ARaymond

MORE THAN FASTENING

AUTOMOTIVE NORTH AMERICA

PREFERRED PRODUCTS CATALOG

Dear Partner,

I am happy to share with you our new ARaymond Catalog North America!

While our catalog may be new, our trusted knowhow, engineered products and commitment to you, our customers, has not changed. Our focus is on design, optimized manufacturing, and delivery of high quality clips and fixations to compliment your assembly architectures.

With our century and a half of experience and renowned technological expertise to draw on, ARaymond is a global leader in assembly and fastening solutions for the automotive industry. *We are working to create value for our customers around the globe, which we consider one of our highest priorities.* ***Our 5th generation owned family business is focused on the future*** *and helping shape the North America fastening automotive market. Innovation is in our company's DNA and we deploy this mindset to the products we offer, manufacturing processes, customer services and our leadership teams.*

As we innovate, ***ARaymond creates optimized products in our 26 locations*** *using the specific advantages of metal, plastic or the combination of each to bring value-add while reducing assembly costs and increasing productivity. Our products are fastening millions of vehicles around the world. Applications include interior and exterior trim, IP, powertrain, electrical distribution, thermal management, fluid handling, electric and autonomous driving vehicles.*

Thank you to all of our customers worldwide who have trusted in ARaymond for more than 150 years for their fastening and assembly solutions. From all of us on the ARaymond North American team, I am pleased to share our new and refreshed product catalog. We are dedicated to working with you in a collaborative manor to solve and develop the next solution for you!

Ryan AYMEN
Director of sales
ARaymond North America

ARAYMOND - EXPERT IN THE COMPLETE PRODUCT DEVELOPMENT PROCESS

At ARaymond we capitalize on a complete spectrum of capabilities in the product development life cycle to design innovative assembly solutions.

By understanding your needs and taking into account your manufacturing processes and methods, our experts are able to design personalized assembly solutions for your specific needs. We offer automation and assembly-line analysis, as well as process development as part of our comprehensive strategic approach for improving customer productivity.

In the product development process, digital simulation has been fully integrated for non-linear and dynamic mechanics, rheology, and thermal and fluid transfer treatment.

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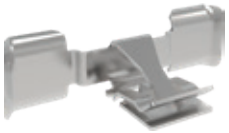 PAGE 24			PAGE 29
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PANEL EDGE	STUD	WIRE TO WIRE	SPECIFIC
N/A	N/A	N/A	PAGE 63

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N/A NOT APPLICABLE

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N/A		N/A	
N/A	N/A	N/A	
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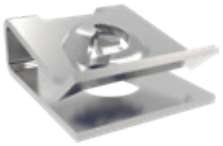 PAGE 104	N/A	N/A	

PANEL EDGE	STUD	WIRE TO WIRE	SPECIFIC
PAGE 121	N/A	N/A	
N/A	N/A	N/A	

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N/A NOT APPLICABLE

METAL AND PLASTIC EXPERTISE

METAL TRANSFORMATION

At ARaymond we manage all major metal transformation processes–cutting, bending and stamping. We work with spring steel, stainless steel, brass and copper in thicknesses of 0.2 to 6.35 mm, and can provide single or multi-layer surface treatments (Zn, Zn-Ni, Zn-Fe, etc.). We have in-house capabilities to handle the entire process from design to production, surface treatment and quality control and we have the capacity to produce up to 140 million pieces per year for a specific reference.

