

THE VAULT

CUSTOM MADE CAR ELEVATOR

NELCA
SYSTEMS

WWW.NELCASYSTEMS.CA



REDEFINING SPACE WHERE IT MATTERS.

WHAT IS THE VAULT?

Nelca Systems – The Vault is a premium residential **car storage solution** designed to maximize space while elevating the look of your garage.

Custom-built to fit the unique dimensions of your space, The Vault transforms how vehicles are stored and displayed. Engineered around high-performance **car lift systems**, each unit is tailored to your exact needs — available in **single or double deck** configurations to suit your desired layout and aesthetic.

In the double deck configuration, the most popular choice, the lower platform is the **moving element**, lifting and lowering vehicles between levels. The upper deck fills the floor opening in your garage, sitting **flush** with the ground and allowing you to use your garage and park as you normally would.



CUSTOM-MADE
CSA & CWB CERTIFIED

SPECIFICATIONS.

Every Vault system is **custom-made to your exact specifications**. With The Vault car elevator, you define every key element—platform size(s), vertical travel between levels, and **weight capacity up to 13,000 lbs**, along with the final finish, including your choice of colour.

Each unit is equipped with a **CSA-certified** power rack and a single or dual pump system, selected based on your required capacity and speed. At its core is an advanced control panel, the brain of the system, paired with two remote controls for seamless operation.

For enhanced functionality and integration, the system can be upgraded with a range of **optional features**, including **door locking** mechanisms, **HomeLink** compatibility, ceiling **sensors**, safety **keypad** access, and **key switch** controls...

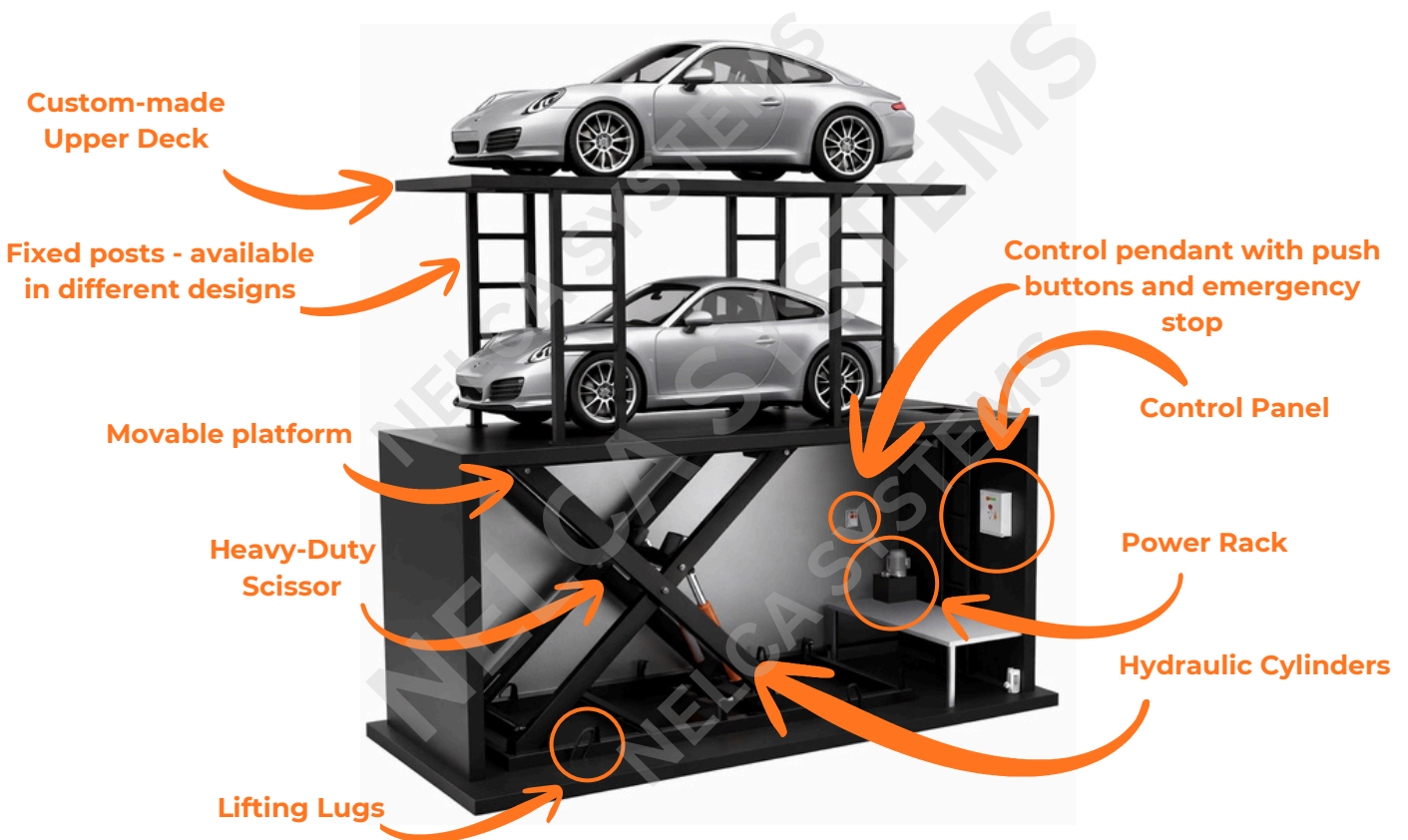
PLATFORM DIMENSIONS	CUSTOM-MADE
LIFTING CAPACITY PER PLATFORM	UP TO 3TONS / 8,800 LBS - TOTAL OF 6TONS
TRAVEL DISTANCE	CUSTOM-MADE
TRAVEL SPEED	4 METERS/ MIN
STRUCTURE FINISH	POWDER COATED
PLATFORM MATERIAL	DIAMOND STEEL SHEET OR ALUMINIUM STEEL SHEET
POWER	220V - 60 AMPS - SINGLE PHASE
POWER PACK	HYDRAULIC CYLINDER
COLOR	STANDARD BLACK RAL 9005 - CUSTOMIZATION AVAILABLE
CERTIFICATIONS	CSA AND CWB

