAE j30r9

Transmisison oil cooler - SAE j1532 & power steering return hose - SAE 189

MACKAY-FLEX HOSES

A flexible water hose (Not suitable for oil, fuel applications) designed to suit universal Automotive and Industrial applications.

MackayFlex™ hoses can bend and flex in almost any direction and is an ideal replacement for unusual / emergency applications or permanent use. Made from quality EPDM rubber, with textile reinforcement and rubber encapsulated steel inner spring construction.

Suitable for Water Applications

Working Temperature: -40 degrees C To +125 degrees C.

Burst Pressure: According to SAEJ20R5 standards

45° AND 90° HOSE BENDS

UNIVERSAL HOSE BENDS
Available in two specifications, one is suitable for water applications and the other is suitable for fuel and oil applications.
WATER - suitable for plain water and automotive coolant applications.
Sizes: 8mm to 19mm ID
Working Temperature Range: -40°C to 125°C (-40°F to 257°F)
FUEL & OIL - use two constructions depending on size
Sizes: 25mm to 63mm
Working Temperature Range: -34°C to 100°C (-29°F to 212°F)

Z & U HOSE BENDS

UNIVERSAL "Z" HOSE ™ BENDS

Universal Applications for Water Coolant, Low- Pressure Fuel & Oil and EFV & PCV
Covers majority of small-bore market, Reduced Inventory
Specially designed to provide the largest small-bore application coverage from a few part numbers.

U HOSE ™ BENDS

Universal Applications for Water / Coolant Coolant Hose UHB##

Suitable for plain water and automotive coolant applications.

Designed for long service life with resistance to heat, ozone and electrochemical degradation.

6mm to 19mm ID

HOSE PRODUCTS

REINFORCED PVC HOSE

Constructed using an Ozone and UV resistant Polyvinyl Chloride

(PVC) and reinforced for high pressure transfer of Air and Water. Mackay PVC Hose can also be used for short term low pressure transfer of Fuel and Oil.

HOSE SPECIFICATIONS:

- Maximum Recommended Working Pressure for Air and Water: 101psi (0.7MPa)
- Minimum Burst Pressure for Air and Water: 406psi (2.8MPa)
- Working Temperature Range: -10°C to +60°C

APPLICATIONS:

- Transfer of Air.
- Transfer of Water.
- Short term low pressure transfer of Fuel and Oil, such as carbureted lawn mowers

1m STRAIGHT MOULDED HOSE

STRAIGHT HOSE

Mackay Universal Straight Hose is available in two specifications, one is suitable for water applications and the other is suitable for fuel and oil applications.

STRAIGHT HOSE – WATER

The straight moulded water hoses are suitable for use with plain water and automotive coolant applications.

Manufactured using an electrochemical degradation (ECD) resistant EPDM rubber tube, lock-stitch knitted Rayon fibre reinforcement, with an EPDM rubber cover for heat, abrasion and ozone resistance.

19mm - 63mm ID

Sizes 22mm to 63mm ID Exceeds Radiator Hose Specification SAE J20R4 Type EC Class D-1 and Class D-2

Working Temperature Range: -40°C to 125°C (-40°F to 257°F

STRAIGHT HOSE – FUEL & OIL

The straight moulded fuel and oil hoses are suitable for fuel filler, turbo intercooler and low pressure fuel applications with leaded and Unleaded petrol, Ethanol blended fuels up to E85, Diesel, lubricating oil as well as crankcase and fuel vapour applications.

Manufactured using an OE developed Nitrile/ PVC (NBR/PVC) blended rubber for the tube and cover chosen for its Fuel, Oil and ozone resistance, with a knitted high tensile strength Para-Aramid fibre reinforcement for maximum burst resistance.

Exceeds Fuel Hose Specification SAE J30R6

Working Temperature Range -34°C to 100°C (-29°F to 212°F)

