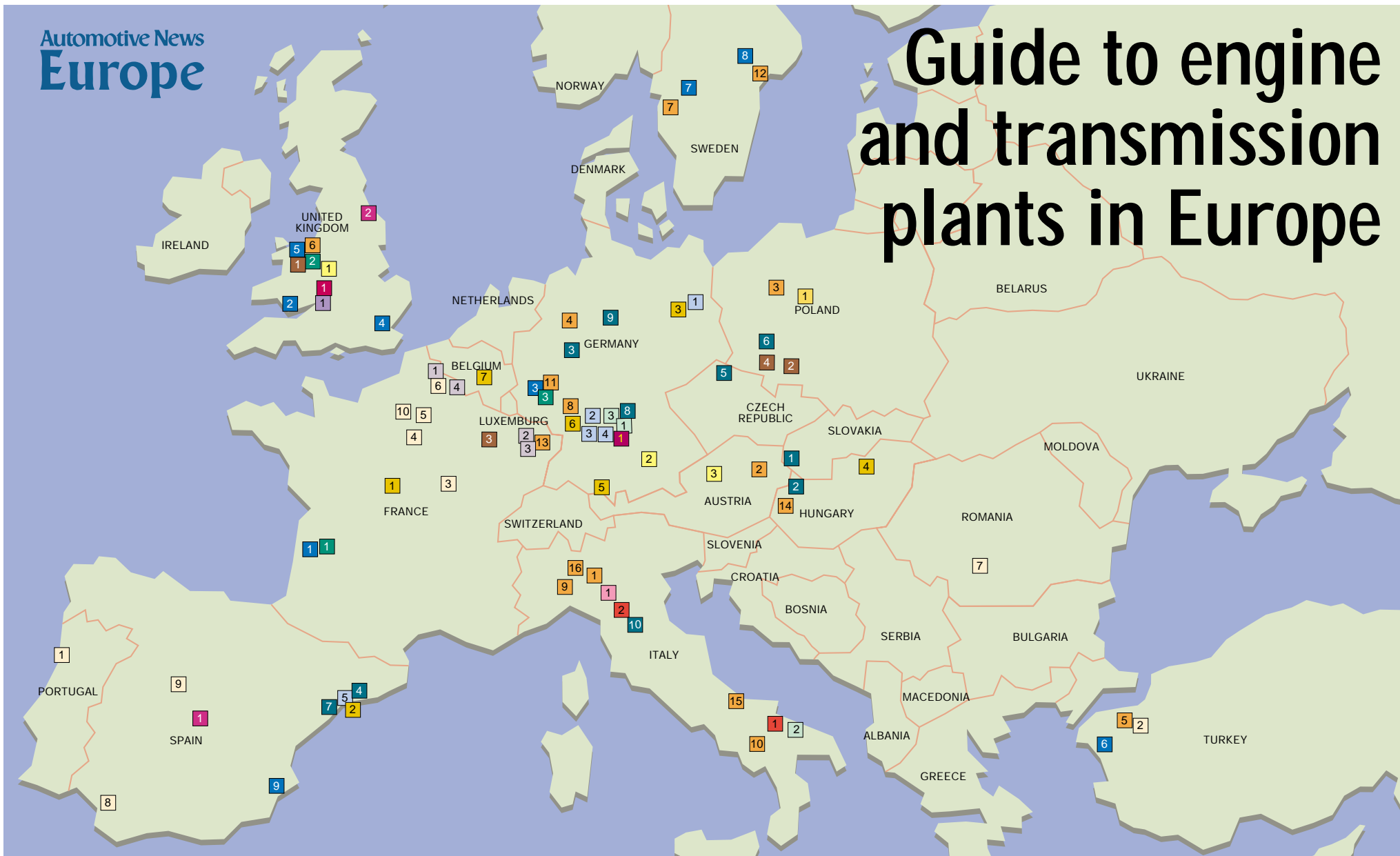


Guide to engine and transmission plants in Europe



Key to map

BMW GROUP

- 1 **Hams Hall, England** – (engine) – 1.6-liter 4-cylinder gasoline engines, 1.8 4-cylinder gasoline engines, 2.0-liter 4-cylinder gasoline engines
- 2 **Munich, Germany** – (engine) – 6-, 8- and 12-cylinder gasoline engines, high-performance engines for BMW cars, 8-cylinder diesel engines, 12-cylinder diesel engines
- 3 **Steyr, Austria** – (engine) – 4- and 6-cylinder diesel and 6-cylinder gasoline engines