LET'S TAKE A CLOSER LOOK.

A **recessed pit** is required to house the scissor lift in its fully folded position. **Concrete** must meet **specific structural specifications**, and a **drainage system or sump pump** must be incorporated into the pit design.

Contact Nelca Systems today for your free quote and custom drawings.

Let's breakdown the components:



STANDARD FEATURES

- Custom-made structure
- CSA Power Rack
- CSA control box
- 2 Control pendants - UP/DOWN Push Buttons and Emergency Stop
- Custom-colour
- Custom-made Upper deck Finish anti-leaks

OPTIONAL FEATURES

- Weight capacity Upgrade
- Ceiling Sensor
- Door locks (Man doors and Garage doors)
- Keypad or Fob System
- HomeLink
- Visual and Audible Safety Strobe

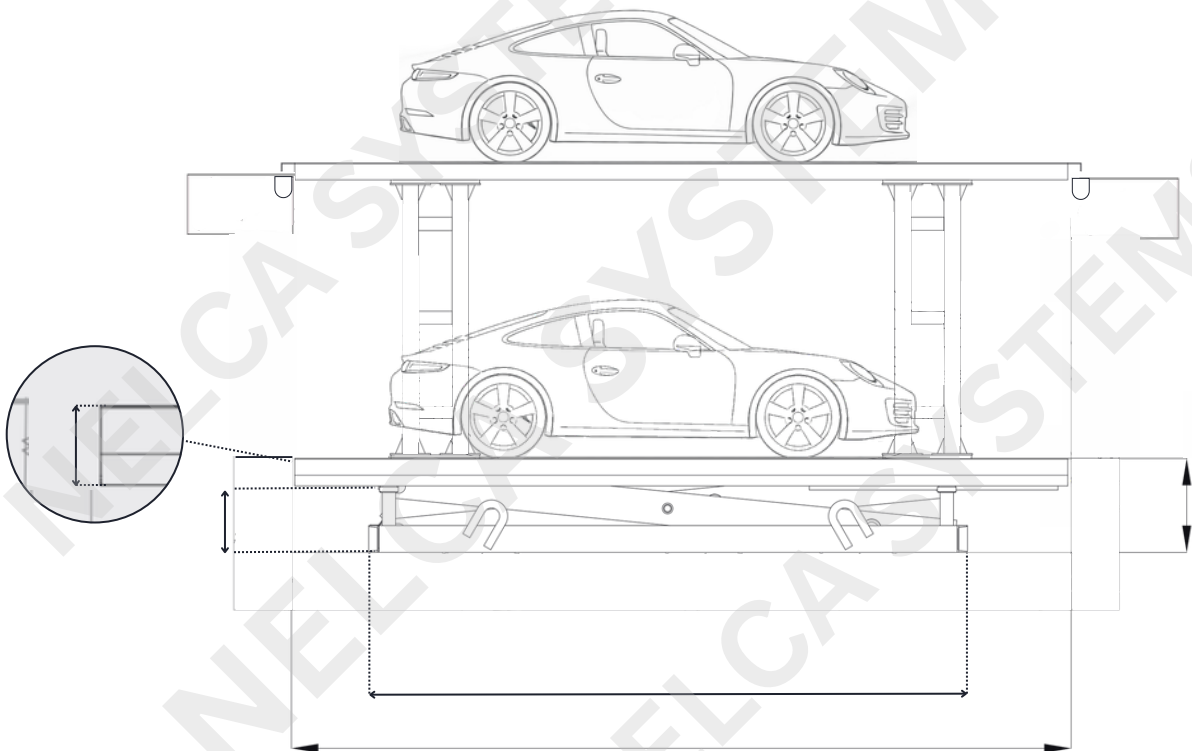
TWO CONFIGURATIONS CLASSIC VS EXTENDED

THE VAULT - CLASSIC

The Classic is our most popular configuration, designed for homes where the basement depth and garage ceiling height are equal or the basement ceiling is lower than the garage ceiling.

In simple terms: **Basement Ceiling Height \leq Garage Ceiling Height.**

The Classic comes with **fixed posts**, as the travel distance is the same in both directions.



