

INNOVATION EXCELLENCE AND BEST-IN-CLASS ASSEMBLY & FLUID HANDLING SOLUTIONS



ARaymond

International expert in assembly and fluid handling solutions

We believe in the power of assembly solutions to solve complex assembly and integration challenges.

Our smart designs improve ergonomics, save space, simplify disassembly and maintenance, and allow for late customization in production line processes to increase efficiency.

We specialize in creating safe, solid, and durable solutions optimized to simplify system architecture, improve passenger comfort, and enhance perceived vehicle quality.





■ CLIPPING SYSTEMS

Cable & tube fasteners p.6
Panel & trim fastenersp.10
Threaded fasteners & retainersp.14
QUICK CONNECTORS
Flagship Quick Connectorsp.16
Thermal management solutionsp.17
CLEANING SOLUTIONS
Washer systemsp.18



& CUSTOMER COLLABORATION

For over 155 years, ARaymond has built a strong reputation for quality by partnering with customers to design innovative automotive fastening and assembly components and systems.

We manage every step of the product development cycle in-house, ensuring quality, cost, and on-time delivery from our nearby plants.



METAL TRANSFORMATION

We master all major metal transformation processes (cutting, bending, stamping) in-house. We personally handle all stages from design and production

to surface finishing and quality control at our own plants.



PLASTIC INJECTION

We use over-molding and bi-injection (multi-material molding processes) compatible with over 300 thermoplastic materials. You can count on us for on-time delivery of high-volume plastic part orders. ARaymond plants are equipped with presses up to 1,000 tons and can produce up to 200 million units per year of a given part.







ASSEMBLY

Our manufacturing plants are equipped to handle manual, semi-automated, cycle-time optimized automated assembly, and motion assembly with throughput of up to 24,000 parts per hour.



TUBE EXTRUSION

For the European market, we design and manufacture extruded, thermoformed, beaded, or braided tubes and coils for various applications such as braking systems, cooling circuits, and air suspensions.



CLIPPING SYSTEMS



CABLE & TUBE FASTENERS

Our solutions manage easily all tubes and cables such as continuous tubes, bundles of tubes or cables, corrugated hoses, and more.

Compatible with all common mounting strategies: round, oval, oblong, and square holes, blind holes, studs and edges.

They are available in several designs for a wide range of diameters, and panel thicknesses and can manage multi-housings.



CABLE STRAPS

- Wire harness diameters from 0.5 to +40 mm.
- Swivel components increase flexibility for multidirectional mounting.
- Double cable straps allow to manage more than one bundle.
- Lightweight straps cover all wire harness diameters up to 25 mm, reducing waste and costs, and optimizing shipping and logistics.



Bi-injected seals for watertightness

NEXT GENERATION EDGE FASTENERS

Edge biter fastening reimagined

- Eliminates scratch lines, greatly reducing corrosion concern on metal. Allows for side-to-side positioning
- before engagement.
- · Avoids contamination caused by scratching.



Electric wire harness

Weight saving
Temperature resistant
Vibration & noise reduction
Watertightness
Modularity



TUBE HOLDERS & CABLE CLIPS

- Plastic and lightweight spring steel combinations.
- Broad range of options: live hinges, locking and adjustable lids.
- Metal parts for high-temperature environments.



Electric wire harness & fluid lines management



ROBUST CLIPS FOR HIGH VOLTAGE CABLES

- Fully serviceable due to robust cable latch feature.
- Integrated anti vibration feature against Buzz, Squeak and Rattle.



MODULAR SOLUTIONS

- Pre-assembled swivel clips range offers different fixing solutions and cable locking systems.
- Multiple fixing combinations and single or multiple cable housings available.





BONDED PLASTIC FLANGE + MODULAR SWIVEL CLIPS

Ideal for aluminium cooling plates, battery trays, battery covers, and similar surfaces.

Male and female parts can be combined to create custom fasteners.



CONNECTOR HOLDERS & PROTECTOR CAPS

- Protecting, covering, and mounting connectors.
- Available for any circuits unused at point of manufacture.



