



NIJL[®]

Engine Access Solutions

www.nijlgroup.com





nijl®

**For a safe working
environment**

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— NIJL: ENGINE ACCESS SOLUTIONS



NIJL is a world leader in providing access equipment for the aviation industry. With nearly 50 years of experience, we offer an unparalleled range of docking and access solutions, enabling our global customers to manufacture and maintain aircraft to the highest standards, all while ensuring the safety of their critical workforce.

Through this experience, we have developed a comprehensive set of solutions for accessing aircraft engines across various operational environments—from quick line maintenance and heavy hangar work to off-wing engine workshops and manufacturing facilities. No matter the aircraft or engine type, we have the right equipment for every task.

In addition, NIJL frequently collaborates with customers to design tailored solutions for specific project needs. Our extensive portfolio allows us to provide safe, user-friendly equipment that enables work on intricate, high-value structures with precision and ease.



— ENGINE PYLON ACCESS

Our engine pylon access solutions include a large height adjustable platform to access the entire length of the pylon and an over pylon solution using the NIJL MPS platform with extended safety rail enclosure.

ENGINE PYLON PLATFORM KEY FEATURES:

- **LARGE HEIGHT ADJUSTABLE PLATFORM:**
Options available to cover either narrow body or wide body fleets
- **PROFIED ADJUSTABLE FLOOR:**
Adjustable sliding fingers with rubber edge protection ensures a close fit to the engine surface
- **FIXED ALUMINIUM RAILING SYSTEM:**
The platform is surrounded by fixed aluminum hand railing with profiled extendable side rails to safely enclose the work area
- **SELF ADJUSTING STAIRCASE:**
Parallelogram staircase automatically adjusts in height with the platform giving an consistent climbing surface.
- **NON-STAINING RUBBER PROTECTION:**
To protect the aircraft's skin, all areas in proximity to the aircraft are fitted with non-staining rubber pads.
- **APPLICABLE LABELS AND SIGNAGE: AVAILABLE PLATFORM DIMENSIONS:**
All platforms come with appropriate safety labels and signage for clear, visible instructions and warnings.





OVER PYLON ACCESS STEPS —

MPS OVER WING & PYLON PLATFORM

KEY FEATURES:

HEIGHT ADJUSTABLE MPS PLATFORM:

Unique design with fixed lower section and variable height upper section with operating angle of 0-45 degrees

HANGAR OR LINE ACCESS:

Options of castor or towable chassis

HEIGHT RANGE OPTIONS:

Available in a range of sizes to match the exact need of mixed aircraft fleets

RUBBER PADDING:

Black non-staining rubber padding provides protection against contact with sensitive aircraft surfaces.

FULLY ENCLOSING GATE SYSTEM:

Includes slidable side gates and front gates to completely enclose the forward (FWD) pylon working area, ensuring a safe, enclosed space.

VERTICAL MOVABLE GATES:

Specially designed vertical movable gates help minimize any gap between the gate and the pylon/nacelle surface for added safety and precision