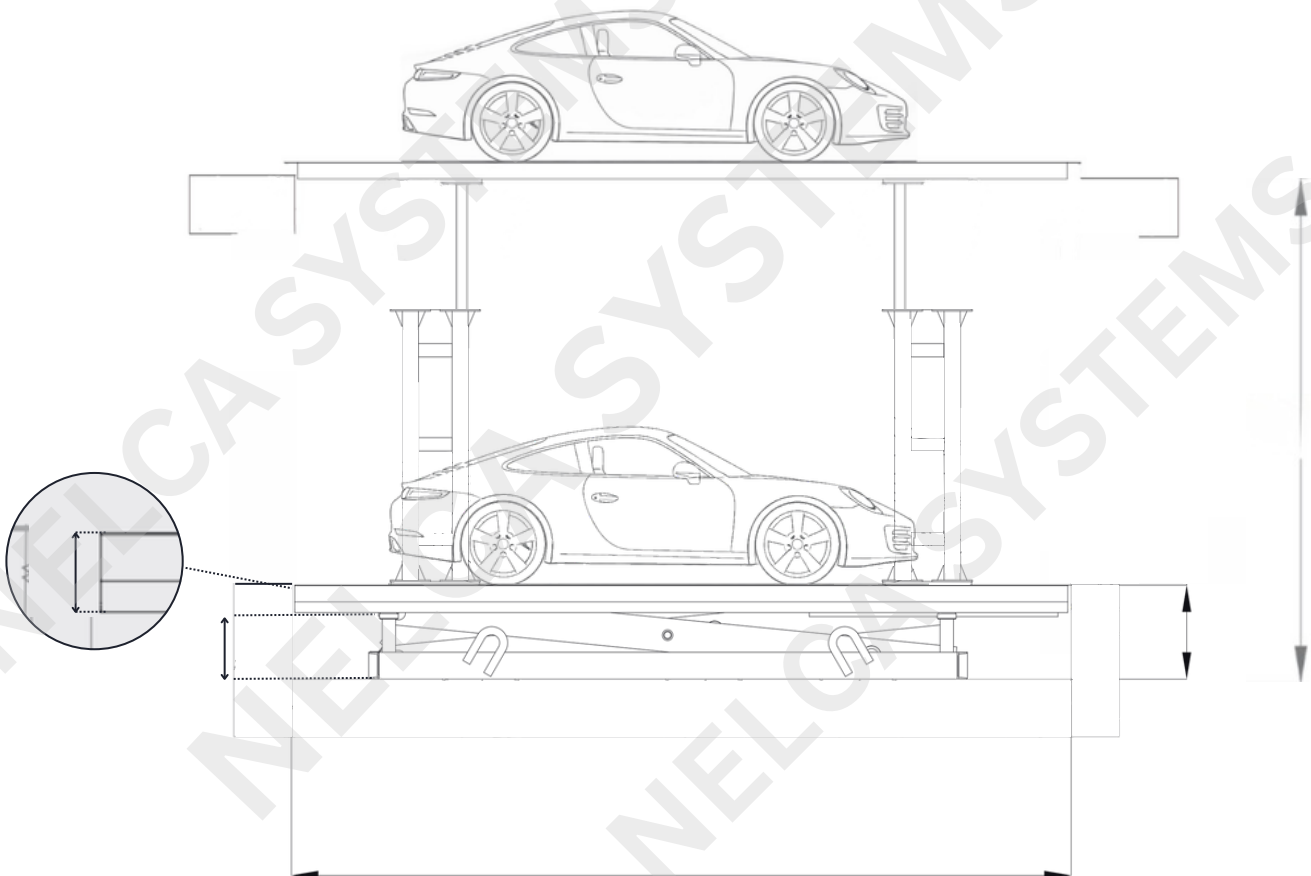
TWO CONFIGURATIONS CLASSIC VS EXTENDED

THE VAULT - EXTENDED

The Extended is an **adaptive configuration**, designed for homes where the basement is deeper than the garage ceiling height allows.

In simple terms: **Basement Ceiling Height > Garage Ceiling Height.**

The Extended features **adjustable posts** that compensate for the difference in travel distance. **When lowering, the posts extend** to allow the platform to reach and sit flush with the basement floor. **When lifting, the posts retract** to fit within the available garage ceiling height.



THE VAULT - FAQ.

What are the requirements for an underground car elevator?

Requirements may vary depending on the application, configuration, and type of construction. In most cases, you should plan for a pit for the structure to sit in, a specific concrete slab, a drainage system, and some electrical work to supply power to the unit.

What type of power is required for The Vault - car elevator?

The Vault typically requires **220V single-phase power** and between **30 and 60 amps**, depending on the configuration of the unit. While this is the standard requirement, we can adjust the lift's electrical setup to match your available power supply, including amperage and circuit breaker specifications.

When should I start planning for a residential car elevator?

We strongly recommend integrating the solution as early as possible. The design phase of your home is the ideal time to consider a car elevator. At this stage, we can help adjust the garage layout, review requirements, and confirm the necessary dimensions.

If you've already passed this stage, we can still help integrate the lift. Contact us and we'll review your garage drawings and advise on the best approach.

