

THE PIT

UNDERGROUND STORAGE
PARKING LIFT

NELCA

SYSTEMS

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REDEFINING SPACE WHERE IT MATTERS.

WHAT IS THE PIT?

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NELCA Systems - The Pit is a **semi-custom underground parking system** designed for **residential applications** where a fully custom solution is not required.

It creates an additional parking space by lowering a **framed platform into a recessed pit beneath the garage**, optimizing available space without altering the building's overall footprint.

Inspired by the NS26 above-ground parking lift, The Pit is engineered around **fixed structural columns** and a **variable-width platform** for adaptable configurations. The system provides a clean, integrated parking solution that combines functionality, efficiency, and architectural simplicity.



SEMI CUSTOM-MADE
CSA & CWB CERTIFIED

SPECIFICATIONS.

The Pit is a **semi-custom underground parking system** designed for residential use, offering a practical alternative to fully custom solutions.

The system supports a weight capacity of up to **6,000 lbs**, with **platform widths** ranging **from 2.3 to 2.5 m** and **vertical travel between 1.3 and 1.9 m**, allowing it to adapt to a variety of garage layouts.

Powered by a **CSA-certified** hydraulic pump, **The Pit** ensures smooth and reliable vertical movement through a precision control system designed for safe operation.

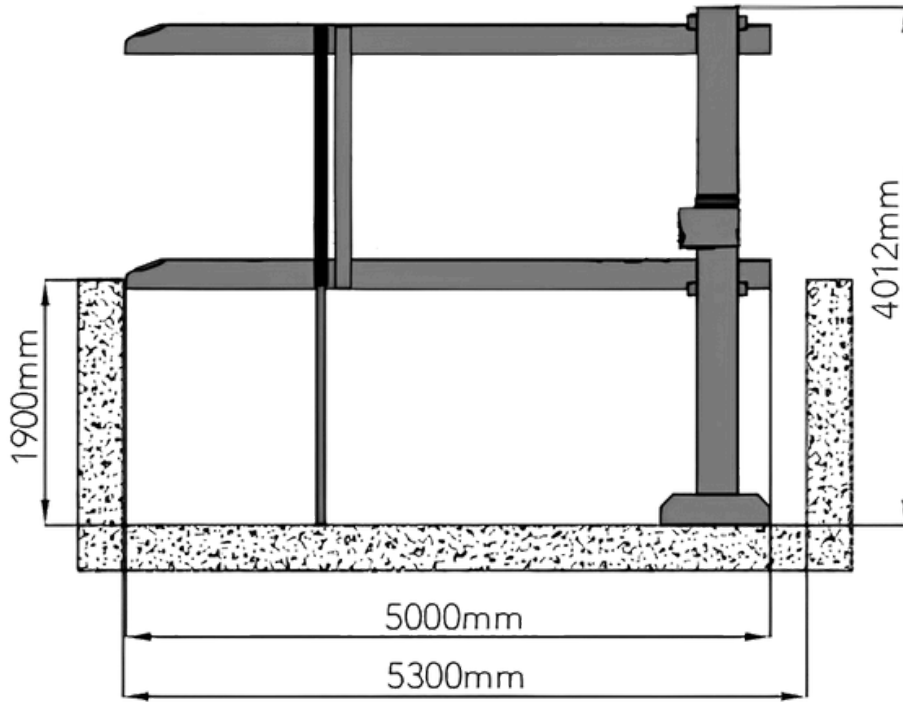
The design of The Pit is a **visible structure** with **protruding columns** supporting both platforms. These columns go from the bottom of the pit and extend in your garage for both platform to travel. If the ceiling height allows it, the system can support both platform loaded, allowing independent access to each platform.

TECHNICAL SPECIFICATIONS

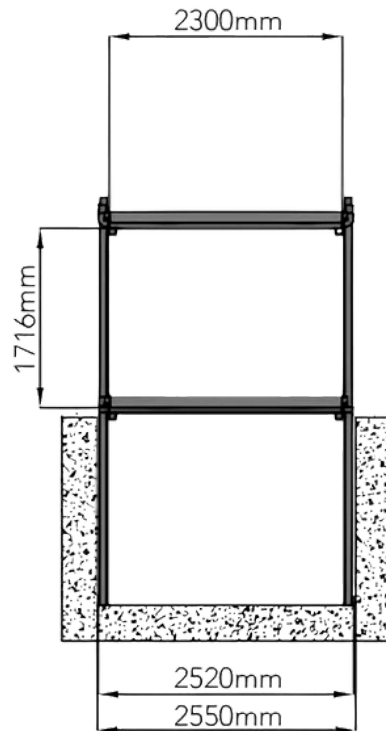
PLATFORM DIMENSIONS	WIDTH - FROM 2.3 TO 2.5M / FROM 90" TO 98" LENGTH - 5M / 200"
LIFTING CAPACITY PER PLATFORM	UP TO 2.7 TONS / 6,000 LBS
TRAVEL DISTANCE	FROM 1.5 TO 1.9M / 59" TO 75"
TRAVEL SPEED	55 SECONDS
STRUCTURE FINISH	POWDER COATED
PLATFORM MATERIAL	GALVANIZED STEEL PLATES
POWER	220V - 60 AMPS - SINGLE PHASE
POWER PACK	HYDRAULIC CYLINDER
COLOR	STANDARD BLACK RAL 9005 - CUSTOMIZATION AVAILABLE
CERTIFICATIONS	CSA AND CWB

