

ZF-TRW - Global Headquarters

Chassis, transmission, driveline systems

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Fasteners and Components, Body Controls

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regions

Peter Holdmann, Executive Vice-President,

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Aftermarket businesses and the Program

Management and Engineering Excellence

functions

Products

Actuation, Airbags, All-Wheel Drive System,

Automatic Transmissions, Axle Drives,

Chassis Components, Chassis Systems,

Control Units, Damping Systems, Die

Casting Technology, Dual Clutch

Transmissions, Electric Drive Technology,

Electronic Switches, Foundation Brakes,

Manual Transmissions, Power Electronics,

Powertrain And Chassis Electronics,

Powertrain Modules, Safety Electronics, Seat

Belts, Sensors, Slip Control Boost, Steering

Systems, Suspension Technology

Country Coverage

Germany, China, United States, India, France,

Italy, Mexico, South Africa, Brazil, Czech

Republic, Australia, Austria, Hungary,

ZF Friedrichshafen is a global leader in driveline and chassis technology as well as active and passive safety technology. In 2014, the company generated 56% of its sales from Europe.

The company, which acquired TRW Automotive in May 2015, is now present in about 230 locations in some 40 countries. ZF is one of the top three automotive suppliers worldwide. ZF completed acquisition of TRW Automotive for USD12.4 billion. Subsequent to the acquisition, TRW's business is incorporated into ZF as a new division called Active & Passive Safety. TRW is being managed as the fifth division within the ZF Group. The company expects the integration to conclude in three to five years.

The combined company is one of the major players in automotive technologies, ranging from driver assistance and occupant safety systems, to drivelines and transmissions, and braking and steering systems. This combination of advanced technologies comprehensively addresses the growing, industry-wide trends of safety, fuel efficiency and autonomous driving. Also, in February 2015, ZF divested its 50% share in steering systems joint-venture ZF Lenksysteme (ZFLS) to Bosch in order to smooth its TRW acquisition. Had ZF not divested its stake in ZFLS, the combined ZF-TRW would have gained a large share in the global steering systems market.

Post reorganization and TRW acquisition, ZF operates its business in five divisions: Car Powertrain Technology, Car Chassis Technology, Commercial Vehicle Technology, Industrial Technology, and Active and Passive Safety Technology.

Prior to TRW acquisition, ZF operated its business into six divisions:

Car Powertrain Technology (36.6% of 2014 sales)

Car Chassis Technology (32%)

Commercial Vehicle Technology (16.5%)

Industrial Technology (11%)

ZF Services (8.8%)

Electronic Systems (3.5%)

Note : Internal sales and others totalled 8.4% in FY2014.

ZF Sachs and ZF Lemförder, which manufacture chassis components such as clutches, vibration dampers, front and rear axle systems and gearshift systems, were merged into ZF Friedrichshafen. The independent business unit, ZF Services, remains unchanged, along with the joint-venture ZF Lenksysteme with Bosch.

In addition, ZF operates five business units – Electronic Components, Rubber-Metal Technology, Marine Propulsion Systems, Aviation Technology, Aftermarket Trading, Sales and Service Organisation.

Europe, the biggest market for the company, accounted for 56% of total sales in 2014 followed by North America (20.3%), Asia-Pacific (19.6%), South America (3%) and Africa (1%).

ZF supplies to several OEMs, including Chrysler, Daimler, Beiben Truck, Subaru and Dongfeng. As of 31 December 2014, ZF employed 74,402 people worldwide.

Corporate Strategy

Acquisition of TRW has positioned ZF as a major supplier in the field of automotive chassis, driveline and safety. The acquisition will help ZF consolidate its position in regenerative braking, steering systems, sensor technology, radar technology and active damping systems. In the field of automated driving, ZF expects to leverage TRW's expertise in onboard information processing actuator systems to develop solutions. The purchase will also allow ZF to add technology for occupant safety and crash avoidance to its mechanical products, creating a competitive entity with global coverage in automotive technology fields which are set to see significant growth over the coming decades. Furthermore, ZF is aiming to become a major player in the advanced driver assistance systems (ADAS) through TRW acquisition, with the new entity's combined share of sales of ADAS set to grow 15-25% a year.

ZF is currently focusing on three key megatrends – efficiency, safety and automated driving. Automated driving and safety are very relevant for chassis components. The company derives a significant share of sales revenue with chassis components (almost 50% of total sales revenues). The company is focusing on merging driveline technology with functions that are used in driver-assist systems or active-safety systems on the chassis side. The new combined entity holds a big piece in the occupant and pedestrian safety systems.

ZF is focused on its growth strategy based on expansion in both traditional and new markets. Aside from TRW acquisition, the company acquired Germany-based HDLE GmbH's development department with approximately 50 employees in mid-2015. The acquisition will provide ZF with additional technology expertise for driver assistance systems, consolidating its expertise in the field of semi-autonomous driving.

ZF has also been actively developing products which improve safety, and products aimed at reducing carbon emissions and improve fuel-efficiency. For instance, the company's single-lane 'Highway Driving Assist' already enables automatic steering, braking and acceleration for speeds down to 0 kph with adaptive cruise control and lane

centring. In September 2015, ZF TRW enhanced electronic stability control (ESC) system with advanced safety systems such as automatic emergency braking and automated driving functions. The technology is set to be launched with a major automaker in 2018.

Acquisitions

- In July 2015, ZF acquired Germany-based HDLE GmbH's development department with approximately 50 employees. The company will integrate the acquired software development team into its corporate research and development (R&D). The acquisition includes several test vehicles and the development results. The acquisition will provide ZF with additional technology expertise for driver assistance systems, consolidating its expertise in the field of semi-autonomous driving. ZF aims to be a top developer and supplier of advanced driver assistance systems (ADAS) in the automotive industry.
- In January 2012, ZF agreed to acquire thyssenkrupp Automotive Systems (TKAS) cabin suspension business unit. The acquired business, located in Werdohl region of North Rhine-Westphalia (Germany), generated EUR15 million (USD19.7 million, 31 January 2012) and employed 41 people in 2012.
- In October 2011, ZF won European Union's clearance to purchase Belgian gearbox maker Hansen Transmissions for USD725.5 million.
- In July 2011, ZF acquired Honsel's Nuremberg (Germany) plant including about 750 employees and 150 temporary workers. The acquisition increased the company's expertise in lightweight construction and guaranteed the supply chain for its transmissions. The Nuremberg plant mainly manufactures transmission housings and aluminium and magnesium transmission components. The plant gets two-thirds of its sales revenue from ZF which uses these products for its 6-speed, 8-speed and dual-clutch transmissions.
- In July 2011, ZF acquired Bauknecht Hausgeräte's 40,000-square-metre plant in Neunkirchen, Saarland (Germany). The plant was transferred to ZF at the beginning of 2012. ZF uses the plant to manufacture automatic car transmissions. Of the 280 employees at the plant at the time of transaction, ZF took over 240, while the remaining 40 retired.
- In November 2010, ZF acquired Fonderie Lorraine, the French subsidiary of insolvent automotive supplier Honsel AG. The acquired company manufactures light-alloys internal transmissions parts and housings for German and French automotive manufacturers and suppliers. ZF has been a major tier one customer for Fonderie Lorraine accounting for about 90% of its sales.

Acquisitions outside Europe

- In September 2014, ZF reached an agreement to purchase TRW Automotive, a US-based safety systems supplier to the automotive industry, in an all-cash deal. ZF agreed to pay USD105.60 per share for all outstanding shares in TRW Automotive. The deal was valued at about USD13.5 billion. Pro-forma combined sales for 2013 were about EUR30 billion (USD41.3 billion, 31 December 2013) and the combined entity will employ around 138,000 people.
- In March 2010, ZF acquired a 50% stake in India-based Hero Chassis Systems, a component business unit of India's Hero Motors Ltd. Post-acquisition, the acquired business became a joint-venture with both ZF and Hero holding stakes of 50% each and its name has been changed to ZF Hero Chassis Systems. The JV has two manufacturing facilities in Halol, Gujarat and Talegaon, Maharashtra, acquired in 2008 from Delphi.

Joint Ventures

- In March 2010, ZF entered into a strategic alliance with Intel to jointly develop a hardware and software platform for telematic applications. The platform called 'Openmatics' can be used in city business of all automakers. The telematic system is made up of an on-board unit for the vehicles and a web-based software portal for evaluation purposes.
- In August 2013, ZF entered into a partnership with Levant Power to develop the world's first fully active and regenerative suspension system. A functional unit fitted outside the damper will form the basis of regenerative suspension technology. The compact unit is composed of a control unit, an electric motor and an electro-hydraulic gear pump. The gear pump is in charge of regulating the oil flow to the damper, allowing it to adapt optimally and automatically to the driving conditions. In addition, the system is capable of actively raising each individual wheel on the vehicle.

Joint Ventures outside Europe

- In October 2014, ZF formed a JV with Chinese automaker Beijing Automotive Industry Corporation (BAIC) to develop and assemble chassis systems for passenger cars. The JV, in which ZF owns a 51% stake, will establish a new facility for its operations in the Beijing Economic and Technological Development Area in Beijing (China). Engineers and plant planners will begin developing the facility and install production equipment there in 2015, and this will be followed by the launch of chassis modules assembly. The new plant will initially employ 200 people and will have an annual production capacity of 200,000 units. Products manufactured at the Beijing facility will be delivered to BAIC's customers using just-in-time (JIT) mechanism. Both parties plan to invest more than EUR10 million (USD12.7 million) to establish the new facility, which will cover an area of around 16,000 square meters.
- In February 2013, ZF formed a joint-venture (JV) with Baotou Beiben Heavy Duty Truck. The JV had a registered capital of CNY122 million (USD19 million) and will be involved in the manufacture and sale of transmissions for commercial vehicles.
- In September 2011, TRW signed a strategic agreement with Great Wall Motors to upgrade their current level of co-operative research and development (R&D) into active and passive safety systems. The collaboration was in response to the C-NCAP updated regulations.

- In July 2010, TRW announced plans to provide licence of slip control systems (SCS) technology to its JV, Brakes India. With the help of the licence, Brakes India will provide manufacturing and local engineering development services to customers in India. Brakes India is a JV established in 1962 between TRW's subsidiary Lucas Industries and TVS Sundram Group. The company manufactures foundation brakes and actuation components in India.
- In March 2010, TRW Asia Pacific Co. Ltd., a subsidiary of TRW Automotive, formed a joint-venture with Xi'an Dong Fang Group, a division of China North Industries Group to manufacture airbag inflators and seat belt components in China. Both companies established a plant in Xi'an (China) to produce the safety components for the Chinese market.

Investments

- In June 2015, ZF expanded its research and development (R&D) center in Plzeň, Czech Republic. The company invested EUR4 million (USD4.5 million) in the expansion of the R&D center. The center employs approximately 250 employees. ZF has doubled the space in R&D center with the new building, increasing the space to approximately 7,000 square meter area. R&D center also includes facilities for manufacturing prototypes, fixtures and jigs, as well as laboratories and test benches for climate and service life testing. The center mainly focuses on software development and software testing as well as the development and qualification of mechatronic components.
- In March 2014, ZF started construction of a seven-storey office at its Pilsen plant in Czech Republic with plans to add 200 employees by 2017. The company planned to invest EUR4 million (USD5.5 million) in the building, which will be spread over 3,500 square metres. ZF acquired the Pilsen location in 2007. ZF Engineering Plzeň undertakes development and testing services in software development, software testing and development and qualification of mechatronic components. The centre has its own prototype manufacture for plastic and mechatronics components, such as sensors and actuators.
- In February 2014, ZF began the construction of its new headquarters (ZF Forum) in Löwentaler Straße, Friedrichshafen (Germany). The new building can accommodate around 600 employees. The company plans to open the new headquarters in the second half of 2015.
- In February 2014, ZF decided to open a new testing facility for transmissions at its research and development (R&D) centre on Graf-von-Soden-Platz (Germany) in 2015 and 2016. The current R&D centre faces space constraint, so expansion much needed. In addition, ZF planned to merge all development departments that are presently located across several leased office facilities in Friedrichshafen (Germany), at the R&D centre.
- In January 2014, ZF Kama, a joint-venture (JV) between ZF Friedrichshafen and Kamaz, opened a new 20,000 square foot transmissions plant in Naberezhnye Chelny (Russia). ZF and Kamaz plan to invest a total of around EUR90 million (USD122 million, 23 January 2014) in the Russian plant. The companies have plans to expand production and headcount by 2016. Employee count is expected to increase from 350 to 550 by 2016. The JV is 51% owned by ZF and 49% by Kamaz. The JV supplies more than 95% of transmissions to Kamaz and the rest to other Russian producers and also to locally produced trucks from importers. The JV manufactures manual gearbox under the product families Ecosplit (16-speed version) and Ecomid (nine courses) for commercial vehicles. In September 2013, ZF Kama expanded production capacity at Naberezhnye Chelny plant. By 2016, the JV is expected to produce up to 50,000 gears under the Ecosplit brand and 20,000 gears under the Ecomid brand annually.
- In January 2014, TRW announced plans to open a new sewing facility in Roman (Romania). The facility will manufacture and supply sewn airbag cushions to the company's occupant restraints plants ready for module assembly. The facility expects to employ up to 1,000 people by 2017. The company did not disclose any investment figure for the new plant.
- In July 2013, ZF opened a new composites technical centre at its existing facility in Schweinfurt (Germany) to develop lightweight auto components. The company invested a total of EUR3.1 million (USD4.1 million) in machines and buildings for the new tech centre. The centre will focus on the development of manufacturing processes for the volume production of components made from fibre-reinforced plastics (FRP). It houses a press with a high-pressure injection unit for various resin hardener systems and other systems for further processing, including a robot and an infrared and tempering furnace. The centre – initially run by four engineers – will function as a branch of ZF's Research and Development unit in Friedrichshafen (Germany). The centre will also ensure group-wide knowledge transfer.
- In April 2013, TRW opened a steering wheel wrapping facility in Baia Mare (Romania) to meet the current and growing requirements primarily for Audi. The plant employs around 300 people. TRW has been manufacturing in Romania since 2004. The company has production sites in Timisoara, Oravita, Lupeni and Marghita employing 3,400 people. TRW in Romania supplies to 14 major automakers including Volkswagen, Fiat and Ford.
- In September 2012, TRW started production of AC100 24GHz radar at its plant in Autocruise (France). The radar is designed for both passenger cars and commercial vehicles. However, the company intends to first offer it for commercial vehicles, and then for C segment passenger cars in Europe. The radar provides safety features including distance and collision warning, activation of reversible restraint systems and integration with braking systems to, pre-crash pre-fill of brakes, adaptive brake. The major functions of its AC100 24 GHz radar are the same as its current AC20 77 GHz radar, but what might sound interesting to customers is that it is cheaper. The radar has the capability to detect vehicles up to a range of approximately 150m and is ideal for a full range of driving conditions including high speed motorway driving.
- In July 2012, ZF Rubber & Plastics, a subsidiary of ZF Friedrichshafen, announced it was investing USD17.9 million to expand its manufacturing facility in Hebron, Kentucky (US) to meet increasing demand. The company will invest in new equipment at the plant and expand its area by 52,000 square feet. The investment will result in 60 new jobs at the plant which employed 206 people.

- In December 2011, TRW decided to build a leather steering wheel cover manufacturing plant in Margita, Bihor County (Romania). The plant started operations in 2012 and employs 340 people.
- In July 2011, TRW decided to expand production capacity of electric power steering (EPS) systems in Poland. As part of the expansion, the company expected to establish a facility covering 9,000 metre square in Bielsko Biala, near its existing facility in Czechowice-Dziedzice. The production began in 2012 and around 250 new jobs were created.
- In November 2010, ZF announced plans to expand capacity at its transmission plant in Saarbrücken (Germany). The company invested EUR10 million (USD13.2 million) to set up a new production hall at the plant to increase production capacity of 8-speed automatic transmissions. The investment created about 150 to 200 new jobs at the plant. The operations began in early 2012. The plant produces trigger boxes for automatic transmissions. ZF uses these trigger boxes not only for transmissions produced at the Saarbrücken plant but also for those produced at the company's plant in the US and China.
- In November 2010, TRW decided to set up a steering plant in Poland. The factory was set up in Gliwice (Poland) with an investment of around PLN180 million (USD60.4 million, 26 November 2010). The plant originally employed about 300 people and around 90% of the production was meant for export purposes.
- In October 2010, TRW Steering Systems Slovakia, a subsidiary of TRW Automotive, decided to expand its facility in Nové Mesto nad Váhom (Slovakia). The expansion was intended to introduce new steering components in the market. The expanded facility manufactures Electrically Powered Steering (EPS) sensors and Belt Drive Steering systems. The plant expansion resulted in 250 new jobs.

Investments outside Europe

- In November 2015, ZF TRWs manufacturing plant in Zhangjiagang in east China started production. The plant, located in the Jiangsu province, produces automotive braking systems and passenger safety systems. ZF TRW invested USD260 million in the plant which is expected to contribute more than CNY900 million (USD141.8 million) in annual revenues.
- In June 2015, ZF announced plans to spend USD71 million building new technical centre in Northville, Michigan (United States). The company will expand its Michigan site by 210,000 to increase R&D capacity for transmission, steering, axle and chassis components. The investment will result in 571 new jobs, taking total number of employees at the technical centre to 1,231.
- In April 2015, TRW announced its plans to open three new plants in China in 2015 and 2016. Two of these facilities are located in Zhangjiagang, Jiangsu (China); one is dedicated to braking, which is due to start operations in June 2015, and the other will produce occupant safety systems (OSS) and scheduled to start production in November 2015. The third facility, also dedicated to OSS, is located in Xian and is expected to be operational by the third quarter of 2016.
- In February 2015, ZF opened a new facility in Pune, Maharashtra (India) to manufacture steering and suspension components. The plant covers an area of 85,000 meter square and houses Car Powertrain Technology, Commercial Vehicle Technology divisions and ZF Services. The company has invested total INR1.5 billion (USD24.2 million, 6 February 2014) in the facility which will have the capacity to manufacture one million units of components annually. The plant will serve OEMs including Mahindra & Mahindra, Tata Motors, Ford and GM. Initially, the company will utilise 20% of the plant's capacity to meet requirements of both Indian customers and global clients.
- In July 2014, ZF started expansion at its Asia-Pacific regional headquarters in Shanghai (China). The company plans to expand the space by four times from 11,000 meter square to 54,000 meter square. The new building will primarily house laboratories and test benches. ZF plans to invest EUR50 million (USD55 million) in the project over a span of next five-years and expects the construction to get over by the end of 2015.
- In June 2014, TRW opened its largest technical centre in Anting (China). The 66,000-square metre facility has more than 20 scientific testing labs supporting all of the supplier's main business areas including braking, steering and suspension, occupant safety and safety electronics. The centre employs more than 1,200 members of engineering, research and technical staff.
- In April 2014, Rane TRW Steering Systems Limited, an equal partnership JV with the India-based Rane Group expanded to produce airbags and the latest generation of seat belt systems. The plant manufactures around 320,000 units in a year and this will be further raised to produce 810,000 units in next three to five years.
- In November 2013, ZF opened a production facility for passenger car axle sets in Kulim (Malaysia). The plant, employing 74 people, will produce axles for the nearby BMW plant. ZF will start with the production of CKD (completely knocked down) axles at the plant. Front and rear axles will be installed in several BMW and Mini model ranges.
- In September 2013, ZF announced plans to open a new plant for passenger car axle systems in Beijing (China). The plant will supply axle systems to Beijing Benz Automotive.
- In September 2013, ZF Lemförder (Thailand) expanded its annual Thai production capacity to 240,000 sets from 200,000 at its plant in the Hemaraj Eastern Seaboard Industrial Estate. The company is seeking partnerships with Honda, Toyota and Nissan in the Thai market.
- In September 2013, ZF began production at its new transmission plant in Gray Court, South Carolina (US). The new plant produces 8-speed and the world's first 9-speed automatic transmission with an annual capacity of 1.2 million units; Land Rover and Chrysler will be the first customers.
- In June 2013, ZF North America opened its third plant near Gainesville, Georgia (US) to produce clutch and other powertrain components for mid-size and heavy trucks. The plant is spread on an area of 50,000 square feet. ZF transferred the production of clutch and powertrain components from its plant in Saltillo (Mexico) to this new plant in the US. The new facility hired 20 new employees and plans to hire 100 more in near future.
- In June 2013, TRW started production of an electrically powered steering (EPS) belt drive system at its plant in

Anting, a suburb of Shanghai (China). The company installed equipment to produce and assemble the belt drive units at its Anting facility. For this platform, line capacity is expected to be in the range of 400,000 units annually.

