

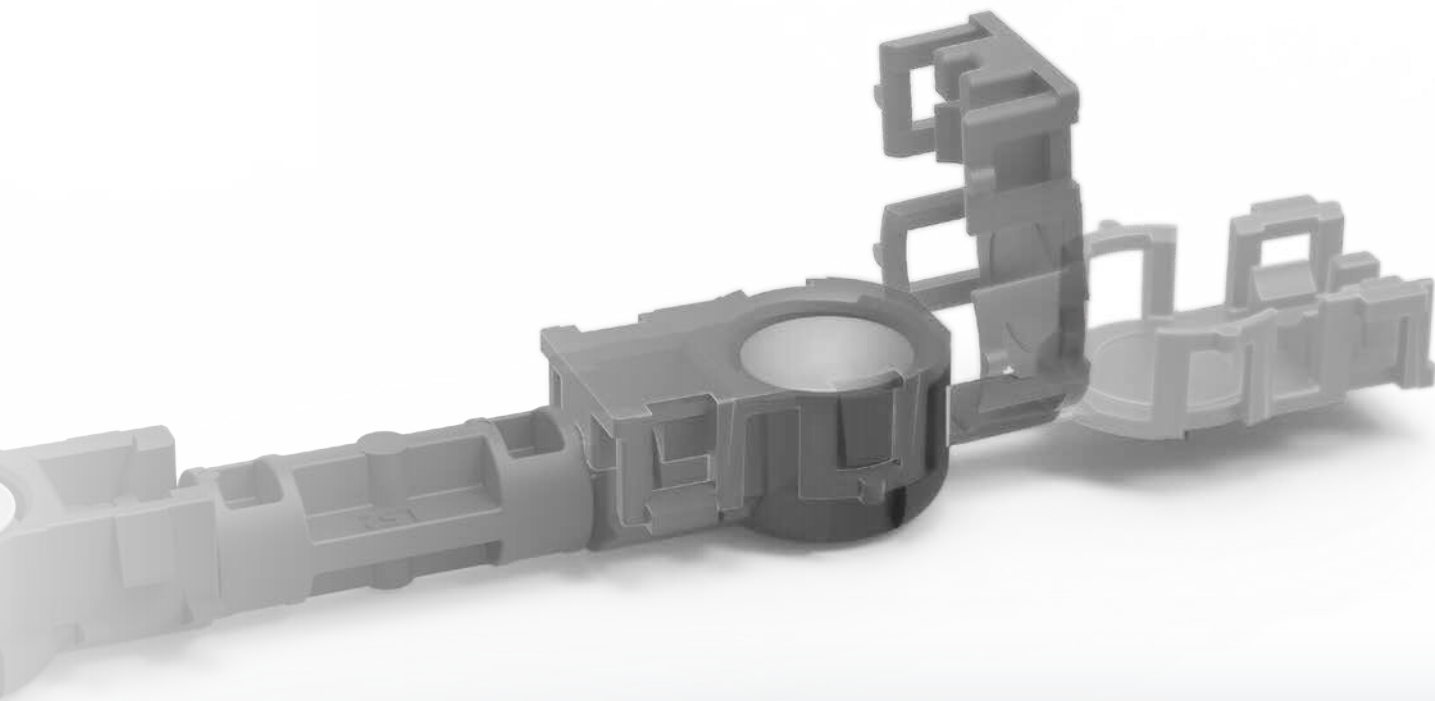
PRODUCT INFORMATION

# MODULAR CONNECTING ROD

For unlimited possibilities



ARaymond<sup>®</sup>   
MORE THAN FASTENING



## OVERVIEW

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# APPLICATION

WHEEL MOVEMENT  
IS TRANSFERRED TO HEIGHT SENSOR  
FIXED ON THE CAR BODY  
FOR DYNAMIC SUSPENSION  
& SMART LIGHTING APPLICATION



# ENVIRONMENT

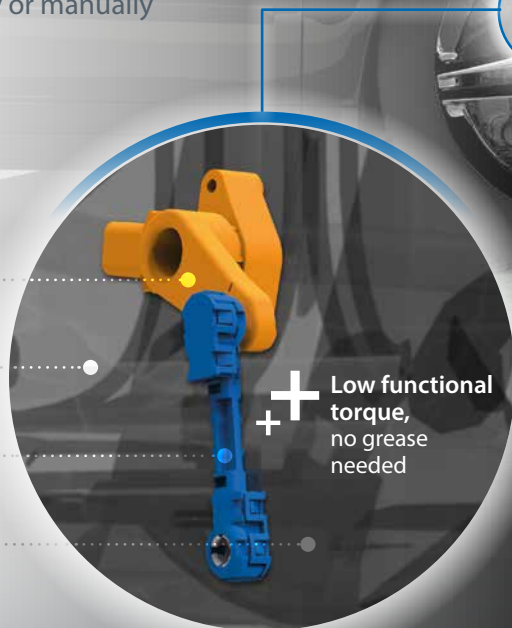
The connecting rod is fixed between the suspension arm and the height sensor, and can be assembled automatically or manually at the Tier or OEM.

