

SUPPLEMENT TO

Automotive News

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Suppliers ready for next gold rush

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Global vehicle production may be leveling off for parts suppliers, but the fledgling market for self-driving cars is already morphing into their next gold rush.

In 2020, automakers are expected to produce 85.9 million vehicles equipped with collision avoidance systems, up from 10.8 million last year, according to a forecast by Gartner Research.

That's eye-popping growth in an industry that was beginning to think the decade's roaring business cycle was nearing its end.

And it explains why companies such as Bosch, Continental and Autoliv — the mega-suppliers that dominate the *Automotive News* list of the Top 100 Global Suppliers — are promoting their ability to integrate the necessary array of sensors, computer chips and software.

"Revenue is growing extremely fast," Mike Ramsey, a Detroit-based Gartner analyst, said of the emergence of autonomous technologies. And the new trend favors mega-suppliers "who are best positioned to take advantage."

That's because they enjoy economies of scale, deep pockets for product development, and have long-standing relationships with automakers, Ramsey said.

"If they don't deliver, the automakers can wring money out of them without putting them out of business," Ramsey noted. "The automakers feel a lot of security dealing with the big suppliers."

Economies of scale

Since r&d costs are considerable, the world's largest mega-suppliers hope to make the new technologies competitive by exploiting economies of scale.

Bosch, the top-ranked company on *Automotive News*'s Top 100 Global Suppliers list, gener-



Top-ranked supplier Bosch will spend \$336 million over the next five years to develop artificial intelligence for self-driving cars.

ates annual sales of more than 1 billion euros (\$1.12 billion) for the sensors, software and actuators needed for collision avoidance and self-driving vehicles.

Now the company is upping the ante. In May, Bosch announced it will spend \$336 million over the next five years to develop artificial intelligence for self-driving vehicles.

But even a behemoth such as Bosch is relying on newly formed partnerships to fill gaps in its menu of technologies, rather than rushing into the new world alone. In April, Bosch formed an alliance with Daimler AG to produce a fleet of driverless taxis. The company also has announced plans to manufacture vehicle processors with Silicon Valley's Nvidia, and it is working with digital map maker HERE to develop crowd-sourced road maps.

The task of designing self-driving vehicles "is too big for one company alone," said Kay Stepper, Bosch's vice president of automated

driving. "We need the partnerships."

While Bosch is forming partnerships to gain access to key technologies, other companies are making acquisitions, and some of the deals have been blockbusters.

ZF Friedrichshafen — ranked No. 2 globally, with 2016 original-equipment sales of \$38.5 billion — roiled competitors in 2014 with the \$12.4 billion acquisition of TRW Automotive, a key producer of radar, cameras and brakes.

Last year, chipmaker Qualcomm Inc. disclosed a \$38 billion bid for NXP Semiconductors, the auto industry's top supplier of semiconductors. And this year, Intel Corp. announced the \$15.3 billion takeover of Mobileye N.V., the top producer of obstacle-detection software.

In all three cases, the bidders sought instant status in a key new technology. In this market, patience is not a virtue.

Large suppliers also have scrambled to acquire smaller companies — often Silicon Valley startups — to fill gaps in their technology portfolios.

In 2015, Delphi Automotive (No. 12, with \$16.7 billion global sales) bought Ottomatika Inc., a Pittsburgh-based supplier of automated-driving software.

The same year, Delphi invested in Quanergy, a startup developing solid-state lidar. And in 2017, Delphi partnered with two Israeli firms and a German company that specialize in technology for cloud connectivity.

Delphi is marketing itself as a company that can integrate a customer's sensors, software and computer chips required for self-driving cars. Other companies are taking the same approach.

Agnostic software

Fully automated vehicles won't hit the market until next decade, but sales of their core technologies — such as radar, cameras

and obstacle detection software — are booming already.

That has been a windfall for Autoliv Inc., the world's top airbag producer, and also a major supplier of radar and cameras. Autoliv's active safety electronics division reported sales of \$740 million last year, up 17 percent from 2015. The company expects sales will continue to grow 15 percent annually through 2020.

That's a nice boost for Autoliv — which ranks 23rd with sales of \$10.1 billion — because it is occurring at a time when the airbag market has matured through saturation.

The key to Autoliv's strategy is Zenuity, the company's newly formed joint venture with Volvo Car Corp. that will develop the decision-making software that allows self-driving cars to plot their course.

The partnership hopes to have its software production-ready in 2019, which means a customer could put it on the road in 2021.

Like Bosch, ZF, Delphi and others, Autoliv is positioning itself as a company that can manage the complex task of integrating sensors, software, actuators and computer chips.

Which is why Zenuity is so important. The goal is to design decision-making software that can be used with any supplier's sensors, actuators and control units — not just Autoliv's own hardware, said Johan Lofvenholm, president of Autoliv Electronics.

"Zenuity is a software-only venture," Lofvenholm said. "We have to make a system that is 'hardware agnostic,' so that we can make sure we have maximum versatility for customers."

To be sure, Autoliv and other mega-suppliers have made a big bet on a technology that is a decade from mass-market acceptance. But that doesn't bother Lofvenholm.

"Autonomous driving is the logical next step," he said. "That's how we are approaching this whole segment." **AN**

Top 100 global OEM parts suppliers – Ranked by sales of original equipment parts in 2016