FUSE BOXES & RELAY HOLDERS

- Metal inserts, overmolded or assembled, provide secure and reliable fastening to vehicle.
- High quality laser marking process for identification of serviceable content.













PANEL & TRIM FASTENERS

All-in-one parts eliminating the need for multiple fasteners and complex assembly operations.

Screwless and easy to assemble, our fasteners accommodate most panel orientations and sizes.



Increased passenger safety
Serviceability
Compact packaging
Watertightness
Vibration & noise reduction

SNAP CLIPS • Time saving assembly solutions. · Easy servicability. • Embedded fasteners. • Without tools or screws. • Invisible once mounted. • Ergonomic push-in force. **Prevents vibration** over the car's lifetime, enhancing consumers' quality perception. Headliner & pillar trim Versatile headliner fasteners with panel locking features for sun visor, upper console, grab handle and sunglass pocket assembly. Pre-assembled on a supporting component. Instrument panel Pre-assembled & central on a projected component. console Small packaging for High retention force, tight environment ideal for front grill assembly.



TOOL-FREE DISASSEMBLY FOR EASY TRIM SERVICEABILITY

PANEL & TRIM FASTENERS



2-STAGE PANEL TRIM RETAINER

- Fits any A, B, or C pillar.
- A tool-free blind disassembly process facilitates trim replacement after a crash, without access cover.
- Two-component assembly produced on a fully-automated assembly line with camera quality inspection.



WHEN FASTENING SOLUTIONS BRING MORE SAFETY

AIRBAG CLIP

- Very low assembly force.
- High retention performance.
- Different packaging thickness possible.
- Simple disassembly with standard pliers.
- Serviceability,
 5 times without plastic deformation.



BONDED TRIM FASTENER FOR SIDE GLASS

Compact and high performance fastener for small bonded surfaces, providing an invisible fastening system.

High strength, compact clip designed to retain exterior trim tightly against the

body while preventing water intrusion.





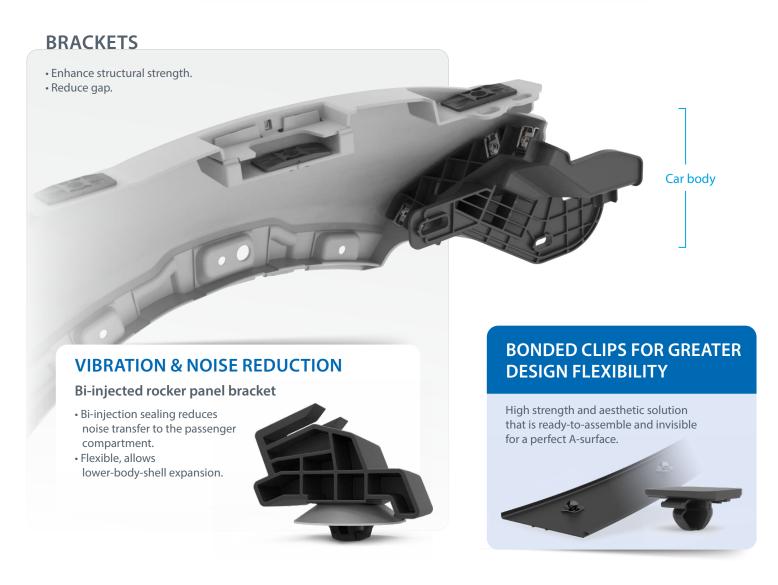


PUSH PINS

- Easy manual assembly and quick installation.
- Available with barbed feature which easily digs into the panel with minimal force.









THREADED FASTENERS & RETAINERS

Our solutions accommodate most panel orientations, sizes and thicknesses.

They are suitable for both metric or self-tapping and PT thread screws.

Anti-creep
Tolerance management
Vibration absorption
Watertightness
Robust

PANEL EDGE NUTS

- Self-retaining ring securing the pre-mounting and speeding up the assembly.
- Integrated guide flaps allow automated assembly processes.
- Electrically insulated nuts and watertight nuts are also available.
- Metric and non metric.
- Anti-creep mechanism.
- Prevailing torque.