DAIMLERCHRYSLER

- 1 **Berlin-Mariefelde, Germany** – (engine) – 12-cylinder gasoline engines, 8-cylinder diesel engines, Smart gasoline and diesel engines, remanufactured engines, small and special edition engines
- 2 **Mannheim, Germany** – (engine) – Commercial vehicle engines
- 3 **Rastatt, Germany** – Gaggenue Plant – (transmission) – Passenger cars transmissions (Mercedes-Benz A class)
- 4 **Stuttgart Untertürkheim, Germany** – (engine) – Mercedes-Benz engines
Stuttgart Untertürkheim, Germany – (transmission) – Mercedes-Benz transmissions
- 5 **Barcelona, Spain** – (transmission) – Mercedes-Benz V class, Vito and Viano

FIAT GROUP

- 1 **Foggia, Italy** – (engine) – engines for Fiat
- 2 **Maranello, Italy** – (engine) – engines for Ferrari and Maserati

FIAT-GM POWERTRAIN

- 1 **Arese, Italy** – (engine) – 2.5-, 3.0- and 3.2-liter V-6 gasoline engines for Alfa Romeo 156, 166, GTV, Spider, GT and Lancia Thesis
- 2 **Aspern, Austria** – (engine) – Fam 0 engine: 3- and 4-cylinder, 1.0-, 1.2- and 1.4-liter gasoline engines for Opel/Vauxhall
Aspern, Austria – (transmission) – F17 manual MTA 5-speed transmissions; M20/32 manual 6-speed transmissions
- 3 **Bielsko, Poland** – (engine) – SDE 1.3-liter common-rail diesel engines for Fiat, Lancia, Opel-Vauxhall mini and supermini cars
- 4 **Bochum, Germany** – (engine) – Fam 1: 1.4-, 1.6-, 1.8-liter 4-cylinder gasoline ECOTEC engines for Opel/Vauxhall cars
Bochum, Germany – (transmission) – F13 manual MTA transmissions
- 5 **Bursa, Turkey** – (transmission) – C514 5-speed manual transmissions
- 6 **Ellesmere Port, England** – (engine) – 3.0-liter V-6 gasoline engines L81 (Saturn L series), 3.2-liter V-6 gasoline engines LA3 (Cadillac CTS, Opel/Vauxhall Vectra, Saab 9-5)
- 7 **Gothenburg, Sweden** – (transmission) – 5-speed manual transmissions (F25/F35)
- 8 **Kaiserlautern, Germany** – (Plants 1 and 2) – (engine) – L850: 2.2 normal asp/2.0-liter 1-4 supercharged gasoline engines (Saturn Ion Red Line), 2.2-liter 1-4 gasoline engines (Chevrolet

Cavalier, Malibu and Malibu Classic; Oldsmobile Alero; Pontiac Grand Am and Sunfire; Saturn L series, Ion and Vue); Opel/Vauxhall models; Saab models Fam 2: 2.0- and 2.2-liter Direct Injection Diesel engines for Opel/Vauxhall and Saab

