

## Room for growth, transparency and openness

The NanoFactory in Haar: Architecture and concept

**Designed by HENN, the internationally renowned Munich architects, the NanoFactory makes a stunning first impression with its fourteen meter high glass facade and dynamic architecture, which fits perfectly into the triangular lot in Eglfinger Weg 2, directly opposite Haar station. Glass – symbolizing transparency and openness – also dominates on the inside of this three-story building. With 9205 square meters of floor space, it offers ample room for future growth and space for up to 300 employees – around 150 of whom have already moved in.**

The NanoFactory provides a new home for attocube systems AG and neaspec GmbH – two Munich nanotechnology specialists and companies of the WITTENSTEIN Group. The sales team of WITTENSTEIN alpha GmbH, who until now have been based in Ottobrunn, will likewise take up residence in the ‘Haar triangle’.

### Openness and space for ideas and interaction

The focal point of the building is the light-flooded atrium – an opportunity to meet and communicate and the central reception area for customers and visitors. From there you can see right up to the roof: atriums offset from one another create air-filled spaces across two stories in an interplay of dimensions which makes this tall, open space appear wonderfully light and airy. Open communication zones and lounge areas on the mezzanines provide opportunities for informal exchanges among employees.

The first floor of the curved building incorporates the conference rooms, a showroom and a cafe with a patio. The ‘atomic kitchen’ follows the concept of openness and transparency from more than just the architectural design perspective; not only employees and their guests but the general public, too, are welcome to take advantage of the bistro.

A stairway provides access to the mezzanine, where a 5 x 2 meter, floor-to-ceiling glass wall offers a splendid view into the heart of the NanoFactory: the manufactory and adjacent laboratories. A huge glass cube in the center serves as a testing room.

The two upper floors house the development areas, meeting rooms and offices, with insulated acoustic ceilings and large glass fronts contributing to an optimal work environment. From the spacious, green rooftop terrace, which is freely accessible to employees, you can enjoy a panoramic outlook over the surrounding buildings and installations.

### Short lines of communication for greater flexibility and efficiency

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The NanoFactory building in Haar – a hotbed of technology on the east side of Munich.

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Innovative products go hand in hand with optimized manufacturing processes and modern infrastructure. When planning the building, particular attention was paid to short lines of communication: the development, production, delivery and warehouse areas are all 'workflow optimized'. Processes and workflows are leaner and more efficient as a result – a precondition of scalable manufacturing.

### Responsible and sustainable

The WITTENSTEIN Group – the client and owner of the NanoFactory – has a deep-rooted conviction of which the new building represents a logical continuation: that there is no alternative to responsible investment in a sustainable future. The NanoFactory was built using the most advanced techniques and materials available: approximately 60% of the facade was designed with the triple glazing familiar from passive houses while the non-transparent 40% reduces the energy input to a minimum. The individual lamellae of the steel-and-glass frontage can be opened to enable resource-friendly night cooling in summer. The building services are energy efficient, and thanks to the specially insulated outer shell the NanoFactory is also a low-energy building under the German KfW 55 standard.

The official opening of the NanoFactory marks the start of a new era in the history of attocube systems AG, established in 2001. The foundation has now been laid for further growth.

### The NanoFactory: Key data

Capital investment	20 million euros
Architect	HENN Architekten, Munich
Client	Wittenstein Immobilien GmbH
Hybrid building	Combination of production areas, offices and catering
Height	14 m, 3 stories
Lot size	5720 m <sup>2</sup>
Floor space	9205 m <sup>2</sup>
Production space	1200 m <sup>2</sup>
Restaurant	300 m <sup>2</sup>
Rooftop terrace	300 m <sup>2</sup>
Facade	Superinsulated exterior, partially with triple glazing, glass frontage totaling approx. 1800 m <sup>2</sup>

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Energy supplies

The building gets its power from a district heating network.

Electricity is supplied via the medium voltage grid.

The ventilation system has a heating and cooling function with a heat recovery rate of between 70 and 75%.

Lighting and acoustics

Daylight linked lighting control.  
Soundproofed ceiling and floor cladding in the project spaces and offices.

Production areas

Flexible layout. Optimal flow of goods from inbound delivery to shipping.  
Clean assembly environment because all goods are repacked in ESD compliant storage and supply containers.

Chronology

November 17, 2016: Ground-breaking dig  
September 8, 2017: Topping-out ceremony  
September 3, 2018: Moving-in date  
October 11, 2018: Official opening

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**Photos:**



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**Photos: attocube systems AG / Mathis Beutel**

- 1 Exterior view of the NanoFactory
- 2 3rd floor: Open space & library
- 3 3rd floor: Close-up of the atrium
- 4 View of the atrium from below
- 5 Testing room in the manufactory
- 6 View from the mezzanine into the manufactory

Texts and photographs in printable quality can be downloaded from [presse.wittenstein.de](http://presse.wittenstein.de).

### attocube systems AG

attocube systems AG was founded in 2001 and is recognized internationally for innovation and excellence in the development, production and distribution of cutting-edge solutions for the most challenging nanotechnology applications in research and industry. The portfolio includes nano drives, used for highly accurate positioning tasks and surface analyses, as well as ultra-precise distance sensors and fully integrated microscope and cryostat systems. The products operate under extreme conditions such as ultra high vacuum, cryogenic temperatures or high magnetic fields.

### neaspec GmbH

neaspec GmbH is a wholly owned subsidiary of attocube systems AG. Groundbreaking, multi-patented, optical imaging and spectroscopy methods developed by neaspec are offered to material researchers in academia and industry as nanoanalytic research tools. Numerous leading universities, research institutes and industrial enterprises are among neaspec's customers.

### WITTENSTEIN SE – one with the future

With around 2600 employees worldwide and sales of €385 million in 2017/18, WITTENSTEIN SE enjoys an impeccable reputation for innovation, precision and excellence in the field of mechatronic drive technology – not just in Germany but internationally. The group comprises six pacesetting Business Units with separate subsidiaries for servo gearboxes, servo actuator systems,

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medical technology, miniature servo units, innovative gearing technology, rotary and linear actuator systems, nanotechnology and electronic and software components for drive technologies. Through its 60 or so subsidiaries and agents in approximately 40 countries, WITTENSTEIN SE ([www.wittenstein.de](http://www.wittenstein.de)) is additionally represented in all the world's major technology and sales markets.

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