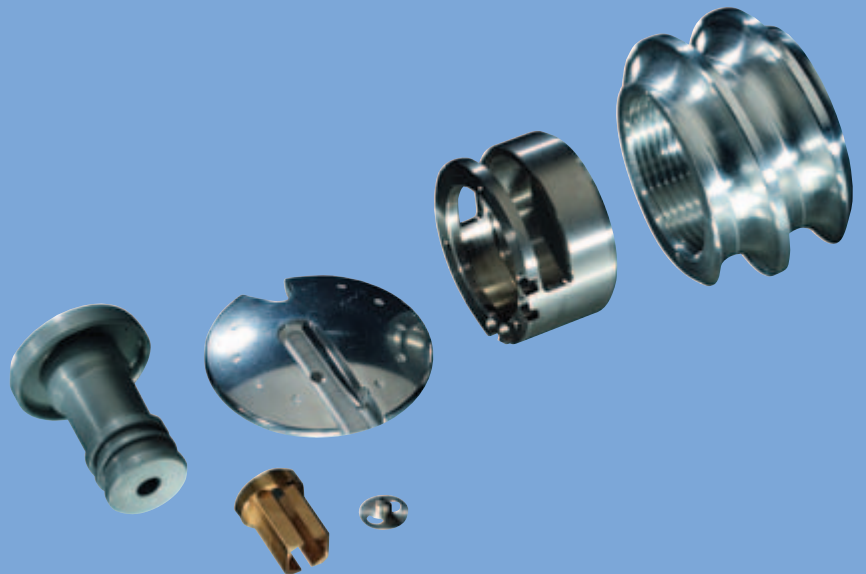




# Safety through Precision



HEINRICH MÜLLER GMBH  
PRÄZISIONSDREHTEILE





## Precision since 1907



As long ago as 1907 Heinrich Müller, the founder of our company, declared his passionate belief in the principle of "safety through precision". Since those days we have maintained an unbroken tradition of manufacturing high-precision turned parts ready to build in in medium and large quantities for our customers worldwide.



We deliver to a variety of industrial branches, first and foremost to the automotive/motor, optical, precision engineering, electrotechnical and toys industries.

Today our company is an internationally highly regarded supplier with about 90 employees at the two production plants in Wendelstein and Schwarzenbruck to the south-east of Nuremberg/Germany.



The two plants, being only about 10 km/6 miles apart perfectly complement each other technologically: Wendelstein produces in the range of  $\varnothing$  1 mm up to  $\varnothing$  30 mm ( $\varnothing$  0.04 inches –  $\varnothing$  1.2 inches), Schwarzenbruck from  $\varnothing$  30 mm up to  $\varnothing$  100 mm ( $\varnothing$  1.2 inches –  $\varnothing$  3.9 inches).

The interaction of our highly skilled and mostly in-house trained workers together with the most modern machinery and the most precise measurement and inspection techniques is the precondition for our ability to keep tolerances within the range of a thousandth of a millimetre/micro-inch and of course always to keep our promised delivery schedules.

Our machinery and equipment is so diverse that most of the parts can be produced in one operation on the machine without the necessity of further secondary manual finishing procedures.

Since 1997 our quality management system has been continuously certified according to **DIN EN ISO 9001** standards.

Environmental protection is an integral part of our corporate management culture and contributes significantly to the success of our company. Since 2005 therefore our environmental management system is certified according to **DIN EN ISO 14001** standards.

Occupational health and work safety standards have been effectively integrated into our corporate organisation.

*Pictures from top to bottom:*

*Precision turned parts for optical devices*

*CNC Swiss type turned parts*

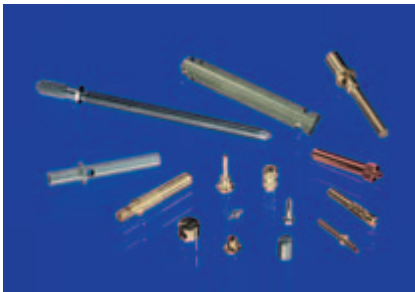
*CNC multi-spindle turned parts*







## Machinery and equipment



*Pictures from top to bottom:  
Precision turned parts for the  
automotive/motor industry  
Precision turned parts from  
coil materials  
Centerless ground parts*

In both plants a **fully equipped tool-making department** produces special devices, gauges and cams as required.