PLASTIC INJECTION

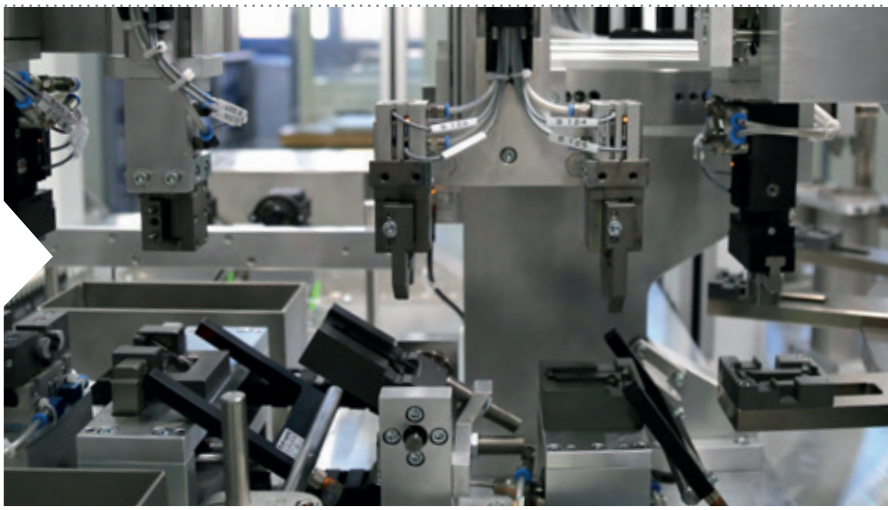
The ARaymond facilities are equipped with late model, standard and bi-injection molding machines with the capability to run less than 10 second cycle times and manage 128-cavity molds. Our bi-injection and overmolding processes are compatible with over 300 thermoplastic materials (polyamide, polyethylene, polyvinyl acetates, polypropylenes and more).
For applications calling for tracking, RFID (Radio Frequency IDentification) tags can be incorporated directly into the product.

Bi-injected cable strap

Excellent sealing performance to protect against water ingress for round and oval holes.

ASSEMBLY

ARaymond's plants worldwide handle all modes of assembly: manual, semi-automated and cycle-time optimized fully automated assembly. Our many years of experience have made us experts in designing and building semi and fully automatic assembly machines and devices.

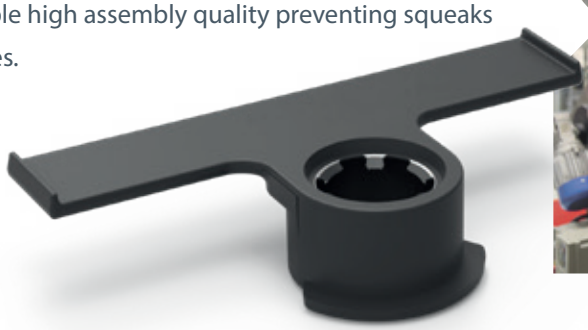


Airbag clip

High retention performance side curtain airbag fastening and retention for safety of all passengers. Easy pre-assembly into the airbag module with flexible and adaptive legs for a simple manual assembly into the car body.

Overmolded tape-on clip with integrated metal starwasher

For mounting on plastic or plain metal studs. Repeatable high assembly quality preventing squeaks and rattles.



Multi-material bracket with ultrasonic welded plastic interface and crimped nut

An assembly that combines the best of each material: strength for the metal bracket, and design freedom for the plastic receiver. The final assembly is managed with a tool designed by ARaymond to improve assembly ergonomics.

LIGHTWEIGHT ASSEMBLY

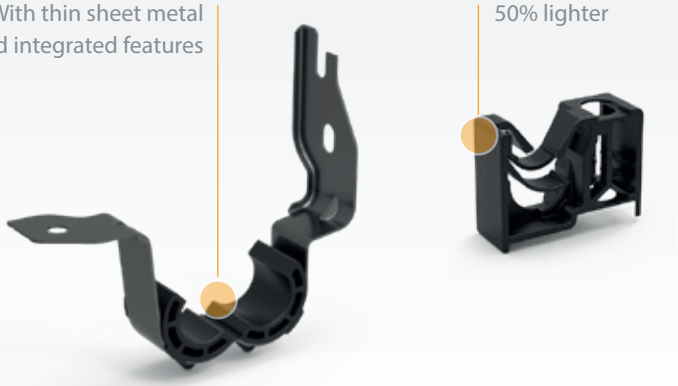
AND SOLUTIONS FOR LIGHTWEIGHT COMPONENTS

ARaymond's engineers collaborate with our customers to reduce complexity, integrate and combine features, or use alternative materials to reduce mass throughout the vehicle. We have developed innovative designs and assembly solutions for lightweight applications in order to reduce weight while delivering the required level of performance.