- 9 **Mirafiori, Italy** – (engine) – 1.6-liter gasoline torque engines for Fiat and Lancia
Mirafiori, Italy – (transmission) – C514: 5- and 6-speed manual transmissions; 5-speed MTA
- 10 **Pratola Serra, Italy** – (engine) – Fam B/Fam C 4- and 5-cylinder: 1.6-, 1.8-, 2.0- and 2.4-liter gasoline engines; 1.9- and 2.4-liter diesel engines for Alfa Romeo, Fiat and Lancia
- 11 **Rüsselsheim, Germany** – (transmission) – F40 6-speed manual transmissions
- 12 **Södertälje, Sweden** – (engine) – Fam 3: 2.0- and 2.3-liter 4-cylinder gasoline engines (Saab), L850: 2.0 turbocharged gasoline engines (Saab)
- 13 **Strasbourg, France** – (transmission) – 4L30E, 4/5L40F automatic transmissions
- 14 **Szentgotthard, Hungary** – (engine) – Fam 1: 1.4-, 1.6- and 1.8-liter 4-cylinder gasoline ECOTEC engines for Opel/Vauxhall cars
Szentgotthard, Hungary – (transmission) – CVT (VT 20) and Allison transmissions
- 15 **Termoli, Italy** – (engine) – 1.1-, 1.2- and 1.4-liter FIRE gasoline engines for Fiat Punto, Seicento, new Panda, Idea, Stilo, Doblo and Lancia Ypsilon
Termoli, Italy – (transmission) – C510 5-speed manual and MTA transmissions; C513 5-speed manual transmissions
- 16 **Verrone, Italy** – (transmission) – C530: 5- and 6-speed manual/MTA transmissions

FORD MOTOR CO.

- 1 **Blanquefort, France** – (Bordeaux Automatic Transmission plant) – (transmission) – A4LD RWD hydraulic automatic transmissions (Ford Transit), A4LD-E RWD electronic automatic transmissions (Ford Ranger), 5R55E RWD electronic automatic transmissions (Ford Ranger), automatic transmission components (Lincoln LS and Jaguar)
- 2 **Bridgend, South Wales, England** – (engine) – 1.4-liter 4-cylinder gasoline Zetec engines, 1.6-liter 4-cylinder gasoline Zetec engines, 1.8-liter 4-cylinder gasoline Zetec engines (Ford Focus and Mondeo), 2.0-liter 4-cylinder gasoline Zetec engines (Ford Focus): 1.6-liter, 4-cylinder gasoline Zetec-SE engines (Ford Focus and Fiesta Sport); 3.2-liter V-8 gasoline engines (Jaguar XJ8), 4.0-liter V-8 gasoline engines (Jaguar XJ8, XK8 and S-Type)
- 3 **Cologne, Germany** – (engine) – 4.0-liter V-6 gasoline SOHC engines (Ford Aerostar, Explorer, Mondeo and Ranger)
Cologne, Germany – (transmission) – MTX-75 transmissions (Ford Countour, Escort, Focus and Mondeo; Jaguar X-type), VXT-75 transmissions (Ford Galaxy and Transit)
- 4 **Dagenham, Essex, England** – (engine) – 1.8-liter 4-cylinder diesel engines (Ford Escort, Fiesta and Focus); 2.0-liter 4-cylinder diesel

engines (Ford Mondeo); 2.4-liter 4-cylinder diesel, 2.5-liter 4-cylinder diesel engines (Ford Transit); 2.0-liter 4-cylinder gasoline DOHC engines (Ford Galaxy and Transit); 2.3-liter 4-cylinder DOHC engines (Ford Fiesta and Focus)

- 5 **Halewood, Liverpool, England** – (engine) – MT-75 transmissions (Ford Transit and LDV Year), IB5 Transaxles (Ford Escort, Fiesta and Ka)
- 6 **Inonu, Turkey** – (Otosan Engine – 41% Ford, 41% Koc Holding, 18% Public) – (engine) – 1.6-liter 4-cylinder gasoline Zetec engines (Ford Escort), 2.0-liter 4-cylinder gasoline OHC engines (Ford Transit), 6.0-liter 6-cylinder gasoline engines (Ford Cargo), 6.2-liter 6-cylinder gasoline engines (Ford Cargo), 2.5-liter 4-cylinder DI diesel engines (Ford Transit)
- 7 **Skövde, Sweden** – Volvo – (engine) – 4-, 5- and 6-cylinder inline engines
- 8 **Köping, Sweden** – Volvo – (transmission) – Gearboxes, rear axles, wheel units, spring struts, PTO units for AWD
- 9 **Valencia, Spain** – 1.8 and 2.2 Duratec gasoline engines