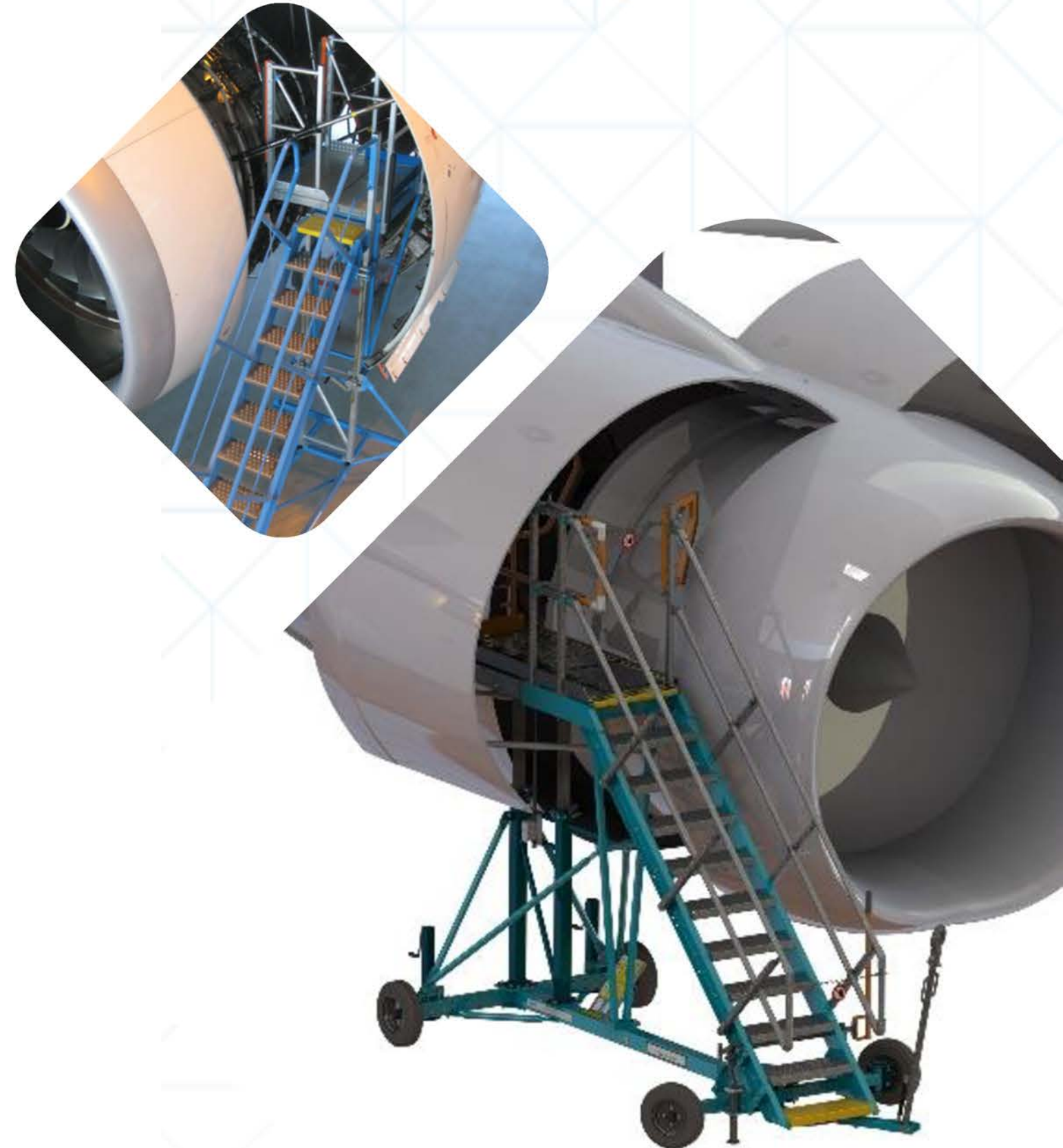


— UNDER FAN COWL

The Under Fan Cowl Engine Stand is designed for efficient, secure access to modern aircraft engines. With adjustable platform height for easy positioning under fan cowls, retractable and foldable railings for safety, and extendable floors that contour to the engine, it ensures maximum functionality. Built with durable aluminium and steel, the stand offers stability, anti-slip surfaces, and rubber padding for aircraft protection. Swivel castor wheels make it easy to maneuver, with an optional high-speed wheel set for apron use.

KEY FEATURES:

- Adjustable height for seamless access from hold-open rods to hinge pins Extendable floors for precise engine contour adaptation
- Retractable and foldable railings for optimal safety and positioning



— ROLLERCOASTER

NIJL Aircraft Docking has engineered a multi-functional engine stand designed specifically for modern aircraft engines, providing comprehensive access to both the engine fan cowlings and pylon areas. The unique curved frame is height-adjustable, ensuring optimal access along the engine, while extendable floors and adjustable railings enhance safety and convenience. Key features include under fan cowlings and pylon access, enclosed work platforms, and a compact design with swivel castor wheels for easy positioning. Made with a durable mix of aluminum and steel, this stand offers exceptional stability, movability, and safety, all within a small operational footprint.

KEY FEATURES:

- Multi-functional application for engine access
- Under fan cowlings access with opened fan cowls
- Pylon access with closed fan cowls
- Engine inboard and outboard access
- Height adjustable unique curved main frame for optimal access along the engine up to pylon
- Adjustable railing and safety anchoring mount for fall protection
- Extendable floors adjustable to engine contours
- Enclosed work platform for mechanic and toolbox



— ENGINE INTAKE PLATFORM

ENGINE INTAKE PLATFORM

KEY FEATURES:

FIXED HEIGHT OR ADJUSTABLE HEIGHT USING MPS PLATFORM:

Available with unique design with fixed lower section and variable height upper section with operating angle of 0-45 degrees or as a fixed height engine intake platform

HANGAR OR LINE ACCESS:

Options of castor or towable chassis

HEIGHT RANGE OPTIONS:

Available in a range of sizes to match the exact need of mixed aircraft fleets

RUBBER PADDING:

Black non-staining rubber padding provides protection against contact with sensitive aircraft surfaces.

FULLY ENCLOSING GATE SYSTEM:

Includes slidable side gates and front gates to completely enclose the forward (FWD) pylon working area, ensuring a safe, enclosed space.