OPTIMIZED DESIGN

With thin sheet metal and integrated features

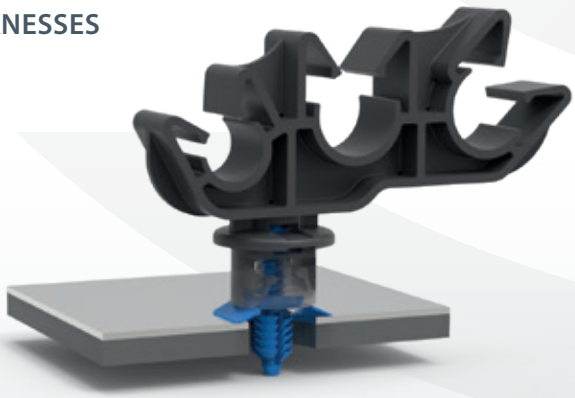
50% lighter



ADAPTS TO A RANGE OF PANEL THICKNESSES

For composite interfaces

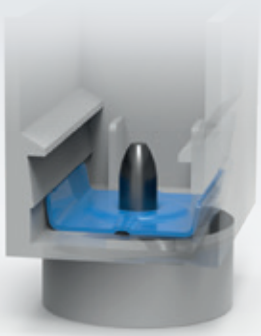
For any lightweight interface



SOLUTIONS

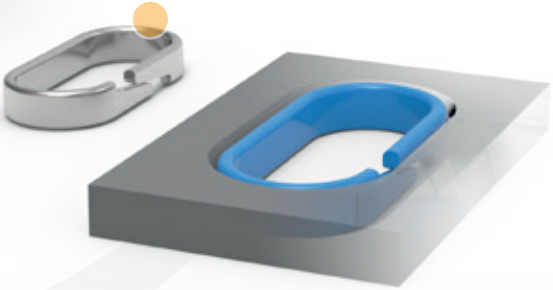
REDUCED INTERFACE COMPLEXITY
for casted aluminum parts

CORROSION PREVENTION
for aluminum parts

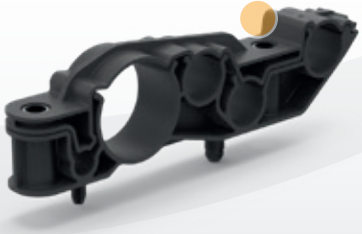


LOAD DISTRIBUTION
to prevent damage to lightweight parts

ANTI-CREEP
for plastic and composite parts



ALTERNATIVE MATERIALS
from metal to plastic



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Quick connectors for automotive fluid lines ..... p. 135