Carbide forming tools are produced in-house either on optical sectional grinding machines (PeTeWe) or on a wire cut electrodischarge machine (MITSUBISHI).

This enables us to respond to our customers' particular requirements very quickly and at reasonable prices. Our high-precision turned parts are produced on the following automatic screw machines:

- CNC-guided 6-spindle automatic screw machines (INDEX)
- cam-guided 6-spindle automatic screw machines (TORNOS)
- CNC-guided single-spindle automatic screw machines (INDEX, TRAUB, TORNOS, STAR)
- CNC-guided coil-fed single-spindle automatic screw machines (ESCOMATIC)
- cam-guided single-spindle automatic screw machines (INDEX)
- cam-guided coil-fed single-spindle automatic screw machines (ESCOMATIC)

Our modern automatic screw machines are equipped with Y-axis and transit function. During the working process we are able to do rear and crosswise processing, polygonal turning, eccentric turning,

deep drilling and marking operations. This enables us to produce the most sophisticated turned parts in only one working process.

For **secondary and finishing operations** we are equipped with machines for secondary turning, drilling, grinding, threading, thread rolling, milling, pressing and riveting.

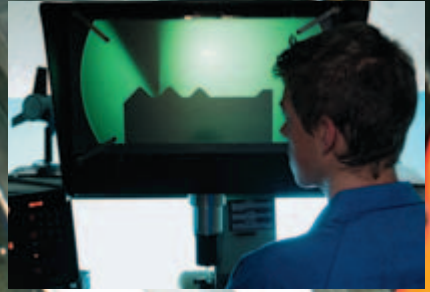
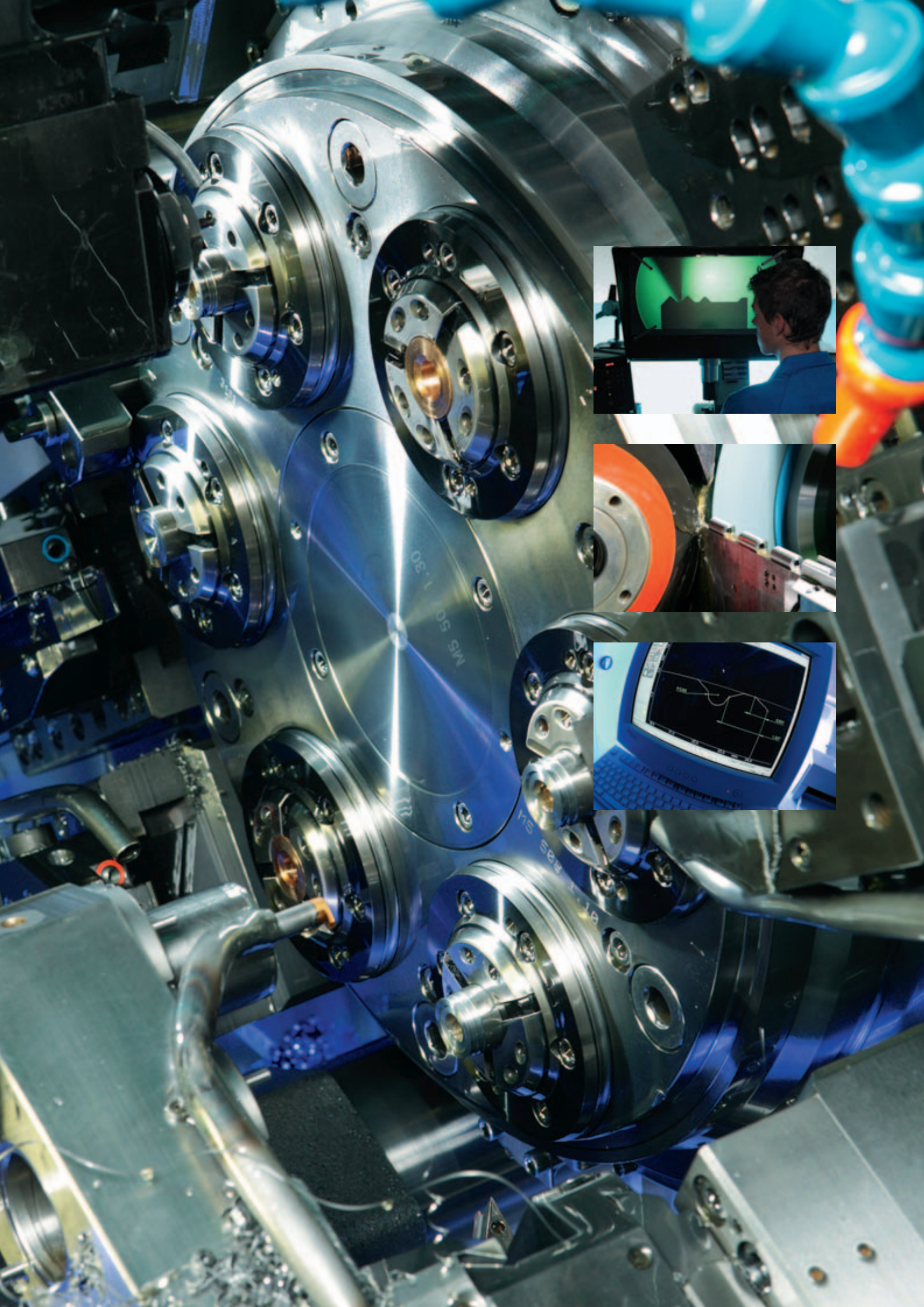
Our specialities are:

- centerless grinding (TSCHUDIN, PARAGON)
- thread rolling
- flat rolling
- deburring by sandblasting (IEPCO PEENMATIC)
- vibratory finishing (WALTHER TROWAL)
- sub-assemblies of precision parts

**Heat and surface treatment** of our products is carried out by reliable and efficient long-term partners. During the whole production process we of course work exclusively with calibrated gauges.

Apart from that our **quality control department** is also equipped with form measuring systems (MAHR), roughness/sectional depth measuring devices (MAHR, HOMMEL), optical sectional projectors (DR. HEINRICH SCHNEIDER), measuring microscopes (VISION), contour measuring stations (MAHR) and automatic optical sorting machines (VESTER) **for a 100% inspection of our production output.**







## Store and processed materials

We mainly process the following materials:



	<i>Description (DIN):</i>	<i>Material-No. (DIN):</i>
<b>1. Carbon Steel:</b>	11SMn30	(Pb-free) 1.0715
	11SMnPb30 *	1.0718
	11SMn37	(Pb-free) 1.0736
	11SMnPb37 *	1.0737
	ETG 88 (high tensile 8.8)	–
	ETG 100 (high tensile 10.9)	–
<b>2. Stainless Steel:</b>	X14CrMoS17	1.4104
	X6CrMoS17	1.4105
	X8CrNiS18-9	1.4305
<b>3. Brass:</b>	CuZn38Pb2	2.0371
	CuZn39Pb3	2.0401
	CuZn35Ni2	2.0540
	CuZn40Al2	2.0550
	Ecobrass/Wieland	(Pb-free) –
	430 PbF/Diehl	(Pb-free) –
<b>4. Nickel Silver:</b>	CuNi7Zn39Pb3Mn2	2.0771
	CuNi12Zn30Pb1	2.0780
<b>5. Copper:</b>	OsnaCu58S	(Pb-free) 2.1498
	OsnaCu58Te	(Pb-free) 2.1546
<b>6. Aluminium:</b>	AlMgSiPb	3.0615
	AlCu4PbMgMn	3.1645
	AlCu6BiPb	3.1655
	ALECO 62Sn/Corus	(Pb-free) –
	AlCuMgSn (Stanal 40A/Alcan)	(Pb-free) –
	AlMgSiSnBi (Stanal 32AA6023/Alcan)	(Pb-free) –
	<b>7. Titanium:</b>	Ti6Al4V (Grade 5)
Ti3Al (Grade 4)	3.7065	