VERTICAL MOVABLE GATES:

Specially designed vertical movable gates help minimize any gap between the gate and the pylon/nacelle surface for added safety and precision



— THRUST REVERSER



This platform is specifically designed for modern aircraft engines, providing access under thrust reverser cowlings to the engine core, including inboard and outboard sections. The set includes both left-hand and right-hand versions, featuring adjustable heights for easy positioning under the cowling and access to AFT engine mounts. Constructed from aluminum and steel, it provides stability, mobility, and anti-slip flooring.

KEY FEATURES:

- Under thrust reverser cowling access
- Access to the engine core section
- Engine inboard and outboard access
- Set contains: 1x LH version, 1x RH version
- Minimum platform height: ease of positioning
- Maximum platform height: access up to AFT engine mounts
- Foldable platform railing
- Extendable floors adjustable to engine contours
- Large work platform for mechanics and toolboxes
- Aluminium flooring and steps with anti-slip surface
- Parking jacks for levelling and stability
- Rubber padding for aircraft surface protection
- Swivel castor wheels for hangar operations
- Optional: high speed wheel set package with towbar for apron / flightline operations

— VERTICAL STRIP BUILD STAND

The NIJL vertical engine stand is designed to provide complete access to aircraft engines during strip and re build procedures in engine workshops. Featuring electronically controlled height adjustment to ensure access to the entire engine . Adjustable floor opening provides a close fit around the engine with soft rubber protection eliminating risk of engine damage. Optional material lift creates a flexible working area with minimal manual handling. Installed above ground there is no requirement for complex civil engineering work with the possibility to relocate equipment if plans change.

KEY BENEFITS:

- **Height adjustable platform eliminates risks** (engine lifting risks) - no lifting operation with expensive engine in vertical position needed. Lifting a weight of ~6000kg (engine) with a high center of gravity is not recommended. Risk due to lifting the engine is therefore limited.
- **Proven technology** - similar techniques are used throughout our height adjustable aircraft docking systems (e.g. wing, nose and tail docks)
- **No additional stabilization scissor lift needed** for lifting operation of engine
- **Platform can be repositioned** after installation. No floor adjustments (pits) needed to install scissor lifts.



