



Austria*

*A Roaring Engine for the
Global Automotive Industry

All of Europe by Air in 3 hours



Austria's central location in Europe makes the country the ideal hub for East-West business relations

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an International Hub
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Well-known automotive manufacturers such as BMW and Opel have established manufacturing facilities in Austria: BMW opened its factory in Steyr in 1982, the Opel factory in Wien-Aspern opened the following year.

The Austrian Automotive Industry – an International Hub

Austria has developed into a high performance and leading technology center for the European automotive industry.

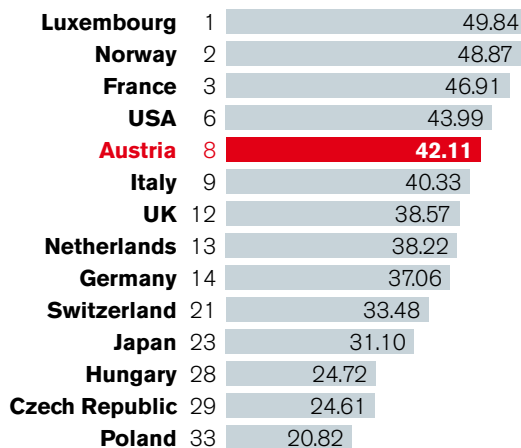
Rapid growth. The country’s strongly growing automotive sector, numbering 700 companies and 175,000 employees, currently generates 22.5 billion euros (2007). The automotive industry is one of Austria’s most important industrial sectors, producing 2.5 million engines and gearboxes, 248,000 passenger cars, 69,000 motorcycles, 26,650 heavy goods vehicles, 26,000 trailers and tractors annually. The export ratio is 87 percent.

Automotive manufacturers and components suppliers who are active worldwide, such as BMW, Opel, Saab, Magna and MAN, are continually setting up new and substantial investment and development projects in Austria. The German automobile manufacturer BMW will have its new MINI SUV sports utility vehicle assembled in Graz. The new vehicle model will be launched in 2010.

At the heart of the new Europe. Austria lies in the middle of a rapidly growing automotive region. 10 car manufacturing facilities are located within a radius of 300 kilometers of Vienna. About three million cars are produced on assembly lines in Central and Eastern Europe. More than 1,000 international companies – in the automotive sector such as Magna, Renault or Volvo – run their Eastern European operations from their base in Austria.

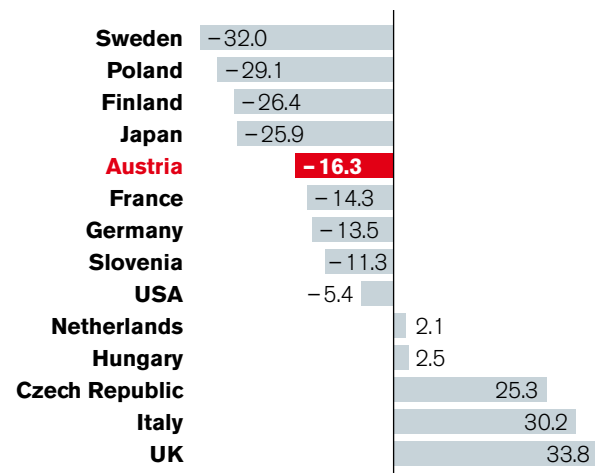
Output per Man-Hour in Manufacturing Industry

GDP per person employed per hour, in US\$



Unit Labor Costs in the Manufacturing Industry

Average percentage changes 1996–2006



Source: World Competitiveness Yearbook, 2007

Source: Austrian Institute of Economic Research, 12/2007

Stability Comes as Standard in Austria

High standards of training and just-in-time delivery. Austria is ranked amongst the world's top ten in terms of productivity.

Flexible working hours provide companies with the means of reducing costs, increasing productivity and of manufacturing according to actual market demands. An amendment to the Working Time Act will enable companies to make its use of their employees on a 24 x 7 basis, 365 days a year, under certain conditions. The maximum working hours will be extended to 60 hours a week and 12 hours a day. The "breathing" factory – still a vision in many European countries – is already reality in Austria. BMW Motoren, based in Steyr (Upper Austria), uses more than 60 different flexible working time models.

Qualification, motivation, availability. Austria can be particularly proud of its highly qualified workforce. In international comparisons its educational system is one of the best. A particularity of the Austrian educational system is dual apprenticeship training – a combination of theory and practice regarded as exemplary throughout Europe. A key component in this is the occupational training schools which are comparable in educational level to 3 to 5 year colleges in other countries. The practice-oriented educational syllabus of these occupational training schools provides Austria with a strong advantage as a location, particularly in the automotive sector, and is complimentary to the well-established university-level educational opportunities. According to the World Competitiveness Yearbook 2007, the Austrian workforce ranks number 2 worldwide for motivation, and Austria is number 1 in the world for the availability of qualified personnel.



"The Austrian automotive components supplier industry is defined by its various strengths: a high degree of reliability, the efficient management of complex problems and the willingness to cooperate in highly technical fields."