- In April 2013, TRW started production of camera systems in the United States as the company sees a strong demand for camera systems in the region in the next five years, particularly in light of the high frequency of accidents caused by lane drift. The supplier also decided to invest in its electronics facility in Marshall, Illinois (United States), in order to support its growing video camera business worldwide. The company decided to invest in its production sites – both in North America and in Europe – in support of a number of global business awards.
- In December 2012, ZF announced plans to expand a plant in China. The plant, which was established in 2008 in Shanghai's Qingpu suburb, makes rubber, metal and plastic components for the automotive industry. The production area has been doubled to 23,000 square metres. In 2013 the plant started producing plastic pedal modules.
- In November 2012, ZF's subsidiary, ZF Lemförder Thailand, officially inaugurated an axle systems manufacturing plant in Rayong. The facility produces axle systems for passenger vehicles and doubles ZF's production footprint in Thailand to 70,000 metre square. The new and bigger facility, employing 135 people, is an important establishment for the company which is focusing on emerging Asian automotive markets.
- In September 2012, TRW decided to invest in a third-generation camera system, anticipating increase in regulatory standards for forward collision warning and lane-keeping systems in North America. The company expected to base the next generation S-Cam on the present S-Cam features which include headlight control, lane detection, traffic sign recognition and vehicle detection and classification for automatic emergency braking. The camera technology also focused on improved pedestrian-detection functionality which is a key safety target throughout Europe and the United States. The company decided to make the development under the continued partnership between TRW and Mobileye which had also worked on S-CAM technology that was made available in the European, United States and Asian markets.
- In July 2012, ZF Rubber & Plastics, a subsidiary of ZF Friedrichshafen, announced plans to invest USD17.9 million to expand its manufacturing facility in Hebron, Kentucky (US) to meet increasing demand. The company invested in new equipment at the plant and expanded its area by 52,000 square feet. The investment resulted in 60 new jobs at the plant which employed 206 people.
- In February 2012, TRW started production of electric power steering (EPS) systems at its facilities in Limeira (Brazil) to cater to the increasing demand in the South American market. The company planned to produce 400,000 EPS units initially at the plant annually, which would employ over 170 people more as it operates at full capacity.
- In February 2012, ZF invested USD14.6 million in Tuscaloosa, Alabama (US) plant to add new factory area and machines in order to accommodate a new contract from Mercedes-Benz US International to supply chassis systems for the new C-Class. The chassis systems will be supplied to the automakers plant located in Vance, Alabama (US). The move added 85 new jobs in the facility.
- In February 2012, ZF started construction of a new plant in Beijing (China). The plant will make axles for passenger cars. The site covers 58,000m² and the new plant will cover 32,000m² when complete. ZF will invest EUR15 million (USD20.14 million, 29 February 2012) in equipment for the new location. The company did not disclose total investment in the new plant. The plant will employ 350 people and will produce 1000 axle sets per year for Beijing Benz Automotive Company (BBAC), the production joint-venture between Daimler AG and Beijing Automotive Industry Corp. (BAIC) that produces Mercedes passenger cars in China. Apart from the current model ranges in production in China, ZF will also supply future models such as the next generation C- and E- Class cars.
- In November 2011, TRW decided to establish a plant in Queretaro (Mexico) to produce electronic brake and actuation systems. The facility covers an area of 150,000 square feet and was to manufacture hydraulic control units for the company's electronic stability control systems including Slip Control Boost system and brake actuation units such as boosters and master cylinders.
- In January 2011, ZF announced plans to set up its first passenger car transmission plant in Greenville, South Carolina (US). The new facility will manufacture the 8- and 9-speed automatic transmissions. The company invested USD350m in the new facility and added 900 newly created jobs.
- In October 2010, ZF opened a new plant in Pune, Maharashtra (India). The plant has capacity to produce up to 25,000 ZF-Ecomid 9-speed heavy truck transmissions annually. Depending on the demand, the company can produce other truck transmission types for its current customers, including Asia Motor Works, Tata Motors, Ashok Leyland, Mahindra Navistar and Volvo-Eicher, as well as new customers. Initially the company employed 80 employees in the truck transmission assembly plant. After production ramp-up the figure is likely to go up to 150 over the following five years.
- In October 2010, ZF Steering Systems, a subsidiary of ZF Lenksysteme, announced plans to invest USD95.8m at its manufacturing facility in Kentucky (US) to increase production capacity. The company constructed two new buildings at the plant, increasing area by 175,000ft². The Florence plant makes steering components for passenger cars and sport-utility vehicles (SUVs). The plant is adding capacity to meet the increased demand for its new electric steering gear.
- In September 2010, ZF Hero Chassis Systems, a JV between ZF and India's Hero motors announced plans to invest around USD1bn in a new plant near New Delhi (India) to manufacture chassis frames, axle systems and sheet metal components. The components manufactured will primarily cater to local demand.
- In August 2010, TRW Automotive Components (Shanghai) Co. Ltd. decided to manufacture Electric Power Steering (EPS) at its facility in Anting (China). TRW also added production lines to manufacture mechanical gears, column power head assemblies and electronic control units. This led to localised manufacturing of the Column Drive EPS in the region. Total capacity is around 450,000 units annually and the company employs

170 people in the engineering and other departments.

- In March 2010, Rane TRW Steering Systems, a joint-venture between TRW and Rane Group of India opened a manufacturing plant in Panthnagar, Uttarakhand (India) to manufacture power steering and pump, primarily for commercial vehicles. The company invested INR140 million (USD3.5 million, 5 March 2010) in the plant which has an annual production capacity of 80,000 units of steering gears and 50,000 pumps. The plant supplies components to Ashok Leyland's plant, also located in Panthnagar.
- In January 2010, ZF inaugurated its axles and transmission systems production facility in Chakan, Pune (India). The facility is the first for ZF India, a subsidiary of ZF group and it will produce components for off-road applications and also will supply to the upcoming transmission plant in Ranjangaon, Maharashtra (India) for trucks. The plant will produce 10,000 axles and 10,000 powershift transmission units per annum.

Divestments

- In January 2016, ZF TRW sold its global engineered fasteners and components business, in a deal due to be completed in the first half of 2016. The deal sells off the business to Illinois Tool Works (ITW). ITW will take over a business with operations in all major regions and 3,500 global employees. As of January 2016, the ZF TRW business is headquartered in Germany, and operates 13 locations to serve customers in Europe, Asia and North America.
- In April 2015, TRW signed a definitive agreement to divest its Linkage and Suspension business for USD400 million in cash to THK. The divestiture of the business, with annual sales of approximately USD550 million, is expected to close by September 2015. The deal is subject to customary conditions, including regulatory approvals.
- In February 2015, ZF divested its 50% share in steering systems joint-venture ZF Lenksysteme (ZFLS) to Bosch. Bosch now owns 100% stake in ZF Lenksysteme, which is now incorporated into the former as a new division called Robert Bosch Automotive Steering. The divested business produces steering systems for passenger cars and commercial vehicles at 20 facilities in eight countries and employs more than 13,000 associates, of which 1,400 work in development.
- In December 2013, ZF announced plans to sell its rubber and plastics business unit – a part of its Chassis Technology division – to Chinese company Zhuzhou Times New Material Technology Company (TMT). The operational headquarters of the sold entity will remain in Damme, (Germany), and will be largely operated and managed autonomously by its existing management team. TMT will maintain all existing production sites.
- In February 2011, TRW shut down its plant in Resolven, near Neath (United Kingdom). The company decided to shift operations to its sister plant in Europe. The plant used to manufacture steering parts and housed 225 employees. Overcapacity was cited as the major reason in its steering plants across Europe, due to the technology shift from hydraulic power to electric power steering systems.

Divestments outside Europe

- In December 2013, TRW closed its brake systems factory in Saginaw, Michigan (United States), in mid-February after losing a contract from GM and failing to win other businesses. The closure of the Saginaw facility, which manufactures brake rotors and knuckles and assembles corner modules for the Detroit automaker, resulted in the loss of 600 jobs.
- In November 2013, ZF announced it would sell Auto Industrial Brake & Chassis Holding Johannesburg (AIBC), its South African subsidiary, to Trinitas.
- In July 2011, TRW sold half of its total 9.78% stake in Rane Engine Valve for nearly INR59.2 million (USD1.3 million, 1 July 2011) to Enam Shares and Securities Ltd. TRW Automotive's stake now stands at 4.89%, after selling 252,000 shares at INR235 (USD5.2) per share.

Contracts

OEM/Brands	Model	Components
Renault-Nissan	Twingo (2014) and electric cars (Models not specified)	Automated manual transmission
Honda	Pilot (2015)	Shock absorbers
Ford	Edge (2014)	Chassis components
Maruti Suzuki	Celerio (2014)	Chassis components
Cadillac	Escalade (2014)	Chassis components
Audi	Q7 (2015)	Actuators, automatic transmission, axles, chassis components, electronics, gear shift system, shock absorbers
Volkswagen	Golf (2014)	Chassis components
BMW	X4, X5, 4 Series	Automated manual transmission
Hyundai	Xcent (2014)	Chassis components
Mazda	2 (2014)	Clutch

Land Rover	Discovery Sport (2014)	Chassis components
Citroën	C4 Cactus (2014)	Automated manual transmission
Mercedes-Benz	MLC Class (2015)	Axles, chassis components, NVH control components
Skoda	Superb (2015)	Chassis components, clutch system, dual mass flywheel, electronics, gear shift System, shock absorbers
Volkswagen	Passat (2014)	Clutch
Chevrolet	Suburban (2014)	Chassis components
Skoda	Fabia (2014)	Clutch systems
Fiat	500X (2014)	Chassis components
Jaguar	F-Type (2013)	Automatic transmission
Chrysler	200 (2014)	Axle parts
Tata	Bolt (2014)	Electric steering system
Jaguar	XE (2014)	Automatic transmission
Tesla	Model X (2015)	Electric steering system
Lincoln	MKX (2015)	Chassis components
Kia	K5 (2015)	Chassis component, shock absorbers

- In December 2013, ZF secured a contract to supply its six-speed automatic transmissions "ZF-EcoLife", front and rear axle systems for a total of 172 new fleet vehicles in Hungary. One of its subsidiaries, ZF Lenksysteme GmbH, will supply steering technology for the buses. The buses will be used in the cities of Budapest and Pécs (all Hungary).
- In October 2013, ZF secured a contract to supply its six-speed automatic transmissions "ZF-EcoLife", front and rear axle systems for a total of 405 new fleet vehicles in the Netherlands. One of its subsidiaries, ZF Lenksysteme GmbH, will supply steering technology for the buses. The buses will be used in Utrecht and Arnhem, as well as in South Holland and Friesland (all Netherlands).

Product Developments

ZF invests 5% of total revenue in research and development (R&D) every year. In the financial year ended 31 December 2014, the company invested EUR891 million (USD944.3 million, 31 December 2014) of its total revenues in R&D compared with EUR8361million (USD1.1billion, 31 December 2013) in FY2013.

ZF has R&D centres in Germany, Czech Republic, China and Japan. The company's R&D activities are focused on reducing carbon emissions, optimising passive chassis systems and developing advance systems for hybrid and electric vehicles.

ZF extended its research and development (R&D) centre in Plzeň (Czech Republic) and invested EUR4 million (USD4.5 million) in the expansion. Also, in February 2014, ZF intended to open up a new testing facility for transmissions at its research and development (R&D) centre on Graf-von-Soden-Platz (Germany) in 2015 and 2016.

- In January 2016, ZF presented a modular rear axle system that combines driveline and chassis technologies in a single system, at the 2016 North American International Auto Show (NAIAS) in Detroit (United States). In the modular rear axle system, the basic axle is combined with ZF's AKC rear axle steering. The system can be combined with electric axle drive systems or conventional rear axle drives, depending on customers' needs. The rear wheels assist the front steering angle to enhance agility and stability when changing directions, depending on the road speed. The electric axle drive solution enables combining a basic axle with an electric drive module in the centre of the axle. This module would feature an electric motor housed with the single-speed transmission complete with housing, cooling unit and electronics to form one compact unit.
- In January 2016, ZF TRW, the Active and Passive Safety Technology Division of ZF Friedrichshafen, showcased its retractable steering wheel on Rinspeed's new S105 model at the 2016 Consumer Electronics Show (CES) in Las Vegas, Nevada (United States). The retractable steering wheel offers several functions such as hands on/off detection to support the driver during automated driving. By utilising a Driver Mode Manager (DMM) display located at the top of the steering wheel, the driver chooses whether to drive the vehicle himself or hand control over to the vehicle. In 'Automated' mode, the driver can simply fold the steering wheel away to create more space for carrying out other activities. ZF is also supplying a roof airbag and seatbelt webbing to the S105.
- In November 2015, ZF TRW has developed a new airbag that can help automakers improve side impact protection in vehicles, the Active and Passive Safety Technologies Division of ZF. The new airbag, called centre airbag, is integrated into the inner side of the seatback and deploys to help protect the head, shoulder and torso areas of the occupants in the front seat. The airbag protects occupants in far-side and near-side crashes by deploying a bag cushion between the driver and front seat passenger. In the event of far-side strike, ZF TRW's centre airbag can minimise side displacement of the driver and reduce the risk of interaction of the

driver with the front seat passenger or surrounding structural vehicle interior parts. It is equipped with a hybrid inflator and uses one-piece woven bag or sewn cushion.

- In October 2015, ZF presented its AV 133 low-floor axle for buses involved in bus rapid transit (BRT) traffic situations at the Busworld Kortrijk in Belgium. The axle uses aluminum spring carriers to offer weight savings of up to 45 kg. The company is also displaying the A/AV 110 axle for midibuses at the event.
- In October 2015, ZF presented its reengineered ZF-EcoLife 6-speed automatic transmission with start/stop function at the Busworld Kortrijk in Belgium. The company claims the transmission alone offers fuel savings of up to 10% compared to conventional diesel city buses, negating the need for an additional electric motor in the driveline.
- In October 2015, ZF presented its a line of axles, which includes the AVE 130 electric portal axle for electric buses at the Busworld Kortrijk in Belgium. The company expects to launch the axle in 2015, which comes with two motors offering power of 125 kW, and maximum torque of 485 Nm per motor. The omission of conventional drive shaft and propeller shaft in the rear also offers more space and seating area. The two integrated electric motors are expected to offer weight savings of up to 500 kg.
- In July 2015, ZF TRW launched fusion systems integrating advanced camera and radar systems for passenger cars and commercial vehicles. The system complies with stringent market and regulatory requirements for high level safety systems. Radar is useful for range and relative speed measurement, while cameras are useful for lateral measurements and accurate recognition of objects. The integration of the two functionalities offers high-level safety systems and automated functions for improved and safe driving.
- In July 2015, ZF TRW started production of its third-generation video camera, the S-Cam 3, across four major global vehicle platforms. The camera will be equipped in a range of compact C and D segment sedan and crossover vehicles in Europe, North America and Asia by the end of 2015. The S-Cam3 family provides six times the processing power of previous generation cameras. The cameras offer various functions including traffic light detection, large animal and general object detection and automatic emergency braking for pedestrians at night.
- In July 2015, ZF TRW said that it will launch its next-generation camera system, the S-Cam4 family, for a major European manufacturer in 2018. The new fully scalable cameras comply with stringent regulatory requirements for advanced driver assist system (ADAS) technologies and also support the evolution toward automated driving. The S-Cam4 family includes a single lens, mono-camera version and a premium three lens version featuring a telephoto lens for improved long distance sensing, and a fish-eye lens for improved short range sensing. Additionally, S-Cam4 family is equipped with Mobileye's Eye Q4 image processor and object recognition algorithms as well as ZF TRWs longitudinal and lateral control algorithms, further enhancing performance in premium ADAS and semi-automated applications.
- In July 2015, ZF TRW showcased its semi-automated driving capabilities, including highway driving assist, at a test track event in Berlin (Germany). The highway driving assist feature enables automatic steering, braking and acceleration for highway speeds from 40 kilometer per hour. The demonstration vehicle combines ZF TRWs AC1000 radar and S-Cam 3 video camera sensor together with its electrically powered steering belt drive (EPS BD) and electronic stability control EBC 460, which integrates adaptive cruise control (ACC) and lane centering assist (LCA) functionalities. The company also plans to showcase a 360 degree sensor system, enabling vehicles to automatically overtake.
- In June 2015, ZF TRW announced plans to bring the second-generation safety domain electronic control unit (ECU) to the market by 2017/18. The second-generation ECU possesses higher processing power over its predecessor and is suitable for the requirements of automated driving. The safety domain ECU features improved architecture based on AUTOSAR 4.x, a powerful quad-core processor that enables faster handling of greater data volumes, and an Ethernet interface. Additionally, the ECU housing allows the integration of further microprocessors, such as Mobileye chip of the ZF TRW safety camera. The ASIL D level-qualified safety domain ECU offers increased functional safety.
- In April 2015, TRW showcased its automotive safety technologies on SUVs at the 2015 Auto Shanghai, China. The technologies showcased include GAC GS5 Super/GA6 including electric park brake (EPB), driver airbag, seat belts, steering wheels and airbag control units, and electrically powered steering belt drive (EPS-BD) featured on the Ford Kuga. The company also announced that it will be launching next generation video camera sensor – the S-Cam 3 in China in early 2016.
- In March 2015, TRW started production of its dual stage pump technology across two major European vehicle platforms. The first stage of dual stage transmission pump is a low-pressure pump, which cools and lubricates the wet clutches with oil. The second stage of high-pressure pump which serves as a hydraulic pressure source that works for clutches, shift forks and other elements.
- In March 2015, TRW Automotive announced that it will introduce its electric park brake (EPB) technology to the light truck market on a high volume North American platform in 2017. The company's heavy duty EPB solution features higher clamp loads - ranging from 18.5 kilonewtons (kN) to the heavy duty version with a 25 kN clamp load.
- In March 2015, TRW unveiled its next generation seat belt buckle, the RNS5s, which is around 15% lighter and 20% smaller than the previous generation systems. The new buckle technology will be used in front and rear seat applications and its production started in Europe at the start of this year.
- In February 2015, ZF developed AKC system, a new rear axle steering system. The system is used in Porsche's 911 Turbo and 911 GT3 models. ZF engineers developed a length-adjustable toe link. By modifying the track angle, steering angle is produced and the steering intervention at the rear axle has a greater impact than the front axle. This results in a positive impact on vehicle handling.
- In December 2014, TRW unveiled a new version of its small pyrotechnic inflator with reduced size and weight at the Airbag 2014, which was held in Germany. The new lightweight roof rail airbag is designed for small and mid-sized vehicles in China and Europe. The company will begin global production of the inflator in early 2015.

in Laage (Germany); Xi'an (China) and Mesa, Arizona (United States). The company has already inked six development contracts for SPI2 EVO with five carmakers. Additionally, TRW showcased roof-mounted rear airbag concept, which when used in combination with a seat belt equipped with a retractor pretensioner and single constant load limiter, reduces the likelihood of rear seat occupant head contact with the front seat. The company also showcased front-seat mounted rear airbag concept, which is an advanced rear airbag design, placed on the rear-facing side of front seats to help protect rear seat occupants. The company expects to start production of both roof mounted rear airbag and front seat mounted rear airbag in late 2017.

- In December 2014, ZF, along with 29 other research partners, announced the development of a new electric drive. The new electric drive, developed under the European research project MotorBrain, utilises ferrite magnets to integrate driveline components in an electric vehicle (EV). The MotorBrain electric drive is smaller, lighter and safer, and offers higher efficiency and functionality than conventional electric motors. The electric drive is 25% smaller than the earlier versions, and it can be integrated with the transmission and power electronics in an EV to reduce the weight of its drive unit by 15%, increasing its range or payload. The new drive technology is also suitable for supply and work vehicles in urban settings, along with subcompact, compact, and mid-sized vehicles. The MotorBrain electric motor relies on readily available and cost-efficient ferrite magnets in place of rare earth metals. Moreover, the machine principle of certain prototypes of the electric drive does not even necessitate the use of ferrite magnets.
- In October 2014, TRW launched its third-generation electrically powered steering column drive (EPS CD) technology on two major vehicle platforms in Europe and China. In Europe, the latest-generation EPS CD features on the Volkswagen (VW) Polo, Up and e-Up, Audi S1, Skoda Rapid, Space Back, Fabia and Citigo. TRW is also supplying new EPS CD to the Fiat 500L for Europe. In China, the company's EPS-CD is featuring on the new GAC Fiat Viaggio, the Chinese version of Chrysler Dodge Dart.
- In September 2014, ZF showcased its products at the 65th IAA Commercial Vehicles 2014 in Hannover (Germany). The products on display included the TraXon automatic transmission system (ATS), ZF-EcoLife automatic transmission (AT), RL 82 EC front independent suspension, AVE 130 rear electric portal axle, IS 80 TF suspension, and Openmatics telematics solution.
- In September 2014, TRW demonstrated its semi-automated driving capabilities at the company's vehicle test track event in Locke Township, Michigan (United States). The solutions contain 'Highway Driving Assist' feature which enables automatic steering, braking and acceleration for highway speeds above 25 mph.
- In September 2014, TRW showcased two new commercial steering technologies (ReAX and ActivMode). ReAX integrates hydraulic power steering (HPS) for commercial vehicles and electrically powered steering (EPS) belt drive for passenger cars and help in improving driver control and stability. The ActivMode hydraulic power steering pump delivers up to 50% reduction in energy consumption compared with traditional pumps in specific configurations. The ActivMode uses dual mode flow logic to achieve fuel savings and temperature reduction. The flow logic is set to match steering system flow demand in operating states of a commercial vehicle, engine idle and cruising speed. When a vehicle is moving at low-speed, both sides of the circuit are used to provide full flow, while at cruising speed one side of the circuit is hydraulically disengaged to minimize pump action and reduce power consumption. ReAX system will be ready for production in 2017. TRW anticipates ActivMode to be ready for production in 2016 for 2017 calendar year applications.
- In August 2014, TRW announced that it was developing a new seat belt presenter for four-door vehicles. The compact system can be mounted directly on the height adjuster within a vehicle's B pillar. When the driver gets in the vehicle and closes its door, a small arm emerges from the door-post, bringing the seat belt forward into an easier-to-reach position by the driver's shoulder. TRW was working with automakers on detailed ergonomic of the new product. The company is carrying out analysis to find the most natural position for people to receive the seat belt. The new product is expected to be ready for mass production by 2016.
- In June 2014, TRW launched its new seat belt retractor, the Floating Spool 1 (FS1), which offers reduced weight and smaller dimensions compared with previous systems. The new retractor technology can be used for both front and rear seat applications using buckles and/or anchor pretensioners. The FS1 is available as a standard retractor without load limiter, but also with a constant load limiter using a standard torsion bar.
- In June 2014, TRW demonstrated its Emergency Steering Assist (ESA) system on a prototype vehicle at an event at the Hockenheimring (Germany). The company developed the system with the TU Dortmund (Technische Universität Dortmund) and expects the technology to be ready for production in 2017 for 2018 model year vehicles.
- In April 2014, TRW started production of its roof airbag technology for the Citroën C4 Cactus. The innovative airbag comprises a cushion, a gas diffusion channel and a gas generator within a housing which is fixed onto (or beneath) the headlining above the windscreen. In case of deployment, the bag unfolds along the windscreen in front of the seat occupant, rather than towards them, helping to restrain front seat passengers of varying shapes and sizes.
- In March 2014, TRW introduced its new steering wheel concept on the Rinspeed XchangE showcar. The concept supports automated driving by offering various multi-functional features including hands on/off detection to help support the driver during semi-automated and automated driving situations.
- In January 2014, ZF displayed nine-speed automatic transmissions (9HP) for vehicles with front-transverse drive. When a vehicle is driving at a speed of 120kph, the 9HP can reduce fuel consumption by 16% when compared with the conventional six-speed automatic transmission for front-transverse applications.
- In November 2013, ZF displayed EConnect, the automatically disengageable all-wheel-drive system that can reduce the additional consumption of all-wheel-drive vehicles. Fuel consumption can be reduced by 5% compared with conventional all-wheel drives.
- In September 2013, TRW showcased next-generation radar concept 'AC1000' at the 2013 IAA Show in Frankfurt (Germany). The AC1000 is advanced radar for 360 degree sensing application to support a variety of safety and convenient functions such as adaptive cruise control, forward collision warning, collision mitigation braking, automatic energy braking, pedestrian detection, blind spot detection, lane change assist and cross

traffic alert.