Overall shape is optimized to achieve low push-in forces in line with ergonomic requirements while supporting high tensile loads.















ROBUST AND FLEXIBLE SOLUTIONS

Sliding snap-on nut

- Robust screw-in assembly with the flexibility of an embedded anti-creep ring for tolerance management.
- Watertightness ensured with foam.
- Sliding before tightening for good positioning.
- Allowing linear sliding movement after assembly.





EXPANSION AND PUSH-IN NUTS

- Fast and vibration-resistant assembly for blind and center-panel locations where only one side is accessible.
- Easy to snap in, self-retained by spring legs.
- Plastic for corrosion-resistance.
- Metric and non metric.

Interior trim















SHAFT RETAINERS

PUSH-ON STUDS RETAINERS

- For threaded or smooth studs.
- Compact design.



LIGHTWEIGHT 2-IN-1 SOLUTION

- Lightweight 2-in-1 strain relief plate that can reduce tailgate hinge weight by 75%.
- Distributes load and avoids composite creep.





PROTECTING & FINISHING

METAL ANTI-CREEPING RINGS Transmit the locking torque of the screw while preventing plastic creeping, thus stabilizing the attachement.

GROMMETS

- Reducing vibration and associated noise.
- High quality sealing.



PLUGS

- Water evacuation feature available.
- Easy serviceability.
- Tight seal.



SELF-ADJUSTABLE GAP COMPENSATION TAILGATE BUMPER



- Time-saving assembly process.
- Easy, quick and accurate calibration process.
- · Auto-adjusting height.
- Watertight, prevent gaps, vibrations & noise.
- Screwless locking by quarter-turn.



MODULAR CONNECTING ROD

- Transmits wheel movement to the car body for smart adaptive front lights.
- Low push-in force and high pull-out force.
- Automatic gap and wear compensation.
- Clean assembly process: no grease needed.

Customizable axis and orientation.



QUICK CONNECTORS FOR AUTOMOTIVE FLUID LINES

ARaymond Quick Connectors bring reliable and efficient assembly solutions for automotive fluid lines.

Using Quick Connectors shortens assembly cycle time and increases reliability, while requiring no tool to disconnect for easier serviceability.





FLAGSHIP QUICK CONNECTORS

SELFY® OC

Smart, Simple, Secure

The Selfy® Quick Connector offers the advantage of a visual, audible, and mechanical confirmation of connection: the locker latches automatically once the end piece is fully engaged.







1- AND 2-BUTTON QCs

Wide range of easy to use SAE Quick Connectors

Diameters ranging from 6.30-1/4" to 28.50-1 1/8" and compliant with SAE J2044 standard. Compatible with a wide range of applications.





Secure connections

Ergonomics

Time, space & weight savings



THERMAL MANAGEMENT SOLUTIONS

Electric and hybrid vehicles have greater demand in terms of performance, fast charging, and safety.

This creates requirements for more effective and more complex Thermal Management systems.

Our dedicated Quick Connectors enable easy, fast, and secure assembly of coolant lines.

COMPACT QC



Wide range of connector options

INTEGRATED FUNCTIONS



TEMPERATURE SENSORS

We produce temperature sensors, ready to be integrated in our wide range of Quick Connectors.

VALVES

Optimal flow control thanks to our integrated valves, such as one-way and shut-off, in our wide range of Quick Connectors.



VDA LOW PUSH QC



BONDING ON COOLING PLATES

PLASTIC END-PIECE FLEX-TO-BOND

Our proven bonding solution offers design flexibility and space savings by eliminating costly brazing/welding.



CLEANING SOLUTIONS

WASHER SYSTEMS

ARaymond has over 30 years of experience designing and producing in-house cleaning system components.

Our team works closely with customers to create value by improving assembly time, optimizing fluid usage efficiency, and ensuring impeccable cleaning of windshields, lamps, LIDAR, ADAS sensors, and camera lenses. Our nozzles have integrated functions such as non-return valves, seals, and heating.