Skilled Labor

10 = Sufficiently available in the labor market

Austria	1	7.38
Colombia	2	7.19
Singapore	3	6.92
Switzerland	5	6.76
USA	7	6.68
Germany	8	6.52
France	16	6.15
Japan	18	6.04
Hungary	20	5.83
Netherlands	22	5.72
Italy	27	5.36
Czech Republic	33	5.03
UK	39	4.95
Poland	48	4.13

Source: World Competitiveness Yearbook, 2007

Motivated Workers

10 = Employees identify with company objectives

Denmark	1	8.54
Austria	2	7.86
Switzerland	3	7.85
Netherlands	9	7.16
Japan	10	7.15
Germany	14	6.98
USA	18	6.75
Belgium	24	6.19
UK	25	6.13
Czech Republic	28	6.00
Hungary	35	5.30
Italy	37	5.20
Poland	43	4.86
France	46	4.65

Source: World Competitiveness Yearbook, 2007



A Market with Tradition

Austria's automotive industry stretches back over a century.

Austria the pioneer. During the 1880's, whilst a mechanic at the University of Vienna, Siegfried Marcus built the world's first automobile with a petrol-driven, four cylinder engine and magnetic-electric ignition.

The first car in the world with front-wheel drive was also developed in Austria: the Viennese Gräf brothers, whose company still exists today as a subsidiary of the German MAN group, invented the front-wheel drive around 1900.

A century of auto manufacturing. The industrial manufacture of automobiles was primarily driven by constructions made by Karl Benz, Gottlieb Daimler and Wilhelm Maybach. The first industrially produced cars were made at the end of the 18th century: the Benz-Patent-Motorwagen (1886), Benz Viktoria (1893), Benz Comfortable (1898) and the Daimler Riemenwagen (1894).

The world's first streamlined automobile series, the Steyr-100, was developed in Austria in 1934. Shortly afterwards, in March 1936, the Steyr-50 rolled off the production line, the first model ever to have been designed according to the principles of aerodynamics.

Austria has also been a long-term location for the automotive components industry. The first electronic starter, which replaced the manual starter crank, was developed by Bosch in 1913.

Before the Second World War, Austria possessed a flourishing and extremely innovative automotive industry. After the war automobile manufacturing gave way to the manufacture of automotive component parts. However, since 1990 cars have been manufactured in Austria once more: Magna Steyr assembles around 250,000 cars of various models each year at their production facilities south of Graz. Lorries, buses, off-road and special vehicles as well as tractors are all manufactured in Austria.



Ferdinand Porsche, also known for his design of the legendary VW Beetle, produced "his first Porsche" in Austria: The Porsche 356 was built in 1948 in Gmünd, Carinthia.



Leading Automotive Manufacturers and the Business Location Austria

Automotive technology made in Austria is on the road worldwide

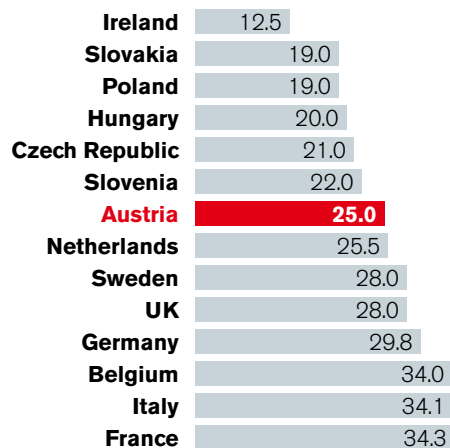
Austria offers investors an abundance of advantages which other countries envy. First amongst them is the low corporate tax rate, social stability, security, high levels of education, the creativity and flexibility of the skilled workforce, the recognized quality of our manufacturing and service industries and the central location in the heart of the extended European Union.

General Motors Powertrain

Approximately every second Opel worldwide is driven by a transmission made in Vienna-Aspern, and every third Opel is powered by an engine from the Vienna facility. Since its founding in 1982, General Motors Powertrain Austria has invested a total of 2.1 billion euros in the engine and transmission plant in Vienna-Aspern. In 2007, the 2,100 employees of General Motors Powertrain Austria produced 1,117,000 transmissions and 460,000 three-cylinder and four-cylinder engines. The Vienna-based plant is considered to be exemplary in terms of quality and productivity, also outside of the company. The transmissions are primarily designed for use by GM and Fiat. → www.gm-powertrain.at

Corporate Income Tax Rates*) 2008

Maximum taxation on profits, in percent



Source: KPMG



“As one of the world's leading companies active in the design and assembly of modern automotive components, every location decision we make is of international importance. Austria offers us many advantages, both economically and politically.”

BMW Motoren

BMW Motoren GmbH in Steyr is the BMW Group's third largest engine production facility, and its diesel competence center. BMW Motoren manufactures more than 700,000 gas and diesel-driven engines annually. Two out of every three BMWs driven worldwide are powered by an engine manufactured in Austria. BMW Steyr was responsible for developing digital diesel electronics, a fully electronic diesel injection control system which has emerged as the standard system used in every modern diesel motor.

→ www.bmw-werk-steyr.at

Magna Steyr

Magna International and its group of subsidiaries Magna Steyr is one of the most important vehicle developers and automobile producers in Austria. The group develops and produces customized vehicles and tank systems subcontracted by its customers. Austria's largest company in the automotive component supplier industry employs a workforce of about 7,400 people in Austria, assembling a total of more than 200,000 vehicles, including the following models: BMW X3, Saab 9-3 Cabriolet, Mercedes-Benz G-Class, Jeep Grand Cherokee, Jeep Commander, Chrysler Voyager and Chrysler 300C. Recently, Magna Steyr was contracted by BMW to assemble its new sport utility vehicle on the basis of the Mini starting in the year 2010. In addition, Aston Martin announced a strategic partnership with Magna Steyr focusing on the production of the Aston Martin Rapide starting at the end of 2009.