- In September 2013, TRW unveiled advanced video camera S-CAM3 at the 2013 IAA Show in Frankfurt (Germany). The S-CAM 3 is new generation of video camera which offers six times the processing power compared with the current generation of camera. It will support several applications including lane departure warning and lane keeping systems, forward collision warning, forward distance indication, traffic sign recognition, high/low beam control, pedestrian detection and a range of new functions. The company expects this new generation of camera to feature in 2016 model year vehicles.
- In September 2013, TRW showcased next-generation safety domain ECU SDE2 at IAA in Frankfurt (Germany). The new safety domain ECU SDE2 is an integration hub which can process data from multiple driver assist systems, chassis and suspension functions in one unit. The SDE 2 is a key technology in supporting semi-automated driving and car2car (C2C) communication.
- In August 2013, TRW designed an anchor seat belt pretensioner in a rotary configuration, called the APR1 to overcome the challenging packaging situations. The APR1 is expected to be launched on several European vehicle platforms in 2015. The APR1 has lighter weight design and more compact packaging resulting in an easy integration for vehicle manufacturer interiors. It is designed to deliver pretensioning forces of more than 3kN, which can help to remove seat belt slack within milliseconds of a crash being detected.
- In April 2013, TRW launched its first integrated Remote Keyless Entry (RKE) and Direct Tire Pressure Monitoring system (TPMS) with a major Japanese vehicle manufacturer. By integrating RKE and TPMS, the new system eliminates the need for separate receivers for the two systems. The integration of RKE and TPMS reduces the risks associated with Radio Frequency (RF) interference by utilising multiple frequencies.
- In April 2013, TRW unveiled a semi-automatic seatbelt concept in collaboration with Rinspeed at the 2013 Geneva Motor Show. The seat belt features a webbing catcher which provides for semi-automatic buckling and unbuckling, compared with traditionally used seat belt buckle and tongue. The system is being introduced on Rinspeed's microMAX electric vehicle (EV) concept, a space-saving mode of urban vehicle.
- In March 2013, ZF introduced lightweight plastic engine mounts made of a fibre-glass reinforced polyamide instead of a conventional aluminum casting, which reduces the weight of the mount by about 25%, compared with traditional rubber-metal engine mounts. In addition, the mounts are 100% recyclable, corrosion-resistant and capable of dampening engine vibrations as effectively as its predecessor. The company announced a contract to supply six model-specific versions of the mounts for Renault-Nissan's passenger cars and electric cars.
- In February 2013, TWR unveiled the EBC 460 Premium Brake System, which comes in two versions – a Premium (P) version for traditional engines and a Premium Hybrid (PH) version for hybrids and electric vehicles (EVs). The EBC 460 uses a six-piston pump and applies an electronic stability control (ESC) technology that can deliver high levels of brake pressure rapidly. These premium systems offer a rapid apply function, particularly beneficial for automatic emergency braking. The PH version of the brake system also allows partial regenerative braking.
- In December 2012, TRW unveiled adaptive side airbag technology at the 11th International Symposium and Exhibition on Sophisticated Car Occupant Safety System in Karlsruhe (Germany). The airbag features a flexi adaptive vent which can help to enhance the protection of occupants depending on severities of different crashes. A tether mechanism inside the airbag can close the vent during a more severe crash where the intrusion level on the side of the vehicle is generally greater. This helps to maintain pressure in the airbag for a longer duration thus mitigating high severity impact.
- In December 2012, TRW displayed Active Buckle Lifter (ABL) seatbelt system at the 11th International Symposium and Exhibition on Sophisticated Car Occupant Safety System in Karlsruhe (Germany), which can help occupants to fasten their seatbelt by raising the buckle. The technology also helps occupants remove some slack in certain driving situations.
- In October 2012, ZF developed a new valve technology for its twin-tube damper portfolio. The valve technology is a combination of optimal handling with high driving comfort and enhanced noise characteristics. The preloaded valve includes a new preload element that marks the company's fourth generation of valve technology.
- In September 2012, TRW developed a new Electronic Horn System (EHS) which is activated by touching a conductive area on the steering wheel airbag cover. The new system was designed using fewer components such as springs, silver contact, screws and fixation, allowing the driver airbag to be fixed directly into the steering wheel resulting in improved fit and symmetry. Further, the airbag cover has a special coating that turns into a 3D electrical conductive surface which can detect the position of a finger or hand and send a signal to the ECU, resulting in horn actuation. No force is required to activate the system.
- In September 2012, ZF introduced new automatic transmission system called TraXon at the IAA Commercial Vehicles 2012 in Hanover (Germany). The transmission is also available in a hybrid drive module.
- In July 2012, TRW showcased new driver assistance systems (DAS) in Germany. Products include a new modular radar platform and next generation camera. These systems are expected to deliver 5 star rating under the new criteria of Euro New Car Assessment Programme (NCAP), and meet pedestrian safety criteria which came into force in 2014.
- In July 2012, TRW developed a pedestrian protection system (PPS) that uses a combination of acceleration and pressure sensing technologies to detect a pedestrian impact. It utilizes pressure sensor satellite data measured by flexible tubing that runs along the width of a vehicle's front bumper, in conjunction with up to three remote acceleration sensors to detect a pedestrian impact. The sensors detect an impact and pyrotechnic actuators then raise the rear area of the vehicle's hood to increase pedestrian head protection.
- In July 2012, TRW developed a seat belt technology called active seat belt presenter which assists the driver to reach the belt during the buckling up process. The new system can be directly installed on the height adjuster within the vehicles' B pillar. When a passenger is seated, a small arm will bring the seat belt forward for an

easier reach. As soon as the passenger takes the seat belt, the small arm will revert to its original position. This system is particularly useful for the elderly or less mobile passengers, also acting as the reminder to fasten the seat belt.

- In May 2012, TRW added more features to its integrated electronic control panel (IECP) technology. The company is further enhancing its IECP technology by integrating it with intuitive interfaces and customizable trim options such as projected graphics, reconfigurable icons, capacitive touch panel and display screen integration, touch pad with script recognition, capacitive touch sensing, color on demand, membrane switch technology, anti-finger print and anti-scratch surface technologies, and haptic integration.
- In May 2012, TRW launched the EBC 460 product under the Electronic Stability Control (ESC) systems family across Europe, North America, South America and Asia. The EBC 460 has a standardized product design together with advanced manufacturing capability across these regions.
- In April 2012, TRW unveiled touchpad technology development for the automotive industry. The technology includes capacitive touchpad sensor with integrated advanced handwriting recognition software which helps drivers and passengers coordinate and operate various functions in the vehicle.
- In March 2012, TRW developed a range of driver airbag modules made from bio-based materials. The material used to make airbags are made from regenerative raw materials that reduce interior emissions – the gases that are released at low levels from new materials – offering significant environmental advantages.
- In March 2012, TRW developed a second-generation scalable airbag control unit (ACU) that is being designed for low-cost vehicles and emerging markets. The company is developing two options of ACU, standard and enhanced. The standard ACU provides frontal crash protection with one to four squib outputs but no satellite interfaces. The standard unit can be upgraded for use in an enhanced safety system. The enhanced ACU supports up to 12 squibs and four satellite interfaces, providing front- and side-impact detection and protection. It was also designed to handle additional functional requirements that are in accordance with European and North American safety regulations. The unit also includes an option to add an inertial measurement unit such as electronic stability control (ESC) to the active safety system.
- In January 2012, TRW developed a multi-graphic rear projection display which allows consumers to control a variety of vehicle functions through a touch screen. The company developed the system through its Body Control Systems business. The system displays different symbols on any non-rectangular and/or curved surface applications of a vehicle in the same physical space at different times without requiring a graphics processor. The symbols for various functions automatically appear when a user touches the control panel surface and disappear after a few moments of inactivity. The panel surface is sleek and only a few millimeters thick which allows for easy packaging.
- In November 2011, TRW unveiled a next generation of adaptive frontal passenger airbags which are capable of adjusting airbag pressure and size. The adjustable dual contour passenger airbags significantly enhances occupant safety. TRW plans to further develop the dual contour airbags with a tether activation unit. The unit will comprise sensors which will determine occupant size and adjust the size and shape of the airbags.
- In November 2011, TRW decided to include advanced Passive Entry systems to its product portfolio. The system enables drivers to automatically unlock car doors when they come near the vehicle and lock it when the key fob holder moves away from the vehicle, without pressing key-fob buttons. This allows easy hands-free operation of a vehicle and is a step ahead of the traditional remote keyless entry system.
- In October 2011, TRW developed its next-generation tire pressure monitoring system (TPMS). The new TPMS is a hybrid system which uses a combination of sensing technologies to provide automatic location functionality. The system combines data from TPMS sensors and anti-lock braking system or wheel speed sensors to provide an auto-location function and notifies the driver about low pressure in tires.
- In October 2011, TRW developed a multi-axis acceleration sensor to significantly improve occupant safety and meet regulations. The sensors measure acceleration in more than one dimension simultaneously. In comparison, traditional sensors either measure longitudinal or lateral acceleration. Dual-axis sensors mounted on the B-Pillar offer enhanced sensing capabilities without the need of additional pressure or acceleration satellite sensor in the door cavities for FMVSS214 tests and the upcoming/proposed front small overlap impacts. Front dual-axis RAS with Y-axis sensing detects the lateral deformation of the vehicle sheet-metal around the pole and senses the impact. The company introduced the dual and multi-axis sensors for use in 2012 model year vehicles.
- In September 2011, TRW developed a Future Brake System (FBS), a vacuum independent modular brake system, for hybrid and electric vehicles. The system uses a fast motor similar to that employed within TRW's electrically powered steering system to meet the challenging braking requirements when vacuum is not available.
- In June 2011, TRW introduced additional features in its EPS system. The features are controlled by software in the EPS system and can be integrated with other systems in a vehicle. These include Pull Drift Compensation (PDC) which detects the vehicle's movement to one side through a suspension error or from a side wind or cambered road and makes automatic adjustments. Active Disturbance and Road Shake Compensation feature reduces vibration in the steering wheel due to uneven road conditions and imbalanced torque at the wheels. It also includes Torque Steer Compensation which balances movement of the front-wheel-drive vehicles caused by high engine torque. Further, Semi-Automatic Parking performs parallel parking of a vehicle when linked with proximity sensors and personalisation enables drivers to switch between different tuning of the steering system such as 'city mode', which would require less steering effort, or a standard mode for faster driving conditions requiring a stiffer steering feel. Other features include arbitration and limitation and variable ratio which help the vehicle be more responsive in different driving situations.
- In June 2011, ZF showcased its nine-speed automatic transmission (9HP) for cars with front-transverse drive at the International VDI Conference in Germany. With its two model ranges, it covers a torque range between 280 and 480Nm (207 and 354 lb-ft). The company developed nine-speed automatic transmission as a 'construction kit', with an additional transfer case can be connected for the all-wheel drive operation. To this

end, ZF developed an all-wheel drive that can be decoupled. It activates the rear axle drive only when it is required and thereby, saves 5% fuel compared with permanent all-wheel drive. Also, the transmission is stop-start capable without the need for an additional oil pump.

- In June 2011, TRW developed a range of curtain airbag technologies which would help reduce the risk of occupant ejection. The range includes one piece woven (OPW) curtain designs integrated with X-Tether technology that increases the stiffness of the inflated bag cushion and helps prevent the risk of occupant ejection. The inflated chambers of side curtain airbags are being designed in a seamless way that would allow the curtain airbags to be customised according to different vehicle specifications. Other technologies such as cold gas and hybrid inflators can also be combined with advanced bag coatings which would help in keeping the airbags inflated for several more seconds.
- In June 2011, TRW developed a folding steering wheel concept that helps the driver to easily get in or out of the driver's seat. The concept was developed on the basis of internal study at the company for future steering wheel requirements. The steering wheel is integrated with two retractable handles that close fully to create a smaller shape which fits into the dashboard. The steering wheel deploys when the vehicle is started. The position of the steering wheel can be pre-set by the driver.
- In April 2011, TRW introduced a new vacuum sensor to measure the vacuum level in brake boosters. The sensor will be incorporated in brake actuation systems in internal combustion engines which generate significant volumes of vacuum from the intake manifold. The vacuum will be used to increase the pressure of the brake fluid and actuate the brakes. TRW's brake actuation system consists of a brake booster and master cylinder.
- In March 2011, TRW developed an electric park brake (EPB) system for front axles. The company claims that the development makes the EPB technology more affordable for a wider range of vehicle segments, especially small vehicles. The front axle EPB system comes with a range of safety benefits along with space optimisation in the passenger compartment. This is achieved by the elimination of the handbrake lever or pedal.
- In February 2011, TRW Automotive introduced an improved safety system which combines the company's proprietary Automatic Emergency Braking (AEB) system with the Active Control Retractor (ACR) seatbelt technology. The system helps reinforce warning in emergency situations, improves occupant position with relation to the airbag and provides automatic braking support. The AEB provides braking support in emergency situations without driver intervention while the ACR helps maintain the position of the driver/passenger ahead of the airbag deployment.
- In January 2011, ZF equipped BMW's first hybrid vehicle 7 Series ActiveHybrid with 8-speed hybrid transmission along with the DynaStart electric motors (integrated into transmission) and the combustion engine. The vehicle also has dampers, suspension and electronic components as well as the electronic Active Roll Stabilisation (ARS) system from ZF.
- In January 2011, ZF equipped Audi's new hybrid version of A6. The vehicle featured ZF's 8-speed hybrid transmission. The A6 Hybrid is equipped with a 4-cylinder 2L gasoline engine and a 45hp electric motor from ZF. The hybrid transmission weighs 120kg, as much as the basic transmission since it does not include a torque converter. Audi's Q5 hybrid also features ZF's full hybrid transmission with fully integrated electric drive. The standard version of Q5 has axle drives, suspension and electronic components and a shift system from ZF, as well as a steering column from ZF Lenksysteme.
- In January 2011, ZF started serial development of 9-speed automatic transmission (AT) for cars with front-transverse drive. The transmission was showcased at July's International VDI Conference: Transmissions in Vehicles 2011 in Friedrichshafen (Germany). With two model ranges, it covers a torque range between 280 and 480Nm (207 and 354 lb-ft). Also, the transmission is stop-start capable without the need for an additional oil pump. It will be manufactured at ZF's plant in Greenville, South Carolina (US).
- In November 2010, TRW Automotive developed Belt Drive Electrically Powered Steering (EPS) technology for Ford vehicles in Europe. Ford will use the technology on its Focus platform including passenger cars and derivatives such as the Ford C-Max. The automaker installed the technology last year on the Ford Fusion, Mercury Milan and Lincoln MKZ in North America. The Belt Drive system consumes limited power when steering assist is required. The system consumes fuel of 0.3 to 0.4L/100km and reduces about 7-8g/km of CO2 emissions compared to hydraulic power steering.
- In October 2010, TRW Automotive launched Low Cost Clamp-In (LCCI) sensor for Tire Pressure Monitoring System (TPMS). The sensors were integrated in 2011 model year vehicles. The sensors would be low on cost due to a new design that features a single housing with capability of multiple valve design. The valve directly screws into the housing. Also, in the new design, the cover of the housing is laser welded and has a compliant pin battery and a valve connection. The design features heat resistant battery with an operating range of -40°C to 120°C. The sensor will initially be introduced in North America and later in Europe and South Korea.
- In September 2010, TRW Automotive developed a Dynamic Locking Tongue (DLT) technology for its seat belt systems. DLT consist of a seat belt tongue with a rotating cam and a concealed spring. It has a compact design and is lighter in weight. In the situation of hard braking or crash resulting in greater than 45 Newtons of force on the belt, the DLT clamps the webbing and works with the other seat belt technologies such as pretensioners and load limiters, that helps reduce the impact on the occupants' chest. The technology has been tested to comply with the Euro NCAP (New Car Assessment Program) and US-NCAP rating systems. TRW has launched DLT in North America and has received acceptance globally.
- In September 2010, ZF unveiled a new 6-speed manual transmission for use in bus. The new transmission is based on the company's EcoShift basic transmission and is designed to meet future market demands.
- In August 2010, TRW introduced the second generation Head Protection System for Convertibles (HPSC II). The new airbag system is more compact than the previous ones and subsequently lowers down overall weight. The HPSC II is integrated with the backrest bolster which does not require an integrated head rest. The system is more compatible to be used on a range of convertibles. The system operates in conjunction with the

torso protection system and works through a 20mm lightweight pyrotechnic gas inflator, which increases efficiency at a reduced cost.

- In July 2010, TRW launched Collision Mitigation Braking (CMB) technology to offer safety in the event of an accident. The system provides drivers with additional braking support to avoid a potential crash. The system uses a 24GHz radar to measure the distance and speed of objects in front of the vehicle. The system applies brake at a distance of six to seven meters if a potential collision is identified which reduces the vehicle speed by 20kph. A warning signal is generated to alert the driver. In case, the driver doesn't react to the warning, the system automatically applies a certain amount of brake to slow the speed of the vehicle. If the driver responds to the warning, the intensity of the brake pressure would be maximum.
- In June 2010, TRW introduced a seat-belt load limiting technology capable of automatically adjusting the force level according to varying passenger sizes. The new technology called Self-Adaptive Load Limiter (SALL) is a significant improvement over the conventional load limiters and could make use of the seatbelt system more effective. SALL operates without using sensors to collect data. The system is designed keeping in mind rear seat passengers. SALL has been integrated on new Mercedes Benz E-Class.
- In May 2010, TRW introduced two side impact airbag designs to improve occupant protection during accidents. These include 3D Side Airbag and the Inward Side Impact Airbag (SIAB). The design takes into consideration variables such as occupant size, seat position, and crash intensity to rapidly deploy airbags for occupants sitting on the sides. The airbag designs minimises the time gap between the crash sensing and contact with the passenger. The inward SIAB airbags are deployed through a seam in the seat and uses the seat foam as an additional cushion. The 3D Side airbag covers a larger contact area and deploys rapidly. It could be further set to work on lower pressures.
- In February 2010, TRW introduced its first Electronic Stability Control (ESC) system integrated with an inertial measurement unit (IMU) on the Lancia Delta of Fiat. The new system is intended to reduce the cost, weight and complexity of the electronic architecture of the vehicle. The IMU measures the motion of the vehicle through sensors while the ESC system is a technology that improves the vehicle safety by detecting and minimising skids. The integrated design also provides a convenient scalable solution for vehicle manufacturers wishing to offer both ABS and ESC braking systems within a model range. Besides ESC, TRW has also developed an Airbag Control Unit (ACU) with the IMU integration.

Financial Overview

ZF Friedrichshafen reported a 45% year-on-year increase in net profit to EUR672 million (USD816 million, 31 December 2014) in financial year ended 31 December 2014. Sales for the period totalled EUR18.4 billion (USD22.4 billion), up 9% y/y. Higher sales helped the company to post 36% y/y increase in earnings before interest and taxes (EBIT) to EUR1.1 billion (USD1.3 billion).

Geographically, North America and Asia-Pacific contributed the maximum growth to 2014 sales with 21% y/y increase in each region to EUR3.7 billion (USD4.5 billion) and EUR3.6 billion (USD4.4 billion), respectively. Sales from Europe rose 5% y/y to EUR10.3 billion (USD12.5 billion), accounting for 56% of total sales. In 2014, the company invested around EUR1 billion (USD1.2 billion) in plant equipment and property.

At the end of 2014, the ZF Group had a global workforce of 71,402 employees (41,188 in Germany). The company created around 3,200 additional jobs worldwide. By selling the Rubber & Plastics business unit consisting of 3,500 employees and the South African subsidiary AIBC with almost 900 employees, the total number of employees dropped by approximately 4,400. In 2014, ZF spent EUR 891 million (USD1 billion) on research and development (R&D), which is 7% more compared to the previous year.

Furthermore, the company's net financial position stayed positive at EUR1.4 billion (USD1.7 billion), up 37% y/y.

Financial Figures - displayed in \$

Year	Net Sales [m]	Operating Income [m]	Net Income [m]	R&D Expenditure [m]	Employees
2014	22,400.00	1,300.00	816.00	1,000.00	71402
2013	23,177.80	1,040.70	636.00	1,104.80	68236
2012	20,517.30	788.90	436.10	1,017.50	68406
2011	20,081.80	1,100.60	699.20	976.30	71488
2010	17,103.70	901.10	587.00	856.00	64600

Outlook

The German supplier continues to rely heavily on the European market. In contrast, vehicle demand is projected to remain robust in North America for the rest of this decade. With the acquisition of US-based TRW, the combined entity will be better positioned to deal with demand fluctuation in these two key markets. The acquisition will more than double its sales in the United States and China, the combined group will generate about half its overall sales in Europe and the remaining half in North America, Asia-Pacific, and the rest of the world. Meanwhile, ZF TRW's decision to sell off a profitable sector of its business (engineered fasteners and components) will help further primarily focus on its core businesses in advanced safety, efficiency, electrification and furthering development of automated driving solutions.

ZF TRW expects higher demand for centre airbags as automakers focus on improving occupant safety. The focus so

far has mainly been on reducing frontal and rear impacts. However, risk to far-side occupants during side impact crash is also very high. Safety rating agency Euro NCAP is assessing new side impact test protocols for 2018 and later. This, if approved, could drive demand for centre airbags in coming years.