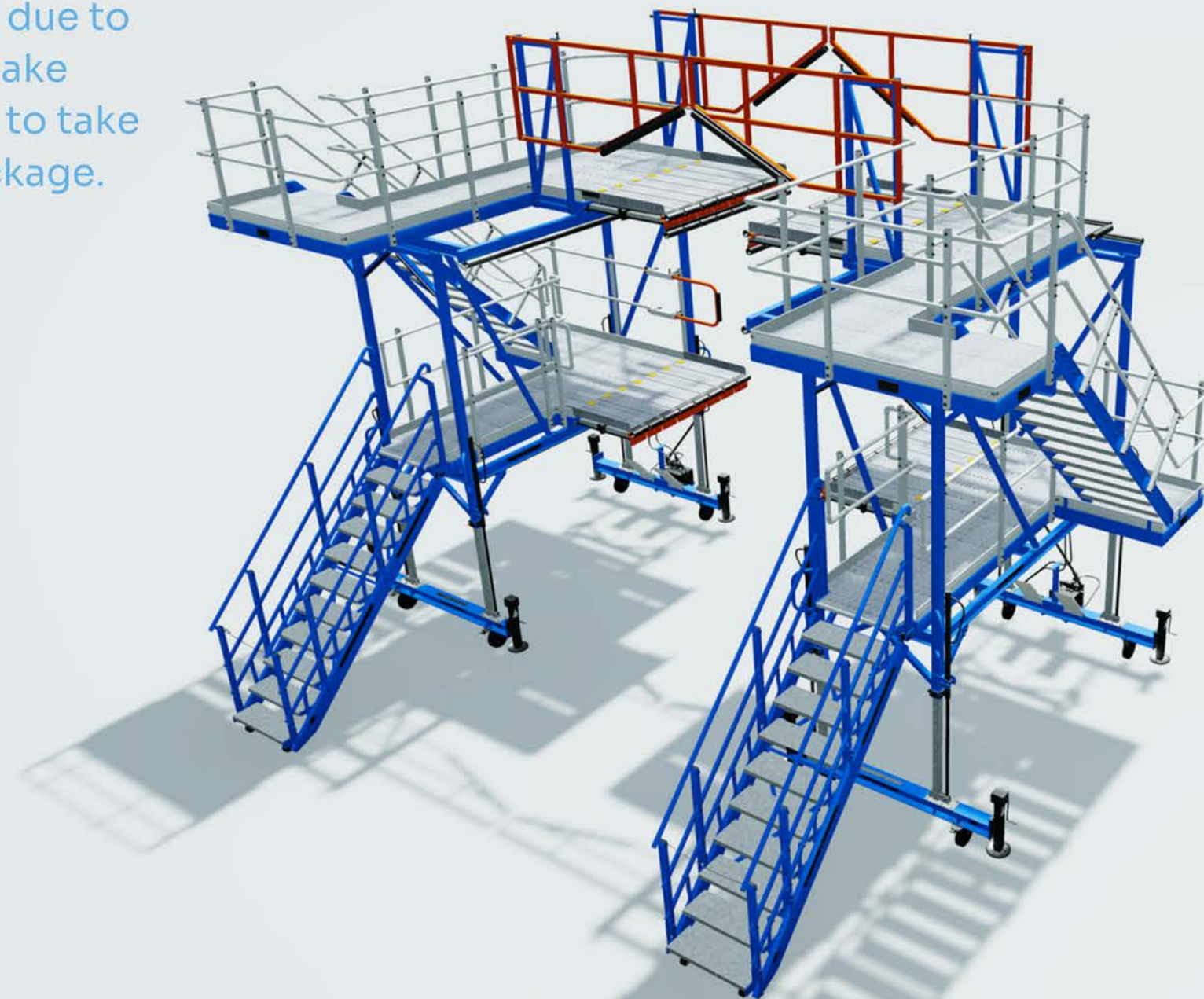
— WIDEBODY ENGINE TOWER



NIJL are often asked to design and manufacture bespoke equipment to support the complex work environments of our customers. Accessing aircraft engines can be complicated to ensure the safety of engineers whilst working at height and to ensure the critical and often fragile engine components cannot be damaged. Providing safe access around the engine for inspection, maintenance and removal task often requires multiple work levels with adjustable flooring and handrailing. As we recognise our customers needs are often very different due to fleet and engine type configurations we are pleased to undertake consultation and conceptual design work always with the aim to take the projects to completion and deliver the perfect access package.

KEY BENEFITS:

- Height adjustable with multiple work levels
- Sliding floor panels with rubber edge protection
- Adjustable hand railing and gates
- Non skid aluminium flooring
- Pneumatic and electrical outlet options
- Manual or electrical height control options
- Mobile and easy to manouver around the hangar



FAN BLADE DOLLY

The NIJL Fan Blade Dolly is designed for the safe inspection and storage of aircraft engine fan blades, ensuring protection of these valuable components. With slots for all blades from one engine and a dedicated clamping mechanism, each blade is securely held and numbered in sequence to prevent mismatching. The dolly also provides an ergonomic working position for maintenance engineers, making it an essential tool for efficient and safe fan blade handling.

KEY FEATURES:

- Slidable fan blade clamp to lock the fan blade
- Cut-out for fan blade positioning
- Fan Blade Dolly for dedicated engines type

Optional

- Fan Blade Dolly suitable for a combination of engines types
- Compact Fan Blade Dolly for six fan blades
- Fan Blade Dolly optimized for washing purposes



FAN BLADE CAROUSEL

The NIJL Fan Blade Carousel is expertly designed to safely store and organize jet engine fan blades during maintenance. With slots for all blades from a single engine, the carousel ensures correct blade order and secure storage via a dedicated clamping system. Its 360-degree rotation allows maintenance engineers to work ergonomically from a single position, significantly reducing handling time. This essential tool not only safeguards valuable fan blades but also enhances workflow efficiency during cleaning and maintenance tasks.

KEY FEATURES:

- Fixed height carousel tailored to specific fan blade types
- Two fixed wheels with brake and two swivel wheels
- Dedicated storage boxes to organize removed items from each fan blade
- User-friendly rotatable lock pin to secure rotation
- Towbar included



— MOBILE ACCESS STAIRS

Multi-Purpose Stands

Multi-Purpose Stands from NIJL ensure optimal flexibility to access several areas around the aircraft with the same stand. Your benefit: Saves costs and hangar space as one stand fits many purposes.

OUR PRODUCT RANGE:

- Fixed Height Stands - with Flexible Railing System (FRS) or Fixed Height Railing
- Height Adjustable Stairs MPS
- Height Adjustable Stairs VHS
- Height Adjustable Stairs SFS

All Multi-Purpose Stands are available in Low Speed (LS), max 5 km/h and in High speed (HS), max. 25 km/h.

MPS



SFS



FIX/FRS



VHS



P

Cargo Door
access



Pylon access



AX access



‘Provide optimal and
safe access around the
aircraft for various
activities’



nijl®

**For a safe working
environment**

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