Can the Vault platform be customized to fit my space?

Yes. All Vault systems are fully custom-made to your specifications. The platform dimensions, travel distance, finish colour, and platform material (diamond steel sheet or aluminum) are all tailored to your specific project. The standard finish is Black RAL 9005 with customization available.

Is the Vault completely invisible when not in use?

Yes. The Vault is designed for total concealment. When the lift is in the lowered position, the entire mechanism — including the scissor lift structure, hydraulics, and platform — is hidden below ground. At grade level, you see only a flush surface. This makes it ideal for luxury homes and architectural projects where clean aesthetics are a priority.

What maintenance does the Vault require?

Like any mechanical system, the Vault benefits from periodic maintenance to ensure long-term reliability. This typically includes hydraulic fluid checks, inspection of the scissor mechanism and safety components, and lubrication of moving parts. We recommend establishing a maintenance schedule with your installer. Specific intervals depend on usage frequency and environmental conditions.

What is the lifting capacity of the Vault?

The standard capacity is 3,000 kg (approximately 6,600 lbs) per platform. Upgrades are available for heavier vehicles or special requirements. The system is engineered to support the weight of the lift mechanism, the platform, and the vehicle with a safety margin built in.

PHOTO GALLERY

NELCA
SYSTEMS



THE VAULT

CUSTOM MADE CAR ELEVATOR

NELCA
SYSTEMS

WWW.NELCASYSTEMS.CA

 www.nelcasystems.ca

 +1 (437) 326-3102

 contact@nelcasystems.com

 Toronto, Canada