ZF has a sales target for 2015 between EUR29 billion and USD30 billion (USD31 billion and USD33 billion). The company has confirmed these targets on the back of positive developments in the North American region from the previous year. The company also sees some European countries such as Spain and Great Britain growing, along with China, despite the region's "reduced dynamics". The company notes the existing slump in Brazil and Russia.

Manufacturing Plants

Argentina

ZF Sachs Argentina S.A.

Address: Av. de la Universidad 51
San Francisco
Córdoba
2400
Argentina

Products: Shock absorbers
Suspension parts

Tel: +54 3564 438900

Fax: +54 3564 438938

Web: <http://www.zf.com>

Latitude: -31.4257656

Longitude: -62.1103991

Australia

ZF Lemforder Australia Pty. Ltd.

Address: 35 Woomera Road
Edinburgh
South Australia
5111
Australia

Products: Axles
Steering system
Suspension system

Tel: +61 8 8259 0999

Fax: +61 8 8259 0990

Web: <http://www.zf.com>

Latitude: -34.7405405

Longitude: 138.6414675

Austria

ZF Lemförder Achssysteme Ges.m.b.H

Address: Parking 1
Lebring
8403
Austria

Products: Axles
Corner modules

Tel: +43 3182 49095 300

Fax: +43 3182 49095 333

Web: <http://www.zf.com>

Latitude: 46.8507212

Longitude: 15.5274004

ZF Steyr Präzisionstechnik Ges.m.b.H.

Address: Schönaauerstraße 5
Steyr
4400
Austria

Products: Axles
Miscellaneous
Transmission & parts

Tel: +43 7252 580 0

Fax: +43 7252 580 753

Web: <http://www.zf.com>

Latitude: 48.0389142

Longitude: 14.4266904

Brazil

SM Sistemas Modulares Ltda.

Address: Av. dos Bandeirantes, 5800
Taubaté
São Paulo
12031-770
Brazil

Products: Brake system

Tel: +55 12 3609 9440

Fax: +55 12 3609 9434

Web: <http://www.trw.com>

Latitude: -23.044838

Longitude: -45.5856705

TRW Automotive Ltda. - Diadema Plant

Address: Av. Fagundes de Oliveira
1680, Vila Sao Jose
Diadema
Sao Paulo
09950-906
Brazil

Tel: +55 11 4070 8800

Fax: +55 11 4070 8921

Web: <http://www.trw.com>

Latitude: -23.6805299

Longitude: -46.5831671

Products: Control units [electrical & electronics]
Control units [steering system]
Electronics
Hvac module
Lock systems [doors/tailgate]
Miscellaneous
Sensors [safety system/driver assistance]
Switches [electrical & electronics]

TRW Automotive Ltda. - Engenheiro Coelho Plant

Address: Rodovia S.P. 332, Km. 164
Caixa Postal 31
Engenheiro Coelho
Sao Paulo
13165-970
Brazil

Tel: +55 19 3858 5030

Fax: +55 19 3858 5025

Web: <http://www.trw.com>

Latitude: -22.4371458

Longitude: -47.1867982

Products: Brake system
Disc brake
Engine/powertrain mounts
Miscellaneous
Wheel components

TRW Automotive Ltda. - Limeira Plant

Address: Via Anhanguera, Km. 147
Caixa Postal 155
Limeira
Sao Paulo
13486-915
Brazil

Tel: +55 19 3404 1120

Fax: +55 19 3404 1455

Web: <http://www.trw.com>

Latitude: -22.6490392

Longitude: -47.3257546

Products: Brake system
Electric steering system
Electronics
Miscellaneous
Safety [miscellaneous]
Suspension modules
Valvetrain [engines & engine components]

TRW Automotive Ltda. - Lavras Plant

Address: Rua Durval da Costa Alves Ribeiro
432 Distrito Industrial
Lavras
Mnas Gerais
37200-000
Brazil

Tel: +55 35 3829 7070

Fax: +55 35 3829 7035

Web: <http://www.trw.com>

Latitude: -21.2484875

Longitude: -45.0013747

Products: Miscellaneous
Steering system

ZF do Brasil Ltda. - Araraquara Plant

Address: Rodovia Washington Luiz, Km 271
Rua Sachs, 555
Araraquara
Sao Paulo
BR-14800-655
Brazil

Tel: +55 16 2108 8300

Fax: +55 16 2108 8306

Web: <http://www.zf.com>

Latitude: -21.8134524

Longitude: -48.1856857

Products: Clutch
Clutch components
Miscellaneous

ZF do Brasil Ltda. - Sorocaba Plant-I

Address: Rua Doutor Jürgen Ulderup 541
Sorocaba
Sao Paulo
18103-017
Brazil
Tel: +55 15 4009 7105
Fax: +55 15 4009 7070
Web: <http://www.zf.com>
Latitude: -23.4290355
Longitude: -47.3920908

Products: Automated manual transmission
Automatic transmission
Axles
Manual transmission
Miscellaneous
Pumps [miscellaneous]

ZF do Brasil Ltda. - Sorocaba Plant-II

Address: Av. Conde Zeppelin, 1935
Sorocaba
Sao Paulo
18103-905
Brazil
Tel: +55 15 4009 2525
Fax: +55 15 4009 3110
Web: <http://www.zf.com>
Latitude: -23.432694
Longitude: -47.3950085

Products: Automated manual transmission
Automatic transmission
Axles
Manual transmission
Miscellaneous
Pumps [miscellaneous]

ZF do Brasil Ltda. - São Bernardo do Campo Plant

Address: Avenida Piraporinha
1000 Jordãoópolis
São Bernardo do Campo
Sao Paulo
CEP 09891-901
Brazil
Tel: +55 11 3343 3000
Fax: +55 11 3343 3205
Web: <http://www.zf.com>
Latitude: -23.6898429
Longitude: -46.5648481

Products: Clutch
Clutch system
Engine parts
Miscellaneous

Canada

TRW Canada Limited - Plant-I

Address: 140 Bay St.
Midland
Ontario
L4R 4L5
Canada
Tel: +1 705 526 8791
Fax: +1 705 527 6232
Web: <http://www.trw.com>
Latitude: 44.758401
Longitude: -79.87244

Products: Airbags module
Miscellaneous
Occupant classification system
Seat belts

TRW Canada Limited - Plant-II

Address: 16643 Highway 12
Midland
Ontario
L4R 4L5
Canada
Tel: +1 705 526 8791
Fax: +1 705 527 6232
Web: <http://www.trw.com>
Latitude: 44.7501584
Longitude: -79.8869806

Products: Airbags module
Miscellaneous
Occupant classification system
Seat belts

TRW Canada Limited - Tillsonburg Plant

Address: 101 Spruce St.
Tillsonburg
Ontario
N4G 4J1
Canada

Tel: +1 519 688 4200
Fax: +1 519 842 7281
Web: <http://www.trw.com>
Latitude: 42.8617224
Longitude: -80.7257727

Products: Miscellaneous
Stabiliser/anti roll bars
Steering system
Suspension control arms

Kelsey-Hayes Canada Limited - Woodstock Plant

Address: 155 Beard's Ln.
Woodstock
Ontario
N4S 7X8
Canada

Tel: +1 519 537 2331
Fax: +1 519 421 3769
Web: <http://www.trw.com>
Latitude: 43.1289588
Longitude: -80.7563432

Products: Disc brake
Drum brake
Wheel components

TRW Canada Limited - Windsor Module Plant

Address: 3355 Munich Court
Windsor
Ontario
N8N 5G2
Canada

Tel: +1 519 688 4200
Web: <http://www.trw.com>
Latitude: 42.2904516
Longitude: -82.9209

Products: Brake system
Suspension system

China**CSG TRW Chassis System Co. Ltd. - Nanjing Plant**

Address: No. 4 Road, North of Downtown
Li Shui Economic Development Zone
Nanjing
211200
China

Tel: +86 25 5623 0100
Fax: +86 25 5623 0123
Web: <http://www.trw.com>
Latitude: 31.643468
Longitude: 119.032396

Products: Brake system

CSG TRW Chassis Systems Co. Ltd. - Chongqin Plant

Address: 9-1 Hongyu Road
Bishan County
Chongqin
402760
China

Tel: +86 23 4558 7532
Fax: +86 23 4558 7509
Web: <http://www.trw.com>
Latitude: 29.581767
Longitude: 106.236739

Products: Brake calipers
Brake master cylinders/boosters
Brake modules
Brake system
Brakes
Chassis components
Disc brake
Drum brake
Steering system

LucasVarity Langzhong Brake Company Limited

Address: No. 16 Xiangyun Road
Langfang
Hebei Province
65001
China

Products: Brake calipers
Brake system
Brakes

Tel: +86 316 607 3100
Fax: +86 316 608 9981
Web: <http://www.trw.com>
Latitude: 39.569417
Longitude: 116.789223

Sachs Automotive Components & Systems Shanghai Co. Ltd.

Address: 4440 Yuanjiang Road
Mnhang
Shanghai
201111
China

Products: Clutch
Miscellaneous
Nvh control components
Shock absorbers

Tel: +86 21 2416 9544
Fax: +86 21 2416 9401
Web: <http://www.zf.com>
Latitude: 31.043843
Longitude: 121.38213

Shanghai Sachs Huizhong Shock Absorber Co. Ltd.

Address: No. 280 Shenwang Road
Xinzhuang Industrial Zone
Shanghai
Shanghai
201108
China

Products: Shock absorbers
Shocks/struts

Tel: +86 21 5179 5188
Fax: +86 21 5179 2102
Web: <http://www.zf.com>
Latitude: 31.0853528
Longitude: 121.3837919

Shanghai Sachs Powertrain Components Systems Co. Ltd.

Address: 3189 Jihe Road
Huaxin Town
Qingpu
Shanghai
201708
China

Products: Clutch
Miscellaneous
Torque converter

Tel: +86 21 5979 6666
Fax: +86 21 5979 5141
Web: <http://www.zf.com>
Latitude: 31.2387444
Longitude: 121.2466153

Shanghai TRW Automotive Safety Systems Co., Ltd.

Address: 168 Yuanyao Road
Anting
Jiading
Shanghai
201805
China

Products: Airbags module
Occupant classification system
Seat belts

Tel: +86 21 6142 2000
Fax: +86 21 6142 2001
Web: <http://www.trw.com>
Latitude: 31.324343
Longitude: 121.199372

TRW Ningbo Components and Fastening Systems Co., Ltd.

Address: No. 333, Batou West Road
Beilun District
Ningbo
Zhejiang
315806
China

Products: Fasteners/fixings [miscellaneous]
Miscellaneous

Tel: +86 574 8790 1958
Fax: +86 574 8790 1978
Web: <http://www.trw.com>
Latitude: 29.8909608
Longitude: 121.7891869

TRW Automotive Components (Shanghai) Co., Ltd. - Plant-I

Address: No. 289, Zhongbai Road
Anting Town
Jiading
Shanghai
201814
China

Products: Steering system

Tel: +86 21 3957 5000
Fax: +86 21 5950 2567
Web: <http://www.trw.com>
Latitude: 31.3046952
Longitude: 121.2467327

TRW Automotive Components (Shanghai) Co., Ltd. - Plant-II

Address: No. 188 Bai'an Road
Anting Town
Jiading
Shanghai
201814
China

Products: Brake system
Electronics
Occupant classification system
Steering system

Tel: +86 21 3957 5000
Fax: +86 21 5950 2200
Web: <http://www.trw.com>
Latitude: 31.3162476
Longitude: 121.2013171

TRW Automotive Component Systems (TACS) Wuhan

Address: No. 169 North Quanli Road
Wuhan Economic & Technology
Development Zone
Wuhan
Hubei Province
430058
China

Products: Brake system
Miscellaneous
Occupant classification system

Tel: +86 27 5936 5100
Fax: +86 27 5936 5101
Web: <http://www.trw.com>
Latitude: 30.462051
Longitude: 114.06955

TRW Automotive Components (Suzhou) Co., Ltd.

Address: 18, Huayuan Road
Xiangcheng Economy & Development
Zone
Suzhou
Jiangsu
215131
China

Products: Electronics
Lock systems [steering system]
Sensors [safety system/driver assistance]
Switches [electrical & electronics]
Switches [lighting]
Switches [steering system]

Tel: +86 512 6615 2510
Fax: +86 512 6580 1701
Web: <http://www.trw.com>
Latitude: 31.3754295
Longitude: 120.6437981

TRW Dongfang (Xian) Airbag Inflator Co., Ltd.

Address: No. 3 North of Weihua Road
Jingwei Xin Cheng
Xi'an Economical and Technological
Development Zone
Xi'an City
710201
China

Products: Airbags module
Miscellaneous
Occupant classification system
Seat belts

Tel: +86 29 8605 7888
Fax: +86 29 8605 7866
Web: <http://www.trw.com>
Latitude: 34.4360805
Longitude: 108.9651347

TRW Fawer Automobile Safety Systems (Changchun) Co., Ltd.

Address: 4579 Guigu St.
Changchun
Jilin Province
130012
China

Products: Airbags module
Brake system
Chassis modules
Miscellaneous
Steering wheel

Tel: +86 431 8554 2609
Fax: +86 431 8554 2600
Web: <http://www.trw.com>
Latitude: 43.8328362
Longitude: 125.2878713

TRW Fawer Commercial Vehicle Steering (Changchun) Co., Ltd.

Address: 4789 Dongnanhu St.
Changchun
Jilin Province
130033
China

Products: Miscellaneous
Steering gear
Steering system

Tel: +86 431 8705 3500
Fax: +86 431 8705 3501
Web: <http://www.trw.com>
Latitude: 43.845726
Longitude: 125.375242

ZF Fawer Chassis Technology (Changchun) Co. Ltd.

Address: No. 5000 East Nanhu Road
Changchun
Jilin Province
130033
China

Products: Chassis components
Chassis modules
Differential parts
Miscellaneous
Stabiliser/anti roll bars
Suspension control arms

Tel: +86 431 8580 0808
Fax: +86 431 8580 0908
Web: <http://www.zf.com>
Latitude: 43.8517496
Longitude: 125.384155

ZF Chassisteck Commercial Vehicles (Shanghai) Co. Ltd.

Address: No. 1088 North Huancheng Road
Fengxian
Shanghai
201401
China

Products: Engine parts
Miscellaneous
Stabiliser/anti roll bars
Steering components
Steering system
Suspension ball joints
Suspension control arms
Suspension system

Tel: +86 21 6758 8600
Fax: +86 21 6758 8500
Web: <http://www.zf.com>
Latitude: 30.9517486
Longitude: 121.4238515

ZF Dongfeng Shock Absorber Shiyan Co. Ltd.

Address: No. 49, Bailang East Road
Bailang Hi-Tech Development Zone
Shiyan
Hubei Province
442013
China

Products: Clutch
Shock absorbers
Suspension modules
Torque converter

Tel: +86 719 8257 006
Fax: +86 719 8287 371
Web: <http://www.zf.com>
Latitude: 32.5696789
Longitude: 110.9075599

ZF Drivetech (Hangzhou) Co. Ltd.

Address: 18, Hi-Tech Ba Road
Xiaoshan Economic & Technological
Development Zone
Hangzhou
Zhejiang
311231
China

Products: Axles
Miscellaneous
Transmission & parts

Tel: +86 571 2289 2002
Fax: +86 571 2289 6673
Web: <http://www.zf.com>
Latitude: 30.2408612
Longitude: 120.30649

ZF Electronics (Zhuhai) Co. Ltd.

Address: No. 1, Lyuan Road
Nanping S&T Industrial Park
Zhuhai Avenue E
Zhuhai
Guangdong Province
519060
China

Products: Miscellaneous
Pressed/stamped parts
Sensors [safety system/driver assistance]
Switches [electrical & electronics]

Tel: +86 756 891 0688
Fax: +86 756 891 0666
Web: <http://www.zf.com>
Latitude: 22.2136143
Longitude: 113.4597641

ZF Lemförder Automotive Systems (Shenyang) Co., Ltd.

Address: No. 8A-3, Kaifa Ave
Shenyang Economic & Technological
Development Zone
Shenyang
Liaoning Province
110141
China

Products: Axles
Chassis components
Electronics
Gear shift system
Miscellaneous

Tel: +86 24 2534 8116
Fax: +86 24 2537 0930
Web: <http://www.zf.com>
Latitude: 41.7805996
Longitude: 123.3059012

ZF Lemförder Shanghai Chassisteck Co. Ltd.

Address: No. 1088, North Huancheng Road
Fengxian Town
Songjiang Qu
Shanghai
201041
China

Products: Chassis components
Fasteners/fixings [miscellaneous]
Stabiliser/anti roll bars
Steering components
Suspension ball joints
Suspension control arms
Wheel components

Tel: +86 21 6758 8888
Fax: +86 21 6758 8999
Web: <http://www.zf.com>
Latitude: 30.922019
Longitude: 121.30804

ZF Powertrain Modules Shanghai Co., Ltd.

Address: No.1139, Huazhi Road
Qingpu
Shanghai
201708
China

Products: Automated manual transmission
Dual mass flywheel
Miscellaneous
Torque converter

Tel: +86 21 6700 2410

Fax: +86 21 6700 2485

Web: <http://www.zf.com>

Latitude: 31.2315372

Longitude: 121.2226308

ZF Transmissions Shanghai Co. Ltd.

Address: 649 Huiwang Road
Jiading
Shanghai
201807
China

Products: Automatic transmission
Miscellaneous

Tel: +86 21 6708 9888

Fax: +86 21 6708 9870

Web: <http://www.zf.com>

Latitude: 31.391292

Longitude: 121.189748

Czech Republic

LucasVarity s.r.o.

Address: Na Roli 26
Jablonec nad Nisou
466 21
Czech Republic

Products: Brake system
Miscellaneous

Tel: +420 483 354 100

Fax: +420 483 354 104

Web: <http://www.trw.com>

Latitude: 50.7335965

Longitude: 15.1647543

TRW Autoelektronika s.r.o.

Address: Jana Feit 2048
Benesov
256 01
Czech Republic

Products: Electronics
Fuse/relay/junction box
Miscellaneous

Tel: +420 317 972 111

Fax: +420 317 972 387

Web: <http://www.trw.com>

Latitude: 49.7837821

Longitude: 14.6873698

TRW Carr s.r.o. - Stara Boleslav Plant

Address: Hlavenec 12
Stara Boleslav
CZ-250 02
Czech Republic

Products: Handles/latches [doors/tailgate - vehicle area undefined]
Lock systems [doors/tailgate]
Miscellaneous
Occupant classification system
Seat belts

Tel: +420 326 553 222

Fax: +420 326 553 292

Web: <http://www.trw.com>

Latitude: 50.2384644

Longitude: 14.7017983

TRW Carr s.r.o. - Mlada Boleslav Plant

Address: Repov 184
Mlada Boleslav
CZ-293 01
Czech Republic

Products: Fasteners/fixings [miscellaneous]
Miscellaneous

Tel: +420 326 373 737

Fax: +420 326 330 007

Web: <http://www.trw.com>

Latitude: 50.4053836

Longitude: 14.9550773

TRW Volant a.s.

Address: Nachodska 116/208
Prague 9
Horní Počernice
193 21
Czech Republic

Tel: +420 227 080 101

Fax: +420 227 080 199

Web: <http://www.trw.com>

Latitude: 50.117204

Longitude: 14.6282976

Products: Occupant classification system
Steering wheel

ZF Electronics Klášterec spol. Ltd.