Height sensor.....

Car body.....

Connecting rod.....

Suspension arm.....



# MODULAR 3 PART SOLUTION

## 1 Clip

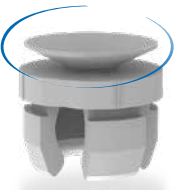
Gap and wear compensation  
ensured by clip spring effect.

Pull-out force  
> 100 N

Jamming effect **++**



**++** Reduced friction,  
no grease needed



**++** Integrated spring effect





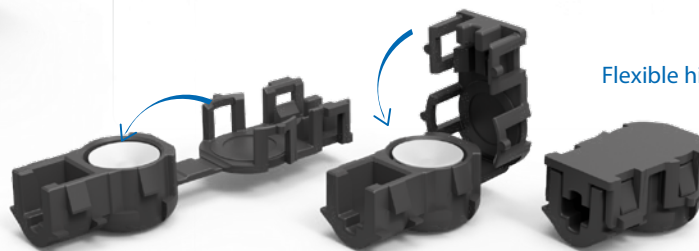
## 2 Axis

Customized shape of the axis.



## 3 Clip holder

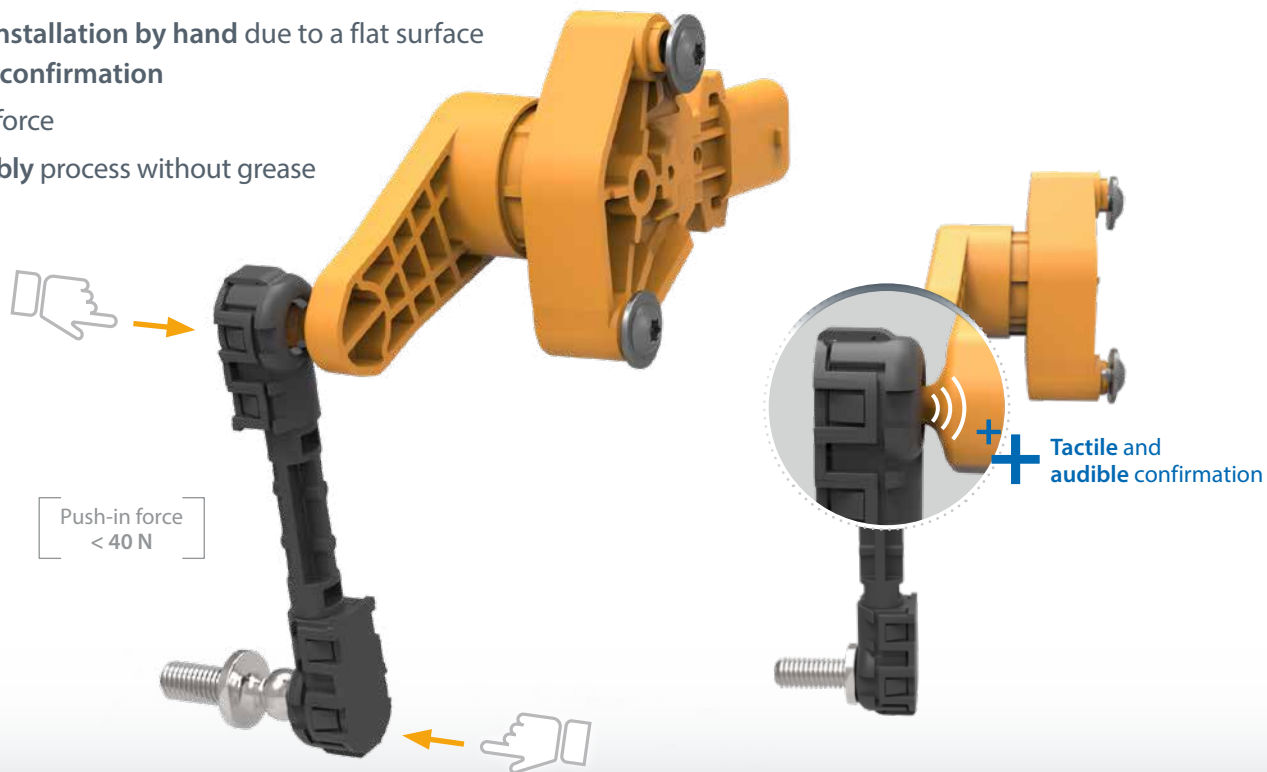
Orientation management with the locking system of the clip holder.