→ www.magna.at

MAN Nutzfahrzeuge

MAN is responsible for the well-established commercial vehicle production in Austria. In Austria, MAN develops and assembles trucks at two locations, within the framework of the international MAN network. Annual production of chassis frames at the two Austrian plants amounted to 27,000 units in 2007, which represents a third of MAN's total global production. The factory in Steyr (Upper Austria) serves as the competence and developmental center for light and medium-sized models, whereas MAN Sonderfahrzeuge in Vienna produces heavy duty trucks. The export ratio is 95 percent. The company continues to expand its manufacturing operations. MAN is currently building the world's largest truck and bus sales and distribution center in Lower Austria.

→ www.man-mn.at



Innovations from an Expanding Component Suppliers Industry

Austria: your local high-tech supplier



Austria's suppliers of automotive components are on the fast track: with a total turnover of 12 million euros and an export quota of over 90 percent, more parts are sent abroad than vehicles are imported. Austria's automobile and automotive component supplier industry already accounts for more than 10 percent of the country's total output of physical goods.

More than 300 dedicated suppliers, and as many companies again who count the automobile industry amongst their customers, supply components for the automobile industry.

The "big players" here are voestalpine motion, the new Automotive Division of the steel group voestalpine, the MIBA AG with its focus in the sinter, slide bearing and friction lining fields, and AVL-List. Eybl International is also a specialist for seating upholstery.

Magna International

Magna International is represented in Austria not only by Magna Steyr but also its subsidiaries Magna Powertrain (transmission, engine and 4-wheel systems), Magna Donnelly (mirrors and mirror systems, electronics), Cosma (pressed metal parts and carriage systems), Interiors (interior trim) and Exteriors (exterior plastics). Magna has a total workforce of 14,600 in Austria spread over 21 locations. Almost all the world's best known automotive manufacturers are supplied by Magna. → www.magna.at



Intier Automotive Eybl

Intier Automotive Eybl, a textile manufacturing subsidiary of the Magna group, produces up to 5 million square metres of carpets for car interiors in Ebergassing each year, enough to fit out 1 million vehicles. Carpets, however, only make up a quarter of their turnover – the other 75 percent is accounted for by interior trim for estate cars or door coverings for passenger vehicles. 40,000 finished pieces leave the factory each day, 98 percent of which are destined for export. Chief customers are BMW and Daimler, others include Ford, VW/Audi and Saab. → www.magna.at

Eybl International

Eybl International, based in Lower Austria, focuses on the design and production of upholstered interiors for vehicles. Each year Eybl fits out over 2.5 million vehicles. Almost everything made from material or leather in a car's interior is made by Eybl: this includes not only seats but head supports, door and side linings, rear shelves, boot coverings, sliding roofs, roof linings and steering wheel covers. Eybl's customers are almost all well-known automotive manufacturers: Daimler, BMW, VW/Audi, Opel, Nissan, General Motors and Skoda as well as customers in the automotive component suppliers industry, such as Magna. → www.eybl-international.com

Infineon Technologies

Infineon Technologies Austria AG develops and produces power semiconductors and systems solutions in the field of automobile and industrial electronics, multimarket and communications solutions. 90 percent of the total output coming off the assembly lines of the Villach facility, which manufactures about 1,100 Infineon products, is designed for the automobile and industrial electronics segments. About 22 billion chips are produced at the plant each year. The reliability and quality control systems for automobile chips are also located in Villach. The product development and R&D activities in Austria focus on motor management, network security applications, bodywork and comfort electronics. 25 Infineon microchips are generally built into each new motor vehicle.

→ www.infineon.com/austria



“Our customers worldwide value the excellent quality of Austrian products. The enormous creative potential and innovative ideas which stem from Austria's workforce help to secure Intier's competitiveness in the marketplace.”



Automotive manufacturing sites surrounding Austria

Audi

Gyor	H
Ingolstadt	D
Neckarsulm	D

BMW

Munich	D
Regensburg	DD
Landshut	DD
Dingolfing	DD
Leipzig	DA
Graz	A

Daimler

Sindelfingen	D
Untertürkheim (Stuttgart)	DD
Ulm	DD
Ratstatt	DD
Ludwigsfelde	DD
Bremen	DD
Osnabrück	DD
Düsseldorf	DD
Hambach	DF
Graz	DA

Fiat, Alfa, Lancia

Torino	I
Verona	I
Milan	I
Maranello	I
Modena	I
Suzzara	I
Mirafiori	I
Chivasso	I
Sant Giorgio Canavese	I
Tychy	PL
Bielsko-Biala	PL
Esztergom	H
Valenciennes	F

Fiat-GM Powertrain

Bochum	D
Szentgotthard	HI
Torino	I
Tichy	PL

Ford

Cologne	D
Saarlouis	DI
Bairo Canavese	IB
Genk	IB
Gent	IB

GM

Rüsselsheim	D
Kaiserslautern	DD
Eisenach	DD
Bochum	DD
Graz	DA
Esztergom	HA
Gliwice	PL
Antwerp	B