REAR-VIEW CAMERA NOZZLE FOR AUTOMATED CAR SYSTEMS

NON-RETURN VALVES

OUICK CONNECTORS

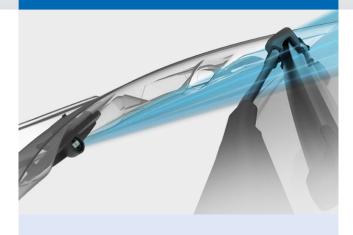
TELESCOPE NOZZLE FOR CAMERA & SENSOR CLEANING



- Integrated non-return valve.
- Spray operates in end position only.



WINDSHIELD FRONT NOZZLE



- · Lightweight nozzles designed to be integrated with sealing in a tight packaging space.
- They can be heated and equipped with an oscillating spray pattern to ensure maximum cleaning performance at any vehicle speed.





NOZZLES & JUMPER TUBES ASSEMBLY

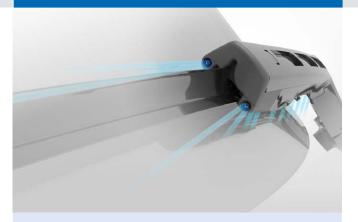
HIGH-PRECISION ADAS CAMERA & SENSOR CLEANING



- A compact, flexible, easy-to-integrate camera and sensor cleaning solution that can fit into even the most complex architectures.
- Ultra-low-profile nozzles for a precision jet.
- Optional space savers like integrated non-return valves.



EXPANDED WINDSHIELD CLEANING FOR ADAS FRONT CAMERA



- Innovative ADAS camera cleaning solution that integrate the nozzle directly into the washer arm for optimal cleaning.
- Water is sprayed precisely for optimal cleaning and water consumption even at high speeds, and standard wiper blades can be used.



ARAYMOND, AROUND THE WORLD



AMERICAS

USA & CANADA

Clipping Fasteners / Bonding Solutions

+1 248 853 2500

contact.us@araymond-automotive.com

Quick Connectors

+1 248 265 4000

contact.connecting.us@araymond.com

MEXICO

+1 248 853 2500

contact.mx@araymond-automotive.com

RRA7II

+55 19 3836-6900

contact.br@araymond-automotive.com

ASIA

CHINA

Clipping Fasteners / Bonding Solutions

+86 0511-853 09 100

contact.cn@araymond-automotive.com

Quick Connectors

+86 0511-853 09 010

contact.connecting.cn@araymond.com

INDIA

+91 (2135) 676 200

contact. in @araymond-automotive.com

JAPAN

+81 463 40 8600

contact.jp@araymond.com

SOUTH KOREA

+82 70 5055 5000

contact.kr@araymond.com

SINGAPORE

+65 6634 1041

contact.sg@araymond.com

THAILAND

+66 2653 3174

contact.sg@araymond.com

VIETNAM

+84 34791 0808

contact.sg@araymond.com

AFRICA

MOROCCO

+212 529048613

contact.ma@araymond.com

EMEA

CZECH REPUBLIC

Hungary, Poland, Romania, Slovakia

+420 483 358 111

contact.cz@araymond-automotive.com

FRANCE

Clipping Fasteners / Bonding Solutions

+33 4 76 33 49 49

contact.fr@araymond-automotive.com

Quick Connectors

+33 4 76 33 49 49

contact.connecting@araymond.com

GERMANY

Clipping Fasteners / Bonding Solutions

+49 7 621 174-0

contact. de@araymond-automotive.com

Quick Connectors

+49 7 634 5080-433

contact.connecting.de@araymond.com

ITALY

+39 0161 937311

contact.it@araymond-automotive.com

SPAIN

+34 93 877 1314

contact. es @araymond-automotive.com

TURKEY

+90 262 658 1058

contact.tr@araymond-automotive.com

UNITED KINGDOM

+4 1732 871934

contact.uk@araymond-automotive.com

www.araymond-mobility.com