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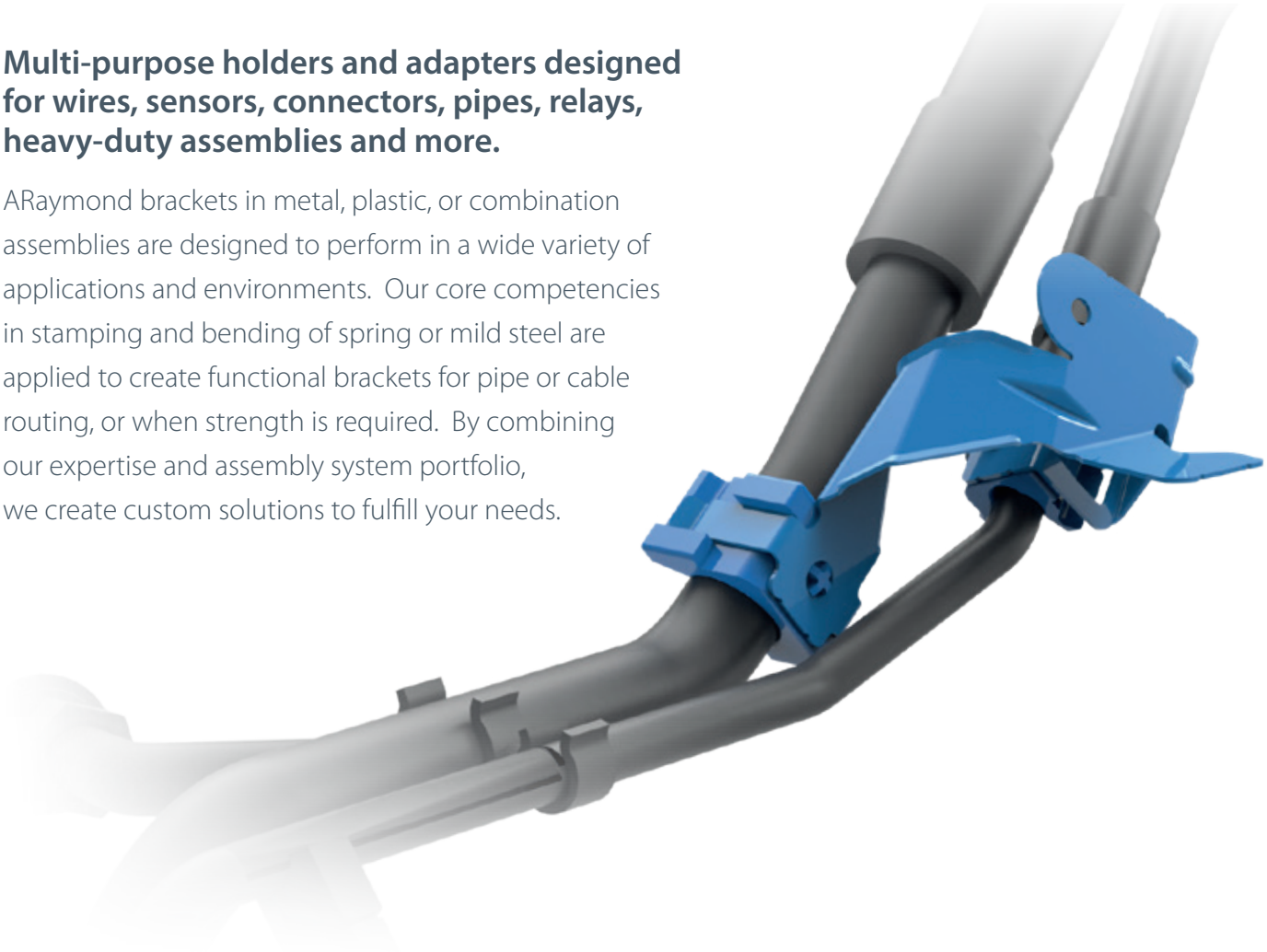
Brackets

Vehicle specific developments

Multi-purpose holders and adapters designed for wires, sensors, connectors, pipes, relays, heavy-duty assemblies and more.

ARaymond brackets in metal, plastic, or combination assemblies are designed to perform in a wide variety of applications and environments. Our core competencies in stamping and bending of spring or mild steel are applied to create functional brackets for pipe or cable routing, or when strength is required. By combining our expertise and assembly system portfolio, we create custom solutions to fulfill your needs.



ROBUST

Our spring steel brackets are ideal for harsh environments and high temperature areas, for applications such as underbody, engine bay, and wheel arches.

VERSATILE

We can provide versatile, complex shapes to suit almost any packaging requirement, as well as surface treatment to suit all vehicle environments.

WEIGHT SAVING

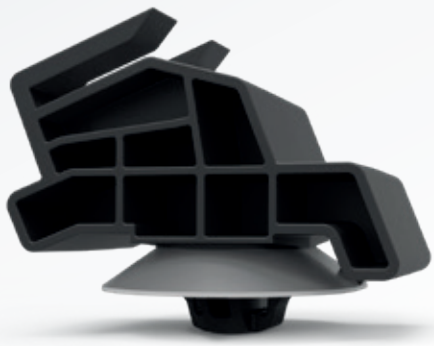
Spring steel is a light weight, high strength and yet flexible material specifically suitable for ergonomic fastening.
Our plastic brackets are lightweight and resistant to high temperatures.