2016 rank	Company	Address	Executive	Total global OEM automotive parts sales (dollars in millions) 2016	Total global OEM automotive parts sales (dollars in millions) 2015	Percent North America 2016	Percent Europe 2016	Percent Asia 2016	Percent rest of world 2016	Products	2015 rank
1	Robert Bosch GmbH (49) 711-811-0; bosch.com	Postfach 106050 Stuttgart, D-70049, Germany	Volkmar Denner chairman	\$46,500 e	\$44,825 e	19	46	33	2	Gasoline systems, diesel systems, electric systems; electrical drives, car multimedia, electronics & steering systems, battery technology	1
2	ZF Friedrichshafen AG (49) 7541-77-0; zf.com	Graf-von-Soden-Platz 1, Friedrichshafen, Baden-Wuerttemberg 88046, Germany	Stefan Sommer CEO	38,465 f	29,518 f	27	48	22	3	Transmissions, chassis components & systems, steering systems, clutches, dampers & active & passive safety systems	5
3	Magna International Inc.* (905) 726-2462; magna.com	337 Magna Drive Aurora, Ontario L4G 7K1, Canada	Donald Walker CEO	36,445	32,134	56	34	9	1	Body, chassis, exterior, seating, powertrain, electronic, vision, & closure & roof systems & modules	3
4	Denso Corp. (81) 566-25-5511; denso.com	1-1 Showo-cho Kariya, Aichi 448-8661, Japan	Nobuaki Katoh chairman	36,184 fe	36,030 fe	24	13	62	1	Thermal, powertrain control, electronic & electric systems, small motors & telecommunications	2
5	Continental AG (49) 511-938-01; conti-online.com	Vahrenwalder Strasse 9 Hanover, 30165, Germany	Elmar Degenhart CEO	32,680	31,480	26	50	21	3	Advanced driver assistance systems, electronic brakes, stability management systems, tires, foundation brakes, chassis systems, safety system electronics, telematics, powertrain electronics, injection systems, gasoline turbochargers, interior modules, instrumentation, technical elastomers	4
6	Aisin Seiki Co. (81) 566-24-8441; aisin.co.jp	2-1 Asahi-Machi Kariya, Aichi 448-8650, Japan	Kanshiro Toyoda chairman	31,389 f	25,904 f	18	9	71	2	Body, brake & chassis systems, electronics & drivetrain & engine components	7
7	Hyundai Mobis (82) 2-2018-5114; mobis.co.kr	203 Tehera-ro, Gangnam-gu Seoul, 06141, Korea	Young Deuk Lim CEO	27,207	26,262	20	12	65	3	Chassis, cockpit & front ends, brakes, steerings, suspensions, airbags & lamps automotive electronics	6
8	Faurecia (33) 1-72-36-70-00; faurecia.com	2 Rue Hennape Nanterre, 92735, France	Patrick Koller CEO	20,700	22,967	29	50	17	4	Seating, emissions control technologies & interior systems	8
9	Lear Corp. (248) 447-1500; lear.com	21557 Telegraph Road Southfield, MI 48033, USA	Matthew Simoncini president & CEO	18,558	18,211	40	38	19	3	Seating & electrical distribution systems	10
10	Valeo SA (33) 1-40-55-20-20; valeo.com	43 Rue Bayen Paris, 75017, France	Jacques Aschenbroich chairman & CEO	17,384 e	15,842 e	22	49	27	2	Micro hybrid systems, electrical & electronic systems, thermal systems, transmissions, wiper systems, camera/sensor technology, security systems & interior controls	11
11	Adient** (734) 254-5000; adient.com	49200 Halyard Drive Plymouth, MI 48170, USA	Bruce McDonald CEO	16,837 f	–	46	40	12	2	Seating & seating systems & components	–
12	Delphi Automotive (248) 813-2000; delphi.com	5725 Delphi Drive Troy, MI 48098, USA	Kevin Clark president & CEO	16,661	15,165	37	35	26	2	Mobile electronics, powertrain, safety, thermal, controls & security systems, electrical/electronic architecture & in-car entertainment technologies	12
13	Yazaki Corp. (81) 0559-65-3002; yazaki-group.com	1500 Mishuku, Susono City, Shizuoka Prefecture 410-1194, Japan	Shinji Yazaki president	15,600	14,104 e	26	17	52	5	Wiring harnesses, connectors, junction boxes, power distribution boxes, instrumentation & high voltage systems	13
14	Mahle GmbH (49) 711-501-0; mahle.com	Pragstrasse 26-46 Stuttgart, 70376, Germany	Wolf-Henning Scheider chairman & CEO	13,635 f	11,339 f	26	50	19	5	Piston systems, cylinder components, valvetrain systems, air & liquid management systems, vehicle climatization, climate compressors, engine & powertrain cooling, battery cooling, actuators, electric drives, starters & alternators & electrical driven auxiliaries	17
15	Yanfeng Automotive Trim Systems Co. (86) 21-333-81000; yanfengco.com	399 Liuzhou Road Shanghai, 200235, China	Ming kang He general manager	12,991	11,242	22	11	67	–	Interiors, exteriors, electronics, seating & safety	18
16	Sumitomo Electric Industries (81) 6-6220-4141; sei.co.jp	5-33 Kitahama, 4-chome, Chuo-ku Osaka City, 541-0041, Japan	Masayoshi Matsumoto president & CEO	12,835 fe	13,685 f	26	–	–	–	Electrical distribution systems, electronics & connection systems	14
17	Panasonic Automotive Systems Co. (81) 6-6908-1121; panasonic.net	1006, Oaza Kadoma Kadoma City, Osaka 571-8501, Japan	Kazuhiro Tsuga president	11,988 fe	9,987 fe	31	9	58	2	Premium audio systems, navigation systems, compressors, batteries, motors, monitors, sensors, switches & HUDs	23
18	Thyssenkrupp AG (49) 201-8440; thyssenkrupp.com	Thyssenkrupp Allee 1 Essen, 45143, Germany	Heinrich Hiesinger CEO	10,986 f	11,395 f	24	66	8	2	Steering, dampers, springs & stabilizers, camshafts, forged machined components, bearings, undercarriage systems & components, axle assembly, assembled camshafts, forged crankshafts & drivetrain components, high-strength lightweight steels, electrical steel, tailored tempering, cell & battery production lines & valve control systems	16
19	Schaeffler AG (49) 9132-82-0; schaeffler.com	Industriestrasse 1-3 Herzogenaurach, Bavaria 91074, Germany	Klaus Rosenfeld CEO	10,883 e	10,914 e	20	50	25	5	Anti-friction bearings, engine, chassis & transmission components, wheel & axle bearings, clutch & transmission systems, dampers & e-mobility products	22
20	JTEKT Corp. (81) 52-527-1900; jtekt.co.jp	15th Floor, Midland Square, 4-7-1 Meieki Nakamura-ku, Nagoya 450-8515, Japan	Tetsuo Agata president	10,778	11,670 f	21	18	56	5	Bearings, steering systems, driveline systems & machine tools	15
21	BASF SE (49) 621-60-0; basf.com	Carl-Bosch-Strasse 38 Ludwigshafen, 67056, Germany	Kurt Bock chairman	10,371 f	10,613 f	26	47	20	7	Coatings, catalysts, engineering plastics, polyurethanes, coolants, brake fluids, lubricants & battery materials	19

e = estimate f = fiscal year fe = fiscal year estimate

*May include countries in North America, Europe & Asia.

**Adient spun off from Johnson Controls on Oct. 31, 2016, to become an independent company.

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Top 100 global OEM parts suppliers – Ranked by sales of original equipment parts in 2016

