



Construction / Architecture / Engineering

Lenovo

Empowering engineers to **work from anywhere**

KÉSZ Group

Construction giant KÉSZ Group equips engineers with high-performance Lenovo mobile workstations, enabling them to work just as productively in the field as they can in the office.

MOL Group HQ, Budapest, Hungary

1

Who is KÉSZ Group?

One of the largest technology-driven group of companies in Hungary focusing on construction, KÉSZ Group specializes in large-scale building projects—ranging from houses and offices to factories, hospitals, schools, and sports centers. Over the last 40 years, KÉSZ Group has built enough industrial, defense, logistics, commercial, and tourist facilities to cover eight times the area of New York City: 5.5 million square meters.

In addition to construction and engineering, KÉSZ Group also offers real estate development, facility management, facade, roof and cladding manufacturing, industrial technology solutions, hospitality, and logistics services. A traditional, family-owned company, KÉSZ Group is headquartered in Budapest and operates subsidiaries in Germany, Romania, Serbia, and Ukraine.



2

The Challenge

Whether working on a large-scale national infrastructure project such as Budapest International Airport, or a small-scale office development, KÉSZ Group's engineers rely on specialized Building Information Modeling (BIM) software to create virtual model of structures. This virtual model of a building can be used for the planning, design, construction, and operation of the building.

For many years, KÉSZ Group's engineers have used specialized workstations for BIM, computer-aided design (CAD), and other modeling applications. While these desktop PCs performed well, engineers had to rely on pen and paper when visiting construction sites.



“Until recently, only desktop workstations were powerful enough to perform compute-intensive tasks like BIM and CAD. But in the past few years, the processing power of mobile workstations has advanced dramatically. We wanted to give engineers the flexibility to access models and data at job sites as well as in the office.”

Dr. Gábor Palágyi

Deputy Director Procurement, KÉSZ Group



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“Time is money in the construction industry—even short delays can impact the project timeline and be very costly. To reduce the cycle time for design modifications and changes, we aimed to give engineers the freedom to work from anywhere.”

Dr. Gábor Palágyi

Deputy Director Procurement, KÉSZ Group

Combining mobility and performance

Working with Lenovo, KÉSZ Group replaced its fleet of fixed workstations with Lenovo ThinkPad P15 Gen 2 mobile workstations. Powered by 11th Gen Intel Core i9 processors, the ThinkPad P15 Gen 2 delivers the high CPU and GPU performance to run demanding BIM and CAD workloads with ease.

Dr. Palágyi comments: “The Lenovo ThinkPad P15 Gen 2 mobile workstation is the ideal device for engineers to take out in the field. It’s portable and durable yet powerful enough to handle complex modeling workloads.”

Hardware

Lenovo ThinkPad P15 Gen 2

Software

Autodesk Revit
Grasshopper 3D
Rhinoceros 3D

Services

Lenovo On-Site Warranty Services
Lenovo Warranty Upgrades



During the workstation refresh, KÉSZ Group took the opportunity to upgrade the rest of its client hardware fleet. The company selected the Lenovo ThinkBook Series for office staff and premium Lenovo ThinkPad T and X1 Series laptops for executives.



“We’re big fans of Lenovo technology. The laptops are well built, reliable, and backed by on-site support services—not that we ever have much cause to use them! In three years, I can count on one hand how many times we’ve had to call in help from Lenovo. But it’s reassuring to know that we can rely on them when we need them.”

Dr. Gábor Palágyi

Deputy Director Procurement, KÉSZ Group

3

Results

With Lenovo ThinkPad P15 Gen 2 mobile workstations, KÉSZ Group engineers can work more efficiently and productively from anywhere: in the office, on site, or from home—a key advantage during the COVID-19 pandemic.

“Our push for greater mobility paid off in an unexpected way when the pandemic hit,” recalls Dr. Palágyi. “Staff could switch to remote working without missing a beat, minimizing disruption to the business. Now that restrictions have lifted, engineers can seamlessly move between home, the office, and job sites with the Lenovo mobile workstations. This means that they can stay productive no matter where they are.”



As well as enabling greater mobility and flexibility, the Lenovo ThinkPad P15 Gen 2 devices have significantly improved performance of key workloads. For example, Rhinoceros 3D—one of KÉSZ Group’s CAD applications—now runs 25% faster than before, enabling engineers to work more efficiently and complete plans faster.

“Engineers spend much less time waiting for models to render and simulations to run,” confirms Dr. Palágyi. “Across our 200-strong engineering team, this adds up to many hours saved.”



Enables engineers to work remotely—from job sites or from home



25% boost in Rhinoceros 3D performance



27% boost in Grasshopper 3D performance

Embracing virtual reality and augmented reality

KÉSZ Group has found Lenovo ThinkPad solutions to be so reliable that it has extended its usual three-year refresh cycle, increasing its return on investment in the Lenovo devices.

Dr. Palágyi says: “The Lenovo mobile workstations and laptops are all working perfectly, so we see no need to replace them—a completely different experience to the one we had with our previous PC vendor. In the near future, we’re planning to introduce Lenovo ThinkVison monitors with built-in docking stations. The Lenovo ThinkVison monitors eliminate the need for a separate dock and can be switched off remotely after working hours—reducing energy costs in our offices and improving sustainability.”

Looking further ahead, KÉSZ Group plans to adopt virtual reality experience (VRX) applications to better support both employees and customers. For example, the company is eager to harness AR/VR technology to enable engineers to take their BIM model to the construction site and experience it as an immersive 3D environment. Similarly, AR/VR can be used as a sales tool to show customers around buildings before they have been constructed.

“We’re already in talks with Lenovo about how their ThinkReality VRX headsets could make these ideas a reality,” says Dr. Palágyi.

ThinkReality



Open Air Stage, Riga, Latvia



“We have found the perfect partner in Lenovo and are excited to continue our collaboration. We trust Lenovo to work with us on our future digital transformation projects.”

Dr. Gábor Palágyi

Deputy Director Procurement, KÉSZ Group

Why Lenovo?

KÉSZ Group assessed mobile workstation offerings from several leading vendors before landing on the ThinkPad P15 Gen 2.

“For us, Lenovo offered the best mobile workstation solution with the best support at the best price,” states Dr. Palágyi. “The build quality and durability of the hardware was an important consideration, as were the support services. We were looking for a reliable solution for long-term use, and Lenovo delivered just that—backed by on-site support and attractive warranty terms.”

How can you empower employees to work productively on site and in the office?

Giving engineers access to building models and data from anywhere with Lenovo technology.

Explore ThinkPad P Series Mobile Workstations

ThinkPad