Hyundai

Zilina	SK
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Lamborghini

Bologna	I
Modena	I

Mitsubishi

Bairo Canavese	I
Born	NL

Porsche

Zuffenhausen	D
Leipzig	D

PSA Peugeot Citroën

Sochaux	F
Mulhouse (Alsace)	F
Valenciennes	F
Kolin	CZ
Trnava	SK

Renault, Nissan

Douai	F
Flins	F
Sandouville	F
Villeurbanne	F
Batilly	F
Maubeuge	F
Novo Mesto	SLO

Skoda

Mlada Boleslav	CZ
Vrchlabi	CZ
Kvafiny	CZ

Smart

Hambach	F
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Suzuki

Esztergom	H
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Toyota

Kolin	CZ
Valenciennes-Onnaing	F

VW

Wolfsburg	D
Hanover	D
Salzgitter	D
Kassel	D
Braunschweig	D
Dresden	D
Mosel	D
Ingolstadt	D
Neckarsulm	D
Ludwigsfelde	D
Emden	DD
Rheine	DD
Bratislava	SK
Mlada Boleslav	CZ
Kvasiny	CZ
Vrchlabi	CZ
Gyor	H
Poznan	PL
Sarajevo	BiH
Sant' Agata	I
Dorlisheim	F
Brussels	B

Zastava

Kragujewac	SRB
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Austria Alu-Guss (AAG)/Borbet

AAG designs and manufactures light metal wheels, from the initial design, construction and right on through to the finished coated wheel. Austria Alu-Guss has made an international reputation for itself by its short development times and by continual technical innovations such as its weight optimised, lightweight construction cast wheels. AAG supplies up to 3 million wheels to the European automotive manufacturing industry each year. Customers include well-known automotive manufacturers such as BMW, General Motors Europe, Daimler and VW/Audi. AAG is a subsidiary of the German Borbet group of companies. → www.aluguss.com

Johnson Controls Automotive Systems Group

The American company Johnson Controls Automotive Systems Group fits out more than 1,000 vehicles per day with complete seating. Interior roof linings, cockpits and door inner linings are also produced and delivered just-in-time to Magna Steyr and Daimler. 40,000 pieces of foam material are produced in Salzburg every day. → www.johnsoncontrols.at

Bosch

The German company Robert Bosch AG, the world's largest automotive components supplier, bundles its know-how and production of diesel injection systems in Austria (Vienna, Linz, Hallein). Bosch is continually expanding its research and development activities in Austria. "Austria is the country with the most extensive professional competence for diesel systems", according to Bosch. In Hallein, Bosch manufactures injection systems for large diesel engines. In the last three years, Bosch has invested about 60 million euros in its Hallein facility, creating 500 new jobs. Bosch concluded a joint venture with Mahle in 2008 to produce turbochargers in the province of Carinthia.

→ www.bosch.at

TCG Unitech

The TCG Unitech Group, with 3 factories in Austria, is known worldwide as an innovative development partner and supplier to the automotive, computer, communications and electronics industries. The group produces oil and water pumps in Austria, such as the oil pump for the Audi 4-cylinder world engine, as well as airbag containers and roll-up axles for seat belts. General Motors, VW/Audi and Porsche are amongst its customers. TCG Unitech can boast a whole series of patents and a range of new products.

"The selection of location is particularly important for just-in-time production. We are very pleased to have found an optimal solution with our choice of Graz, the capital of the Austrian automotive industry."



“The positive research environment expressed in the numerous levels of cooperation between universities and polytechnics creates a great location advantage for Infineon. The role Austria plays as a bridge builder to the South Eastern European countries provides an important perspective for this internationally active company.”

Miba Sintermetall AG

The Miba Group operates worldwide, and encompasses four strategic business areas: sintered shell molds, slide bearings for heavy duty diesel engines, and friction bearings for clutches, brakes and axles. High Tech Coatings (HTC), a Miba subsidiary, commenced operations at its second production plant in Austria. Leading global automotive manufacturers such as AVL List, MAN, Mercedes Benz, Mitsubishi, Daewoo and Hyundai use slide bearings produced by Miba. The company ranks among the three largest producers of ball bearing housings in the world. → www.miba.com

Georg Fischer Automotive

The Swiss company Georg Fischer, which employs a workforce of more than 1,750 people in Austria, is Europe’s largest foundry group, supplying customers such as Daimler and BMW with magnesium, iron and aluminum cast components. The spectrum of components encompasses power train, chassis and body. The Group operates three plants in Austria: Altenmarkt, Gleisdorf and Herzogenburg. Cast components made of iron and light alloys are manufactured in Austria for passenger cars and commercial vehicles. → www.georgfischer.com

Delphi Packard Austria

The General Motors subsidiary Delphi Automotive Systems is the world’s largest supplier of automotive components, systems and modules. Delphi Packard Austria specializes in the manufacture of cable looms and supplies the European automotive industry. Its other business fields include plastic parts for vehicle electrics and electronics. The Austrian subsidiary acts as an interface between Eastern and Western Europe: the network incorporates 3 manufacturing facilities (Großpetersdorf, Szombathly and Sinnicolau Mare) with Delphi Packard Austria functioning as the center for engineering, management and logistics.

→ www.delphi.com



Hirschmann

Hirschmann Austria is a leading producer of automotive plug-in connectors for large automotive manufacturers such as BMW, Daimler, Fiat, Mazda, Porsche, Toyota, VW/Audi, Renault or Rover. The company supplies a series of components and micro-gas generators for the restraint systems of the Mercedes M-Class. Intelligent products such as cabling in the axle region for ABS sensors etc., axle cabling, parking distance control system cabling, keyfree unlocking systems and various plug-in connectors as well as new sheeting technology in roof linings also originate from Hirschmann Austria.

