

News & Exhibitions

Our Elevator variable frequency drive gives Mrs Demetriou new mobility in her twilight years

22 July 2015

While most variable frequency drive installations focus on industrial applications, they're sometimes used to bring tangible benefits to people – as demonstrated by this installation in Cyprus. An Invertek Drives **Optidrive Elevator** installed in a machine-room-less (MRL) gearless home-lift system has given Mrs Demetriou, an elderly, disabled Cypriot grandmother, the freedom to move safely and independently around her family's four-storey home...

When the Demetriou family decided that they needed to install a lift to help their grandmother, the solution had to be supremely safe, comfortable, easy to use and quiet at night. It also had to be easy to program and allow safe, simple evacuation if there was a power failure.

Combined expertise provides the solution

The answer, in the form of an MRL lift, was made possible by the combined expertise of lift control-panel manufacturer **StamTec** and Invertek's dedicated elevator drive, Optidrive Elevator, supplied by Invertek's Greek sales partner **Automation Experts**.



Of particular interest for this project is the Optidrive Elevator's renowned ability to deliver smooth carriage through its use of no less than five independent S-shaped acceleration ramps. Along with a dedicated motor holding brake control algorithm, this allows fine tuning of the system by installers. Then there are Optidrive Elevator's compact external dimensions and factory parameter settings that are well-suited to fast, easy installation and setup of simple elevator applications.

Optional incremental/EnDat/Sincos encoder feedback interfaces allow compatibility with a wide range of motors, while Invertek's renowned motor control capability ensures maximum ride comfort under all conditions. And short floor operation, coupled with a high motor switching frequency (max 32 kHz), provides the quick, smooth, quiet journey that's perfect for Mrs Demetriou as she moves around her home.

Invertek's role in Mrs Demetriou's new mobility

Theodore Amiridis, Automation Experts' Technical Director and Business Development Manager for North Greece describes the very human scale of the challenge. He starts with how Invertek's proven technology contributed to Mrs Demetriou's new mobility and her family's peace of mind.

"For over two decades, Thessaloniki-based StamTec has been a leading manufacturer of lift control-panels in Greece. As well as selling into its home territory, StamTec also sells into the Balkans, the Mediterranean Islands and Arab countries.

"As an experienced sector player, StamTec understands the importance of specifying the most reliable, versatile components. For variable speed drives, that means Invertek. For this particular application, and the new mobility enjoyed by this Cypriot grandmother, it meant the proven Optidrive Elevator with IP20 rating, three-phase input and output, and 5.5kW capability working with a closed-loop EnDat PG card."

Transforming family life

For the Demetriou family, the new elevator has transformed daily life in their multi-level urban home.

Theodore Amiridis again: "Since installation of the elevator, Mrs Demetriou can easily navigate her home and enjoy all its facilities despite her disability. Of course, other family members can use the lift too, which is useful in the large four-storey property.

"The elevator's near-silent electric operation also minimises disturbance at night. And it's fast and comfortable, making it easier for Mrs Demetriou to enjoy her twilight years. The smooth operation

2015 Exhibitions

[All Exhibition Details](#)

News Categories

[Awards \(10\)](#)
[Case studies \(19\)](#)
[Community \(6\)](#)
[Elevator \(9\)](#)
[Exhibitions \(31\)](#)
[General News \(71\)](#)
[HVAC Building Services \(7\)](#)
[Marine \(7\)](#)
[Pump Control \(4\)](#)

News Archive

[October 2015 \(3\)](#)
[September 2015 \(3\)](#)
[August 2015 \(2\)](#)
[July 2015 \(3\)](#)
[June 2015 \(5\)](#)
[May 2015 \(4\)](#)
[April 2015 \(1\)](#)
[March 2015 \(4\)](#)
[February 2015 \(1\)](#)
[December 2014 \(3\)](#)
[November 2014 \(4\)](#)
[October 2014 \(3\)](#)
[September 2014 \(1\)](#)
[August 2014 \(1\)](#)
[July 2014 \(3\)](#)
[June 2014 \(2\)](#)
[May 2014 \(7\)](#)
[April 2014 \(6\)](#)
[March 2014 \(1\)](#)
[February 2014 \(2\)](#)
[December 2013 \(3\)](#)
[November 2013 \(3\)](#)
[October 2013 \(7\)](#)
[September 2013 \(1\)](#)
[August 2013 \(1\)](#)
[June 2013 \(2\)](#)
[May 2013 \(2\)](#)
[April 2013 \(4\)](#)
[March 2013 \(2\)](#)
[February 2013 \(1\)](#)

is achieved through the lift's closed-loop mode with Endat encoder feedback and the S-ramp acceleration ramps."

Safety is the priority

Thanks to StamTec, Invertek Drives and her family's vision, Grandmother Demetriou is in safe hands even when using the lift on her own. That's because, if the lift loses communication with the encoder, it can operate safely and effectively in PM (permanent magnet gearless) open-loop mode too.

Such details may be lost on Mrs Demetriou, but what she and the rest of the family can be sure of is more independence than ever and round-the-clock peace of mind as they enjoy their home.

Find out more about [Optidrive Elevator](#).



[Case studies](#) | [General News](#) | [Elevator](#)

- [January 2013](#) (3)
- [November 2012](#) (2)
- [October 2012](#) (4)
- [June 2012](#) (1)
- [March 2012](#) (3)

Recent Posts

- [Use of variable frequency drive controlled marine winches on the up](#)
- [Energy and CO₂ reduction capabilities of Invertek's variable frequency drives on show](#)
- [Optidrive Elevator variable frequency drive powers new Traction Controller](#)
- [World leading Invertek Drives named Powys Business of the Year](#)
- [Optidrive E3 – the only general purpose VFD you need](#)

[Log in](#)

Follow Us

iSource

Variable Frequency Drives

- [Optidrive E2](#)
- [Optidrive E3](#)
- [Optidrive P2](#)
- [Optidrive Eco](#)
- [Optidrive Elevator](#)
- [Optidrive E2 Single Phase](#)
- [OptiTools Studio](#)

Sectors

- [Pump Control](#)
- [HVAC Building Services](#)
- [Elevators](#)
- [General Automation](#)
- [Marine Equipment Control](#)
- [Combustion Air Fan Control](#)

General

- [Global Engineered Support](#)
- [News & Exhibitions](#)
- [About us](#)
- [Career Opportunities](#)
- [Contact](#)