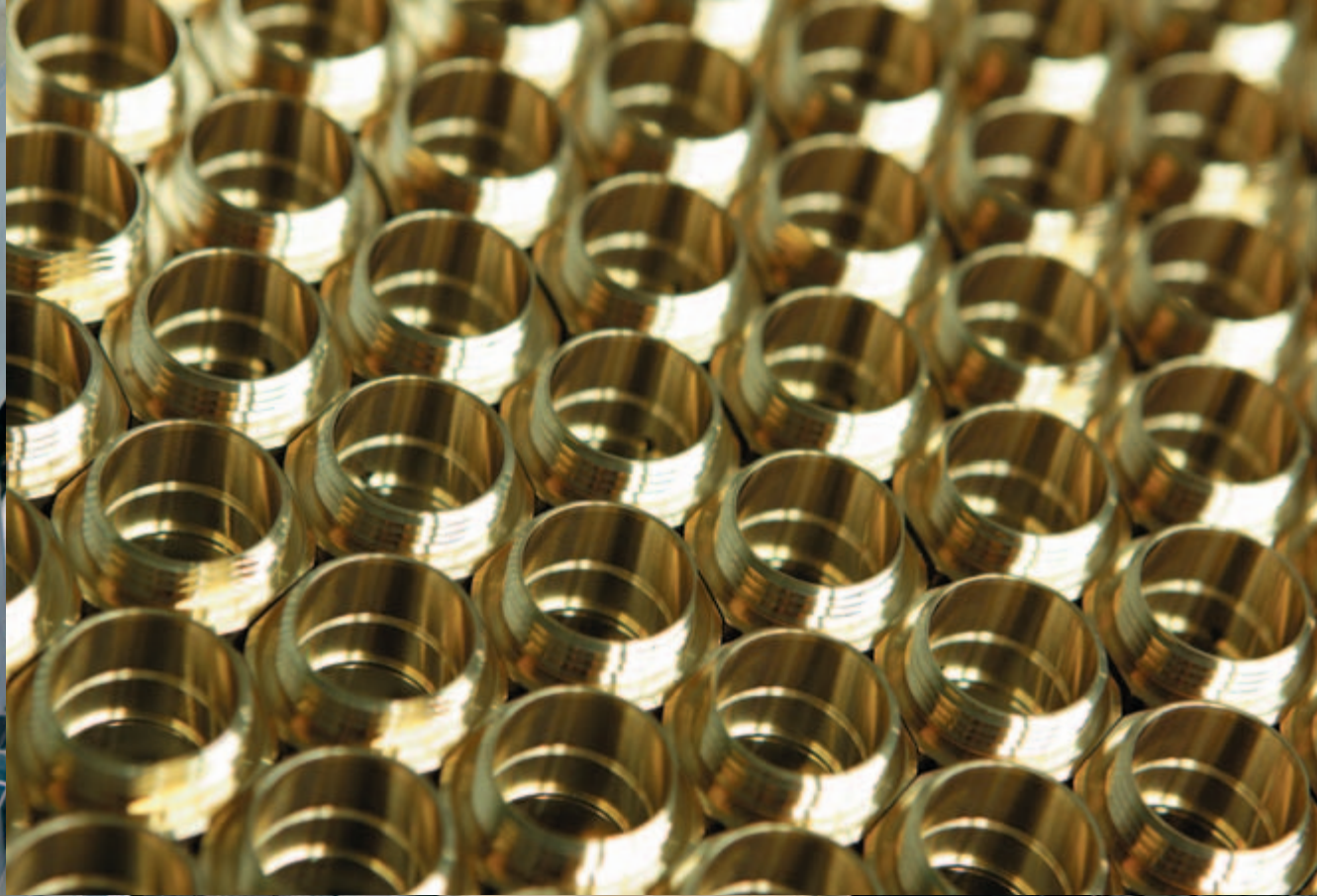
\*) also with additives of Te and Bi

### Our manufacturing capabilities:

- coil materials from Ø 1 mm up to Ø 9 mm (Ø 0.04 inches – 0.35 inches)
- bars and tubes from Ø 2 mm up to Ø 100 mm (Ø 0.08 inches – Ø 3.94 inches)
- pre-manufactured blanks up to Ø 160 mm (Ø 6.30 inches)