Flexible hinges +

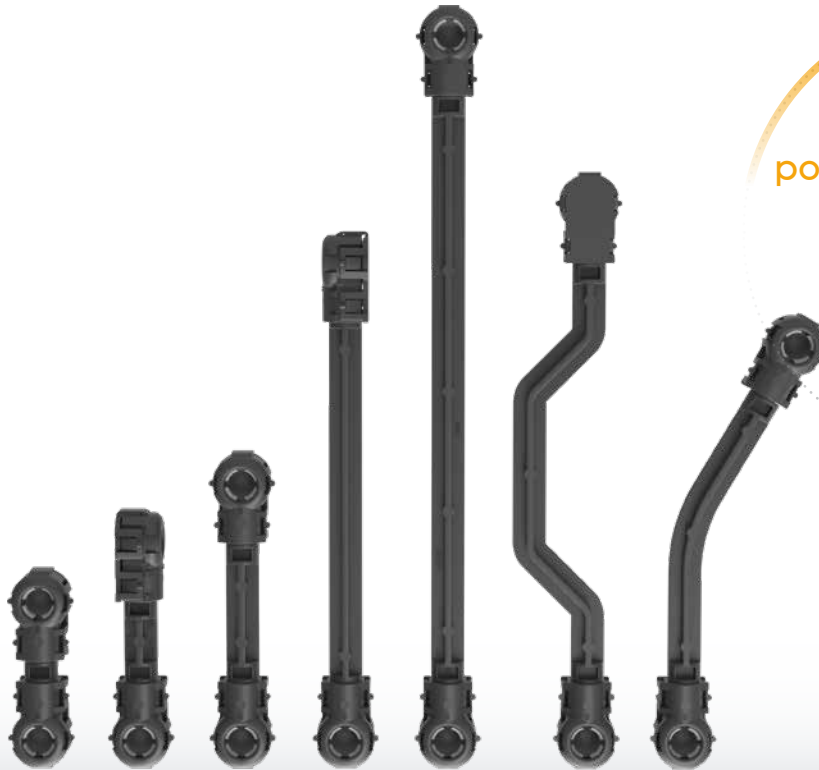
# EASY ASSEMBLY

- Ergonomic installation by hand due to a flat surface and audible confirmation
- Low push-in force
- Clean assembly process without grease





# FULL-SCALE ADAPTABILITY



Unlimited  
possibilities by various:

LENGTHS

SHAPES

ORIENTATIONS

COLORS

# APPLICATION POSSIBILITIES

POSITION SENSORS FOR  
GEARBOX .....

ACTUATORS FOR  
THROTTLE BUTTERFLY VALVES .....

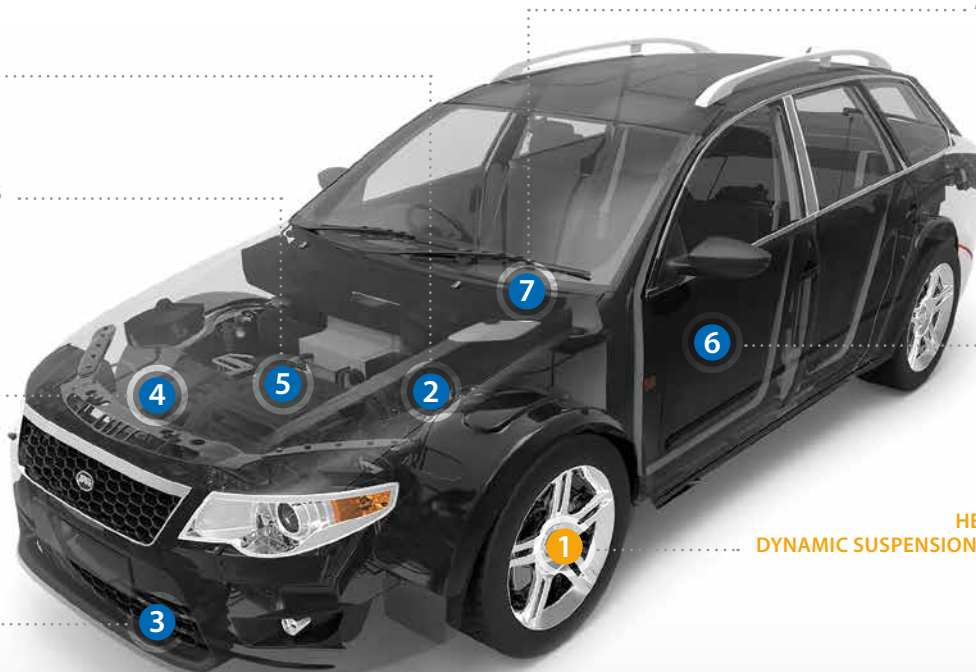
ACTUATORS FOR  
INTAKE MANIFOLD FLAPS .....

ACTUATORS FOR  
AERODYNAMIC FLAPS .....