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	Hanger Spring Mounts	Free Standing Spring Mounts	Base Series Spring Mounts	Conflex & Dome Rubber Mounts	Sylomer & M164 Pads
CONSULTING ENGINEERS					
Acoustic, noise and vibration	I	I	I	I	I
Commercial HVAC	I	I	I	I	I
Commercial refrigeration	I	I	I	I	I
HVAC system design	I	I	I	I	I
Industrial HVAC	I	I	I	I	I
Mechanical - Building Services	I	I	I	I	I
CONTRACTORS					
Air conditioning	I	I	I	I	I
Design and construction	I	I	I	I	I
Ductwork	I	I	I	I	I
Heating	I	I	I	I	I
Installation	I	I	I	I	I
Maintenance	I	I	I	I	I
Plumbing	I	I	I	I	I
Residential	I	I	I	I	I
AIR CONDITIONERS					
Central plant		I	I	I	I
Ducted systems	I				
Package units (one piece)		I	I	I	I
Package units (rooftop)		I	I	I	I
Split systems		I	I	I	I
AIR CONDITIONING SYSTEMS					
Absorption		I	I	I	I
Chilled water		I	I	I	I
Commercial		I	I	I	I
Evaporative		I	I	I	I
Fresh air		I	I	I	I
Industrial		I	I	I	I
Refrigerated		I	I	I	I
Residential			I	I	I
AIR DISTRIBUTION					
Ducting	I				
Fans	I	I	I	I	
CHILLERS					
Absorption		I	I	I	I
Air cooled		I	I	I	I
Water cooled		I	I	I	I
COMPRESSORS					
Piston		I	I	I	
Rotary		I	I	I	
EVAPORATIVE COOLERS					
Non-residential		I	I	I	I
Residential		I	I	I	I
Evaporators		I	I	I	I
HEATERS					
Duct mounted	I	I	I		
Electric		I	I	I	I
Gas		I	I	I	I
Heat pump		I	I	I	I
Steam		I	I	I	I
HEATING SYSTEMS					
Commercial		I	I	I	I
Industrial		I	I	I	I
Heat exchangers		I	I	I	I
Heat pumps		I	I	I	I
PUMPS					
Centrifugal		I	I	I	
Diaphragm		I	I	I	
Rotary Screw		I	I	I	
CONDENSERS		I	I	I	I
REFRIGERATION			I	I	I
PIPES AND FITTINGS	I	I			
RECEIVERS		I		I	I

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MACKAY

Mackay Australia Pty Ltd is a 100% Australian-owned Leading Manufacturer of Engineered Rubber Solutions for Automotive, Defence & Industry.

With an industry history commencing in 1932 as a small but efficient supplier of automotive parts, Mackay has grown to become a major supplier to local and global markets in the field of Rubber Technology.

AUTOMOTIVE

Quality Automotive Aftermarket and OEM Parts Supplier.

Mackay has a proud history of supplying Automotive OEM's such as GM Holden, Ford, Chrysler, Nissan, Toyota and Mitsubish.

- Mackay is Australia's only reinforced rubber hose manufacturer.
- Mackay has Australia's largest range of moulded hoses (over 5000 shapes)
- Mackay are experts in rubber compound development tailored to specific applications and requirements.
- Engineers work closely with customers to fully understand critical issues to achieve a workable and lasting engineered solution.
- Management and protection of IP (customer and Mackay).
- ISO 9001 – Quality Certified Company
- ISO 14001 – environmental certified company

RAIL

A major supplier of a diverse range of engineered rubber and bonded metal/rubber and composite products for the Rail Industry in Australia and overseas.

Supplying the Australian Rail Industry with components for over three decades, supplying both replacement and OEM parts made to demanding specifications.

Rubber and rubber-metal bonded rail products manufacturer encompassing design, development, manufacture, durability testing and through-life support.

INDUSTRIAL

Qualified experts in rubber and rubber and metal bonded products manufacturer including design, development, manufacture, durability testing and through-life support.

A major supplier of a diverse range of engineered rubber bonded products and bonded metal/rubber & composite products for the automotive, mining, rail, construction and industrial markets. Our products are exported worldwide.

Our technical expertise, customer-responsive service and commitment to continuous improvement ensure that Mackay's reputation for reliable high-quality products will continue.

DEFENCE

With a highly experienced team, our products are developed and tested according to rigorous international standards and demands which carry various security classifications including ITAR/EAR compliancy.

Strong partnerships, with organisations such as the Defence Science and Technology Group (DST Group), have resulted in truly world class products that exhibit significantly improved performance and durability compared to equivalent products in their class.

These products are further enhanced by a mature supply chain and logistics management system, with exceptional through life support capabilities.

From design to prototypes, simulated field testing to finished proven products, and a commitment to through life support, we offer a complete service to Defence customers. This service revolves around our mantra of: QCDD – Quality, Cost, Delivery and Design.

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