Address: Osvobozená 780
Klášterec nad Ohří
43151
Czech Republic

Tel: +420 474 359111

Fax: +420 474 359180

Web: <http://www.zf.com>

Latitude: 50.3890392

Longitude: 13.1964088

Products: Electronics
Miscellaneous

France

Autocruise SAS

Address: ZAC Technopole Brest-Iroise Pointe du
Diable
Sector Avenue Technopole
Plouzane
29280
France

Tel: +33 2 98 45 43 68

Fax: +33 2 98 49 56 55

Web: <http://www.zf.com>

Latitude: 48.381438

Longitude: -4.620404

Products: Electronics

TRW Carr France SAS

Address: Zone Industrielle
Ingwiller
67340
France

Tel: +33 3 88 89 47 54

Fax: +33 3 88 89 65 68

Web: <http://www.trw.com>

Latitude: 48.8686745

Longitude: 7.4699011

Products: Fasteners/fixings [miscellaneous]
Miscellaneous

TRW Braking Systems SAS

Address: 1 Avenue de la Gare
Bouzonville
57320
France

Tel: +33 3 87 78 21 11

Fax: +33 3 87 78 24 00

Web: <http://www.trw.com>

Latitude: 49.2925297

Longitude: 6.5259729

Products: Abs/esc
Brake system
Brakes
Hybrid system
Miscellaneous

ZF Bouthéon SA

Address: 4, Boulevard Pierre Desgranges
Andrezieux
Cedex
42166
France

Tel: +33 4 7736 3333

Fax: +33 4 7736 3378

Web: <http://www.zf.com>

Latitude: 45.5398883

Longitude: 4.2735101

Products: Automated manual transmission
Gear shift system
Gearbox
Miscellaneous

ZF Fonderie Lorraine SAS

Address: Rue de la République
57214 Sarreguemines
Grosbliederstroff
Cedex
BP 41002
France

Tel: +33 3 87273000

Fax: +33 3 87273001

Web: <http://www.zf.com>

Latitude: 49.1510722

Longitude: 7.0307309

Products: Miscellaneous

ZF Lemförder Metal France, SAS

Address: 1, Rue Pascal

Florange
Cedex
57192
France

Tel: +33 3 82591282

Fax: +33 3 82591289

Web: <http://www.zf.com>

Latitude: 49.3109805

Longitude: 6.1342614

Products: Chassis components
Miscellaneous
Stabiliser/anti roll bars
Steering components
Suspension ball joints

ZF PWK Mécacentre SAS

Address: 18, Rue Edouard Martel
Saint Etienne
Cedex
42012
France

Tel: +33 4 77818630

Fax: +33 4 77818631

Web: <http://www.zf.com>

Latitude: 45.4184983

Longitude: 4.3801604

Products: Chassis components
Miscellaneous
Stabiliser/anti roll bars

Germany

GAT - Gesellschaft für Antriebstechnik mbH

Address: Konrad-Zuse-Straße 3
Alsdorf
52477
Germany

Tel: +49 2404 9875/0

Fax: +49 2404 9875/529

Web: <http://www.zf.com>

Latitude: 50.87993

Longitude: 6.21725

Products: Miscellaneous
Powertrain assembly

Lemförder Electronic GmbH

Address: Postfach 1191
Espelkamp
32325
Germany

Tel: +49 5772 567 200
Fax: +49 5772 567 210
Web: <http://www.zf.com>
Latitude: 52.3814709
Longitude: 8.6209707

Products: Electronics
Miscellaneous
Seats
Steering wheel

TRW Airbag Systems GmbH - Daimler Plant

Address: Daimler-Benz Allee 1
Laage
18299
Germany

Tel: +49 38459 940
Fax: +49 38459 947109
Web: <http://www.trw.com>
Latitude: 53.9307859
Longitude: 12.3033863

Products: Airbags module
Occupant classification system
Seat belts
Steering wheel

TRW Airbag Systems GmbH - Wernher Plant

Address: Wernher-von-Braun-Strasse 1
Aschau
Inn
84544
Germany

Tel: +49 8638 9650
Fax: +49 8638 9651169
Web: <http://www.trw.com>
Latitude: 48.19174
Longitude: 12.36479

Products: Airbags module
Electronics
Miscellaneous
Occupant classification system

TRW Automotive Electronics & Components GmbH - Giesen Plant

Address: Industriestrasse 1
Giesen
Emmerke
31180
Germany

Tel: +49 5121 93010
Fax: +49 5121 930188
Web: <http://www.trw.com>
Latitude: 52.16205
Longitude: 9.86035

Products: Air conditioning parts
Chassis components
Fasteners/fixings [interior]
Fasteners/fixings [miscellaneous]
Fasteners/fixings [wiring]
Interior trim
Miscellaneous
Overhead module/system
Plugs
Safety [miscellaneous]

TRW Automotive Electronics & Components GmbH - Enkenbach Plant

Address: Am Pulverhaeuschen 7
Enkenbach
Alsenborn
67677
Germany

Tel: +49 6303 8050
Fax: +49 6303 5115
Web: <http://www.trw.com>
Latitude: 49.48469
Longitude: 7.88872

Products: Electronics
Miscellaneous

TRW Automotive Electronics & Components GmbH - Radolfzell Plant

Address: Industriestrasse 2-8
Radolfzell
78315
Germany

Tel: +49 7732 8090
Fax: +49 7732 809214
Web: <http://www.trw.com>
Latitude: 47.7395506
Longitude: 8.9499441

Products: Control units [electrical & electronics]
Control units [steering system]
Electronics
Hvac module
Miscellaneous
Switches [electrical & electronics]

TRW Automotive GmbH - Gelsenkirchen Plant

Address: 2-28 Freiligrathstrasse
Gelsenkirchen
45881
Germany

Tel: +49 209 80020
Fax: +49 209 8002271
Web: <http://www.trw.com>
Latitude: 51.5343196
Longitude: 7.0781034

Products: Brake parts
Brake system
Control units [electrical & electronics]
Electric steering system
Miscellaneous
Safety [miscellaneous]
Steering system

TRW Automotive GmbH - Alfdorf Plant

Address: Industriestrasse 20
Alfdorf
73553
Germany

Tel: +49 7172 3020
Fax: +49 7172 3021233
Web: <http://www.trw.com>
Latitude: 48.84462
Longitude: 9.73593

Products: Abs/esc
Airbags module
Brake parts
Brake shoes
Brake system
Control units [electrical & electronics]
Disc brake
Disc brake pads
Electric steering system
Miscellaneous
Safety [miscellaneous]
Seat belts
Seat components
Steering system
Steering wheel

TRW Automotive Safety Systems GmbH

Address: Hefner-Altenneck Strasse 11
Aschaffenburg
63743
Germany

Tel: +49 6021 3140
Fax: +49 6021 3141 299
Web: <http://www.trw.com>
Latitude: 49.96713
Longitude: 9.1524

Products: Airbags module
Safety [miscellaneous]
Seat belts
Steering wheel

TRW Engineered Fasteners & Components Selb GmbH

Address: Am Schreinersteich 4
Selb
95100
Germany

Tel: +49 9287 99650
Fax: +49 9287 9965165
Web: <http://www.trw.com>
Latitude: 50.17397
Longitude: 12.14814

Products: Interior trim
Miscellaneous

ZF Friedrichshafen AG - Auerbach Plant

Address: Cherrysstraße 1
Auerbach
91275
Germany

Tel: +49 9643 18 0
Fax: +49 9643 18 1262
Web: <http://www.zf.com>
Latitude: 49.68549
Longitude: 11.62484

Products: Control units [electrical & electronics]
Electronics
Miscellaneous
Sensors [safety system/driver assistance]
Switches [electrical & electronics]

ZF Friedrichshafen AG - Bad Neuenahr-Ahrweiler Plant

Address: Max-Planck-Straße 17
Bad Neuenahr-Ahrweiler
53474
Germany

Tel: +49 2641 3891 0
Fax: +49 2641 3891 57
Web: <http://www.zf.com>
Latitude: 50.5438687
Longitude: 7.1098961

Products: Clutch
Clutch disc
Gearbox
Hoses/pipes [transmission]
Suspension parts
Torque converter

ZF Friedrichshafen AG - Bayreuth Plant

Address: Am Briefzentrum 2
Bayreuth
95448
Germany

Products: Electronics
Miscellaneous

Tel: +49 921 79206 0
Fax: +49 921 79206 329
Web: <http://www.zf.com>
Latitude: 49.91307
Longitude: 11.60799

ZF Friedrichshafen AG - Bielefeld Plant

Address: Windelsbleicher Straße 80
Bielefeld
Brackwede
33647
Germany

Products: Powertrain assembly

Tel: +49 521 41703 0
Fax: +49 521 41703 39
Web: <http://www.zf.com>
Latitude: 51.97862
Longitude: 8.5178

ZF Friedrichshafen AG - Brandenburg Plant

Address: Car Powertrain Technology
Brandenburg an der Havel
14767
Germany

Products: Manual transmission

Tel: +49 3381 37 0
Fax: +49 3381 37 2030
Web: <http://www.zf.com>
Latitude: 52.4125287
Longitude: 12.5316444

ZF Friedrichshafen AG - Diepholz Plant-I

Address: Siemensstraße 4
Diepholz
49356
Germany

Products: Gear shift system
Miscellaneous
Transmission & parts

Tel: +49 5474 60 0
Fax: +49 5474 60 3709
Web: <http://www.zf.com>
Latitude: 52.59323
Longitude: 8.34474

ZF Friedrichshafen AG - Diepholz Plant-II

Address: Dr.-Jürgen-Ulderup-Straße 11
Diepholz
49356
Germany

Products: Axle parts
Axles
Chassis components

Tel: +49 5474 60 0
Fax: +49 5474 60 3709
Web: <http://www.zf.com>
Latitude: 52.59162
Longitude: 8.34406

ZF Friedrichshafen AG - Diepholz Plant-III

Address: Dr.-Jürgen-Ulderup-Straße 11
Diepholz
49356
Germany

Products: Chassis components

Tel: +49 5474 60 0
Fax: +49 5474 60 3509
Web: <http://www.zf.com>
Latitude: 52.59162
Longitude: 8.34406

ZF Friedrichshafen AG - Eitorf Plant

Address: Bogenstraße 50
Eitorf
53783
Germany
Tel: +49 2243 12 0
Fax: +49 2243 12 234
Web: <http://www.zf.com>
Latitude: 50.7699912
Longitude: 7.4642502

Products: Suspension parts

ZF Friedrichshafen AG - Friedrichshafen Plant-I

Address: Ehlersstraße 50
Friedrichshafen
88038
Germany
Tel: +49 7541 77 0
Fax: +49 7541 77/908000
Web: <http://www.zf.com>
Latitude: 47.66046
Longitude: 9.49178

Products: Automated manual transmission
Gear shift system
Manual transmission
Miscellaneous
Torque management devices
Transmission & parts

ZF Friedrichshafen AG - Gotha Plant

Address: Passauer Straße 1
Gotha
99867
Germany
Tel: +49 3621 311/0
Fax: +49 3621 311/4612
Web: <http://www.zf.com>
Latitude: 50.9585225
Longitude: 10.719619

Products: Axles

ZF Friedrichshafen AG - Neunkirchen Plant

Address: Heidenhübel
Werk 5
Neunkirchen
66539
Germany
Tel: +49 681 920 0
Fax: +49 681 920 2377
Web: <http://www.zf.com>
Latitude: 49.3478564
Longitude: 7.2296334

Products: Gears
Miscellaneous
Wheels

ZF Friedrichshafen AG - Saarbrücken Plant-I

Address: Untertürkheimer Strasse 4
Werk 2
Saarbrücken
66117
Germany
Tel: +49 681 920 2497
Fax: +49 681 920 2388
Web: <http://www.zf.com>
Latitude: 49.21293
Longitude: 6.97308

Products: Automatic transmission

ZF Friedrichshafen AG - Saarbrücken Plant-II

Address: Untertürkheimer Str. 12
Werk 3
Saarbrücken
66117
Germany
Tel: +49 681 920 0
Fax: +49 681 920 2377
Web: <http://www.zf.com>
Latitude: 49.2115612
Longitude: 6.9792554

Products: Automatic transmission

ZF Friedrichshafen AG - Schweinfurt Plant-I

Address: Röntgenstraße 2
Schweinfurt
97424
Germany
Tel: +49 9721 98 0
Fax: +49 9721 98 2290
Web: <http://www.zf.com>
Latitude: 50.02661
Longitude: 10.22602

Products: Suspension parts

ZF Friedrichshafen AG - Schweinfurt Plant-II

Address: Ernst-Sachs-Straße 62
Schweinfurt
97424
Germany
Tel: +49 9721 98 0
Fax: +49 9721 98 2290
Web: <http://www.zf.com>
Latitude: 50.0317897
Longitude: 10.2120988

Products: Powertrain assembly
Suspension parts

ZF Friedrichshafen AG - Thyrnau Plant

Address: Graf-Zeppelin-Straße 1
Thyrnau
94136
Germany
Tel: +49 851 494 0
Fax: +49 851 494 4854
Web: <http://www.zf.com>
Latitude: 48.60595
Longitude: 13.53994

Products: Axles

ZF Race Engineering GmbH

Address: Ernst-Sachs-Straße 62
Schweinfurt
97424
Germany
Tel: +49 9721 98 4300
Fax: +49 9721 98 4299
Web: <http://www.zf.com>
Latitude: 50.0317897
Longitude: 10.2120988

Products: Powertrain assembly
Suspension parts

ZF Gusstechnologie GmbH

Address: Nopitschstraße 71
Nürnberg
90441
Germany
Tel: +49 911 4150 0
Fax: +49 911 4150 337
Web: <http://www.zf.com>
Latitude: 49.4290336
Longitude: 11.0594372

Products: Miscellaneous
Transmission & parts

ZF Friedrichshafen AG - Kreuztal Plant

Address: Langenauer Straße 18
Kreuztal
57223
Germany
Tel: +49 5474 60 0
Fax: +49 5474 60 3409
Web: <http://www.zf.com>
Latitude: 50.94776
Longitude: 7.99376

Products: Chassis components

ZF Friedrichshafen AG - Wagenfeld Plant

Address: Dr.-Jürgen-Ulderup-Platz 1
Wagenfeld
49419
Germany
Tel: +49 5474 60 0
Fax: +49 5474 60 3209
Web: <http://www.zf.com>
Latitude: 52.5464707
Longitude: 8.5881145

Products: Chassis components

ZF Friedrichshafen AG - Stemwede Plant

Address: Dr.-Jürgen-Ulderup-Straße 7
Stemwede
32351
Germany
Tel: +49 5474 60 0
Fax: +49 5474 60 902000
Web: <http://www.zf.com>
Latitude: 52.44225
Longitude: 8.33752

Products: Chassis components

India

Rane TRW Steering Systems Ltd. - Chennai Plant-I

Address: 48th K.M GST Road
NH45 Singaperumal Koil
Kancheepuram
Chennai
Tamil Nadu
603 204
India
Tel: +91 44 4249 6397
Fax: +91 44 2746 4429
Web: <http://www.trw.com>
Latitude: 11.4319974
Longitude: 79.0130706

Products: Airbags module
Occupant classification system
Safety [miscellaneous]
Seat belts

Rane TRW Steering Systems Ltd. - Chennai Plant-II

Address: 38th K.M Stone GST Road
Vallanchery Village
Guduvanchry
Tamil Nadu
603 202
India
Tel: +91 4114 265 010
Fax: +91 4114 265 008
Web: <http://www.trw.com>
Latitude: 11.1271225
Longitude: 78.6568942

Products: Airbags module
Electric steering system
Pumps [miscellaneous]
Steering system

Rane TRW Steering Systems Ltd. - Chennai Plant-III

Address: 45, T.T.K. Road
Alwarpet
Chennai
Tamil Nadu
600 018
India
Tel: +91 44 2499 4390
Fax: +91 44 2499 4409
Web: <http://www.trw.com>
Latitude: 13.0366889
Longitude: 80.2556576

Products: Steering gear

Rane TRW Steering Systems Ltd. - Trichy Plant

Address: Viralmalai PT DT Pudukottai
Boothakudi Village
Trichy
Tamil Nadu
621 316
India

Products: Gears
Miscellaneous
Steering system

Tel: +91 4339 220 233
Fax: +91 4339 220 273
Web: <http://www.trw.com>
Latitude: 10.7904833
Longitude: 78.7046725

Rane TRW Steering Systems Ltd. - Uttarakhand Plant

Address: Plot No. 47/51, Sector-4
IIE Sidcul, Pant Nagar
Udham Singh Nagar
Rudrapur
Uttarakhand
263153
India

Products: Seat belts
Steering gear
Steering pumps

Web: <http://www.trw.com>
Latitude: 29.0142473
Longitude: 79.4141675

SOMIC ZF Components Ltd. - Gurgaon Plant

Address: Post Box No. 38
Village Begumpur Khatola
Gurgaon
Haryana
122001
India

Products: Miscellaneous
Steering components
Suspension ball joints
Suspension control arms

Tel: +91 124 4104635
Fax: +91 124 4104637
Web: <http://www.zf.com>
Latitude: 28.4554726
Longitude: 77.0219019

SOMIC ZF Components Ltd. - Pant Nagar Plant

Address: Plot No. 35, Sector-11
Near Delphi TVS, IIE Sidcul
TATA Vendor Park
Pant Nagar
Uttarakhand
263153
India

Products: Miscellaneous
Steering components
Suspension ball joints

Tel: +91 5944 211 038
Web: <http://www.zf.com>
Latitude: 29.995005
Longitude: 78.7709978

SOMIC ZF Components Ltd. - Chennai Plant

Address: No. 35, Thiruvan Karunai Road
Kunnam Village
Sriperumbadur Taluk
Kancheepuram
Tamil Nadu
631604
India

Products: Miscellaneous
Steering components
Suspension ball joints

Tel: +91 44 371 736 14
Web: <http://www.zf.com>
Latitude: 12.8748291
Longitude: 79.9080757

TRW Sun Steering Wheels Pvt. Ltd. - Gurgaon Plant

Address: 35, Huda Industrial Area
Sector 18
Gurgaon
Haryana
122 015
India

Products: Occupant classification system
Steering wheel

Tel: +91 124 455 8503

Web: <http://www.trw.com>

Latitude: 28.4945045

Longitude: 77.0692827

TRW Sun Steering Wheels Pvt. Ltd. - Pune Plant

Address: Gat No. 262-263, Lavale Phata
Village Pirangut
Tal. Mulshi
Pune
Maharashtra
411024
India

Products: Occupant classification system
Steering wheel

Tel: +91 20 6675 5875

Web: <http://www.trw.com>

Latitude: 18.4452538

Longitude: 73.7871664

ZF Electronics TVS (India) Private Ltd.

Address: Madurai - Melur Road
Vellaripatti
Madurai
Tamil Nadu
625122
India

Products: Electronics
Miscellaneous
Sensors [braking]
Sensors [safety system/driver assistance]
Sensors [thermal system]
Switches [electrical & electronics]
Valvetrain [engines & engine components]

Tel: +91 452 242 0218

Fax: +91 452 242 0382

Web: <http://www.zf.com>

Latitude: 9.9594548

Longitude: 78.1908766

ZF Hero Chassis Systems Private Ltd. - Plant-I

Address: Gat No. 43, Navlakh Umbre
Talegaon, MDC
Pune
Maharashtra
411507
India

Products: Axles
Corner modules
Miscellaneous

Web: <http://www.zf.com>

Latitude: 18.5204303

Longitude: 73.8567437

ZF Hero Chassis Systems Pvt. Ltd. - Plant-II

Address: 110, GIDC Estate
Dist - Panchmahal
Halol
Gujarat
389 350
India

Products: Axles
Corner modules
Miscellaneous

Web: <http://www.zf.com>

Latitude: 22.5419553

Longitude: 73.4592701

Brakes India Limited - Padi Plant

Address: Padi
Chennai
Tamil Nadu
600 050
India

Products: Actuators [braking]
Actuators [transmission]
Brake system
Drum brake
Hoses/pipes [braking]
Miscellaneous
Valvetrain [engines & engine components]

Tel: +91 44 2625 8161

Fax: +91 44 2625 7010

Web: <http://www.trw.com>

Latitude: 13.091141

Longitude: 80.1832012

Brakes India Limited - Sholinghur Plant

Address: Pandiyanallore
Vellore
Sholingur
Tamil Nadu
631102
India

Tel: +91 4172 262276

Fax: +91 4172 262210

Web: <http://www.trw.com>

Latitude: 13.1115847

Longitude: 79.4310052

Products: Actuators [braking]
Drum brake
Miscellaneous

Brakes India limited - Polambakkam Plant

Address: Cheyyaru - Vandavasi Road
Polambakkam
Tamil Nadu
631309
India

Tel: +91 44 27544107

Fax: +91 44 27544103

Web: <http://www.trw.com>

Latitude: 12.423022

Longitude: 79.8828828

Products: Brake calipers
Brake shoes
Brakes
Disc brake

Brakes India Limited - Nanjangud Seals Division

Address: 3A, KIADB Industrial Area
Nanjangud
Karnataka
571302
India

Tel: +91 8221 228222/ 228787

Fax: +91 8221 228333/ 228777

Web: <http://www.trw.com>

Latitude: 12.1199769

Longitude: 76.680093

Products: Miscellaneous
Seals [miscellaneous]

Brakes India Limited - Nanjangud Polymers Division

Address: 3A, KIADB Industrial Area
Mysore District
Nanjangud
Karnataka
571302
India

Tel: +91 8221 228341

Fax: +91 8221 228787

Web: <http://www.trw.com>

Latitude: 12.1199769

Longitude: 76.680093

Products: Miscellaneous

Brakes India Limited - Gurgaon Plant

Address: 834, Udyog Vihar
Phase V
Gurgaon
Haryana
122016
India

Tel: +91 124 2347810/ 2340571

Fax: +91 124 2342584

Web: <http://www.trw.com>

Latitude: 28.5023321

Longitude: 77.0858837

Products: Actuators [braking]
Brake calipers
Brakes
Drum brake

Brakes India Limited - Waki Plant

Address: Plot No. 3, Gat No. 105
Krishna Industrial Park
Waki Budruk, Tal. Khed
Pune
Maharashtra
410501
India

Tel: +91 2135 308031/ 308059

Web: <http://www.trw.com>

Latitude: 18.750621

Longitude: 73.8771901

Products: Brake calipers
Drum brake
Miscellaneous

Brakes India Limited - Jamshedpur Plant

Address: Plot No - 533, Mathodi Gadra
Asanboni Road
Govindpur
Jamshedpur
Jharkhand
831015
India

Web: <http://www.trw.com>

Latitude: 22.7495908

Longitude: 86.2818753

Products: Brakes
Miscellaneous

Rolltec Engineering

Address: No. 9, Aadi Main Road
Veeraraghavapuram
Poonamallee
Chennai
Tamil Nadu
600077
India

Tel: +91 44 64541920

Fax: +91 44 26800522

Web: <http://www.trw.com>

Latitude: 13.043605

Longitude: 80.1804142

Products: Brakes
Connectors [electrical & electronics]
Miscellaneous

ZF Steering Gear (India) Ltd.

Address: Gat No 1242/44
Village Vadu Budruk
Taluka - Shirur
Pune
Maharashtra
412216
India

Tel: +91 2137 305100

Fax: +91 2137 305302

Web: <http://www.zf.com>

Latitude: 18.6622262

Longitude: 74.0535126

Products: Engine oil system [engines & engine components]
Steering column/shaft
Steering gear
Steering pumps
Steering system

Italy

TRW Automotive Italia S.r.l. - Nichelino Plant

Address: Via Mraflones, 20
Nichelino
TO
10042
Italy

Tel: +39 301 1605 9321

Fax: +39 301 1605 5722

Web: <http://www.trw.com>

Latitude: 45.00369

Longitude: 7.649769

Products: Accessories
Control units [electrical & electronics]
Control units [steering system]
Electronics
Hvac module
Miscellaneous
Switches [electrical & electronics]

TRW Automotive Italia S.r.l. - Bricherasio Plant

Address: Strada Tirabrasse 6
Bricherasio
TO
10060
Italy
Tel: +39 121 348211
Fax: +39 121 598570
Web: <http://www.trw.com>
Latitude: 44.8329071
Longitude: 7.3067176

Products: Miscellaneous
Occupant classification system

TRW Automotive Italia S.r.l. - Gardone Val Trompia Plant

Address: Via Val Trompia, n. 125
Gardone Val Trompia
BS
25063
Italy
Tel: +39 30 89181
Fax: +39 30 83346 4
Web: <http://www.trw.com>
Latitude: 45.6461742
Longitude: 10.2006956

Products: Miscellaneous
Seats
Steering components
Steering system

TRW Automotive Italia S.r.l. - Pralormo Plant

Address: Via Poirino 26
Pralormo
Torino
10040
Italy
Tel: +39 11 948 2511
Fax: +39 11 948 1183
Web: <http://www.trw.com>
Latitude: 44.8735629
Longitude: 7.889689

Products: Air conditioning parts
Fasteners/fixings [miscellaneous]
Interior lighting [lighting]
Interior trim
Miscellaneous

TRW Automotive Italia S.r.l. - San Giovanni Plant

Address: Via Buonarroti 2
San Giovanni di Ostellato
FE
44020
Italy
Tel: +39 533 60451 1
Fax: +39 533 57516
Web: <http://www.trw.com>
Latitude: 44.7425224
Longitude: 12.0275015

Products: Miscellaneous
Pumps [transmission]
Steering pumps
Steering system

Japan

TRW Automotive Japan Co., Ltd. - Miyoshi Plant

Address: 306-36 Matsugasako
Higashisakaya-cho
Miyoshi City
Hiroshima
728-0023
Japan
Tel: +81 824 63 1121
Fax: +81 824 65 0065
Web: <http://www.trw.com>
Latitude: 34.7754395
Longitude: 132.866224

Products: Brake system

Malaysia

Lucas Automotive Sdn. Bhd.