GETRAG

- 1 **Ludwigsburg, Germany** – (transmission) – Manual transmissions for BMW, DaimlerChrysler, Ford and Jaguar
- 2 **Mondugno (Bari), Italy** – (transmission) – Manual transmissions for Fiat, General Motors, MG Rover and Opel
- 3 **Neuenstein, Germany** – (transmission) – Manual transmissions for Audi, BMW, General Motors, Nissan, Porsche, Toyota and Volkswagen; automated manual transmissions for BMW and Smart; motorcycle transmissions for BMW and Harley Davidson

GETRAG FORD

- 1 **Blanquefort, France** – (Bordeaux plant) – (transmission) – Manual transmissions for Ford Fiesta, Focus, Ka and Puma
- 2 **Halewood, Liverpool, England** – (transmission) – Manual transmissions for Ford Fiesta, Focus, Ka and Transit
- 3 **Cologne, Germany** – (Cologne-Niehl plant) – (transmission) – Manual transmissions for Ford Escort, Focus, Galaxy, Mondeo and Transit; Jaguar X-type

HONDA

- 1 **Swindon, England** – (engine) – Gasoline engines for Honda Accord, Civic and CR-V

NISSAN

- 1 **Cuatro Vientos, Spain** – (engine)
- 2 **Sunderland, England** – (engine)

PORSCHE

- 1 **Zuffenhausen, Germany** – (engine)

PSA

- 1 **Douvrin, Haisnes, France** – (Française de Mecanique – PSA 50%, Renault 50%) – (engine) – Engines for Citroen, Peugeot and Renault
- 2 **Metz, France** – (transmission) – Mechanical transmissions for Citroen and Peugeot

- 3 **Tremery, Hagondange, France** – (engine) – 4-cylinder gasoline and diesel engines, including HDI diesel engines and 16-valve gasoline engines; HDI 1.4-liter diesel engines
- 4 **Valenciennes, France** – (transmission) – Automatic and manual transmissions for Citroen, Fiat and Peugeot

RENAULT

- 1 **Aveiro, Portugal** – (transmission) – JB and JR 5-speed manual transmissions (Clio, Kangoo, Laguna, Megane, Scenic, Twingo), NDO 6-speed manual transmissions (Megane), engine components
- 2 **Bursa, Turkey** – (engine) – 1.4-liter 4-cylinder gasoline K7J, K4J engines (Clio, Kangoo, Megane I and II); 1.6-liter 4-cylinder gasoline K4M engines (Clio, Kangoo, Laguna, Megane I and II, Scenic)
- 3 **Bursa, Turkey** – (transmission) – JB 5-speed manual transmissions (Clio, Kangoo, Megane, Scenic, Twingo)
- 4 **Choisey, France** – (engine) – Mahindra engines (4x4 based on Renault's 2.0-liter 4-cylinder gasoline engine F4R), remanufactured engines
- 5 **Cleon, France** – (engine) – 1.8-liter 4-cylinder gasoline engines F4P (Megane I and II, Laguna), 2.0-liter 4-cylinder gasoline engines F4R (Megane I and II, Scenic, Laguna), 1.9-liter 4-cylinder turbo diesel engines F9Q (Clio, Espace IV, Laguna, Master, Megane I and II, Scenic, Traffic), 2.2-liter diesel G9T engines (Avantime, Espace IV, Laguna, Master, Vel sats), 2.2-liter diesel engines G9U (Master)
- 6 **Douvrin, Haisnes, France** – (Française de Mecanique – PSA 50%, Renault 50%) – (engine) – Citroen, Peugeot and Renault engines
- 7 **Pitesti, Romania** – (Dacia) – (engine) – C3J engine, 1.4-liter 4-cylinder engines E7J, 1.9-liter 4-cylinder engines F8Q
- 8 **Sevilla, Spain** – (transmission) – JB 5-speed manual transmissions (Clio, Kangoo, Megane, Scenic, Twingo), JH automatic and manual transmissions
- 9 **Valladolid, Spain** – (engine) – 1.4-liter 4-cylinder gasoline K4 engines (Clio, Megane I and II, Scenic), 1.6-liter 4-cylinder gasoline K4M engines (Clio, Kangoo, Laguna, Megane I/II, Scenic), 1.5-liter 4-cylinder diesel K9K engine
- 10 **Viry-Chatillon, France** – (engine) – Formula 1 naturally aspirated 3.0-liter V-10 engines