2016 rank	Company	Address	Executive	Total global automotive parts sales (dollars in millions) 2016	Total global automotive parts sales (dollars in millions) 2015	Percent North America 2016	Percent Europe 2016	Percent Asia 2016	Percent rest of world 2016	Products	2015 rank
22	CalsonicKansei Corp. (81) 3-5385-0111; calsonickansei.co.jp	2-1917 Nisshin-cho, Kita-ku Saitama City, Saitama 331-8501, Japan	Hiroshi Moriya president, CEO & COO	\$10,085 fe	\$10,232 fe	32	11	20	37	Climate control, engine cooling & exhaust systems, instrument clusters, 20 console boxes, cockpit modules, instrument panels & front-end modules	
23	Autoliv Inc. (46) 8-587-20-600; autoliv.com	Klarabergsviadukten 70, Sec. B, 7th Flr. Stockholm, SE-107 24, Sweden	Jan Carlsson chairman, president & CEO	10,074	9,170	34	30	27	9	Airbags, seat belts, safety electronics, steering wheels, brake control systems, radar, night vision & camera vision systems	25
24	Toyota Boshoku Corp. (81) 566-23-6611; toyota-boshoku.com	1-1 Toyoda-cho Kariya-shi, Aichi 448-8651, Japan	Shuhei Toyoda chairman	9,683 fe	10,075 fe	19	6	72	3	Seats, door trim, carpet, headliners, oil & air filters, door panels & fabrics & substrates	21
25	Hitachi Automotive Systems (81) 3-4232-5300; hitachi-automotive.co.jp	Shin-Otemachi Bldg., 2-1, Otemachi 2-chome Chiyoda-ku, Tokyo 100-0004, Japan	Hideaki Seki president & CEO	9,100 fe	9,240 fe	27	–	–	–	Engine management, electric powertrain & drive control	26
26	Samvardhana Motherson Group (91) 120-6679551; motherson.com	Plot No. 1, Sector 127, Noida - Greater Noida Expwy., Noida, U.P. 201301, India	Vivek Chaand Sehgal chairman	9,075 fe	7,245 fe	19	51	26	4	Rearview mirrors, plastic modules cockpits/IPs, door trims & bumpers, wiring harnesses, molded plastic parts & assemblies, molded & extruded rubber components, lighting systems, air intake manifolds, pedal assemblies, shock absorbers, HVAC systems & roof hatches	31
27	BorgWarner Inc. (248) 754-9200; borgwarner.com	3850 Hamlin Road Auburn Hills, MI 48326, USA	James Verrier president & CEO	9,070	8,023	33	40	14	13	Turbochargers, engine valve-timing systems, ignition systems, emissions systems, thermal systems, transmission-clutch systems, transmission-control systems, torque management systems & rotating electric machines	28
28	Magneti Marelli S.p.A. (39) 02-972-27-111; magnetimarelli.com	Viale Aldo Borletti 61/63 Corbetta, Milan 20011, Italy	Pietro Gorlier CEO	8,232 f	7,425 f	15	66	10	9	Lighting, powertrain, electronics, suspensions systems, active & passive shock absorbers, exhaust systems & plastic parts	30
29	Plastic Omnium Co. (33) 40-87-64-00; plasticomnium.com	1 allée Pierre Burelle Levallois Cedex, 92533, France	Laurent Burelle chairman & CEO	7,968	6,210	25	55	17	3	Fascias, front-end modules, rear-end modules, fenders, body panels & fuel systems	37
30	Gestamp (34) 91-379-19-99; gestamp.com	Alfonso XII, 16 Madrid, Madrid 28014, Spain	Francisco Riberas president & CEO	7,945	8,511	21	60	14	5	Metal components & assemblies, body-in-white & chassis & mechanisms	27
31	Tenneco Inc. (847) 482-5000; tenneco.com	500 N. Field Drive Lake Forest, IL 60045, USA	Gregg Sherrill chairman & CEO	7,357	5,972	49	35	16	–	Emission control systems, manifolds, catalytic converters, diesel aftertreatment systems, catalytic reduction mufflers, shock absorbers, struts & electronic suspension products & systems	42
32	Koito Manufacturing (81) 3-3443-7111; koito.co.jp	4-8-3 Takanawa, Minato-ku Tokyo, 108-8711, Japan	Masahiro Ohtake chairman & CEO	7,219 f	5,879 f	23	4	10	65	Exterior lighting	44
33	HELLA KGaA Hueck & Co. (49) 2941-38-0; hellacompany.com	Rixbecker Strasse 75 Lippstadt 59552, Germany	Rolf Breidenbach CEO	7,100 fe	7,192 fe	17	59	24	–	Electronic & lighting components & systems32	
34	Hyundai-WIA Corp. (82) 55-280-9114; hyundai-wia.com	391-8 Gaeumjeong-dong, Changwon, Gyeongnam 641110, South Korea	Jun-Mo Yoon president & CEO	7,043 f	7,480 f	1	8	83	8	Halfshafts, sideshafts, engines, transfer cases, power transfer units, chassis modules, axles & material parts	29
35	Toyoda Gosei Co. (81) 052-400-1055; toyoda-gosei.co.jp	1 Haruhinagahata Kiyosu Aichi, 452-8564, Japan	Tadashi Arashima chairman	6,996 f	7,239 fe	28	6	66	–	Safety, sealing & interior systems; optoelectronics, exterior trim, rubber/plastic functional & fuel systems	24
36	Brose Fahrzeugteile GmbH (49) 9561-21-0; brose.com	Max-Brose-Str. 1 Coburg, 96450, Germany	Juergen Otto CEO	6,783	6,705	25	53	21	1	Window regulators, door modules, power liftgate systems, seat structures & components, closure systems, electric motors & drives & electronics	34
37	GKN plc (44) 1527-533-600; gkn.com	P.O. Box 55, Redditch, Worcestershire B98 0AJ, United Kingdom	Philip Swash CEO, GKN Driveline	6,740	6,505	36	38	23	3	Driveline halfshafts, driveshafts & AWD; powder metal engine & transmission components; automotive structures & chassis systems	35
38	JATCO (81) 545-51-0047; jatco.co.jp	700-1, Imaizumi Fuji City, Shizuoka 417-8585, Japan	Teruaki Nakatsuka president & CEO	6,664 fe	6,282 fe	29	1	70	–	Automatic transmissions & continuously variable transmissions	36
39	Benteler Automobiltechnik GmbH (49) 5254-81-0; benteler.com	An der Talle 27-31 Paderborn, 33102, Germany	Laurent Favre CEO	6,486	6,383	22	56	12	10	Chassis components & modules, engine & exhaust systems, structural components, lightweight solutions & solutions for electro-mobility	
40	Flex-N-Gate Corp. (217) 278-2600; flex-n-gate.com	1306 E. University Ave. Urbana, IL 61802, USA	Shahid Khan chairman & CEO	6,434	6,102	91	6	2	1	Interior & exterior plastics, metal bumpers and hitches, structural metal assemblies, forward & signal lighting, mechanical assemblies & prototyping & sequencing	38
41	IAC Group (35) 2-267504-0; iacgroup.com	4 rue Lou Hemmer Findel, L-1748, Luxembourg	Robert "Steve" Miller president & CEO	6,000	5,900	54	38	8	–	Cockpits including instrument panels, consoles, doors, headliners & overhead systems; flooring & acoustics	43
41	Mitsubishi Electric Corp. (81) 03-3218-2111; mitsubishielectric.com	2-7-3 Marunouchi, Chiyoda-ku Tokyo, 100-8310, Japan	Masski Sakuyama representative executive officer, president & CEO	6,000 fe	6,000 fe	31	22	47	–	Engine management, ignition, audio & navigation systems; alternators & starter motors	40
43	Takata Corp. (81) 0-3-3582-3222; takata.com	ARK Hills S. Tower 11F, 4-5 Roppongi, 1-chome, Minato-ku, Tokyo, 106-8488, Japan	Shigehisa Takada chairman, president & CEO	5,909 fe	5,360 f	37	22	36	5	Airbags, seat belts, electronics, steering wheels & interior trim & textiles	46
44	Dana Holding Corp. (419) 887-3000; dana.com	3939 Technology Drive Maumee, OH 43537, USA	James Kamsickas president & CEO	5,826	6,060	53	28	13	6	Axles, driveshafts & sealing & thermal management products	39