**Efficient lot sizes start at about 5,000 pieces.**







# HEINRICH MÜLLER GMBH PRÄZISIONSDREHTEILE



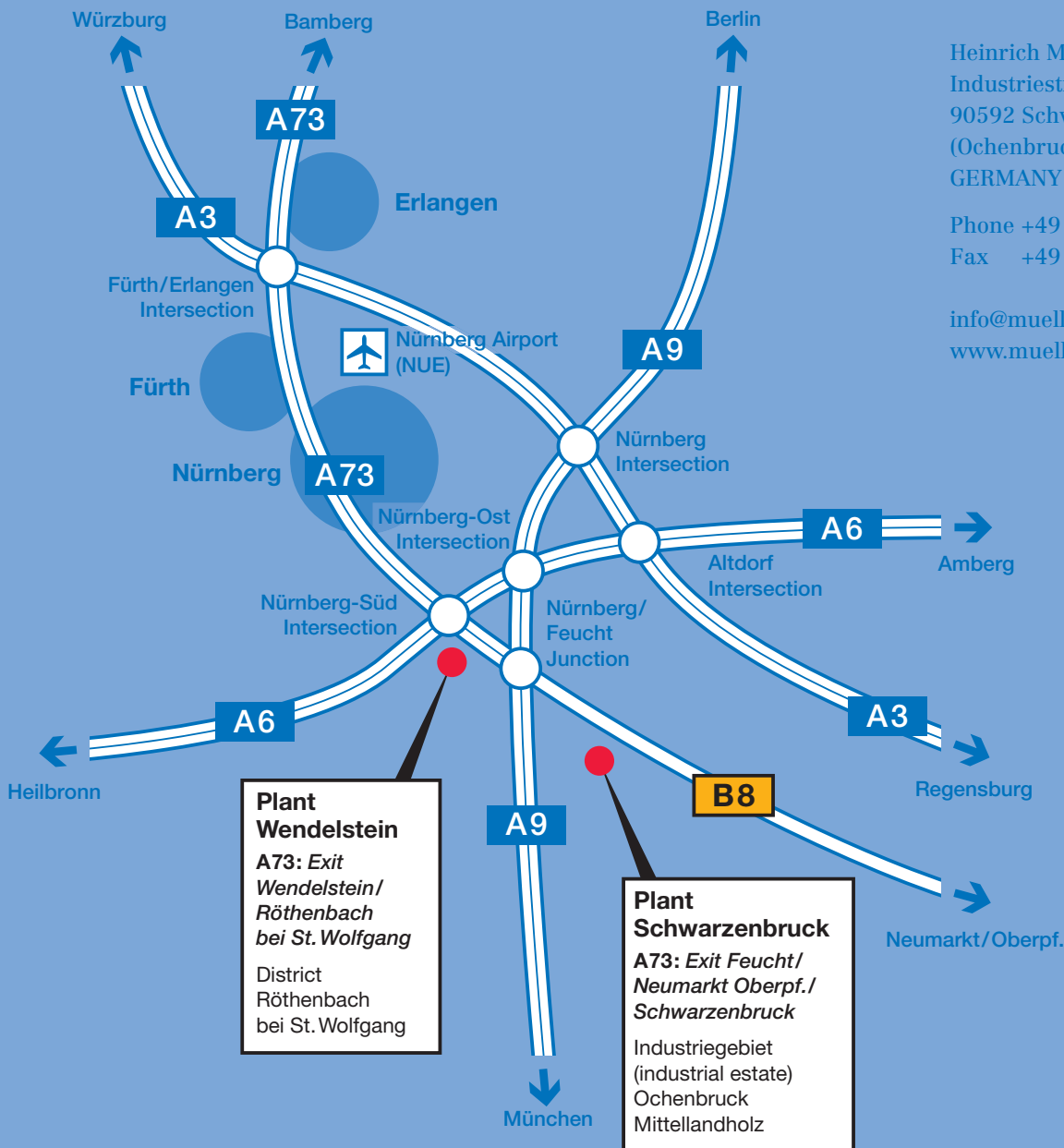
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