ACTUATORS FOR AIR-CONDITIONING  
AND HEATING FLAPS .....

ACTUATORS FOR  
CLOSURE SYSTEMS .....

HEIGHT SENSORS FOR  
DYNAMIC SUSPENSION & SMART LIGHTING .....



# TECHNICAL SPECIFICATIONS

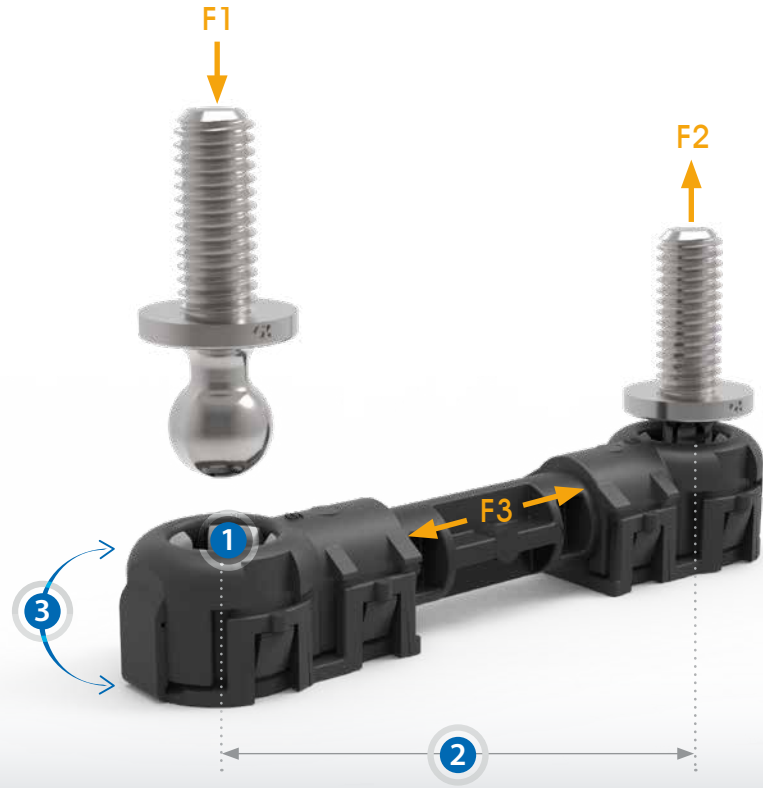
- ❶ Clip diameter: 8 mm  
Functional torque < 0.2 Nm
- ❷ Length: 35.5 mm to 180 mm
- ❸  $\alpha=0^{\circ}-90^{\circ}-180^{\circ}-270^{\circ}$

**F1:** Push-in force < 40 N

**F2:** Pull-out > 100 N

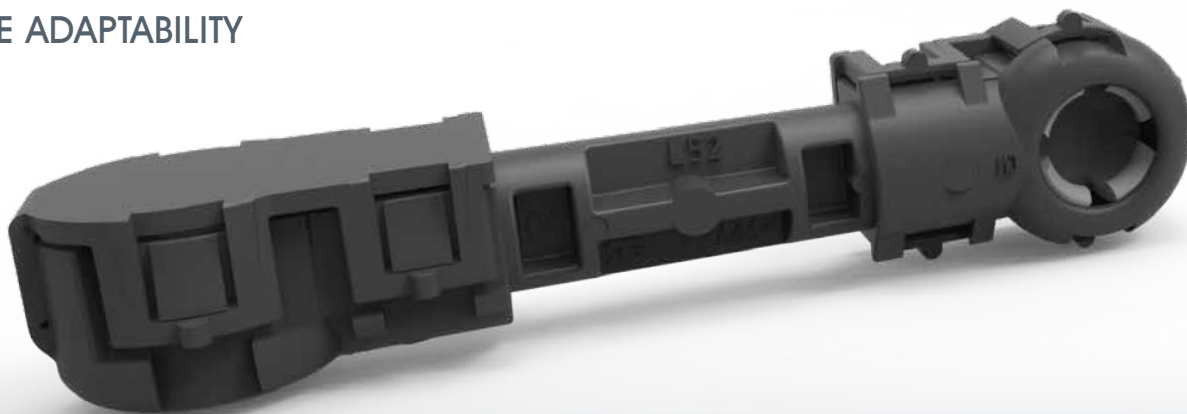
**F3:** Axial peak effort > 200 N

Impact resistance > 1 J at -30°C



# KEY ADVANTAGES

- LOW PUSH-IN AND HIGH PULL-OUT FORCES
- AUTOMATIC GAP AND WEAR COMPENSATION
- LOW FUNCTIONAL TORQUE WITHOUT GREASE
- FULL SCALE ADAPTABILITY





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11 engineering centers

27 manufacturing sites in  
25 countries

7,250 employees

More than 150 years of experience

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