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45	Grupo Antolin (34) 947-47-7700; grupoantolin.com	Ctra. Madrid-Irun Km. 244'8 Burgos, E09007, Spain	Ernesto Antolin chairman	\$5,804	\$3,868	33	58	8	1	Overhead systems, door module & panels, window regulators interior and exterior lighting & cockpits	57
46	Federal-Mogul (248) 354-7700; federalmogul.com	27300 W. 11 Mile Road Southfield, MI 48034, USA	Rainer Jueckstock & Brad Norton co-CEOs	5,158 e	5,077 e	34	48	16	2	Pistons, rings, cylinder liners, piston pins, ignition and spark plugs, 47 bearings, valve seats & guides, valvetrain products, gaskets, seals, heat shields, brake friction materials & products, systems protection products, lighting products, wipers & fuel pumps	47
47	Mando Corp. (82) 31-680-6114; mando.com	32, Hamanho-gil, Poseung-eup, Pyeongtaek-si, Gyeonggi-do 451-821, South Korea	M.W. Chung chairman	5,057 f	5,560 f	20	5	72	3	Brakes, steering, suspension, radar, camera, ultrasonic, chargers & components & advanced highly automated driving chassis systems	45
48	NSK (81) 3-3779-7111; nsk.com	Nissei Bldg., 1-6-3 Ohsaki, Shinagawa-ku, Tokyo, 141-8560, Japan	Toshihiro Uchiyama president & CEO	4,941 fe	4,858 fe	17	13	69	1	Bearings, hub bearings, steering columns, electric power steering & automatic transmissions products	48
49	Hyundai Powertech Co. (82) 41-661-9114; powertech.co.kr	958 Chungui-Ro, Jigok-myun, Seosan-shi, Chungnam 356-863, South Korea	Haijin Kim CEO	4,920 e	4,554 e	25	4	68	1	Automatic transmissions	50
50	Hanon Systems (82) 42-930-6114; hanonsystems.com	95, Sinilseo-ro, Daedeok-gu Daejeon, Korea	In-Young Lee president & CEO	4,915	4,912	21	26	53	-	Thermal & energy management, heating ventilation & air conditioning, powertrain cooling, compressors, fluid transport, thermal & emissions solutions for conventional & electric, hybrid & fuel cell & autonomous vehicles	-
51	Eberspaecher Gruppe GmbH (49) 711-939-00; eberspaecher.com	Eberspaecherstrasse 24, Esslingen, Baden-Wuerttemberg 73730, Germany	Heinrich Baumann, COO & Martin Peters, CFO & managing partners	4,652 f	4,726 f	22	71	5	2	Silencers, catalytic converters, particulate filters, manifolds, vehicle heaters, electrical vehicle heaters & electronics	49
52	TS Tech Co. (81) 48-462-1121; tstech.co.jp	3-7-27 Sakae-cho Asaka-shi, Saitama-ken 351-0012, Japan	Michio Inoue president	4,587 f	3,948 f	44	-	-	56	Seats & door liners	54
53	NTN Corp. (81) 6-6443-5001; ntn.co.jp/japan	3-17, 1-chome, Kyomachibori, Nishi-ku Osaka, 550-0003, Japan	Hiroshi Ohkubo chairman & CEO	4,524 fe	4,366 fe	28	23	48	1	Automotive constant velocity joints, axle bearings, needle roller bearings, tapered roller bearings & intelligent in-wheel parts for EVs	52
54	Nemak (52) 81-8748-5200; nemak.com	Libramiento Arco Vial Km. 6.8 Garcia, NL 66000, Mexico	Armando Tamez CEO	4,257	4,482	58	33	5	4	Powertrain & structural & EV components	51
55	Tokai Rika Co. (81) 587-95-5211; tokai-rika.co.jp/en	3-260 Toyota, Oguchi-Cho Niwa-gun, Aichi 480-0195, Japan	Kenji Miura president	4,224 fe	3,964 f	25	4	70	1	Switches, heater control panels, gear shifters, key cylinder & lock sets, seat belts, outer door mirrors & immobilizer systems	-
56	Draexlmaier Group (49) 8741-47-0; draexlmaier.com	Landshuter Strasse 100 Vilsbiburg, Bavaria 84137, Germany	Fritz Draexlmaier chairman & CEO	3,971 e	4,100 e	22	-	-	-	Electrical systems, electrical & electronic components, interiors, system assembly & storage systems	53
57	Hyundai Dymos Inc. (82) 31-369-9914; hyundai-dymos.com	703-2, Galhyun-ri, Seongyoun-myun, Seosan-si, Chungcheongnam-do, South Korea	Won-Jang Jo CEO	3,958 e	3,202 e	10	19	66	5	Manual transmissions, DCT, axles & seating systems	65
58	American Axle & Mfg. Holdings Inc. (313) 758-2000; aam.com	One Dauch Drive Detroit, MI 48211, USA	David Dauch chairman & CEO	3,950	3,903	84	3	10	3	Driveline & drivetrain systems & related components	55
59	Nexteer Automotive (248) 340-8200; nexteer.com	3900 E. Holland Road Saginaw, MI 48601, USA	Michael Richardson president	3,842 f	3,361 f	65	10	23	2	Electric power steering, hydraulic power steering, steering columns & halfshafts	60
60	Linamar Corp. (519) 836-7550; linamar.com	287 Speedvale Ave. W. Guelph, Ontario N1H 1C5, Canada	Linda Hasenfratz CEO	3,527	3,071	60	29	9	3	Engine camshafts, connecting rods, cylinder heads & blocks, balance shaft assemblies, fuel rails, transmission gears, differentials, clutch modules, shafts & shell assemblies & all-wheel-drive systems & e-Axles	56
61	Cooper-Standard Automotive (248) 596-5900; cooperstandard.com	39550 Orchard Hill Place Drive Novi, MI 48375, USA	Jeffrey Edwards CEO	3,473 fe	3,343 fe	52	30	16	2	Systems & components, rubber & plastic sealings, fuel & brake lines, fluid transfer hoses & anti-vibration systems	61
62	Webasto SE (49) 89-857-940; webasto.com	Kraillinger Strasse 5 Stockdorf, 82131, Germany	Holger Engelmann chairman	3,429 fe	3,179 f	20	42	38	-	Sunroofs, panorama roof systems, convertible roof systems & parking heaters	66
63	Sumitomo Riko Co. (81) 568-77-2121; tokai.co.jp	3-1 Higashi, Komaki Komaki City, Aichi 485-8550, Japan	Yoshiaki Nishimura chairman, CEO & representative director	3,340 fe	3,280 fe	23	13	64	1	Anti-vibration molded rubber & fuel delivery systems	63
64	TI Automotive (248) 296-8000; tiautomotive.com	2020 Taylor Road Auburn Hills, MI 48326, USA	Bill Kozyra chairman, president & CEO	3,300 e	3,400 e	28	41	29	2	Automotive fluid systems technology	59
65	Infineon Technologies AG (49) 89-234-0; infineon.com	Am Campeon 1-12 Neuburg, 85579, Germany	Reinhard Ploss CEO	3,218	2,840 e	17	39	38	6	Microcontrollers, intelligent sensors; power semiconductors & power modules for powertrain (combustion, hybrid, electric); safety; security and body & convenience applications	69
66	NHK Spring Co. (81) 45-786-7511; nhkspg.co.jp	3-10 Fukuura, Kanazawa-ku Yokohama, 236-0004, Japan	Kazumi Tamamura chairman & CEO	3,180 fe	3,292 fe	13	4	83	-	Stabilizer bars, coil springs & seats & valve springs	62
67	Visteon Corp. (734) 710-5000; visteon.com	One Village Center Drive Van Buren Township, MI 48111, USA	Sachin Lawande president & CEO	3,161	3,245	28	32	40	-	Cockpit electronics: instrument clusters, head-up & information displays, infotainment, connected audio & connectivity & telematics	64
68	BHAP (86) 10-631-73722; bhap.com.cn	Beijing Motor Tower, No. 25, E., 3rd Ring S. Road Beijing, Beijing 100022, China	Bao Chen president & CEO	3,137 f	1,964 f	13	9	78	-	Body systems, interior systems, exterior chassis systems, electronic parts systems & seat systems	-

e = estimate f = fiscal year fe = fiscal year estimate

To be considered for the list, please contact the Automotive News Data Center at (313) 446-6000 or email crobins@crain.com.

Top 100 global OEM parts suppliers – Ranked by sales of original equipment parts in 2016