→ www.hirschmann.at

Mahle

The Mahle Group supplies the most well-known producers of internal combustion engines with the following parts and systems: piston and engine components (Rankweil), filter systems (St.Michael) and valve systems (Vöcklabruck). Mahle is expanding its competence center for mechatronics and plastic technologies in Austria for which it intends to invest about 37 million euros over the next ten years. In addition, Bosch and Mahle Filter Systems will produce turbochargers within the context of a joint venture. Total investments in the project will amount to 300 million euros. → www.mahle.com

Salzburger Aluminium AG

The Salzburger Aluminium AG (SAG), with more than 600 employees at 5 locations within Austria, is an internationally active producer of aluminium components for the automotive, commercial and railed vehicle industries and of aluminium materials for large scale industry via its subsidiaries throughout Europe. SAG's well-known customers in Germany, Scandinavia and France include Daimler, VW/Audi, BMW, MAN, Volvo, Scania and Johnson Controls.

→ www.sag.at

Wollsdorf Leder

Wollsdorf Leder is the world's largest manufacturer of leather steering wheel covers, and a recognized specialist for complete interior outfitting. Every day, the company produces leather steering wheel covers for about 16,000 automobiles, and upholstery leather for 400 cars. It processes 2200 cow hides daily, 60 percent of which comes from European herds. The product portfolio also encompasses instrument panels, door trim parts, headrests, armrests and other paneling. The export ratio is 90 percent, with the company's products exported to 30 countries. Porsche, Mercedes, BMW, VW/Audi, Toyota and Jaguar are among the top customers of Wollsdorf Leder. → www.wollsdorf-leder.com

Gear boxes, engines

BMW Motoren	Petrol & diesel engines
Burgholzer Antriebstechnik	Clutches, spring washers
Collini-Skolnik	Power steering
Delphi Automotive Systems Vienna	Injection and exhaust feedback valves, petrol pumps
Electrovac	Temperature regulators, special electrotechnical articles
Exide Batteriewerk	Vehicle batteries
Friedrich Rothmund	Engine, brake and exhaust parts
Nemak	Cylinder heads and engine blocks from aluminium casting
Magna Steyr	Engine components, four wheel drive & undercarriage techniques, electronics
Mahle	Combustion engines
Infineon	Chips: e.g. for airbags & ABS
Kumera	Gears, gear boxes, drive sections
Robert Bosch	Diesel injection systems
Sei Woo Hi-Tech Polymer	Gaskets, spark plug connectors
SynchroTech Antriebstechnik	Gear boxes, bearings, gears
TCGUnitech	Oil pumps

Auto bodies

AMAG automotive	Aluminium sheeting, string press products
Collini	Surface techniques, cataphoretic painting & powder coating, plating techniques, galvanising
DuPont	Varnish
Reutters Fabrik für Auto	Tank caps
Voestalpine	Band steel, sheets
Voestalpine motion	Auto bodies & parts
Vogel & Noot	Punch & compression parts

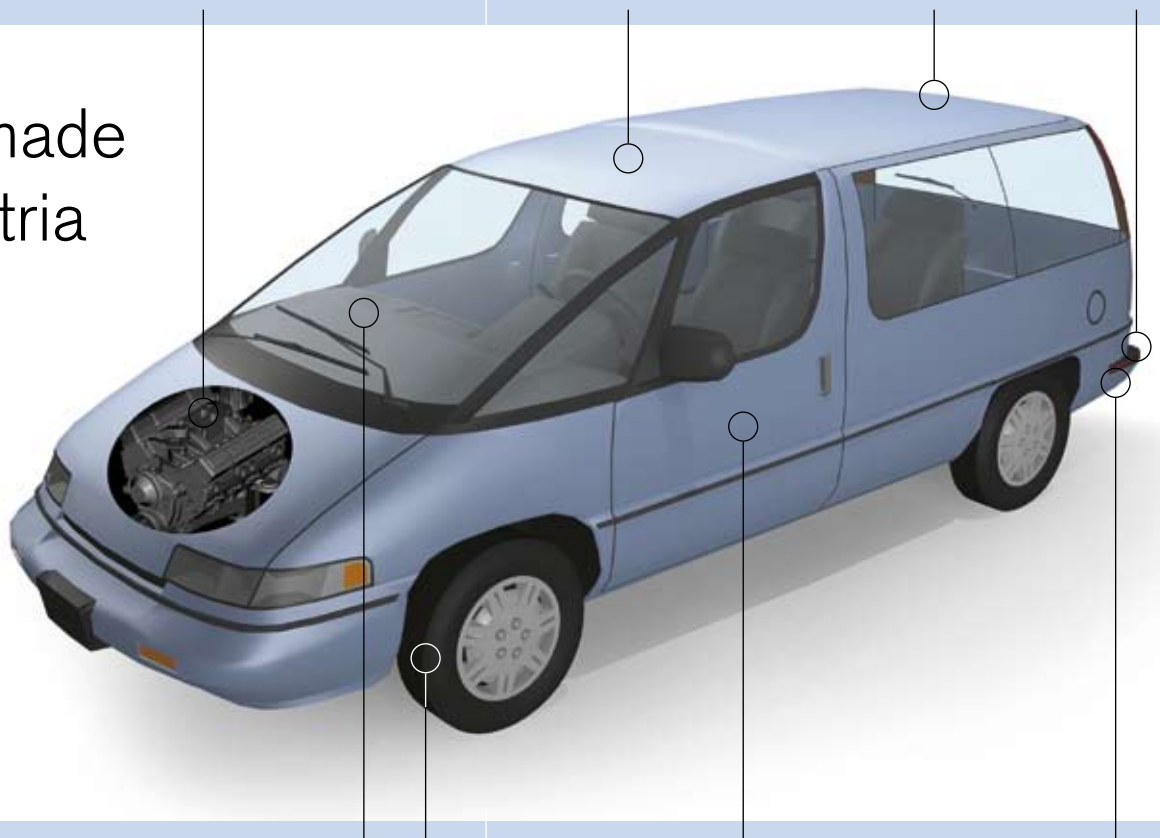
Antennae, Cables, Tubing

Heiru A. & R. Heinz	Antennae accessories
Kathrein Austria	Antennae
Delphi Packard Austria	Auto-cable leads, plastic components
Gebauer & Grillner Kabelwerke	Cables, wiring, battery cable leads
A. Haberkorn	Tubing, belting, ropes

