



## A SUCCESS STORY –

The automatic underground car park for residents  
below the Donnersbergerstraße in Munich-Neuhausen

GIVT · WÖHR Autoparksysteme GmbH ·  
WÖHR + BAUER · P+R München



WÖHR + BAUER



## HOW A PARKING SYSTEM CAN IMPROVE THE QUALITY OF LIFE!

A parking lot with through traffic – this is how the Donnersbergerstraße in Munich’s Neuhausen district was still referred to in the press. After all, parking used to be to the left and right of the roadway as well as in the center where the old tram tracks were. Today, however, the way the street looks is entirely different. It is dominated by lush greenery, wide sidewalks and street cafés that invite you to stop by and spend some time.

All of this is made possible by the unique automatic residential parking garage below street level. A success story that began in 2002. On behalf of the City of Munich, the GIVT Gesellschaft für Innovative VerkehrsTechnologien mbH invited tenders for the concept and the parking system throughout greater Europe.

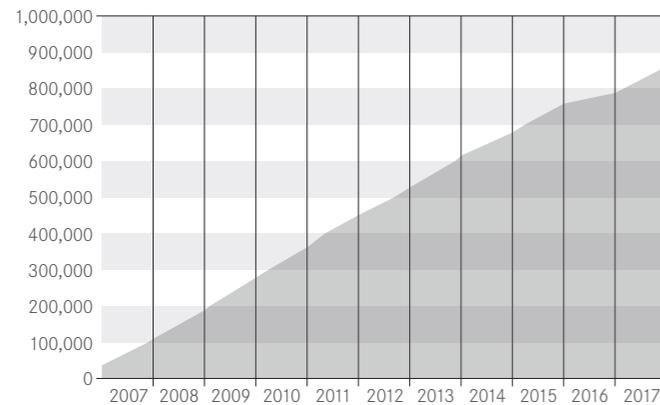
WÖHR + BAUER GmbH were assigned with the contract award for the overall engineering and turnkey construction of the residential underground parking as well as a 20 year

full maintenance contract. WÖHR Autoparksysteme GmbH implemented the system technology. In September 2004, construction of this unique project began. It was completed and handed over to the City of Munich in May 2006. P+R Park & Ride GmbH operates the underground parking garage.

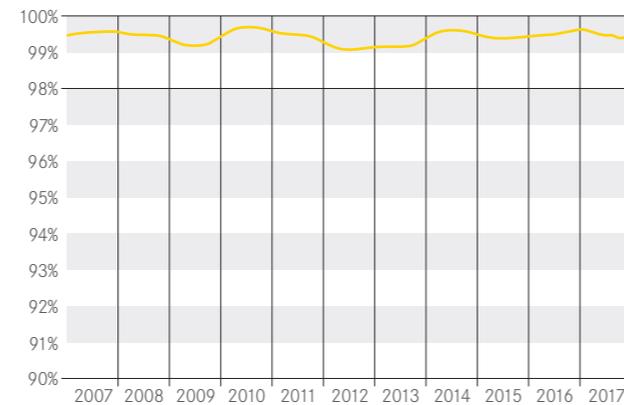
Residents can conveniently and safely park and park out using one of the four glass-walled transfer areas. When the vehicles disappear underground, they are automatically stored by the **WÖHR Multiparker 740**, which serves a total of 284 parking spaces. The technology involved is highly impressive. In the two separate systems, four side lifts and two storage and retrieval units each ensure fast and efficient storage.

The car transfer areas and respective access roads in front are fitted with three video cameras, whose video material is fed to the central control room of P+R Park & Ride GmbH, which is staffed 24 hours a day.

Parking processes [overall]



System availability to VDI regulations





There is also a direct voice connection link to the P+R control room from each of these car transfer areas. This allows tenants to ask questions and relevant information to be communicated in the event of a fault or malfunction.

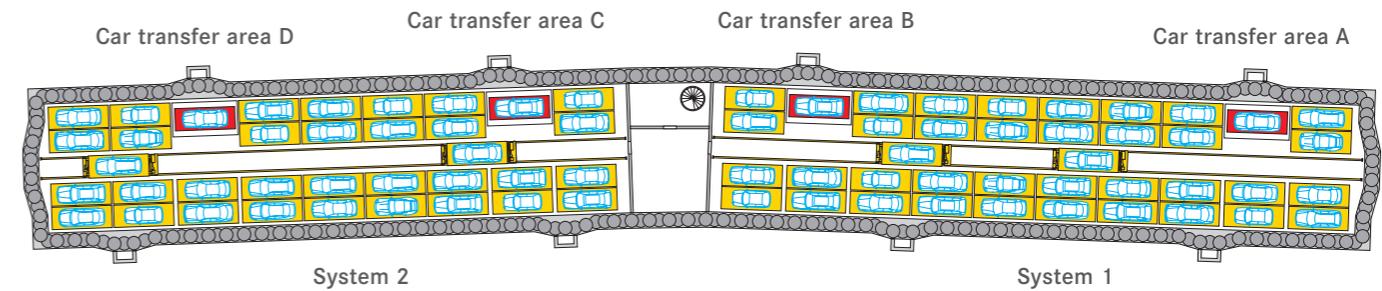
The availability of the system is ensured around the clock by four service technicians, who are specially trained for this system at the Munich branch of PGS Parking- und Garagen-Service GmbH.

The two **WÖHR Multiparker 740** are the most successful residential garage facility with automatic parking systems in Europe when it comes to capacity utilization and availability. Gone are the days when residents had to slowly look

for parking spots on the street, a change that also reduces noise levels and pollutant emissions as well as significantly improves the quality of life of the residents.

The garage is also very popular. Due to the high appeal and satisfaction of local residents, the waiting time for a parking space is 1.5 years.

The automatic underground parking garage for residents is therefore a success model that has been certified by the ADAC, is a select location of the »Deutschland – Land der Ideen« federal initiative and has been awarded by the »Lebendige Stadt« [city of vibrance] foundation.



Year of construction	2006
Number of parking spaces	284
Parking levels	4
Length of system	121m
Width of system	12m
Height in storage area	8.70m
Base area of system	1,452m <sup>2</sup>
Constructed space, parking system	12,633m <sup>3</sup>
Constructed space per parking space	45m <sup>3</sup>
Access time [mean]	137sec.

<b>Owner builder</b>	State capital Munich
<b>General contractor / planner</b>	WÖHR + BAUER GmbH, München
<b>Parking system</b>	WÖHR Autoparksysteme GmbH, Frielzheim
<b>Consultant to the owner builder for the parking system</b>	GIVT Gesellschaft für Innovative VerkehrsTechnologien mbH, Berlin
<b>Operator</b>	P+R Park & Ride GmbH, München
<b>Customer service</b>	PGS Parking- und Garagen-Service GmbH, Office München

WIR VERDICHTEN PARKRAUM.

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