2016 rank	Company	Address	Executive	Total global automotive parts sales (dollars in millions) 2016	Total global OEM automotive parts sales (dollars in millions) 2015	Percent North America 2016	Percent Europe 2016	Percent Asia 2016	Percent rest of world 2016	Products	2015 rank
69	Goodyear Tire & Rubber Co. (330) 796-2121; goodyear.com	200 Innovation Way Akron, OH 44316, USA	Richard Kramer chairman, CEO & president	\$3,100 e	\$3,000 e	38	34	22	6	Tires	40
70	Martinrea International Inc. (416) 749-0314; martinrea.com	3210 Langstaff Road Vaughan, Ontario L4K 5B2, Canada	Pat D'Eramo president & CEO	2,951 f	2,792 f	82	14	–	4	Steel & aluminum body, chassis & engine components; fluid handling components and assemblies & modules	58
71	Mitsuba Corp. (81) 277-52-0111; mitsuba.co.jp	2681, 1-Chome, Hirosawa-Cho, Kiryu, Gunma Prefecture 376-8555, Japan	Yuichi Nagase president	2,683 fe	2,838 f	30	65	5	–	Wiper systems, power window motors, starter motors, fan motors, 70 seat motors, sunroof motors, power slide door assemblies, power tailgate systems & electric power steering motors	–
72	Rheinmetall Automotive AG (49) 7132-33-0; rheinmetall-automotive.com	Karl Schmidt Strasse Neckarsulm, 74172, Germany	Horst Binnig CEO	2,656	2,568	17	67	13	3	Pistons, emission control products, oil/water pumps, engine blocks, manifolds & bearings	–
73	CITIC Dicastal Co. (86) 335-5358549; dicastal.com	No. 185 Longhai Road Qinhuangdao, Hebei 066011, China	Zuo Xu chairman	2,603 f	2,429 f	27	20	52	1	Aluminum alloy wheels & aluminum casting parts	77
74	Inteva Products (248) 655-8886; intevaproducts.com	1401 Crooks Road Troy, MI 48084, USA	Lon Offenbacher president & CEO	2,600 f	2,800 f	34	33	33	–	Closure systems, interior systems, roof systems & motors & electronic systems	71
75	CIE Automotive S.A. (34) 94-605-62-00; cieautomotive.com	Alameda Mazarredo 69-8C Bilbao, Vizcaya 48009, Spain	Jesus Maria Herrera CEO	2,509	2,401	23	53	15	9	Engine & powertrain components, chassis & steering components, exterior & interior trim & roof systems components	78
76	Asahi Glass Co. (81) 3-3218-5555; agc-automotive.com	1-5-1, Marunouchi, Chiyoda-ku Tokyo, 100-8405, Japan	Takuya Shimamura president & CEO	2,492 fe	2,530 fe	19	30	49	2	Glazing systems	75
77	Ryobi (81) 847-41-1341; ryobi.com	762 Mesaki-cho Fuchu-shi, Hiroshima-ken 726-8628, Japan	Hiroshi Urakami chairman & CEO	2,379 fe	2,117 fe	35	15	50	–	Aluminum high-pressure die castings & powertrain & structural components	81
78	Novelis Inc. (404) 760-4000; novelis.com	3560 Lenox Road N.E., Ste. 2000 Atlanta, GA 30326, USA	Steve Fisher president & CEO	2,275 fe	1,940 fe	48	45	7	–	Flat-rolled aluminum sheet for vehicle structures, body panels, heat exchangers & heat shields & other automotive applications	90
79	Flex (65) 6876-9899; flex.com	2 Changi South Lane Singapore, 486123, Singapore	Mike McNamara CEO	2,255 fe	2,062 f	50	25	24	1	Autonomous vehicle video radar decision units, ADAS sensors, connectivity infotainment telematics boxes; clean tech: wiring, solenoids, 48V converters; vehicle electrification-lighting, overhead consoles, mirror actuators	85
80	Kautex Textron GmbH & Co. (49) 228-488-0; kautex.com	Kautexstr. 52 Bonn, D-53229, Germany	Joerg Rautenstrauch president & CEO	2,210 e	2,022 e	43	42	13	2	Fuel tank systems, clear vision systems, selective catalytic reduction systems, camshafts & packaging	83
81	Bridgewater Interiors (313) 842-3300; bridgewater-interiors.com	4617 W. Fort St. Detroit, MI 48209, USA	Ronald Hall Jr. president & CEO	2,206 f	2,092 f	100	–	–	–	Automotive seating systems	82
82	Autoneum (41) 52-244-82-82; autoneum.com	Schlossstalstrasse 43 8406 Winterthur, Switzerland	Martin Hirzel CEO	2,176 f	2,023	47	39	10	4	Engine covers, engine encapsulations, hoodliners, outer dashes, water box shields, inner dashes, nonwoven carpets, tufted carpets, floor insulators, floor mats, underbody shields, floor pans, heatshields, outer tunnel insulators, wheelhouse outer liners, dampers, stiffeners & acoustic parts	84
83	Johnson Electric Group (852) 2663-6688; johnsonelectric.com	6/F, 12 Science Park E. Ave., Science Park, Shatin, NT, Hong Kong, China	Patrick Wang CEO	2,000 fe	1,706 fe	20	45	35	–	Cooling fan modules, engine & transmission oil pumps, engine actuators & valves, power steering motors, HVAC & lighting actuators, electric motors, switches & solenoids & flexible PCBs	–
83	Sensata Technologies Holding NV (31) 546-879560; sensata.com	Jan Tinbergenstraat 80 Hengelo, 7559, Netherlands	Martha Sullivan president & CEO	2,000 f	2,000	32	40	28	–	Pressure, temperature, speed & position sensors, motor protectors & switches	86
85	Tower International (248) 675-6000; towerinternational.com	17672 N. Laurel Park Drive, Ste. 400E Livonia, MI 48152, USA	Jim Gouin president	1,914 f	1,796 f	67	33	–	–	Body structures & assemblies, lower vehicle frames & structures, chassis modules & systems & suspension components	88
86	AB SKF, Automotive & Aerospace (46) 31-337-1000; skf.com	Hornsgatan 1 Gothenburg, SE-41550, Sweden	Bernd Stephan president	1,840	1,948	22	47	28	3	Bearings, bearing units, automotive specialty products, seals, & molded rubber products	89
87	Alpine Electronics Inc. (81) 246-36-4111; alpine.com	20-1 Yoshima-Kogyodanchi Iwaki, Fukushima 970-1192, Japan	Nobuhiko Komeya CEO	1,830 fe	2,000 fe	35	39	26	–	Navigation, telematics, drive assist & sound & video systems	86
88	F-Tech Inc. (81) 480-85-7236; ftech.co.jp	19 Showanuma Shobumachi, Minami Saitama-gun, Saitama Prefecture 346-0194, Japan	Fukuda Yuichi president	1,772 fe	1,635 fe	61	–	39	–	Chassis, suspension systems, control arms, pedal assemblies & hydroforming	93
89	Dow Automotive/Related Businesses (248) 391-6300; dowautomotive.com	1250 Harmon Road Auburn Hills, MI 48326, USA	Steve Henderson president	1,744 f	2,600 f	40	31	19	10	Glass bonding adhesive, structural adhesive, epoxy composite, polyurethane foam, acoustic foam, elastomer & fluids	71
90	Michelin Group (33) 4-73-32-2000; michelin.com	23 Place des Carmes Dechaus Clermont-Ferrand, 63040, Cedex 9 France	Jean-Dominique Senard CEO	1,666	1,601	43	40	17	1	Tires	94

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Top 100 global OEM parts suppliers – Ranked by sales of original equipment parts in 2016