Address: PLO 17, Senai Industrial Estate KB 105
Senai
Johor
81400
Malaysia

Products: Electronics
Miscellaneous

Tel: +60 7 599 1301

Fax: +60 7 599 4301

Web: <http://www.trw.com>

Latitude: 1.6060675

Longitude: 103.6478418

LucasVarity (M) Sdn. Bhd.

Address: No. 4 Jalan Jasmine
4 Kawasan Perindustrian Bukit
Beruntung
Rawang
Selangor
48300
Malaysia

Products: Abs/esc
Actuators [braking]
Brake system
Brakes
Control units [airbags]
Sensors [safety system/driver assistance]
Steering system

Tel: +60 3 6099 5999

Fax: +60 3 6099 5997/5998

Web: <http://www.trw.com>

Latitude: 3.4093905

Longitude: 101.5547112

Mexico

Frenos y Mecanismos S.A. de C.V. - Santa Rosa Plant

Address: La Griega #101
Parque Industrial Queretaro
Santa Rosa Jauregui
Queretaro
C.P. 76220
Mexico

Products: Brake system
Disc brake
Drum brake

Tel: +52 442 211 3300

Fax: +52 442 211 3399

Web: <http://www.trw.com>

Latitude: 20.7431124

Longitude: -100.4468951

TRW Electronica Ensambls S. de R.L. de C.V.

Address: Mke Allen 1390
Parque Industrial Reynosa
Reynosa
Tamaulipas
C.P. 88500
Mexico

Products: Control units [electrical & electronics]
Control units [steering system]
Electronics
Hvac module
Miscellaneous
Sensors [safety system/driver assistance]
Switches [electrical & electronics]

Tel: +52 956 205 4100

Fax: +52 956 205 4138

Web: <http://www.trw.com>

Latitude: 26.0147211

Longitude: -98.2184331

TRW Sistemas de Direcciones, S.A. de C.V. - El Marques Plant

Address: Av. De las Fuentes
No. 29 Industrial Park
Bernardo Quintana
El Marques
Queretaro
76246
Mexico

Products: Miscellaneous
Steering system

Tel: +52 442 211 0851

Fax: +52 442 211 0890

Web: <http://www.trw.com>

Latitude: 20.5699866

Longitude: -100.2803965

TRW Sistemas de Direcciones, S.A. de C.V. - Reynosa Plant

Address: Ave. Fomento Industrial Pte.
s/n Parque Industrial Del Norte
Reynosa
Tamaulipas
88736
Mexico

Products: Fasteners/fixings [miscellaneous]
Miscellaneous

Tel: +52 956 632 8100
Fax: +52 956 632 8100
Web: <http://www.trw.com>
Latitude: 26.0426489
Longitude: -98.3633119

TRW Sistemas de Frenado, S.A. de C.V.

Address: Km. 2 + 200 Lateral del la Carretera
Estatat 431 Int. 78
El Marques
Queretaro
76246
Mexico

Products: Brake system

Tel: +52 442 211 0851
Web: <http://www.trw.com>
Latitude: 20.5835963
Longitude: -100.3729496

TRW Steering Wheel Systems de Chihuahua, S. de R.L. de C.V.

Address: Avenida Juan Escutia No. 3201
Industrial Park El Saucito
Chihuahua
Chihuahua
31125
Mexico

Products: Miscellaneous
Occupant classification system
Steering wheel

Tel: +52 614 158 5500
Fax: +52 614 158 5620
Web: <http://www.trw.com>
Latitude: 28.6820721
Longitude: -106.1047846

TRW Vehicle Safety Systems de Mexico de R.L. de C.V.

Address: Boulevard Mc Allen #1370
Parque Industrial Reynosa
Reynosa
Tamaulipas
88780
Mexico

Products: Miscellaneous
Occupant classification system
Safety [miscellaneous]

Tel: +52 956 632 8100
Fax: +52 956 632 8129
Web: <http://www.trw.com>
Latitude: 26.0698776
Longitude: -98.3011063

ZF Chassis Components Toluca S.A. de C.V.

Address: Calle 7 Norte s / n
Apple J. Lots 2 and 3
Parque Industrial Toluca 2000
Toluca
CP 50200
Mexico

Products: Chassis components
Miscellaneous
Suspension parts

Tel: +52 722 2769800
Fax: +52 722 2799321
Web: <http://www.zf.com>
Latitude: 19.2826098
Longitude: -99.6556653

ZF Electronic Systems Juarez S.A. de C.V.

Address: Av. Valle de Los Cedros # 1650
Parque Industrial Intermex
Juarez
Chihuahua
32690
Mexico

Products: Electronics

Tel: +52 656 6920300
Fax: +52 656 6920352
Web: <http://www.zf.com>
Latitude: 31.641951
Longitude: -106.3863489

ZF Powertrain Modules Saltillo S.A. de C.V.

Address: 1010-2 Metallurgical Industry
Industrial Park Ramos Arizpe
Ramos Arizpe
25900
Mexico

Products: Clutch
Miscellaneous
Powertrain assembly
Torque converter
Transmission & parts

Tel: +52 844 411 5700
Fax: +52 844 411 5748
Web: <http://www.zf.com>
Latitude: 25.538332
Longitude: -100.9439689

ZF Suspension Technology Guadalajara S.A. de C.V.

Address: Km 3.5 Carretera El Salto - La Capilla
El Salto
Jalisco
45680
Mexico

Products: Shock absorbers
Suspension parts

Tel: +52 33 3208 0000
Fax: +52 33 3688 0086
Web: <http://www.zf.com>
Latitude: 20.5178271
Longitude: -103.1826862

Frenos y Mecanismos SA de C.V. - Toluca Module Plant

Address: Ave. Independencia #1925
Zona Industrial
Toluca
Edomex
C.P. 50030
Mexico

Products: Brake system
Miscellaneous
Suspension
Suspension system

Tel: +52 722 199 7051
Web: <http://www.trw.com>
Latitude: 19.2923933
Longitude: -99.6127321

TRW Occupant Restraints de Chihuahua, S. de R.L. de C.V.

Address: Avenida Juan Escutia No. 3201
Parque Industrial El Saucito 31109
Chihuahua
31125
Mexico

Products: Airbags module
Miscellaneous
Side impact protection

Tel: +52 614 158 5500
Fax: +52 614 158 5320
Web: <http://www.trw.com>
Latitude: 28.6820721
Longitude: -106.1047846

Poland

TRW Braking Systems Polska Sp. z o.o. - Gliwice Plant

Address: ul. Leonarda da Vinci 7
Gliwice
44-121
Poland

Tel: +48 32 338 20 75
Fax: +48 32 338 20 05
Web: <http://www.trw.com>
Latitude: 50.324094
Longitude: 18.6120253

Products: Abs/esc
Brake modules
Brake system
Disc brake
Drum brake
Miscellaneous
Seat belts

TRW Polska Sp. z o.o. - Seatbelt Plant

Address: ul. Legionow 63
Czestochowa
42-200
Poland

Tel: +48 34 343 40 13
Fax: +48 34 361 91 58
Web: <http://www.trw.com>
Latitude: 50.8082456
Longitude: 19.1700996

Products: Occupant classification system
Seat belts

TRW Polska Sp. z o.o. - Airbag Plant

Address: ul. Rolnicza 33
Czestochowa
42-200
Poland

Tel: +48 34 343 10 03
Fax: +48 34 343 10 10
Web: <http://www.trw.com>
Latitude: 50.8291304
Longitude: 19.1270256

Products: Airbags module
Miscellaneous
Occupant classification system

TRW Steering Systems Poland Sp. z o.o. - Pruszkow Plant

Address: ul. 3-go Maja 8/B3
Pruszkow
05-800
Poland

Tel: +48 22 701 34 00
Fax: +48 22 701 34 09
Web: <http://www.trw.com>
Latitude: 52.1704725
Longitude: 20.8118862

Products: Electronics
Miscellaneous

TRW Steering Systems Poland Sp. z o.o. - Bielsko Biala Plant

Address: ul. Konwojowa 94
Bielsko-Biala
43-300
Poland

Tel: +48 32 324 62 00
Fax: +48 32 324 62 90
Web: <http://www.trw.com>
Latitude: 49.8626583
Longitude: 19.0358841

Products: Electric steering system
Miscellaneous

TRW Steering Systems Poland Sp. z o.o. - Czechowice-Dziedzice Plant

Address: ul. Slowackiego 33
Czechowice-Dziedzice
PL-43-502
Poland

Tel: +48 32 324 1200
Fax: +48 32 324 1290
Web: <http://www.trw.com>
Latitude: 49.9142375
Longitude: 19.0109392

Products: Steering gear
Steering system

Portugal

Dalphi Metal Portugal, S.A.

Address: Alto das Cerejas
Vila Nova de Cerveira
Campos
4920-011
Portugal

Tel: +351 251 700 300

Fax: +351 251 700 303

Web: <http://www.trw.com>

Latitude: 41.9709562

Longitude: -8.6886136

Products: Airbags module
Fasteners/fixings [miscellaneous]
Miscellaneous
Steering wheel

Safelife-Indústria de Componentes Auto SA

Address: Zone Industrial da Gemieira
Ponte de Lima
Gemieira
Gemieira
4990
Portugal

Tel: +351 258 900 450

Fax: +351 258 900 459

Web: <http://www.trw.com>

Latitude: 41.7762749

Longitude: -8.5195182

Products: Airbags module
Steering wheel

Safebag-Industry of Safety Components Automotive SA

Address: Casal dos Santos
Fornelos
Ponte de Lima
4990
Portugal

Tel: +351 258 900 840

Fax: +351 258 900 841

Web: <http://www.trw.com>

Latitude: 41.6692914

Longitude: -8.5474201

Products: Airbags module
Occupant classification system
Seat components

Romania

TRW Automotive Safety Systems S.R.L. - Timisoara Plant

Address: Str. Macin, Nr. 16
Timisoara
Timis
300137
Romania

Tel: +40 256 236 100

Fax: +40 256 291 546

Web: <http://www.trw.com>

Latitude: 45.7770829

Longitude: 21.2629804

Products: Occupant classification system
Steering wheel

TRW Airbag Systems S.R.L.

Address: Str. Stefan cel Mare Street
No.258
Bucuresti
611040
Romania

Tel: +40 725 722010

Web: <http://www.trw.com>

Latitude: 44.452806

Longitude: 26.1115816

Products: Airbags module
Miscellaneous
Occupant classification system

Russian Federation

OOO ZF KAMA - Tatarstan Plant

Address: Avtozavodskiy Prospect, 2
Naberezhnye Chelny
423827
Russian Federation

Tel: +7 8552 372136

Fax: +7 8552 372493

Web: <http://www.zf.com>

Latitude: 55.746907

Longitude: 52.446354

Products: Gearbox
Miscellaneous

Slovakia

TRW Automotive (Slovakia), s.r.o. - Bytca Plant

Address: Odstepny Zavod Bytca
Hlavna 1384
Bytca
Sidlo
014 01
Slovakia

Tel: +421 41 503 01 00

Fax: +421 41 503 02 00

Web: <http://www.trw.com>

Latitude: 49.2225205

Longitude: 18.5588046

Products: Belts/tensioners
Electric steering system
Miscellaneous
Steering system

TRW Automotive (Slovakia), s.r.o. - Nove Mesto Plant

Address: Trendianska 2571/16
Nove Mesto nad Vahom
915 01
Slovakia

Tel: +421 32 323 62 02

Fax: +421 32 323 60 19

Web: <http://www.trw.com>

Latitude: 48.746949

Longitude: 17.8385609

Products: Belts/tensioners
Electric steering system
Miscellaneous
Steering system

ZF Sachs Slovakia a.s. - Trnava Plant

Address: Strojársená 2
Trnava
91702
Slovakia

Tel: +421 33 5959 111

Fax: +421 33 5959 300

Web: <http://www.zf.com>

Latitude: 48.3568243

Longitude: 17.5708081

Products: Clutch facings
Clutch system
Torque converter

ZF Sachs Slovakia a.s. - Levice Plant

Address: Priemyselny Park Gena 5595/62
Levice
SK-93401
Slovakia

Web: <http://www.zf.com>

Latitude: 48.2137161

Longitude: 18.6091545

Products: Clutch facings
Clutch system
Torque converter

ZF Levice s.r.o.

Address: Priemyselny Park Gena 5595/62
Levice
SK-93401
Slovakia

Web: <http://www.zf.com>

Latitude: 48.2137161

Longitude: 18.6091545

Products: Miscellaneous
Suspension parts

South Africa

TRW Occupant Restraints South Africa Inc.

Address: Chr. Charel Uys & Niel Hare Sts.
Dassenberg (Atlantis)
Cape Town
7350
South Africa

Tel: +27 21 573 9420
Fax: +27 21 573 9707
Web: <http://www.trw.com>
Latitude: -33.534034
Longitude: 18.4803015

Products: Abs/esc
Airbags module
Seat belts
Steering components

ZF Lemförder South Africa (Pty.) Ltd.

Address: 120 Doreen Avenue
Rosslyn, Gauteng
P.O. Box 59832
Karenpark
0118
South Africa

Tel: +27 12 5217500
Fax: +27 12 5411886
Web: <http://www.zf.com>
Latitude: -25.6758024
Longitude: 28.1005105

Products: Axles
Miscellaneous
Shocks/struts

ZF Sachs South Africa (Pty.) Ltd.

Address: 18 Bentonite Street
Alrode Extension 7
Alberton
1450
South Africa

Tel: +27 11 3894902
Fax: +27 11 3894971
Web: <http://www.zf.com>
Latitude: -26.31954
Longitude: 28.128519

Products: Clutch
Clutch disc

South Korea

TRW Controls & Fasteners Inc. - Incheon Plant

Address: 52, Aenggogae-ro
556 beon-gil
Namdong-gu
Incheon
405-821
South Korea

Tel: +82 32 816 9181
Fax: +82 32 816 9189
Web: <http://www.trw.com>
Latitude: 37.3944155
Longitude: 126.704517

Products: Air vent/duct
Fasteners/fixings [miscellaneous]
Fasteners/fixings [wiring]
Handles/latches [doors/tailgate - exterior]
Interior trim
Plugs
Switches [electrical & electronics]
Wheel components

TRW Controls & Fasteners Inc. - Ulsan Plant

Address: 45, Songdo-gil
Buk-gu
Ulsan
683-360
South Korea

Tel: +82 52 219-0100
Fax: +82 52 287-2935
Web: <http://www.trw.com>
Latitude: 35.5647442
Longitude: 129.3706757

Products: Air vent/duct
Fasteners/fixings [miscellaneous]
Fasteners/fixings [wiring]
Handles/latches [doors/tailgate - exterior]
Interior trim
Plugs
Switches [electrical & electronics]
Wheel components

TRW Steering Co. Ltd.

Address: 780-3 Wonsidong
Kyungki-do
Ansan
425-852
South Korea
Tel: +82 31 489 9200
Fax: +82 31 491 9136
Web: <http://www.trw.com>
Latitude: 37.3076071
Longitude: 126.7904876

Products: Brake system
Electric steering system
Gearbox parts
Steering gear
Suspension ball joints
Suspension control arms
Valvetrain [engines & engine components]

ZF Lemfoerder Chassis Technology Korea Co., Ltd.

Address: 23B4L, Gumi National Industrial
Complex 4
Gupo-dong
Gumi City
Gyeongsangbuk-Do
730-400
South Korea
Tel: +82 54 470 8600
Fax: +82 54 470 8699
Web: <http://www.zf.com>
Latitude: 36.1314469
Longitude: 128.4192541

Products: Chassis components
Chassis modules
Miscellaneous

ZF Sachs Korea Co. Ltd.

Address: # 173 Seong sanpaechong-ro
Changwon-si
Seongsan-gu
Gyeongsangman-do
642-020
South Korea
Tel: +82 55 239 1600
Fax: +82 55 239 1604
Web: <http://www.zf.com>
Latitude: 35.2130747
Longitude: 128.6752632

Products: Shock absorbers
Shocks/struts

Spain

Dalphi Metal Espana, S.A. - Vigo Plant

Address: Road Caramuxo, 35
Vigo
36213
Spain
Tel: +34 986 29 31 29
Fax: +34 986 20 59 05
Web: <http://www.trw.com>
Latitude: 42.2054105
Longitude: -8.7565166

Products: Airbags module
Steering wheel

TRW Automotive Espana, S.L.

Address: Poligono Industrial Riera de Caldes
Mercaders No. 25
Palau-solita i Plegamans
Barcelona
08184
Spain
Tel: +34 938 64 03 03
Fax: +34 938 64 03 04
Web: <http://www.trw.com>
Latitude: 41.59067
Longitude: 2.1744993

Products: Electronics
Fuse/relay/junction box
Miscellaneous

TRW Automotive Espana, S.L. - Pamplona Plant

Address: Landaben D Street Poligono
Pamplona
31012
Spain

Tel: +34 948 28 60 20

Fax: +34 948 18 74 02

Web: <http://www.trw.com>

Latitude: 42.8102511

Longitude: -1.6879229

Products: Airbags module
Brake parts
Safety [miscellaneous]
Seat belts
Steering wheel
Suspension

ZF Lemförder TVA, S.A.

Address: Apartado P.O. Box 7
Ermua
Bizkaia
48260
Spain

Tel: +34 943 172150

Fax: +34 943 174346

Web: <http://www.zf.com>

Latitude: 43.1873519

Longitude: -2.5037039

Products: Chassis components
Steering components
Suspension ball joints
Suspension control arms
Transmission & parts

ZF Sachs Espana S.A.

Address: Aretxalde district, 130
Lezama
Vizcaya
48196
Spain

Tel: +34 94 455 5050

Fax: +34 94 455 6367

Web: <http://www.zf.com>

Latitude: 43.2741817

Longitude: -2.8328025

Products: Chassis components
Shock absorbers
Suspension parts
Transmission & parts

Dalphi Metal Espana, S.A. - Porrino Plant

Address: The Grange Industrial Estate
Plots 21 and 22
Porrino
36400
Spain

Tel: +34 986 34 66 30

Fax: +34 986 34 66 90

Web: <http://www.trw.com>

Latitude: 42.1608459

Longitude: -8.6177291

Products: Airbags module
Occupant classification system
Safety [miscellaneous]
Steering wheel

Thailand**TRW Steering & Suspension Co. Ltd.**

Address: 64/2, Mbo 4
Eastern Seaboard Industrial Estate
Pluakdeng
Rayong
21140
Thailand

Tel: +66 38 927 800

Fax: +66 38 954 421

Web: <http://www.trw.com>

Latitude: 13.0108978

Longitude: 101.1933652

Products: Brake system
Corner modules
Drum brake
Electric steering system
Fasteners/fixings [steering system]
Miscellaneous
Suspension ball joints
Suspension parts
Suspension system

ZF Lemforder (Thailand) Co. Ltd.

Address: 300/84 Mbo 1, Tasit
Eastern Seaboard Industrial Estate
Pluakdeang
Rayong
21140
Thailand
Tel: +66 38 929200
Fax: +66 38 929298
Web: <http://www.zf.com>
Latitude: 12.707434
Longitude: 101.1473517

Products: Axles
Suspension

Tunisia**Dalphimetal Tunisie, S.A.R.L. - Plant-I**

Address: 38, Rue de Annaba
Zone Industrial
ZI Ben Arous
Tunis
2013
Tunisia
Tel: +216 71 380 086
Fax: +216 71 380 686
Web: <http://www.trw.com>
Latitude: 36.7435003
Longitude: 10.2319757

Products: Miscellaneous
Occupant classification system
Safety[miscellaneous]

Dalphimetal Tunisie, S.A.R.L. - Plant-II

Address: 12, Rue de la physique
ZI Ben Arous
2013
Tunisia
Tel: +216 79 391 388
Fax: +216 79 391 388
Web: <http://www.trw.com>
Latitude: 36.7435003
Longitude: 10.2319757

Products: Miscellaneous
Occupant classification system
Safety[miscellaneous]

Turkey**HEMA-TRW Otomotiv Direksiyon Sistemleri A.S**

Address: Organize Sanayi Bolgesi
Cerkezko
59501
Turkey
Tel: +90 282 758 1040
Fax: +90 216 758 1073
Web: <http://www.trw.com>
Latitude: 41.2735514
Longitude: 28.0408457

Products: Steering components
Steering gear
Steering system

ZF Lemförder Aks Modülleri Sanayi ve Ticaret A.S.

Address: Atatürk Organize Sanayi Bölgesi
10003 Sokak No. 13
Cigli
Izmir
35620
Turkey
Tel: +90 232 3981300
Fax: +90 232 3768718
Web: <http://www.zf.com>
Latitude: 38.4773038
Longitude: 27.0351524

Products: Engine parts
Miscellaneous
Steering components
Steering system
Suspension ball joints
Suspension system

ZF Sachs Süspansiyon Sistemleri Sanayi ve Ticaret A.S.

