

Hinges and latching systems for the railway vehicle industry



PINET is specialised in designing and manufacturing hinges and locking devices

- A **wide range** of standard products in stock
- We **manufacture** according to customer drawings
- We **design** and **manufacture** to meet customer's specifications
- Various products have **integrated functions**
- **Sheet metal** or **machined profile** manufactured products
- Products manufactured from **steel, 304 and 316 SS** and **aluminium**
- Capacity to roll up to a **6 mm thickness**
- **Surface** and **decorative** treatments (zinc plating, cataphoresis, ...)
- **Small, medium** and **large production** runs
- **Optimised tools** for production
- **Printed prototypes** for evaluation purposes

Bespoke products



**Application
Seat tray
(TGV 3G)**

Torque hinge with detent

Specific features :

- dampened opening and positioning of the tray just in one compact set
- sintered steel components with heat treatment
- mechanical performance : over 35,000 cycles



**Application
Seat head rest
(TGV 3G)**

Torque hinge

Specific features :

- position control
- aluminium hinge with studs



**Application
Underground train seat
(London Underground)**

Seat hinge

Specific features :

- 2 U-shape parts
- heavy duty construction
- limited clearance pin
- opened daily
- harsh conditions
- HD steel, RoHS compliant zinc plated, 400h salt spray resistant, with self lubricating bushes

Bespoke products

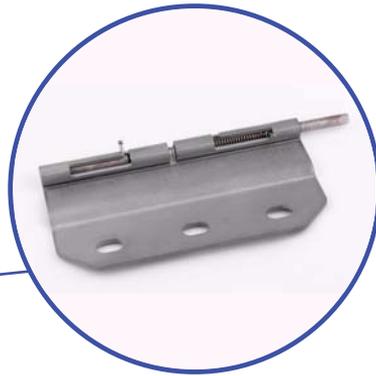


**Application
Hinge for
ceiling panels**

Cranked continuous hinge

Specific features :

- Hinges for long panels
- 304 or 316 stainless steel



**Application
Bogie skirts hinge
(NAT Transilien)**

Hinge with retractable pin

Specific features :

- quick take-down bogie skirts with spring loaded retractable pins
- HD steel, 1000h salt spray resistant



**Application
Battery box lock
(NAT Transilien)**

Springloaded lock

Specific features :

- Heavy duty
- Stop when open (can be locked in open position)
- 5 mm HD steel, 1000h salt spray resistant

Bespoke products

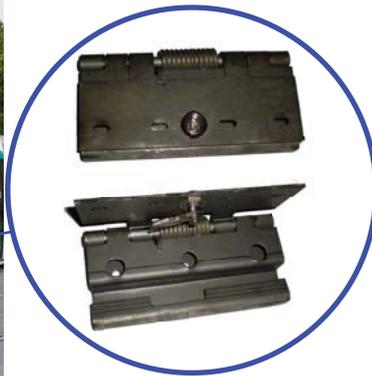


Application
Hinge for sand filling hatch (Tramway)

Stainless steel spring hinge

Specific features :

- spring torque specific to the application
- 304 stainless steel



Application
Bogie skirts hinge (Tramway)

Spring hinge and latch

Specific features :

- closing spring hinge
- latched with quarter-turns with conical square inserts
- zinc plated steel and stainless steel
- 3 leaves hinge

Standard products



- large range of continuous hinges, drilled or undrilled, in various materials
- range of hinges in forged steel
- other product lines available (handles, latching systems, ...)