2016 rank	Company	Address	Executive	Total global OEM automotive parts sales (dollars in millions) 2016	Total global OEM automotive parts sales (dollars in millions) 2015	Percent North America 2016	Percent Europe 2016	Percent Asia 2016	Percent rest of world 2016	Products	2015 rank
91	Gentex Corp. (616) 772-1800; gentex.com	600 N. Centennial St. Zeeland, MI 49464, USA	Fred Bauer chairman & CEO	\$1,639	\$1,510	36	44	20	–	Interior & exterior auto-dimming rearview mirrors, advanced electronic features & components, SmartBeam HBA & DFL advanced lighting-assist, rear camera displays, compasses, LED turn signals, side blind-zone indicators & driver assist features	97
92	Pioneer Corp. (81) 44-580-3211; pioneer.co.jp	1-1 Shin-ogura, Saiwai-ku Kawasaki-shi, Kanagawa 212-0031, Japan	Susumu Kotani president & CEO	1,616 fe	1,906 fe	26	9	63	2	Audio/video entertainment & navigation systems	92
93	Piston Group (313) 541-8674; pistongroup.com	12723 Telegraph Road Redford Twp., MI 48239, USA	Vinnie Johnson founder & chairman	1,581	1,161	100	–	–	–	Electric batteries, cooling modules, brake corners, grille & shock assemblies, instrument panels, seat trim, sun visors, armrests/bolsters, shades, injection molding & brazed evaporator heater cores	–
94	Dura Automotive Systems (248) 299-7500; durauto.com	1780 Pond Run Auburn Hills, MI 48326, USA	Lynn Tilton CEO	1,523 f	1,600 f	44	47	7	2	Mechatronic control systems, shift-by-wire systems; electronic systems, actuators & advanced driver assist systems; lightweight structural body systems, including multimaterial closures; exterior systems & decorative & electronic-infused exterior trim	95
95	Minth Group (86) 573-83685960; minth.com.cn	No.1 Yazhong Road, Asia Pacific Industrial Park, Nanhu District, Jiaxing, Zhe Jiang 314006, China	Jonghwa Chin chairman	1,413	1,276	23	9	68	–	Trims, body structural parts, decorative parts, roof racks & seating systems	–
96	Omron Corp. (81) 568-78-6181; omronauto.com	6368 Nenryo-zaka, Okusa Komaki-city, Aichi 485-0802, Japan	Katsuhiro Wada managing officer, president & CEO	1,407 f	1,338 fe	32	7	60	1	Electronic control units, keyless entry, switches, closure controls, relays & electronic power steering	–
97	Nissin Kogyo Co. (81) 268-24-3111; nissinkogyo.co.jp	840 Kokubu, Ueda City, Nagano Prefecture 386-8505, Japan	Ohkawara Eiji president	1,264 f	1,385 f	29	1	48	22	ABS, VSA, foundation brake systems, rear toe control, aluminum knuckles, aluminum mounts, clutch masters & slave cylinders	100
98	Kongsberg Automotive ASA (47) 327-70500; kongsbergautomotive.com	N-3601 Kongsberg Kongsberg, N-3601, Norway	Henning Jensen president & CEO	1,060	1,123	39	49	9	3	Gearshift systems, powertrain & chassis products, cable controls, seat comfort & seat climate solutions, fluid transfer systems & air brake couplings	–
99	Shiloh Industries Inc. (330) 558-2600; shiloh.com	880 Steel Drive Valley City, OH 44280, USA	Ramzi Hermiz president & CEO	972 f	1,057 fe	89	10	1	–	Lightweight, noise, vibration & harshness solutions, chassis & powertrain systems	–
100	ABC Group Inc. (416) 246-1782; abcgroupinc.com	2 Norelco Drive Toronto, Ontario M9L 2X6, Canada	Mary Anne Bueschkens CEO	948 e	932 e	95	3	1	1	Air management systems, fluid management systems, HVAC systems, interior systems, exterior systems & flexible products	–
101	Multimatic Inc. (905) 470-9149; multimatic.com	8688 Woodbine Ave. Markham, Ontario L3R 8B9, Canada	Peter Czapka president & CEO	940 e	840 e	90	7	2	1	Hinge systems, stamped welded assemblies & suspension systems	–
102	Rassini S.A.B. (52) 55-5229-5800; rassini.com	Pedregal 24 Piso 7 Colonia Molino del Rey Deleg. Miguel Hidalgo, Mexico City, Distrito Federal 11040, Mexico	Eugenio Madero CEO	833	735	80	–	–	20	Leaf springs, parabolic springs, coil springs & braking systems components	–

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INDEX

AB SKF, Automotive & Aerospace	86	Eberspaecher Gruppe GmbH	51	Kongsberg Automotive ASA	98	Rheinmetall Automotive AG	72
ABC Group Inc.	100	F-Tech Inc.	88	Lear Corp.	9	Robert Bosch GmbH	1
Adient	11	Faurecia	8	Linamar Corp.	60	Ryobi	77
Aisin Seiki Co.	6	Federal-Mogul	46	Magna International Inc.	3	Samvardhana Motherson Group	26
Alpine Electronics Inc.	87	Flex	79	Magneti Marelli S.p.A.	28	Schaeffler AG	19
American Axle & Manufacturing Holdings Inc.	58	Flex-N-Gate Corp.	40	Mahle GmbH	14	Sensata Technologies Holding NV	83
Asahi Glass Co.	76	Gentex Corp.	91	Mando Corp.	47	Shiloh Industries Inc.	99
Autoliv Inc.	23	Gestamp	30	Martinrea International Inc.	70	Sumitomo Electric Industries	16
Autoneum	82	GKN plc	37	Michelin Group	90	Sumitomo Riko Co.	63
BASF SE	21	Goodyear Tire & Rubber Co.	69	Minth Group	95	Takata Corp.	43
Benteler Automobiltechnik GmbH	39	Grupo Antolin	45	Mitsuba Corp.	71	Tenneco Inc.	31
BHAP	68	Hanon Systems	50	Mitsubishi Electric Corp.	41	Thyssenkrupp AG	18
BorgWarner Inc.	27	HELLA KGaA Hueck & Co.	33	Multimatic Inc.	101	TI Automotive	64
Bridgewater Interiors	81	Hitachi Automotive Systems	25	Nemak	54	Tokai Rika Co.	55
Brose Fahrzeugteile GmbH	36	Hyundai Dymos Inc.	57	Nexteer Automotive	59	Tower International	85
CalsonicKansei Corp.	22	Hyundai Mobis	7	NHK Spring Co.	66	Toyoda Gosei Co.	35
CIE Automotive S.A.	75	Hyundai Powertech Co.	49	Nissin Kogyo Co.	97	Toyota Boshoku Corp.	24
CITIC Dicastal Co.	73	Hyundai-WIA Corp.	34	Novelis Inc.	78	TS Tech Co.	52
Continental AG	5	IAC Group	41	NSK	48	Valeo SA	10
Cooper-Standard Automotive	61	Infineon Technologies AG	65	NTN Corp.	53	Visteon Corp.	67
Dana Holding Corp.	44	Inteva Products	74	Omron Corp.	96	Webasto SE	62
Delphi Automotive	12	JATCO	38	Panasonic Automotive Systems Co.	17	Yanfeng Automotive Trim Systems Co.	15
Denso Corp.	4	Johnson Electric Group	83	Pioneer Corp.	92	Yazaki Corp.	13
Dow Automotive/Related Businesses	89	JTEKT Corp.	20	Piston Group	93	ZF Friedrichshafen AG	2
Draexlmaier Group	56	Kautex Textron GmbH & Co.	80	Plastic Omnium Co.	29		
Dura Automotive Systems	94	Koito Manufacturing	32	Rassini S.A.B.	102		

Top 50 suppliers – The largest suppliers to Europe, ranked by sales of original equipment parts in 2016