Address: Gebze Organize Sanayi Bölgesi
400. Sokak
P.K. 1018 Gebze/Kocaeli
Gebze
Kocaeli
41480
Turkey

Products: Miscellaneous
Shock absorbers

Tel: +90 262 678 0500
Fax: +90 262 751 1345
Web: <http://www.zf.com>
Latitude: 40.7967181
Longitude: 29.4410569

United Kingdom

TRW Limited - Birmingham Plant

Address: College Road, Perry Barr
Birmingham
West Midlands
B44 8DU
United Kingdom

Products: Electronics

Tel: +44 121 623 4400
Fax: +44 121 344 3396
Web: <http://www.trw.com>
Latitude: 52.5383506
Longitude: -1.8720256

TRW Limited - Burnley Plant

Address: Eastern Ave.
Burnley
Lancashire
BB10 2AR
United Kingdom

Products: Electronics
Miscellaneous
Switches [electrical & electronics]

Tel: +44 1282 855500
Fax: +44 1282 831486
Web: <http://www.trw.com>
Latitude: 53.8024673
Longitude: -2.2236644

TRW Limited - Gwent Plant

Address: New Road, New Inn
Pontypool
Gwent
South Wales
NP4 0YZ
United Kingdom

Products: Brake system
Brakes
Clutch

Tel: +44 1495 75 2804
Web: <http://www.trw.com>
Latitude: 51.6889443
Longitude: -3.016419

TRW Systems Limited - Tyne & Wear Plant

Address: Mercantile Road, Rainton Bridge
Industrial Estate
Houghton-le-Spring
Tyne & Wear
Sunderland
DH4 5PH
United Kingdom

Products: Electric steering system
Steering system

Tel: +44 191 512 3700
Fax: +44 191 512 3661
Web: <http://www.trw.com>
Latitude: 54.8348617
Longitude: -1.4813225

TRW Systems Limited - Peterlee Plant

Address: North West Industrial Estate
Mill Hill
Peterlee
County Durham
SR8 2HR
United Kingdom

Tel: +44 191 518 8900

Fax: +44 191 518 8901

Web: <http://www.trw.com>

Latitude: 54.7661995

Longitude: -1.3663862

Products: Electronics
Miscellaneous

ZF Lemforder UK Ltd. - Solihull Plant

Address: Birmingham International Park
Starley Way
Bickenhill
Solihull
West Midlands
B37 7GN
United Kingdom

Tel: +44 121 526 4441

Fax: +44 121 782 4600

Web: <http://www.zf.com>

Latitude: 52.4582938

Longitude: -1.7296807

Products: Miscellaneous
Steering components
Suspension

ZF Lemforder UK Ltd. - Wednesbury Plant

Address: Heath Road
P.O. Box 35
Darlaston
Wednesbury
West Midlands
WS10 8BH
United Kingdom

Tel: +44 121 526 4441

Fax: +44 121 526 3579

Web: <http://www.zf.com>

Latitude: 52.5751865

Longitude: -2.0244522

Products: Miscellaneous
Steering components
Suspension

United States

Kelsey-Hayes Company - Fayette Plant

Address: 705 North Fayette St.
Fayette
Ohio
43521
United States

Tel: +1 419 237 2511

Fax: +1 419 237 2579

Web: <http://www.trw.com>

Latitude: 41.679329

Longitude: -84.328847

Products: Brake system

Kelsey-Hayes Company - Fenton Plant

Address: 9475 Center Road
Fenton
Michigan
48430
United States

Tel: +1 810 750 1036

Fax: +1 810 750 2530

Web: <http://www.trw.com>

Latitude: 42.7369364

Longitude: -83.7685562

Products: Accessories
Air conditioning system
Brake system
Mirrors
Miscellaneous
Radiator
Shock absorbers
Tires
Washer/wiper systems

Kelsey-Hayes Company - Oakwood Plant

Address: 5531 Rafe Court
Flowery Branch
Oakwood
Georgia
30542
United States

Tel: +1 770 965 5750

Fax: +1 770 965 5798

Web: <http://www.trw.com>

Latitude: 34.2172909

Longitude: -83.9185383

Products: Brake system
Suspension system

Kelsey-Hayes Company - Winona Plant-I

Address: 5752 Industrial Park Road
Winona
Minnesota
55987
United States

Tel: +1 507 457 3750

Fax: +1 507 454 4211

Web: <http://www.trw.com>

Latitude: 44.0761573

Longitude: -91.7130527

Products: Actuators [miscellaneous]
Control units [electrical & electronics]
Control units [thermal system]
Electronics
Heaters
Miscellaneous
Switches [electrical & electronics]

TRW Automotive U.S. LLC - Auburn Plant

Address: 2150 Cranebrook Dr.
Auburn
New York
13021
United States

Tel: +1 315 258 3300

Fax: +1 315 253 8747

Web: <http://www.trw.com>

Latitude: 42.9278989

Longitude: -76.597021

Products: Electronics
Miscellaneous
Sensors [electrical & electronics]

TRW Automotive U.S. LLC - Lafayette Plant

Address: 800 Heath St.
Lafayette
Indiana
47904
United States

Tel: +1 765 423 5377

Fax: +1 765 429 1611

Web: <http://www.trw.com>

Latitude: 40.4289856

Longitude: -86.8882828

Products: Miscellaneous
Pumps [transmission]
Steering column/shaft
Steering gear
Steering pumps
Steering system
Suspension system

TRW Automotive U.S. LLC - Lebanon Plant

Address: 1103 Baddour Pkwy.
Lebanon
Tennessee
37087
United States

Tel: +1 615 444 6110

Fax: +1 615 443 6275

Web: <http://www.trw.com>

Latitude: 36.220279

Longitude: -86.315455

Products: Miscellaneous
Pumps [transmission]
Steering system
Suspension system

TRW Automotive U.S. LLC - Marshall Plant

Address: 902 S. Second St.
Marshall
Illinois
62441
United States

Products: Electronics
Pressed/stamped parts

Tel: +1 217 826 3011
Fax: +1 217 826 5560
Web: <http://www.trw.com>
Latitude: 39.3835082
Longitude: -87.6996887

TRW Automotive U.S. LLC - Rogersville Plant

Address: 7500 Highway 11-W
Rogersville
Tennessee
37857
United States

Products: Electric steering system
Gears
Miscellaneous

Tel: +1 423 272 2171
Fax: +1 423 272 4156
Web: <http://www.trw.com>
Latitude: 36.3863345
Longitude: -83.0467588

TRW Automotive U.S. LLC - Westminster Plant

Address: 180 State Rd. E.
Westminster
Massachusetts
01473
United States

Products: Fasteners/fixings [miscellaneous]
Miscellaneous

Tel: +1 978 874 0151
Fax: +1 978 874 5163
Web: <http://www.trw.com>
Latitude: 42.5586858
Longitude: -71.8714668

TRW Engineered Fasteners & Components

Address: 12200 Tech Center Drive
Livonia
Michigan
48150
United States

Products: Fasteners/fixings [interior]
Fasteners/fixings [miscellaneous]
Interior trim
Miscellaneous

Tel: +1 734 855 2600
Web: <http://www.trw.com>
Latitude: 42.37376
Longitude: -83.3403359

TRW Vehicle Safety Systems Inc. - Mesa Plant

Address: 11202 E. Germann Road
Mesa
Arizona
85212
United States

Products: Actuators [miscellaneous]
Airbags module
Miscellaneous

Tel: +1 480 722 4000
Fax: +1 480 722 4618
Web: <http://www.trw.com>
Latitude: 33.281165
Longitude: -111.595912

ZF Axle Drives Marysville LLC

Address: 2900 Busha Highway
Marysville
Michigan
48040
United States

Products: Axles
Chassis components
Miscellaneous
Transmission & parts

Tel: +1 810 989 8700
Fax: +1 810 326 2094
Web: <http://www.zf.com>
Latitude: 42.8741981
Longitude: -82.4854108

ZF Chassis Components LLC - Lapeer Plant

Address: 3300 John Conley Drive
Lapeer
Michigan
48446
United States

Products: Chassis components
Engine parts
Suspension control arms
Suspension parts

Tel: +1 810 245 2000

Fax: +1 810 245 0773

Web: <http://www.zf.com>

Latitude: 43.0344692

Longitude: -83.3601015

ZF Chassis Systems Chicago LLC

Address: 3400 East 126th Street
Chicago
Illinois
60633
United States

Products: Axles
Corner modules

Tel: +1 773 371 4550

Fax: +1 773 371 4552

Web: <http://www.zf.com>

Latitude: 41.669006

Longitude: -87.541075

ZF Chassis Systems Duncan LLC

Address: 191 Parkway West
Duncan
South Carolina
29334
United States

Products: Axles
Corner modules
Crossmembers
Front end module

Tel: +1 864 486 3761

Fax: +1 864 486 3950

Web: <http://www.zf.com>

Latitude: 34.9029474

Longitude: -82.1080469

ZF Chassis Systems LLC - Newton Plant

Address: 1570 East P Street Ext.
Newton
North Carolina
28658
United States

Products: Suspension parts

Tel: +1 828 468 3800

Fax: +1 828 468 3811

Web: <http://www.zf.com>

Latitude: 35.648249

Longitude: -81.204777

ZF Chassis Systems Tuscaloosa LLC

Address: 1200 Commerce Drive
Tuscaloosa
Alabama
35401
United States

Products: Axles
Corner modules

Tel: +1 205 333 5100

Fax: +1 205 333 5210

Web: <http://www.zf.com>

Latitude: 33.2177986

Longitude: -87.6173819

ZF Transmissions Gray Court LLC

Address: 2846 North Old Laurens Road
Gray Court
South Carolina
29645
United States

Products: Axles
Clutch
Steering system
Transmission & parts

Tel: +1 864 601 2500

Web: <http://www.zf.com>

Latitude: 34.6461279

Longitude: -82.1541372

Kelsey-Hayes Company - Fowlerville Plant

Address: 500 E. Van Riper Road
Fowlerville
Michigan
48836
United States

Products: Brake system

Tel: +1 517 223 8330

Fax: +1 517 223 6980

Web: <http://www.trw.com>

Latitude: 42.6502794

Longitude: -84.0676132

TRW Electronica Ensamblados S. de R.L. de C.V. - Pharr Plant

Address: 9600 International Blvd.
Pharr
Texas
78577
United States

Products: Control units [electrical & electronics]
Control units [steering system]
Electronics
Hvac module
Miscellaneous
Switches [electrical & electronics]

Tel: +1 956 205 4100

Web: <http://www.trw.com>

Latitude: 26.1094997

Longitude: -98.2085041

ZF Gainesville LLC

Address: 1261 Palmetto Drive
Gainesville
Georgia
30501
United States

Products: Axles
Miscellaneous
Park brake
Transmission & parts

Tel: +1 770 531 2800

Fax: +1 770 531 2625

Web: <http://www.zf.com>

Latitude: 34.2647192

Longitude: -83.8320516

Kelsey-Hayes Company - Galesville Plant

Address: 20175 West Mill Road
P.O. Box 717
Galesville
Wisconsin
54630
United States

Products: Electronics
Miscellaneous

Tel: +1 608 582 2251

Fax: +1 608 582 2963

Web: <http://www.trw.com>

Latitude: 44.0801424

Longitude: -91.3551606

TRW Automotive U.S. LLC - Atkins Plant

Address: 222 Mountain Empire Road
Atkins (Marion)
Virginia
24311
United States

Products: Miscellaneous
Radiator
Steering system

Tel: +1 276 783 1990

Fax: +1 276 783 8389

Web: <http://www.trw.com>

Latitude: 36.859021

Longitude: -81.424553

TRW Automotive U.S. LLC - Livonia Plant

Address: 12025 Tech Center Dr.
Livonia
Michigan
48150
United States

Products: Brake system
Miscellaneous

Tel: +1 734 855 2600

Fax: +1 734 855 2997

Web: <http://www.trw.com>

Latitude: 42.3736849

Longitude: -83.3401779

Kelsey-Hayes Company - Winona Plant-II

Address: 5731 Industrial Park Road
Machine Building Division
Winona
Minnesota
55987
United States

Products: Miscellaneous

Tel: +1 507 457 3750

Web: <http://www.trw.com>

Latitude: 44.076536

Longitude: -91.714249

ZF Electronics Systems Pleasant Prairie LLC

Address: 11200 88th Avenue
Pleasant Prairie
Wisconsin
53158
United States

Products: Miscellaneous
Sensors [electrical & electronics]
Switches [electrical & electronics]

Tel: +1 262 9426500

Fax: +1 262 9426566

Web: <http://www.zf.com>

Latitude: 42.5143266

Longitude: -87.9141827

R & D Addresses

Argentina

ZF Sachs Argentina S.A.

Address: Av. de la Universidad 51
San Francisco
Córdoba
2400
Argentina

Tel: +54 3564 438900

Fax: +54 3564 438938

Web: <http://www.zf.com>

Latitude: -31.4257656

Longitude: -62.1103991

Brazil

TRW Automotive Ltda. - Limeira Plant

Address: Via Anhanguera, Km. 147
Caixa Postal 155
Limeira
Sao Paulo
13486-915
Brazil

Tel: +55 19 3404 1120

Fax: +55 19 3404 1455

Web: <http://www.trw.com>

Latitude: -22.6490392

Longitude: -47.3257546

ZF do Brasil Ltda. - Sorocaba Plant-I

Address: Rua Doutor Jürgen Ulderup 541
Sorocaba
Sao Paulo
18103-017
Brazil

Tel: +55 15 4009 7105

Fax: +55 15 4009 7070

Web: <http://www.zf.com>

Latitude: -23.4290355

Longitude: -47.3920908

ZF do Brasil Ltda. - Sorocaba Plant-II

Address: Av. Conde Zeppelin, 1935
Sorocaba
Sao Paulo
18103-905
Brazil

Tel: +55 15 4009 2525

Fax: +55 15 4009 3110

Web: <http://www.zf.com>

Latitude: -23.432694

Longitude: -47.3950085

ZF do Brasil Ltda. - São Bernardo do Campo Plant

Address: Avenida Piraporinha
1000 Jordanópolis
São Bernardo do Campo
Sao Paulo
CEP 09891-901
Brazil

Tel: +55 11 3343 3000

Fax: +55 11 3343 3205

Web: <http://www.zf.com>

Latitude: -23.6898429

Longitude: -46.5648481

China

Sachs Automotive Components & Systems Shanghai Co. Ltd.

Address: 4440 Yuanjiang Road
Mnhang
Shanghai
201111
China

Tel: +86 21 2416 9544

Fax: +86 21 2416 9401

Web: <http://www.zf.com>

Latitude: 31.043843

Longitude: 121.38213

Shanghai Sachs Huizhong Shock Absorber Co. Ltd.

Address: No. 280 Shenwang Road
Xinzhuang Industrial Zone
Shanghai
Shanghai
201108
China

Tel: +86 21 5179 5188

Fax: +86 21 5179 2102

Web: <http://www.zf.com>

Latitude: 31.0853528

Longitude: 121.3837919

Shanghai Sachs Powertrain Components Systems Co. Ltd.

Address: 3189 Jihe Road
Huaxin Town
Qingpu
Shanghai
201708
China

Tel: +86 21 5979 6666

Fax: +86 21 5979 5141

Web: <http://www.zf.com>

Latitude: 31.2387444

Longitude: 121.2466153

TRW Automotive Research and Development (Shanghai) Co. Ltd.

Address: Bldg. No. 62
421 Hongcao Road
Shanghai
Shanghai
200233
China

Tel: +86 21 6120 2266

Fax: +86 21 6120 7058

Web: <http://www.trw.com>

Latitude: 31.1730943

Longitude: 121.4094706

TRW Automotive Technologies (Shanghai) Co., Ltd.

Address: 6F, No. 366 Taibo Road
Anting
Jiading
Shanghai
201814
China

Tel: +86 21 6016 5000

Fax: +86 21 6016 4848

Web: <http://www.trw.com>

Latitude: 31.312232

Longitude: 121.244218

TRW Fawer Commercial Vehicle Steering (Changchun) Co., Ltd.

Address: 4789 Dongnanhu St.
Changchun
Jilin Province
130033
China
Tel: +86 431 8705 3500
Fax: +86 431 8705 3501
Web: <http://www.trw.com>
Latitude: 43.845726
Longitude: 125.375242

ZF Fawer Chassis Technology (Changchun) Co. Ltd.

Address: No. 5000 East Nanhu Road
Changchun
Jilin Province
130033
China
Tel: +86 431 8580 0808
Fax: +86 431 8580 0908
Web: <http://www.zf.com>
Latitude: 43.8517496
Longitude: 125.384155

ZF Engineering Center (Shanghai) Ltd.

Address: No. 889 Jiujing Road
Jiuting Town
Songjiang
Shanghai
201615
China
Tel: +86 21 37617000
Fax: +86 21 37617400
Web: <http://www.zf.com>
Latitude: 31.1412716
Longitude: 121.2916585

ZF BAIC (Beijing) Chassis Systems Co., Ltd.

Address: No.1 Xinghai 1st Street
Beijing Economic-Technological
Development Area (BDA)
Beijing
Beijing
100176
China
Tel: +86 10 6751 8980
Fax: +86 10 6751 8941
Web: <http://www.zf.com>
Latitude: 39.747615
Longitude: 116.503357

ZF Chassisteck Commercial Vehicles (Shanghai) Co. Ltd.

Address: No. 1088 North Huancheng Road
Fengxian
Shanghai
201401
China
Tel: +86 21 6758 8600
Fax: +86 21 6758 8500
Web: <http://www.zf.com>
Latitude: 30.9517486
Longitude: 121.4238515

ZF Drivetech (Hangzhou) Co. Ltd.

Address: 18, Hi-Tech Ba Road
Xiaoshan Economic & Technological
Development Zone
Hangzhou
Zhejiang
311231
China

Tel: +86 571 2289 2002

Fax: +86 571 2289 6673

Web: <http://www.zf.com>

Latitude: 30.2408612

Longitude: 120.30649

ZF Drivetech (Suzhou) Co. Ltd.

Address: No. 18, Baihe Street
Suzhou Industrial Park
Suzhou
Jiangsu Province
215021
China

Tel: +86 512 6716 6559

Fax: +86 512 6716 6357

Web: <http://www.zf.com>

Latitude: 31.3247614

Longitude: 120.6650904

ZF Lemförder Automotive Systems (Shenyang) Co., Ltd.

Address: No. 8A-3, Kaifa Ave
Shenyang Economic & Technological
Development Zone
Shenyang
Liaoning Province
110141
China

Tel: +86 24 2534 8116

Fax: +86 24 2537 0930

Web: <http://www.zf.com>

Latitude: 41.7805996

Longitude: 123.3059012

ZF Powertrain Modules Shanghai Co., Ltd.

Address: No.1139, Huazhi Road
Qingpu
Shanghai
201708
China

Tel: +86 21 6700 2410

Fax: +86 21 6700 2485

Web: <http://www.zf.com>

Latitude: 31.2315372

Longitude: 121.2226308

Czech Republic

LucasVarity s.r.o.

Address: Na Roli 26
Jablonec nad Nisou
466 21
Czech Republic

Tel: +420 483 354 100

Fax: +420 483 354 104

Web: <http://www.trw.com>

Latitude: 50.7335965

Longitude: 15.1647543

ZF Engineering Plzeň s.r.o.