SPRING STEEL BRACKETS

PLASTIC BRACKETS

PLASTIC & METAL BRACKET ASSEMBLIES

BI-INJECTION



Cable channels

Vehicle specific developments

Protecting or forming of the wiring harness

Our many years experience and design expertise allow us to develop cable channels which are optimized to fit both our wire harness customers and OEMs requirements and specifications.

ROBUST AND OPTIMIZED

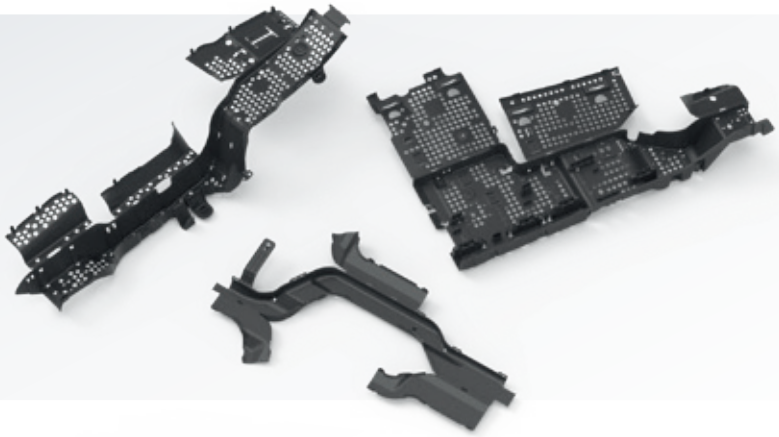
The ARaymond™ cable channels are made from injection-molded plastic components with or without metal inserts and provide robust performance throughout the vehicle's lifetime.
The parts allow an optimized number of fixing points while maintaining complete control of wire harness.

REPEATABILITY

Our designs facilitate quick and easy assembly line processes.
They provide **repeatable wiring harness assembly,**
even in complex packaging areas.

ENGINE BAY

INTERIOR



UNDERBODY

HIGH VOLTAGE

Covers & protectors

Vehicle specific developments

These parts protect, can provide serviceability, offer strain relief, and improve aesthetics.

ASSEMBLY VERIFICATION

Our parts can be embedded with QR / bar codes or RFID tags, for in-process assembly verification and automated visual inspection.

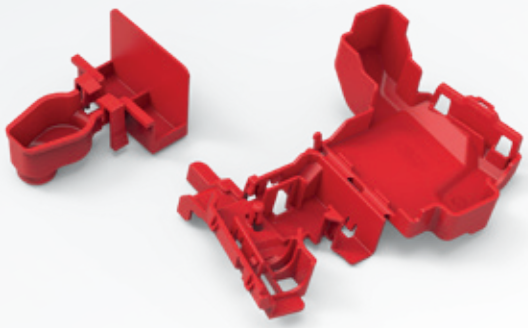
ROBUST DESIGN

Our protectors allow for several assemblies and disassemblies without loss of performance, and prevent short circuiting.

SECURE FASTENING

Our multifunction dress covers protect harness wires, provide strain relief, and beautify the engine compartment.

BATTERY POSITIVE COVERS AND PROTECTORS



ELECTRONIC BOX PROTECTORS

DRESS / STRAIN RELIEF COVERS

Custom development & manufacturing expertise

Vehicle specific developments

DESIGN, MANUFACTURING & ASSEMBLY OF COMPLEX PARTS AND MECHANISMS

ARaymond offers vehicle specific development services to respond to assembly challenges.
We handle all stages of the development process, from product design to manufacturing of complex or detailed parts.
We also combine our expertise in clipping, connecting, and bonding to provide the best assembly solution.

TOC Bracket

Lightweight bracket to replace a complex mounting assembly for transmission oil cooler.

Window positioning clip

Easy to mount and adjust for the tolerances of window positioning before bonding.

