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**Area:** 6,500,000 m<sup>2</sup>

January 2018

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**Production:** about 790,000 vehicles (2017)

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**Models:** Volkswagen Golf, Golf Sportsvan, e-Golf<sup>1</sup>, Golf GTE<sup>2</sup>, Golf GTI<sup>3</sup>, Golf R<sup>4</sup>, Tiguan, Touran

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**Components:** Plastic parts, chassis,

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**Employees:** about 62,300 (December 31, 2017)

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## Plant

Situated on the banks of the Mittellandkanal, an artificial waterway, the plant has an area of more than six square kilometers, with the factory halls alone taking up a surface area of 1.6 square kilometers – an area as large as the entire Principality of Monaco.

The network of roads connecting the individual production facilities, warehouses, administration buildings and outdoor facilities has a total length of 75 kilometers, with 60 kilometers of railway tracks additionally criss-crossing the grounds. Seven locomotives, two shunting robots and a traverse are in operation on the tracks.

## Management

Since June 2016 Stefan Loth has been the Plant Manager and head of vehicle production at the Wolfsburg plant. Loth holds a PhD in mechanical engineering. He began his career in 1997 working with Ford. In 2006 he joined the Volkswagen car brand in Wolfsburg and assumed responsibility for the production system of Volkswagen. After various responsible functions with the Volkswagen brand, he became the Plant Manager for the Seat brand at the Spanish plant in Martorell in 2011. In 2015 he was appointed Plant Manager for the FAW Plant Chengdu.

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<sup>1</sup>**e-Golf** - Electrical consumption in kWh/100 km: combined 12.7, CO<sub>2</sub> emissions combined in g/km: 0, efficiency class: A+.

<sup>2</sup>**Golf GTE** - fuel consumption in l/100km: combined 1.8 - 1.6; power consumption in kWh/100km: combined 12.0 -11.4; CO<sub>2</sub>emissions combined in g/km: 40 - 36; efficiency class: A+.

<sup>3</sup>**Golf GTI** - fuel consumption in l/100 km: urban 8.2 - 7.8 / extra-urban 5.5 - 5.3 / combined 6.4 - 6.3; CO<sub>2</sub>emissions combined: 148 - 145; efficiency class: D.

<sup>4</sup>**Golf R** - fuel consumption in l/100 km: urban 10.2 - 8.6 / extra-urban 6.7 - 5.9 / combined 8.0 - 6.9, CO<sub>2</sub>emissions combined in g/km: 182 - 157; efficiency class: E - D.

## **Production**

The world's largest single car-manufacturing complex produces the Golf, Golf Sportsvan, Golf R, Golf GTI, Golf GTE, e-Golf, Touran and Tiguan. About 790,000 vehicles rolled off the assembly lines in 2017. The daily production capacity amounts to about 3,800 vehicles. Apart from car production, component manufacture is another cornerstone of activities at Wolfsburg. The components produced here, including drive shafts and plastic components, are used in vehicle production in Wolfsburg and at other Group plants.

## **Material movements and flow of goods**

Every day, around 180 double-decker rail cars and about 185 trucks leave the Volkswagen plant in Wolfsburg with a cargo of some 3,200 vehicles. Incoming deliveries of raw materials, components and system modules from around 2,600 suppliers arrive at the plant in about 100 rail cars and 2,000 trucks every day.

## **Components: plastic and chassis**

As one of six business areas within the "Components" field of responsibility of the Board of Management, "Plastics" is an internal system supplier of plastic components for vehicle interiors and exteriors. About 2,100 people are employed in Wolfsburg (and about 480 in Brunswick). Parts are supplied for models including the Golf, Golf Sportsvan, Tiguan and Touran produced in Wolfsburg as well as models produced at Zwickau, Kaluga and Poznań. The product range includes the design components instrument panel, door trim and fender as well as functional components such as fuel tank holders. Apart from production work, the activities of the business area include the assembly and just-in-sequence delivery of complex modules such as cockpits and front ends. The plastics competence center develops, tests and implements ground-breaking innovations such as the use of renewable raw materials in cooperation with toolmaking and research units. These activities are based on a full range of skills throughout the entire product creation process – from development and planning through to series production, from the granulate to the finished module.

"Chassis" is another business area in the "Components" field at the Wolfsburg plant. In this business area, drive shafts, steel wheels, drag link tubes and cable shifts are manufactured in an area of approx. 200,000 m<sup>2</sup>. In addition, the complete wheels for all vehicles produced at Wolfsburg are assembled "just in sequence" from steel rims produced at the plant, and aluminum rims and tires delivered by suppliers. Apart from the Wolfsburg plant, which receives 100 percent of these components from the unit, other major customers include plants of the Volkswagen, Audi, SEAT and ŠKODA Group brands throughout the world.

## **Technical Development**

The research and development facilities at Wolfsburg represent one of the largest development centers in the automotive industry. Working in a total area of 1.2 square kilometers, about 10,800 highly qualified employees shape the mobility of the future. Here, Volkswagen forges ahead in future-oriented areas such as electrification, digitalization and automated driving. The technical development team has advanced facilities for the design, development and testing of future Volkswagen models. These include various test beds, wind tunnels, visualization centers and proving grounds which are directly connected to the plant. A key element is the E-Campus, where Volkswagen pools its expertise in the field of electrical and electronic systems.

## **Toolmaking**

Toolmaking acts as an independent unit within production at the Volkswagen Passenger Cars brand. From the design phase onwards, Toolmaking is a strategic partner of Technical Development and Production. Key tasks include production feasibility assessments of all steel sheet body parts, the production of the tools required including introduction on production presses and the installation and commissioning of the systems in body production. The toolmaking unit includes two main sections: press toolmaking and plant assembly. Expertise in the press toolmaking section includes the production of press tools for cold and hot stamping for the creation of complex surface structures. The advanced machining center also contributes to this area. The main emphasis in plant assembly is on the production of efficient, durable framers and hemming systems as well as welding systems. Toolmaking at Volkswagen is organized in a world-wide network ensuring the trouble-free start of production at all the brand's locations. Currently, the network includes toolmaking facilities in Osnabrück, Palmela, Stupava, Anchieta, Puebla and Pune, under the central leadership of the unit in Wolfsburg.

## **Environment**

The Volkswagen brand has set itself an ambitious target for the reduction of environmental impact in production. By 2025, vehicles and components are to be produced in a way which is 45 percent more environmentally compatible than in 2010.

The target of a 25 percent reduction in the environmental impact of production by 2018 within the framework of the Think Blue. Factory. holistic environmental program was reached ahead of the date originally set.

The key figures measured are CO<sub>2</sub> emissions, energy consumption, water consumption, waste production and solvent emissions.

A key aspect for the successful implementation of resource efficiency measures is systematic interchange among the production locations in order to transfer appropriate optimization ideas between the plants.

In order to realize further savings potentials, compressed air systems, cold networks, cooling towers, hall ventilation systems and lighting systems are to be comprehensively reviewed.

## **Energy**

The two power plants operated in Wolfsburg by Volkswagen Kraftwerk GmbH generate power and heat not only for the Volkswagen plant, but also for the city of Wolfsburg. In addition, together with the power plant at Kassel and the compact cogeneration plant at Brunswick, the Wolfsburg power plants supply electricity for the plants at Salzgitter, Brunswick, Emden, Hanover and Kassel.

Since 2011, Volkswagen Kraftwerk GmbH has invested across all locations in the expansion of renewable energies and the installation of high-efficiency natural gas-powered cogeneration plants.