Bumpers

Rehau	Bumpers & gasket systems
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Cars made in Austria



Interiors

Aigner	Vacuum and filter systems
AKG Acoustics	Microphones, headphones
Boxmark Leather	Leather components
Durmont Teppichbodenfabrik	Carpeting for floors
Eybl International	Door panelling, rear parcel shelf, seat covers
Fasching Salzburg	Seat belts
Greiner Perfoam	Plastics
Intier Automotive Eybl	Interior carpeting
iSi Automotive	Airbag components
Johnson Controls Austria	Automotive interiors
Lear Corporation Austria	Car seats
Magna Steyr	Interior linings
Polytec	Interior linings

Doors

Freudenberg Austria	Gaskets, shell moulds
Magna Steyr	Mirrors, doors
Siemens VDO Automotive	Window-lift motors, door control equipment, heating systems
Pollmann	Hinges for sliding roofs

Gears, brakes

A. Pieringer	Axles, brakes, vehicle parts
AL-KO Kober	Brake units, winding units
Alutech	Compressed-air store for braking systems & air suspension
Austria Alu-Guss	Alloy rims
Brake Retarder	Braking systems
Hirschmann	Plug-in connectors
Johann Klinger	Springs, metal goods, bent tubing
Miba Sinter	Friction pads
Salzburger Aluminium AG	Aluminium components
Styria Federn	Sheet springs such as multi-leaf or parabolic springsbelfedern

Motor vehicle lighting

Aspöck Systems, Zizala Lichtsysteme	Lighting systems, headlights, number plate, interior and control center lights
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Exhausts, catalytic converters

Sebring/Remus	Exhaust systems, catalytic converters, mufflers
Roth-Technik	Exhaust pipe



Superb Infrastructure

10 = Very efficient maintenance and development of infrastructure

Singapore	1	9.35
Switzerland	2	8.68
Austria	3	8.33
Hong Kong	4	7.96
Germany	9	7.26
USA	15	6.46
Netherlands	17	6.28
Canada	24	5.56
Great Britain	39	4.27
Italy	46	3.32

Source: World Competitiveness Yearbook, 2007

Logistics Infrastructure

For Goods and Services;
10 = Very efficient

Singapore	1	9.35
Denmark	2	9.12
Switzerland	3	9.00
Austria	4	8.86
Germany	5	8.77
USA	7	8.35
France	12	7.96
Czech Republic	23	7.07
Great Britain	35	6.35
Russia	43	4.96

Source: World Competitiveness Yearbook, 2007

The Successful Cluster Model

Austria will also be running at full speed in the future
Austria's highly specialized companies are valuable
suppliers of know-how



The cluster model – close cooperation between manufacturing bases and research institutes in the development of new products etc. – is particularly successful in the automotive industry. It is copied on the model of American high-tech centers and enables Austrian automotive component suppliers to compete effectively or be a step ahead of their competitors, working not only just-in-time but also just-in-sequence in this fast-paced market.

ACstyria.

The 180 partner companies in ACstyria, with a combined workforce of 46,000, organise platforms and co-operative projects amongst themselves.

→ www.acstyria.com

The automotive cluster.

The automotive cluster in Upper Austria is the largest of the automotive co-operatives, with more than 265 partner companies and a total workforce of 88,000. → www.automobil-cluster.at

The Automotive Cluster Vienna Region (ACVR).

The Automotive Cluster Vienna Region (ACVR) with its 140 partner companies it chiefly focused on cross-border co-operation with the new EU members Hungary, the Czech Republic and Slovakia. The Autocluster Centrepe (AC Centrepe) enhances the integration of the regions.

→ www.acvr.at → www.accentrope.com

Effective networks. The Austrian Automotive Association (AAA), Austria's umbrella organization, is the service organization for each of the 3 Austrian automotive clusters – ACstyria, AC Vienna Region and AC Upper Austria. The 3 clusters encompassing 600 companies including Magna Steyr and AVL, form a competent and effective network. → www.aaa.co.at

Cluster Drive Technology (CDT).

Cluster Drive Technology (CDT) is a network spanning industrial guidance systems and their suppliers in the fields of engine manufacture, components and production facilities and has a particular focus on alternative engine technologies. → www.cdt.at



Cluster and competence centers:

AC²T – Austrian Center of Competence for Tribology → www.ac2t.at
 ACC Acoustic Competence Center → www.accgraz.com
 Competence Center for Automobile and Industrial Electronics (AI), Villach → www.k-ai.at
 Competence Center for Combustion Engines of the Future c/o AVL List
 CTR – Carinthian Tech Research → www.ctr.at
 IMCC – Competence Center for Industrial Mathematics → www.indmath.uni-linz.ac.at
 LCM – Linz Center of Competence in Mechatronics → www.lcm.at
 LEC – Large Engines Competence Center (ind) → www.lec.at
 Vehicle Concepts of the Future (net) → www.k-net-kfz-vkm.com
 Virtual Vehicle Competence Center (vif) → www.v2c2.at
 VRVis – Center for Virtual Reality and Visualisation → www.vrvis.at

Research keeps the wheels turning. The extensive interweaving of research and industry is a key advantage of Austria as a business location. A total of 2,800 research stations – including university institutes – work closely with industry, especially in the key fields of IT, automotives, materials research and electronics.