Window channel

Designed to ensure that rubber cannot move during the repeated up and down movements of the glass.

Roof molding flap

Easy to mount, delivered as a mounted part combining the two plastic parts, and in trays to allow a fully automatic assembly.

Modular connecting rod

Fixed between the suspension arm and the height sensor, and can be assembled automatically or manually due to a flat surface and audible confirmation.

ACTUATOR AND ADJUSTER

Our experts optimize the design of individual parts to be assembled together to ensure both a good assembly and end performance.

100 % control of assembly to ensure the functioning of the part.

Closure bumpers

Vehicle specific developments

A full range of solutions for closure systems

ASSEMBLY TIME REDUCTION

Our bumpers allow assembly time reduction due to a perfect fit and an easy assembly process.

PERCEIVED QUALITY

We can improve passenger comfort and vehicle aesthetics by reducing noise propagation and ensuring fit and finish adjustments.

STANDARDIZATION

Our bumpers can be used for different panel thicknesses allowing a wide flexibility of assembly.

POSITIONING BUMPERS

OVERSTROKE BUMPERS

EJECTOR BUMPER

Washer nozzles & accessories

Vehicle specific developments

Solutions for washing and cleaning

Developed to be mounted to the hood (top or bottom), cowl panel, wiper arm/blade, sheet metal, spoiler or in the CHMSL, our nozzles can handle all fluid delivery needs for the front and rear windshields or integrated to clean cameras and sensors.

OPTIMIZED DESIGN

Each nozzle is specifically developed per vehicle application to optimize the nozzle packaging within the vehicle environment and provide efficient fluid consumption.

MULTIPLE SPRAY OPTIONS

We offer many different nozzle options from fixed and adjustable spray patterns with oscillating fan, static fan, jet, or combination (oscillating and jet) patterns, with optional integrated check valves and heating elements to fulfill your cleaning and packaging requirements.

Nozzles and jumper tube assemblies

NOZZLE ACCESSORIES

A variety of ARaymond nozzle accessories are available including in-line check valves, quick connectors, unions, jumper hoses/tubes, and fasteners to support the routing, fastening, and connecting of the fluid supply line throughout the vehicle.

Quick connectors | Check valves

SOLUTIONS FOR CAMERA AND SENSOR CLEANING

Compact design for integration into sensor bracket or housing.
Low profile nozzle head provides a clear viewing field from camera or sensor.
Custom attachment methods for easy assembly and serviceability.

QUICK CONNECTORS
FOR AUTOMOTIVE FLUID LINES

As a **pioneer in plastic Quick Connectors**, ARaymond has developed and patented many QCs for more than 20 years.
Since then, we have **constantly innovated** to meet new customer requirements and prepare for emerging automotive industry trends.

Adapt to any packaging environment with a wide range of geometries, angles and multiways

VDA for Engine and Battery Cooling

P2L ® manual connection with visual confirmation

Check out our e-catalog:
http://connecting.araymond-automotive.com

BONDING SOLUTIONS
FOR AUTOMOTIVE FASTENERS

Successful bonding is not just about the adhesive choice; we develop **a complete tailor-made solution** guaranteeing **performance and satisfaction** through the last day of production.

For a secured and reliable bonding assembly
- Improved quality
- Process reliability
- Cost control
- Innovative designs and personalized support

ASSEMBLY OF ADD-ON PARTS ON GLAZING

Bonded **sensors and cameras**

- Bonded pre- or post-autoclave, which allows more freedom on the assembly line.
- No curing stock.

Bonded **opening glazing systems**

Allows reduced glass dimensions, lighter weight and improved design.

AESTHETIC FASTENING

This ready-to-assemble and invisible solution offers a perfect A-surface while maintaining strength. Because it is compact, packaging and shipping are more efficient and cost effective.

ANCHOR POINTS ON COMPOSITE MATERIALS

- Respect the structural integrity of lightweight materials.
- Eliminate corrosion between two incompatible materials.
- Easy to mount from a variety of positions.

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