SPECIFICATIONS.

SIDE VIEW



FRONT VIEW



LET'S TAKE A CLOSER LOOK.

A **reinforced concrete foundation and walls** is required to support **The Pit** system. The slab must meet specified load and anchoring requirements to **ensure proper weight distribution and long-term structural stability**. The unit is securely anchored directly to the foundation and supporting wall for safe and reliable operation.

Contact Nelca Systems today for your free quote and drawings.

Let's breakdown the components:



STANDARD FEATURES

- Semi custom-made structure
- CSA Power Rack
- CSA control box
- 2 Control pendants - UP/DOWN Push
- Buttons and Emergency Stop
- Custom-colour

OPTIONAL FEATURES

- Weight capacity Upgrade
- Key Switch
- Visual and Audible Safety Strobe

What are the requirements for a The Pit system?

Requirements may vary depending on the application, configuration, and type of construction. In most cases, you should plan for a reinforced concrete slab and some electrical work to supply power to the unit.

What type of power is required for The Pit?

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.

Can the Pit platforms be customized to fit my space?

Not fully. The Pit systems are semi custom-made to your specifications. We offer a few options for the platform's width and travel distance. The standard finish power coating is in a Black RAL 9005 with customization available.

Is the Pit visible when not in use?

Yes. The Pit system is a stationary structure, as an underground installation, the posts and upper part of the system is always visible.

What maintenance does the Pit require?

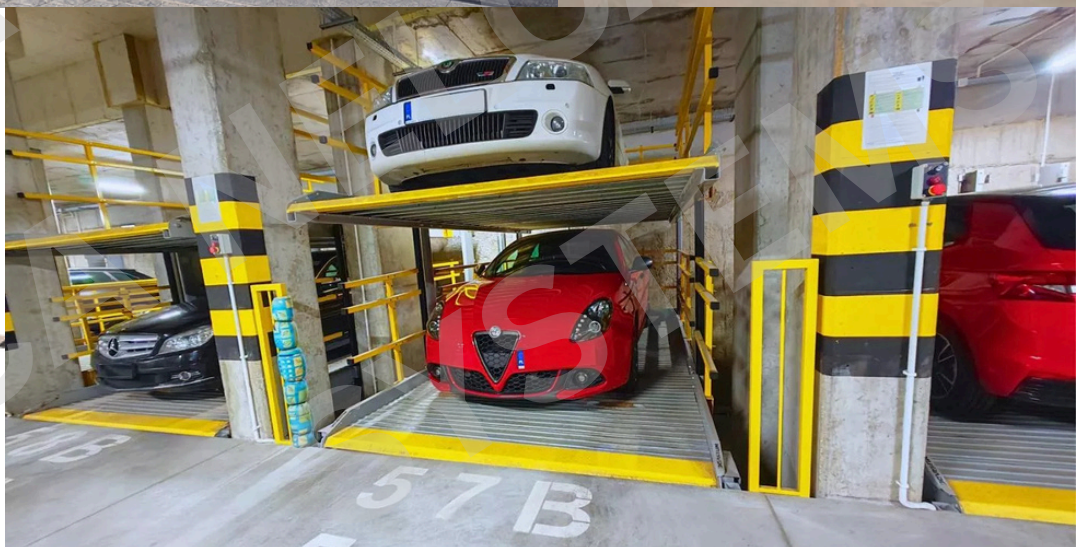
Like any mechanical system, the Pit benefits from periodic maintenance to ensure long-term reliability. This typically includes hydraulic fluid checks, inspection of the whole mechanism and safety components, and lubrication of moving parts. We recommend establishing a maintenance schedule with your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

What is the lifting capacity of the Pit?

The standard capacity is 2,700 kg (approximately 6,000 lbs) on each platform. Upgrades are exploratory for heavier vehicles or special requirements.

PHOTO GALLERY

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