2016 rank	Company	Address	Top executive	Total Europe OEM automotive parts sales (dollars in millions) 2016	Total Europe OEM automotive parts sales (dollars in millions) 2015	Total global OEM automotive parts sales (dollars in millions) 2016	Total global OEM automotive parts sales (dollars in millions) 2015	Products	2015 rank
1	Robert Bosch GmbH (49) 711-811-0; bosch.com	Postfach 106050 Stuttgart, D-70049, Germany	Volkmar Denner chairman	\$21,390 e	\$21,068 e	\$46,500 e	\$44,825 e	Chassis systems controls, electrical drives; car multimedia, electronics, steering systems & battery technology	1
2	ZF Friedrichshafen AG (49) 7541-77-0; zf.com	Graf-von-Soden-Platz 1, Friedrichshafen, Baden-Wuerttemberg 88046, Germany	Stefan Sommer CEO	18,463 f	13,873 f	38,465 f	29,518 f	Transmissions, chassis components & systems, steering systems, clutches, dampers; active & passive safety systems	3
3	Continental AG (49) 511-938-01; conti-online.com	Vahrenwalder Strasse 9 Hanover, 30165, Germany	Elmar Degenhart CEO	16,340	15,425	32,680	31,480	Advanced driver assistance systems, electronic brakes, stability management systems, tires, safety system electronics; interior modules	2
4	Magna International Inc. (905) 726-2462; magna.com	337 Magna Drive Aurora, Ontario L4G 7K1, Canada	Donald Walker CEO	12,391 e	10,604 e	36,445	32,134	Body, chassis, exterior, seating, powertrain, electronic, vision; closure & roof systems & modules	5
5	Faurecia (33) 1-72-36-70-00; faurecia.com	2 Rue Hennape Nanterre, 92735, France	Patrick Koller CEO	10,350	12,402	20,700	22,967	Seating, emissions control technologies; interior systems	4
6	Valeo SA (33) 1-40-55-20-20; valeo.com	43 Rue Bayen Paris, 75017, France	Jacques Aschenbroich chairman & CEO	8,518 e	7,763 e	17,384 e	15,842 e	Micro hybrid systems, electrical & electronic systems, transmissions, wiper systems, camera/sensor technology, security systems; interior controls	6
7	Thyssenkrupp AG (49) 201-8440; thyssenkrupp.com	Thyssenkrupp Allee 1 Essen, 45143, Germany	Heinrich Hiesinger CEO	7,303 f	7,013 f	10,986 f	11,395 f	Steering, dampers, springs & stabilizers, camshafts, forged machined components, bearings, undercarriage systems & components, axle assembly; forged crankshafts & drivetrain components	16
8	Lear Corp. (248) 447-1500; lear.com	21557 Telegraph Road Southfield, MI 48033, USA	Matthew Simoncini president & CEO	7,052	6,738	18,558	18,211	Seating & electrical distribution systems	8
9	Mahle GmbH (49) 711-501-0; mahle.com	Pragstrasse 26-46 Stuttgart, 70376, Germany	Wolf-Henning Scheider chairman & CEO	6,817 f	5,896 f	13,635 f	11,339 f	Piston systems, cylinder components, valvetrain systems, air & liquid management & climate systems, electric drives; starters & alternators	9
10	Adient* (734) 254-5000; adient.com	49200 Halyard Drive Plymouth, MI 48170, USA	Bruce McDonald CEO	6,768	–	16,837 f	–	Seating & seating systems & components	–
11	Delphi Automotive (248) 813-2000; delphi.com	5725 Delphi Drive Troy, MI 48098, USA	Kevin Clark president & CEO	5,831	5,275	16,661	15,165	Mobile electronics; powertrain, safety, thermal, controls & security systems: electrical/electronic architecture; in-car entertainment technologies	11
12	Schaeffler AG (49) 9132-82-0; schaeffler.com	Industriestrasse 1-3 Herzogenaurach, Bavaria 91074, Germany	Klaus Rosenfeld CEO	5,442 e	5,457 e	10,883 e	10,914 e	Anti-friction bearings, engine, chassis & transmission components, wheel & axle bearings, clutch & transmission systems, dampers; e-mobility products	14
13	Magneti Marelli S.p.A. (39) 02-972-27-111; magnetimarelli.com	Viale Aldo Borletti 61/63 Corbetta, Milan 20011, Italy	Pietro Gorlier CEO	5,433 f	5,056 f	8,232 f	7,425 f	Lighting, powertrain, electronics, suspensions systems, active & passive shock absorbers, exhaust systems, plastic parts; motorsport	13
14	BASF SE (49) 621-60-0; basf.com	Carl-Bosch-Strasse 38 Ludwigshafen 67056, Germany	Kurt Bock chairman	4,874 f	5,837 f	10,371 f	10,613 f	Coatings, catalysts, engineering plastics, polyurethanes, coolants, brake fluids, lubricants & battery materials	10
15	Gestamp (34) 91-379-19-99; gestamp.com	Alfonso XII, 16 Madrid, Madrid 28014, Spain	Francisco Riberas president & CEO	4,767	5,166	7,945	8,511	Metal components & assemblies, body-in-white, chassis & mechanisms	12
16	Samvardhana Motherson Group (91) 120-6679551; motherson.com	Plot No. 1, Sector 127, Noida, Greater Noida Expy., Noida, U.P. 201301, India	Vivek Chaand Sehgal chairman	4,601 fe	3,318 fe	9,075 fe	7,245 fe	Rearview mirrors, plastic modules cockpits/IPs, door trims & bumpers, wiring harnesses; molded plastic parts & assemblies	19
17	Denso Corp. (81) 566-25-5511; denso.com	1-1 Showo-cho Kariya-Aichi, 448-8661, Japan	Nobuaki Katoh chairman	4,561 fe	4,700 fe	36,184 fe	36,030 fe	Thermal, powertrain control, electronic & electric systems; small motors & telecommunications	15
18	Plastic Omnium Co. (33) 40-87-64-00; plasticomnium.com	1 allée Pierre Burelle Levallois Cedex 92533, France	Laurent Burelle chairman & CEO	4,382	3,043	7,968	6,210	Fascias, front-end modules, rear-end modules, fenders, body panels & fuel systems	22
19	HELLA KGaA Hueck & Co. (49) 2941-38-0; hella.com	Rixbecker Strasse 75 Lippstadt 59552, Germany	Rolf Breidenbach CEO	4,189 fe	3,812 fe	7,100 fe	7,192 fe	Electronic & lighting components & systems	17
20	Benteler Automobiltechnik GmbH (49) 5254-81-0; benteler.com	An der Talle 27-31 Paderborn, 33102, Germany	Laurent Favre CEO	3,632	3,702	6,486	6,383	Chassis components & modules; engine & exhaust systems; structural & lightweight solutions components & solutions for electro-mobility	–
21	BorgWarner Inc. (248) 754-9200; borgwarner.com	3850 Hamlin Road Auburn Hills, MI 48326, USA	James Verrier president & CEO	3,628	3,049	9,070	8,023	Turbochargers, engine valve-timing systems, ignition systems, emissions systems, thermal systems & transmission-clutch systems	21
22	Brose Fahrzeugteile GmbH (49) 9561-21-0; brose.com	Max-Brose-Str. 1 Coburg, 96450, Germany	Juergen Otto CEO	3,595	3,486	6,783	6,705	Window regulators, door modules, power liftgate systems, seat structures & components, closure systems, electric motors & drives & electronics	18
23	Grupo Antolin (34) 947-47-7700; grupoantolin.com	Ctra. Madrid-Iruun Km. 244'8 Burgos, E09007, Spain	Ernesto Antolin chairman	3,366	2,209	5,804	3,868	Overhead systems, door modules & panels, window regulators, interior and exterior lighting & cockpits	28
24	Hyundai Mobis (82) 2-2018-5114; mobis.co.kr	203 Tehera-ro, Gangnam-gu Seoul, 06141, Korea	Young Deuk Lim CEO	3,346	2,920	27,207	26,262	Chassis, cockpit & front-end modules, brakes, steering, suspensions, airbags, lamps & automotive electronics	23
25	Eberspaecher Gruppe GmbH (49) 711-939-00; eberspaecher.com	Eberspaecherstrasse 24, Esslingen, Baden-Wuerttemberg 73730, Germany	Heinrich Baumann, COO & Martin Peters, CFO & managing partners	3,303 f	3,167 f	4,652 f	4,726 f	Silencers, catalytic converters, particulate filters, manifolds, vehicle heaters, electrical vehicle heaters & electronics	20
26	Autoliv Inc. (46) 8-587-20-600; autoliv.com	Klarabergsvädukten 70, Sec. B, 7th Fl. Stockholm, SE-107 24, Sweden	Jan Carlson chairman, president & CEO	3,022	2,843	10,074	9,170	Airbags, seat belts, safety electronics & steering wheels brake control	24