AVL List

AVL is the world's largest private company involved in the development of combustion engines and complete drive systems with combustion engines, measurement and test engineering and software systems. One of AVL's research foci is alternative diesel combustion although the company is also now equally intensively involved with petrol driven engines. AVL is currently researching into alternative combustion processes which are able to reduce emissions of nitrogen and particles by 90 percent (market launch 2010).

→ www.avl.com

Magna Steyr

For Magna, Austria is a strategic location for research and technological development. Magna Steyr Graz is the company's largest development center in the world. With around 1,200 highly qualified R&D technicians and engineers, Magna Steyr is also one of the largest engineering service providers for the whole automotive component suppliers industry worldwide. The strong engineering focus, extending from basic research and pre-development right through to the development of complete vehicles ready for mass production, has proved its worth, especially in the growing field of niche vehicles and limited edition models such as 4-wheel drives, SUVs or cabriolets. → www.magna.at



“As a business location, Austria offers a large source of well-qualified employees in all fields, from skilled workers to academics, all of whom are flexible and able to improvise.”



“A high standard of R&D, a very motivated and extremely welltrained pool of engineers from technical universities with excellent international reputations, and an active industrial policy – Austria is a very important business location for austriamicrosystems.”

austriamicrosystems AG

austriamicrosystems designs and manufactures high-density integrated analogue circuitry. Their comprehensive experience in low electricity consumption and high precision is demonstrated in innovative, customised and standard analogue ICs. Theoretically, half of all the 60 million cars manufactured annually worldwide incorporate a microchip from austriamicrosystems. Microchips made in Austria’s Steiermark are found in remote control access systems, sensor interfaces for driving safety and comfort systems, and also in safety critical applications such as X-by-Wire systems and time-triggered bus systems. AMS has its headquarters in Unterpremstätten in Styria.

→ www.austriamicrosystems.com

Austrian Research Centers

Austrian Research Centers, with around 500 employees and comprising a total of 7 members including ARC Seibersdorf Research GmbH and arsenal research, is Austria’s largest research establishment. It works for the automotive industry in the following fields: development and testing aluminium components, powder metallurgical processes, factory organization, traffic telematics, computational fluid dynamics, sensory systems for online monitoring, plastic materials for exterior vehicle parts and energy supplies for electric and hybrid vehicles.

→ www.arcs.ac.at

Joanneum Reserach

With more than 360 employees the research company Joanneum Research is the largest independent R&D company in Austria. Research in the automotive sector spans a range of research activities from applications in acoustics and noise research through to the development of new processes in recycling the foam plastics which are used in the automotive industry. An important field is the application of laser technologies, for example laser welding of safety components or of gearbox and engine elements. The Joanneum polytechnic offers a course in vehicle technology and automotive engineering.

→ www.joanneum.at

The Vienna University of Technology

The Institute for Combustion Engines and Automobile Construction works on optimizing combustion processes for gas and diesel driven engines, injection and exhaust emission systems (i.e. catalytic converters, particle filters and regeneration strategies), alternative propulsion systems and fuels to secure future mobility, focusing on the aspect of sustainability as well as new measuring methods for engines and automobiles. An important focus of the university’s overall activities in the automotive sector is the prevention of dangerous gaseous emissions and noise. → www.tuwien.ac.at

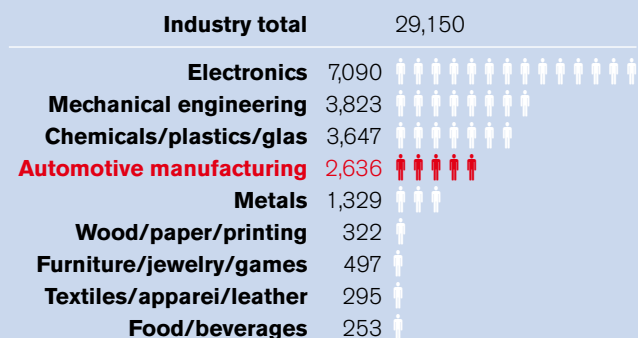


The Graz University of Technology

The Graz University of Technology has established its own research focus “vehicle technology, vehicle drives and safety” in which fifteen institutes are currently involved. The spectrum of their research spans from vehicle dynamics through to combustion process development and emissions research. The competence centers – the “Virtual vehicle” (VIF), the “Center of Competence in Acoustics” (ACC) and 3 Christian Doppler Institutes, all located at the university, work hand in hand with partners from industry and commerce. The Graz University of Technology is a partner in the competence network “internal combustion engines of the future” and in the Hydrogen Center Austria (HyCentA), Austria’s first hydrogen research center. → www.tugraz.at