TOYOTA

- 1 **Deeside, North Wales, England** – (engine) – 1.4-, 1.6- and 1.8-liter gasoline engines, 2.0-liter diesel engines for Toyota Avensis, Corolla
- 2 **Jelcz-Laskowice, Poland** – (engine) – 2.0-liter diesel engines to begin in 2005
- 3 **Valenciennes, France** – (engine) – 1.0- and 1.3-liter gasoline engines, 1.4-liter diesel engines (Toyota Yaris)

- 4 **Walbrzych, Poland** – (engine) – 1.0-liter gasoline engine to begin late 2004
Walbrzych, Poland – (transmission) – Manual transmissions

VOLKSWAGEN

- 1 **Bratislava, Slovak Republic** – (transmission) – Transmissions and transmission components
- 2 **Gyor, Hungary** – (engine)
- 3 **Kassel, Germany** – (transmission)
- 4 **Martorell, Spain** – (engine) – Engines for Seat
- 5 **Mlada Boleslav, Czech Republic** – (engine) – Engines for Skoda
Mlada Boleslav, Czech Republic – (transmission) – Transmissions for Skoda
- 6 **Polkowice, Poland** – (engine) – diesel engines
- 7 **Prat, Spain** – (transmission) – Transmissions for SEAT
- 8 **Sachsen, Germany** – (Chemnitz factory) – (engine) – 3- and 4-cylinder gasoline engines
- 9 **Salzgitter, Germany** – (engine) – Gasoline diesel engines
- 10 **Sant'Agata Bolognese, Italy** – (engine) – 5-liter V-10 gasoline engines for Lamborghini Fallardo, 6.2-liter V-12 gasoline engines for Lamborghini Murcielago, 8.2-liter V-12 gasoline engines for Lamborghini marine racing

ZF FRIEDRICHSHAFEN

- 1 **Andrezieux-Bouthéon, France** – (transmission) – Manual transmissions for commercial vehicles
- 2 **Barcelona, Spain** – (transmission) – Automatic transmissions for commercial vehicles
- 3 **Brandenburg, Germany** – (transmission) – Manual and automatic transmissions for passenger cars
- 4 **Eger, Hungary** – (transmission) – Manual transmissions for commercial vehicles
- 5 **Friedrichshafen, Germany** – (transmission) – Automatic and manual transmissions for commercial vehicles
- 6 **Saarbrücken, Germany** – (transmission) – Automatic transmissions for passenger cars
- 7 **Sint-Truiden, Belgium** – (transmission) – Automatic transmissions for passenger cars

ISUZU

- 1 **Polska, Poland** – GM and Isuzu joint venture – (engine) – 1.7-liter 4-cylinder direct injection diesel engines 4EE2-TC (Opel Astra and Corsa), 1.7-liter 4-cylinder DOHC diesel engines (Honda Civic)

LOMBARDINI S.R.L.

- 1 **Reggio Emilia, Italy** – (engine) – 15LD Series 1-cylinder air cooled diesel engines FOCS Series 2-, 3-, 4-cylinder liquid cooled diesel engines, FOCS Plus Series 2-, 3-, 4-cylinder liquid cooled diesel engines, LGA 280/340 series air cooled 1-cylinder gasoline engines, LGW Series liquid cooled 2-cylinder gasoline engines

POWERTRAIN LTD.*

- 1 **Longbridge, England** – (engine) – Gasoline and diesel engines for MG, Rover, Land Rover, Caterham, Lotus and others
Longbridge, England – (transmission) – PG transmissions, MG Rover and others
*Owned by Phoenix Venture Holdings
Source: Automotive News Data Center