Address: University 1159/53
Plzeň
30100
Czech Republic
Tel: +420 373 736/ 311
Fax: +420 373 736/ 312
Web: <http://www.zf.com>
Latitude: 49.7542408
Longitude: 13.373051

France

ZF Fonderie Lorraine SAS

Address: Rue de la République
57214 Sarreguemines
Grosbliederstroff
Cedex
BP 41002
France
Tel: +33 3 87273000
Fax: +33 3 87273001
Web: <http://www.zf.com>
Latitude: 49.1510722
Longitude: 7.0307309

ZF Lemförder Metal France, SAS

Address: 1, Rue Pascal

Florange
Cedex
57192
France
Tel: +33 3 82591282
Fax: +33 3 82591289
Web: <http://www.zf.com>
Latitude: 49.3109805
Longitude: 6.1342614

ZF PWK Mécacentre SAS

Address: 18, Rue Edouard Martel
Saint Etienne
Cedex
42012
France
Tel: +33 4 77818630
Fax: +33 4 77818631
Web: <http://www.zf.com>
Latitude: 45.4184983
Longitude: 4.3801604

Germany

GAT - Gesellschaft für Antriebstechnik mbH

Address: Konrad-Zuse-Straße 3
Alsdorf
52477
Germany
Tel: +49 2404 9875/ 0
Fax: +49 2404 9875/ 529
Web: <http://www.zf.com>
Latitude: 50.87993
Longitude: 6.21725

Lucas Varity GmbH - Technical Center

Address: Carl-Spaeter-Strasse 8
Koblenz
56070
Germany
Tel: +49 261 8950
Fax: +49 261 8955359
Web: <http://www.trw.com>
Latitude: 50.3879
Longitude: 7.58273

TRW Automotive GmbH - Barsinghausen Technical Center

Address: Hannoversche Strasse 73
Barsinghausen
D-30890
Germany
Tel: +49 5105 5180
Fax: +49 5105 518433
Web: <http://www.trw.com>
Latitude: 52.31769
Longitude: 9.49198

TRW Automotive GmbH - Duesseldorf Technical Center

Address: Hansa-Allee 190
Duesseldorf
40547
Germany
Tel: +49 211 5840
Fax: +49 211 584595
Web: <http://www.trw.com>
Latitude: 51.237122
Longitude: 6.7379167

TRW Automotive GmbH - Radolfzell Technical Center

Address: Fritz-Reichle-Ring 8
Radolfzell
78315
Germany
Tel: +49 7732 939 1820
Fax: +49 7732 939 1818
Web: <http://www.trw.com>
Latitude: 47.7508785
Longitude: 8.9556545

TRW Engineered Fasteners & Components Selb GmbH

Address: Am Schreinersteich 4
Selb
95100
Germany
Tel: +49 9287 99650
Fax: +49 9287 9965165
Web: <http://www.trw.com>
Latitude: 50.17397
Longitude: 12.14814

ZF Friedrichshafen AG - Auerbach Plant

Address: Cherrysstraße 1
Auerbach
91275
Germany
Tel: +49 9643 18 0
Fax: +49 9643 18 1262
Web: <http://www.zf.com>
Latitude: 49.68549
Longitude: 11.62484

ZF Friedrichshafen AG - Brandenburg Plant

Address: Car Powertrain Technology
Brandenburg an der Havel
14767
Germany
Tel: +49 3381 37 0
Fax: +49 3381 37 2030
Web: <http://www.zf.com>
Latitude: 52.4125287
Longitude: 12.5316444

ZF Friedrichshafen AG - Diepholz Plant-I

Address: Siemensstraße 4
Diepholz
49356
Germany
Tel: +49 5474 60 0
Fax: +49 5474 60 3709
Web: <http://www.zf.com>
Latitude: 52.59323
Longitude: 8.34474

ZF Friedrichshafen AG - Diepholz Plant-II

Address: Dr.-Jürgen-Ulderup-Straße 11
Diepholz
49356
Germany
Tel: +49 5474 60 0
Fax: +49 5474 60 3709
Web: <http://www.zf.com>
Latitude: 52.59162
Longitude: 8.34406

ZF Friedrichshafen AG - Eitorf Plant

Address: Bogestraße 50
Eitorf
53783
Germany
Tel: +49 2243 12 0
Fax: +49 2243 12 234
Web: <http://www.zf.com>
Latitude: 50.7699912
Longitude: 7.4642502

ZF Friedrichshafen AG - Friedrichshafen Plant-I

Address: Ehlersstraße 50
Friedrichshafen
88038
Germany
Tel: +49 7541 77 0
Fax: +49 7541 77/908000
Web: <http://www.zf.com>
Latitude: 47.66046
Longitude: 9.49178

ZF Friedrichshafen AG - Research & Development Center

Address: Hauptverwaltung und Zentrale Forschung
und Entwicklung
Friedrichshafen
88038
Germany
Tel: +49 7541 77 0
Fax: +49 7541 90 8000
Web: <http://www.zf.com>
Latitude: 47.6617648
Longitude: 9.4800113

ZF Friedrichshafen AG - Kressbronn Technical Center

Address: Argenstraße 30
Gewerbegebiet Süd
Kressbronn
88079
Germany
Tel: +49 7541 77 6000
Fax: +49 7541 77 6243
Web: <http://www.zf.com>
Latitude: 47.59753
Longitude: 9.59185

ZF Friedrichshafen AG - Saarbrücken Plant-I

Address: Untertürkheimer Strasse 4
Werk 2
Saarbrücken
66117
Germany
Tel: +49 681 920 2497
Fax: +49 681 920 2388
Web: <http://www.zf.com>
Latitude: 49.21293
Longitude: 6.97308

ZF Friedrichshafen AG - Saarbrücken Plant-II

Address: Untertürkheimer Str. 12
Werk 3
Saarbrücken
66117
Germany
Tel: +49 681 920 0
Fax: +49 681 920 2377
Web: <http://www.zf.com>
Latitude: 49.2115612
Longitude: 6.9792554

ZF Friedrichshafen AG - Schweinfurt Plant-I

Address: Röntgenstraße 2
Schweinfurt
97424
Germany
Tel: +49 9721 98 0
Fax: +49 9721 98 2290
Web: <http://www.zf.com>
Latitude: 50.02661
Longitude: 10.22602

ZF Friedrichshafen AG - Schweinfurt Plant-II

Address: Ernst-Sachs-Straße 62
Schweinfurt
97424
Germany
Tel: +49 9721 98 0
Fax: +49 9721 98 2290
Web: <http://www.zf.com>
Latitude: 50.0317897
Longitude: 10.2120988

ZF Friedrichshafen AG - Thyrnau Plant

Address: Graf-Zeppelin-Straße 1
Thyrnau
94136
Germany
Tel: +49 851 494 0
Fax: +49 851 494 4854
Web: <http://www.zf.com>
Latitude: 48.60595
Longitude: 13.53994

ZF Race Engineering GmbH

Address: Ernst-Sachs-Straße 62
Schweinfurt
97424
Germany
Tel: +49 9721 98 4300
Fax: +49 9721 98 4299
Web: <http://www.zf.com>
Latitude: 50.0317897
Longitude: 10.2120988

ZF Friedrichshafen AG - Technical Center

Address: Graf-von-Soden-Platz 1
Friedrichshafen
D-88046
Germany
Tel: +49 7541 770
Fax: +49 7541 77 908 000
Web: <http://www.zf.com>
Latitude: 47.66757
Longitude: 9.49342

ZF Friedrichshafen AG - Saarbrücken Research Center-I

Address: Postfach 65 04 64
Saarbrücken
66143
Germany
Tel: +49 681 920 0
Fax: +49 681 920 2377
Web: <http://www.zf.com>
Latitude: 49.2401572
Longitude: 6.9969327

ZF Friedrichshafen AG - Saarbrücken Research Center-II

Address: Werk 6
Großblittersdorfer Straße 247
Saarbrücken
66119
Germany
Tel: +49 681 920 0
Fax: +49 681 920 2377
Web: <http://www.zf.com>
Latitude: 49.1988245
Longitude: 7.0172762

India

Brakes India Limited - Padi Plant

Address: Padi
Chennai
Tamil Nadu
600 050
India
Tel: +91 44 2625 8161
Fax: +91 44 2625 7010
Web: <http://www.trw.com>
Latitude: 13.091141
Longitude: 80.1832012

ZF Steering Gear (India) Ltd.

Address: Gat No 1242/44
Village Vadu Budurk
Taluka - Shirur
Pune
Maharashtra
412216
India
Tel: +91 2137 305100
Fax: +91 2137 305302
Web: <http://www.zf.com>
Latitude: 18.6622262
Longitude: 74.0535126

Italy**TRW Automotive Italia S.r.l. - Gardone Val Trompia Plant**

Address: Via Val Trompia, n. 125
Gardone Val Trompia
BS
25063
Italy
Tel: +39 30 89181
Fax: +39 30 83346 4
Web: <http://www.trw.com>
Latitude: 45.6461742
Longitude: 10.2006956

Japan**TRW Automotive Japan Co., Ltd. - Yokohama Research Center**

Address: 1-16-5 Shinyamashita Naka-ku
Yokohama
Kanagawa
231-0801
Japan
Tel: +81 45 628 5700
Fax: +81 45 628 5701
Web: <http://www.trw.com>
Latitude: 35.4424274
Longitude: 139.6568466

ZF Japan Co., Ltd.

Address: 8F2-8-1, Higashi-Shimbashi
Mnato-ku
Tokyo
105-0021
Japan
Tel: +81 3 4590 7700
Fax: +81 3 4590 7770
Web: <http://www.zf.com>
Latitude: 35.664582
Longitude: 139.7613745

Mexico**TRW Sistemas de Direcciones, S.A. de C.V. - El Marques Plant**

Address: Av. De las Fuentes
No. 29 Industrial Park
Bernardo Quintana
El Marques
Queretaro
76246
Mexico
Tel: +52 442 211 0851
Fax: +52 442 211 0890
Web: <http://www.trw.com>
Latitude: 20.5699866
Longitude: -100.2803965

ZF Chassis Components Toluca S.A. de C.V.

Address: Calle 7 Norte s / n
Apple J. Lots 2 and 3
Parque Industrial Toluca 2000
Toluca
CP 50200
Mexico

Tel: +52 722 2769800

Fax: +52 722 2799321

Web: <http://www.zf.com>

Latitude: 19.2826098

Longitude: -99.6556653

ZF Powertrain Modules Saltillo S.A. de C.V.

Address: 1010-2 Metallurgical Industry
Industrial Park Ramos Arizpe
Ramos Arizpe
25900
Mexico

Tel: +52 844 411 5700

Fax: +52 844 411 5748

Web: <http://www.zf.com>

Latitude: 25.538332

Longitude: -100.9439689

Poland

TRW Polska Sp. z o.o. - Airbag Plant

Address: ul. Rolnicza 33
Czestochowa
42-200
Poland

Tel: +48 34 343 10 03

Fax: +48 34 343 10 10

Web: <http://www.trw.com>

Latitude: 50.8291304

Longitude: 19.1270256

Portugal

Dalphi Metal Portugal, S.A.

Address: Alto das Cerejas
Vila Nova de Cerveira
Campos
4920-011
Portugal

Tel: +351 251 700 300

Fax: +351 251 700 303

Web: <http://www.trw.com>

Latitude: 41.9709562

Longitude: -8.6886136

Slovakia

ZF Sachs Slovakia a.s. - Trnava Plant

Address: Strojársená 2
Trnava
91702
Slovakia

Tel: +421 33 5959 111

Fax: +421 33 5959 300

Web: <http://www.zf.com>

Latitude: 48.3568243

Longitude: 17.5708081

South Korea

TRW Controls & Fasteners Inc. - Inchon Plant

Address: 52, Aenggogae-ro
556 beon-gil
Namdong-gu
Inchon
405-821
South Korea
Tel: +82 32 816 9181
Fax: +82 32 816 9189
Web: <http://www.trw.com>
Latitude: 37.3944155
Longitude: 126.704517

TRW Controls & Fasteners Inc. - Ulsan Plant

Address: 45, Songdo-gil
Buk-gu
Ulsan
683-360
South Korea
Tel: +82 52 219-0100
Fax: +82 52 287-2935
Web: <http://www.trw.com>
Latitude: 35.5647442
Longitude: 129.3706757

ZF Lemfoerder Chassis Technology Korea Co., Ltd.

Address: 23B4L, Gumi National Industrial
Complex 4
Gupo-dong
Gumi City
Gyeongsangbuk-Do
730-400
South Korea
Tel: +82 54 470 8600
Fax: +82 54 470 8699
Web: <http://www.zf.com>
Latitude: 36.1314469
Longitude: 128.4192541

ZF Sachs Korea Co. Ltd.

Address: # 173 Seong sanpaechong-ro
Changwon-si
Seongsan-gu
Gyeongsangman-do
642-020
South Korea
Tel: +82 55 239 1600
Fax: +82 55 239 1604
Web: <http://www.zf.com>
Latitude: 35.2130747
Longitude: 128.6752632

Spain

Dalphi Metal Espana, S.A. - Vigo Plant

Address: Road Caramuxo, 35
Vigo
36213
Spain
Tel: +34 986 29 31 29
Fax: +34 986 20 59 05
Web: <http://www.trw.com>
Latitude: 42.2054105
Longitude: -8.7565166

Dalphi Metal Espana, S.A. - Boecillo Technical Center

Address: Parque Tecnologico de Boecillo Plot 206
Boecillo
47151
Spain
Tel: +34 983 54 66 48
Fax: +34 983 54 81 84
Web: <http://www.trw.com>
Latitude: 41.5415157
Longitude: -4.7005972

ZF Lemförder TVA, S.A.

Address: Apartado P.O. Box 7
Ermua
Bizkaia
48260
Spain
Tel: +34 943 172150
Fax: +34 943 174346
Web: <http://www.zf.com>
Latitude: 43.1873519
Longitude: -2.5037039

Sweden**TRW Automotive Sweden AB**

Address: Box 83
Arvidsjaur
933 22
Sweden
Web: <http://www.trw.com>
Latitude: 65.590278
Longitude: 19.281944

Turkey**HEMA-TRW Otomotiv Direksiyon Sistemleri A.S**

Address: Organize Sanayi Bölgesi
Cerkezköy
59501
Turkey
Tel: +90 282 758 1040
Fax: +90 216 758 1073
Web: <http://www.trw.com>
Latitude: 41.2735514
Longitude: 28.0408457

ZF Lemförder Aks Modülleri Sanayi ve Ticaret A.S.

Address: Atatürk Organize Sanayi Bölgesi
10003 Sokak No. 13
Çiğli
İzmir
35620
Turkey
Tel: +90 232 3981300
Fax: +90 232 3768718
Web: <http://www.zf.com>
Latitude: 38.4773038
Longitude: 27.0351524

ZF Sachs Süspansiyon Sistemleri Sanayi ve Ticaret A.S.

Address: Gebze Organize Sanayi Bölgesi
400. Sokak
P.K. 1018 Gebze/Kocaeli
Gebze
Kocaeli
41480
Turkey

Tel: +90 262 678 0500

Fax: +90 262 751 1345

Web: <http://www.zf.com>

Latitude: 40.7967181

Longitude: 29.4410569

United Kingdom**TRW Automotive - Solihull Technical Center**

Address: Stratford Rd. Shirley
Solihull
Westmidlands
B90 4AX
United Kingdom

Tel: +44 121 506 5000

Fax: +44 121 506 5001

Web: <http://www.trw.com>

Latitude: 52.3965169

Longitude: -1.816675

TRW Conekt

Address: Stratford Road, Shirley
Solihull
Westmidlands
B90 4GW
United Kingdom

Tel: +44 121 627 4242

Fax: +44 121 627 4243

Web: <http://www.trw.com>

Latitude: 52.3965169

Longitude: -1.816675

TRW EPS Limited - Technical Center

Address: Stratford Road, Shirley
Solihull
Westmidlands
B90 4AX
United Kingdom

Tel: +44 121 627 4141

Fax: +44 121 627 3711

Web: <http://www.trw.com>

Latitude: 52.3965169

Longitude: -1.816675

TRW Limited - Cirencester Technical Centre

Address: Phoenix Way
Cirencester
Gloucestershire
GL7 1QG
United Kingdom

Tel: +44 1285 646747

Fax: +44 1285 646730

Web: <http://www.trw.com>

Latitude: 51.7123429

Longitude: -1.9701987

ZF Lemforder UK Ltd. - Solihull Plant

Address: Birmingham International Park
Starley Way
Bickenhill
Solihull
West Midlands
B37 7GN
United Kingdom
Tel: +44 121 526 4441
Fax: +44 121 782 4600
Web: <http://www.zf.com>
Latitude: 52.4582938
Longitude: -1.7296807

ZF Lemforder UK Ltd. - Wednesbury Plant

Address: Heath Road
P.O. Box 35
Darlaston
Wednesbury
West Midlands
WS10 8BH
United Kingdom
Tel: +44 121 526 4441
Fax: +44 121 526 3579
Web: <http://www.zf.com>
Latitude: 52.5751865
Longitude: -2.0244522

TRW Limited c/o MIRA Ltd.

Address: K1 Bldg. Watling St.
Nuneaton
Warwickshire
CV10 0TU
United Kingdom
Tel: +44 24 7635 0843
Fax: +44 24 7632 0664
Web: <http://www.trw.com>
Latitude: 52.5668404
Longitude: -1.5112281

United States**TRW Automotive U.S. LLC - Livonia Technical Center**

Address: 12001 Tech Center Dr.
Livonia
Michigan
48150
United States
Tel: +1 734 855 2600
Fax: +1 734 855 3345
Web: <http://www.trw.com>
Latitude: 42.3725367
Longitude: -83.3418583

TRW Vehicle Safety Systems Inc. - Romeo Technical Center

Address: 14761 East 32 Mile Road
Romeo
Michigan
48065
United States
Tel: +1 586 752 1409
Fax: +1 586 752 1374
Web: <http://www.trw.com>
Latitude: 42.8045616
Longitude: -82.9856738

ZF Axle Drives Marysville LLC

Address: 2900 Busha Highway
Marysville
Michigan
48040
United States
Tel: +1 810 989 8700
Fax: +1 810 326 2094
Web: <http://www.zf.com>
Latitude: 42.8741981
Longitude: -82.4854108

ZF Chassis Systems Chicago LLC

Address: 3400 East 126th Street
Chicago
Illinois
60633
United States
Tel: +1 773 371 4550
Fax: +1 773 371 4552
Web: <http://www.zf.com>
Latitude: 41.669006
Longitude: -87.541075

ZF North America Inc. - Technical Center

Address: 15811 Centennial Drive
Northville
Michigan
48168
United States
Tel: +1 734 416 6200
Fax: +1 734 416 8331
Web: <http://www.zf.com>
Latitude: 42.3994161
Longitude: -83.502282

Kelsey-Hayes Company - Brimley Testing Centre

Address: 21105 West M-28 Building 6
Brimley
Michigan
49715
United States
Tel: +1 906 248 3882
Fax: +1 906 248 5520
Web: <http://www.trw.com>
Latitude: 46.3588589
Longitude: -84.8030163

Kelsey-Hayes Company - Winona Technical Center

Address: 5676 Industrial Park Road
Winona
Minnesota
55987-0649
United States
Tel: +1 507 457 3750
Fax: +1 507 452 5051
Web: <http://www.trw.com>
Latitude: 44.074506
Longitude: -91.7116163

TRW Automotive U.S. LLC - Farmington Hills Technical Center

Address: 24175 Research Dr.
Farmington Hills
Michigan
48335
United States
Tel: +1 248 478 7210
Fax: +1 248 478 7241
Web: <http://www.trw.com>
Latitude: 42.467118
Longitude: -83.4285979

TRW Automotive U.S. LLC - Washington Technical Center

Address: 4505 W. 26 Mile Road
East Building
Washington
Michigan
48094
United States
Tel: +1 586 232 7200
Fax: +1 586 232 8356
Web: <http://www.trw.com>
Latitude: 42.7143643
Longitude: -83.067977

TRW Vehicle Safety Systems Inc. - Washington Technical Center

Address: 4505 W. 26 Mile Road
Washington
Michigan
48094
United States
Tel: +1 586 232 7200
Web: <http://www.trw.com>
Latitude: 42.7143643
Longitude: -83.067977

Kelsey-Hayes Company - Locke Test Track

Address: 4435 Sherwood Road
Williamston
Michigan
48895
United States
Web: <http://www.trw.com>
Latitude: 42.714613
Longitude: -84.1948709

TRW Automotive U.S. LLC - Livonia Plant

Address: 12025 Tech Center Dr.
Livonia
Michigan
48150
United States
Tel: +1 734 855 2600
Fax: +1 734 855 2997
Web: <http://www.trw.com>
Latitude: 42.3736849
Longitude: -83.3401779

Kelsey-Hayes Company - Winona Plant-II

Address: 5731 Industrial Park Road
Machine Building Division
Winona
Minnesota
55987
United States
Tel: +1 507 457 3750
Web: <http://www.trw.com>
Latitude: 44.076536
Longitude: -91.714249

ZF Electronics Systems Pleasant Prairie LLC

Address: 11200 88th Avenue
Pleasant Prairie
Wisconsin
53158
United States

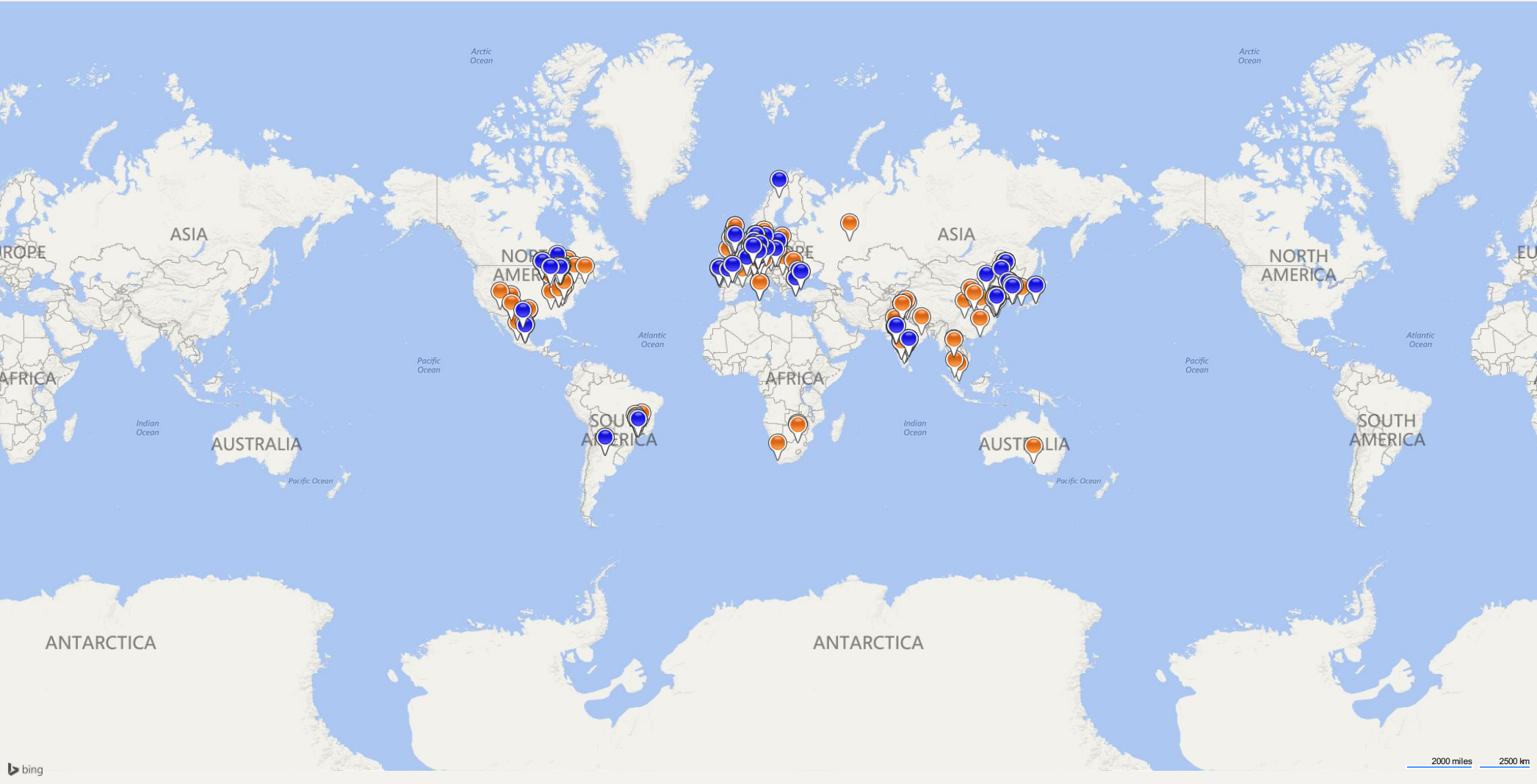
Tel: +1 262 9426500

Fax: +1 262 9426566

Web: <http://www.zf.com>

Latitude: 42.5143266

Longitude: -87.9141827



Map Key
☒ Manufacturing Plants ☒ R & D Addresses