Industry R&D employee numbers

By sectors, 2004



Source: Statistik Austria

Industry expenditure on R&D by sector

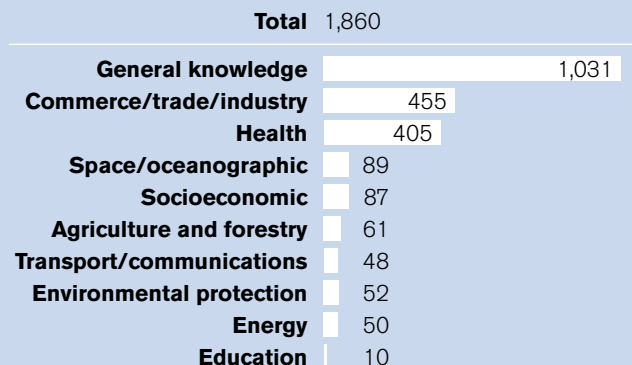
In millions of euros, 2004



Source: Statistik Austria

Public spending on R&D

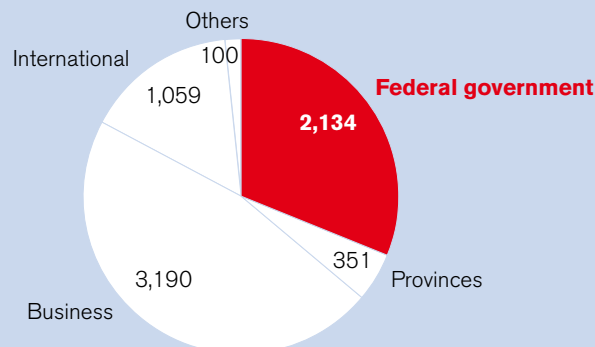
According to socio-economic goals in millions of euros, 2007



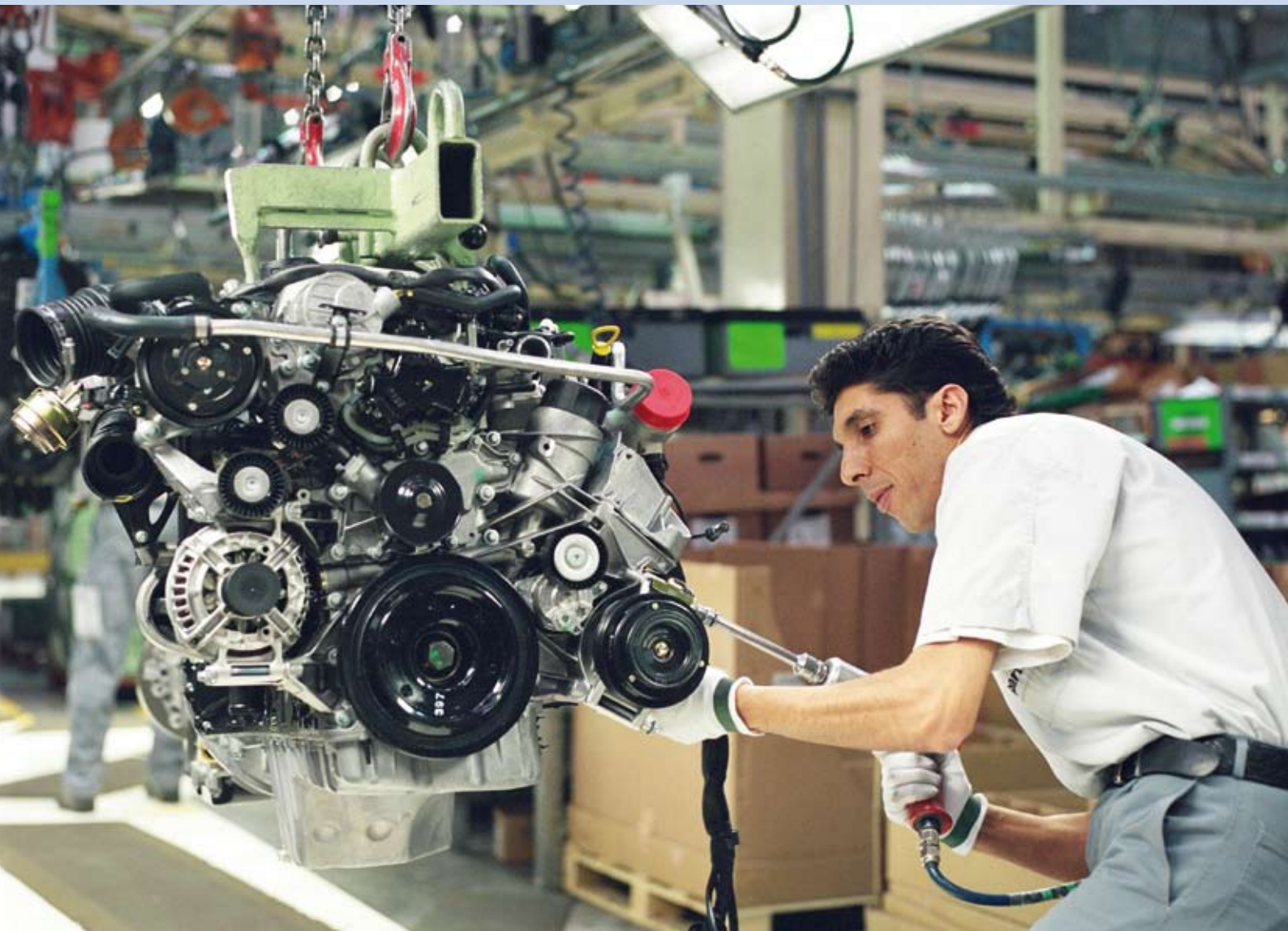
Source: Statistik Austria

Investment in R&D

Gross domestic expenditures for R&D in millions of euros, 2007 (global estimation). Total: 6,834



Source: Statistik Austria



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