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27	Aisin Seiki Co. (81) 566-24-8441; aisin.co.jp	2-1 Asahi-Machi Kariya, Aichi 448-8650, Japan	Kanshiro Toyoda chairman	\$2,951 f	\$2,383 f	\$31,389 f	\$25,904 f	Body, brake & chassis systems, electronics, drivetrain & engine components	27
28	Yazaki Corp. (81) 0559-65-3002; yazaki-group.com/global/	1500 Mishuku, Susono City, Shizuoka Prefecture 410-1194, Japan	Shinji Yazaki president	2,652	–	15,600	14,104 e	Wiring harnesses, connectors, junction boxes, power distribution boxes, instrumentation, high voltage systems	–
29	Tenneco Inc. (847) 482-5000; tenneco.com	500 N. Field Drive Lake Forest, IL 60045, USA	Gregg Sherrill chairman & CEO	2,575	2,030 e	7,357	5,972	Emission control systems, manifolds, catalytic converters, diesel aftertreatment systems, catalytic reduction mufflers, shock absorbers, struts, electronic suspension products & systems	35
30	GKN plc (44) 1527-533-600; gkn.com	P.O. Box 55, Redditch, Worcestershire B98 0AJ, UK	Philip Swash CEO, GKN Driveline	2,561	2,472	6,740	6,505	Driveline halfshafts, driveshafts & AWD; powder metal engine & transmission components; automotive structures & chassis systems	26
31	Federal-Mogul (248) 354-7700; federalmogul.com	27300 W. 11 Mile Road Southfield, MI 48034, USA	Rainer Jueckstock & Brad Norton co-CEOs	2,479 e	2,485 e	5,158 e	5,077 e	Pistons, rings, cylinder liners, ignition & spark plugs, bearings, valvetrain products, gaskets, seals, heat shields, brake friction materials & products, lighting, wipers & fuel pumps	25
32	IAC Group (35) 2-267504-0; iacgroup.com	4 rue Lou Hemmer Findel, L-1748, Luxembourg	Robert "Steve" Miller president & CEO	2,280	2,183	6,000	5,900	Cockpits including instrument panels, consoles, doors, headliners & overhead systems; flooring & acoustics	29
33	JTEKT Corp. (81) 52-527-1900; jtekt.co.jp	15th Floor, Midland Square, 4-7-1 Meieki Nakamura-ku, Nagoya 450-8515, Japan	Tetsuo Agata president	1,940	1,751 fe	10,778	11,670 f	Bearings, steering systems, driveline systems & machine tools	33
34	Rheinmetall Automotive AG (49) 7132-33-0; rheinmetall-automotive.com	Karl Schmidt Strasse Neckarsulm, 74172, Germany	Horst Binnig CEO	1,780	1,746	2,656	2,568	Pistons, emission control products, oil/water pumps, engine blocks, manifolds & bearings	–
35	Dana Holding Corp. (419) 887-3000; dana.com	3939 Technology Drive Maumee, OH 43537, USA	James Kamsickas president & CEO	1,631	1,757	5,826	6,060	Axles, driveshafts, sealing & thermal management products	32
36	Yanfeng Automotive Trim Systems Co. (86) 21-333-8100; yanfengco.com	399 Liuzhou Road Shanghai, 200235, China	Ming kang He general manager	1,476	618	12,991	11,242	Interiors, exteriors, electronics, seating & safety	–
37	Webasto SE (49) 89-857-940; webasto.com	Kraillinger Strasse 5 Stockdorf, 82131, Germany	Holger Engelmann chairman	1,440 fe	1,462 f	3,429 fe	3,179 f	Sunroofs, panorama roof systems, convertible roof systems & parking heaters	36
38	Nemak (52) 81-8748-5200; nemak.com	Libramiento Arco Vial Km. 6.8 Garcia, NL 66000, Mexico	Armando Tamez CEO	1,424	1,381	4,257	4,482	Powertrain, structural & EV components	39
39	TI Automotive (248) 296-8000; tiautomotive.com	2020 Taylor Road Auburn Hills, MI 48326, USA	Bill Kozyra chairman, president & CEO	1,353 e	1,360 e	3,300 e	3,400 e	Automotive fluid systems technology	41
40	CIE Automotive S.A. (34) 94-605-62-00; cieautomotive.com	Alameda Mazarredo 69-8C Bilbao, Vizcaya 48009, Spain	Jesus Maria Herrera CEO	1,330	1,297	2,509	2,401	Engine & powertrain components, chassis & steering components, exterior & interior trim & roof systems components	43
41	Mitsubishi Electric Corp. (81) 03-3218-2111; mitsubishielectric.com	2-7-3 Marunouchi, Chiyoda-ku Tokyo, 100-8310, Japan	Masski Sakuyama representative executive officer, president & CEO	1,320 fe	1,320 fe	6,000 fe	6,000 fe	Engine management, ignition, audio & navigation systems; alternators & starter motors	42
42	Takata Corp. (81) 0-3-3582-3222; takata.com	ARK Hills S. Tower 11F, 4-5 Roppongi, 1-chome, Minato-ku, Tokyo, 106-8488, Japan	Shigehisa Takada chairman, president & CEO	1,300 fe	1,394 f	5,909 fe	5,360 f	Airbags, seat belts, electronics, steering wheels, interior trim & textiles	38
43	Hanon Systems (82) 42-930-6114; hanonsystems.com	95, Sinilseo-ro, Daedeok-gu Daejeon, Korea	In-Young Lee president & CEO	1,278	1,277	4,915	4,912	Heating ventilation, air conditioning & emissions solutions for electric, conventional & hybrid, fuel cell & autonomous vehicles	–
44	Infineon Technologies AG (49) 89-234-0; infineon.com	Am Campeon 1-12 Neubiberg, 85579, Germany	Reinhard Ploss CEO	1,255	1,193 e	3,218	2,840 e	Microcontrollers, intelligent sensors; power semiconductors & power modules for powertrain (combustion, hybrid, electric); safety; security & body & convenience applications	46
45	CalsonicKansei Corp. (81) 3-5385-0111; calsonickansei.co.jp	2-1917 Nisshin-cho, Kita-ku Saitama City, Saitama 331-8501, Japan	Hiroshi Moriya president, CEO & COO	1,109 fe	1,228 fe	10,085 fe	10,232 fe	Climate control, engine cooling & exhaust systems; instrument clusters, console boxes, cockpit modules, instrument panels & front-end modules	44
46	Panasonic Automotive Systems Co. (81) 6-6908-1121; panasonic.net	1006, Oaza Kadoma, Kadoma City, Osaka 571-8501, Japan	Kazuhiro Tsuga president	1,079 fe	1,398 fe	11,988 fe	9,987 fe	Audio & video equipment, music streaming service, navigation systems, compressors, batteries, motors, monitors, sensors switches & HUDs	37
47	Goodyear Tire & Rubber Co. (330) 796-2121; goodyear.com	200 Innovation Way Akron, OH 44316, USA	Richard Kramer chairman, president & CEO	1,054 e	1,050 e	3,100 e	3,000 e	Tires	30
48	Cooper-Standard Automotive (248) 596-5900; cooperstandard.com	39550 Orchard Hill Place Drive Novi, MI 48375, USA	Jeffrey Edwards CEO	1,042 fe	1,036 fe	3,473 fe	3,343 fe	Systems & components, including rubber & plastic sealings, fuel & brake lines, fluid transfer hoses & anti-vibration systems	50
49	NTN Corp. (81) 6-6443-5001; ntn.co.jp/japan	3-17, 1-chome, Kyomachibori, Nishi-ku Osaka, 550-0003, Japan	Hiroshi Ohkubo chairman & CEO	1,027 fe	1,043 fe	4,524 fe	4,366 fe	Constant velocity joints, axle bearings, needle roller bearings, tapered roller bearings & intelligent in-wheel parts for EVs	48
50	Linamar Corp. (519) 836-7550; linamar.com	287 Speedvale Ave. W. Guelph, Ontario N1H 1C5, Canada	Linda Hasenfratz CEO	1,026	651	3,527	3,071	Engine camshafts, connecting rods, cylinder heads & blocks, transmission gears, all-wheel-drive systems & e-Axles	–
51	Novelis Inc. (404) 760-4000; novelis.com	3560 Lenox Road N.E., Ste. 2000 Atlanta, GA 30326, USA	Steve Fisher president & CEO	1,024	815 fe	2,275 fe	1,940 fe	Flat-rolled aluminum sheet for vehicle structures, body panels, heat exchangers, heat shields & other automotive applications	–
52	Visteon Corp. (734) 710-5000; visteon.com	One Village Center Drive Van Buren Township, MI 48111, USA	Sachin Lawande president & CEO	1,012	1,038	3,161	3,245	Instrument clusters, head-up & information displays, infotainment, connected audio & connectivity & telematics	49

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Top 100 suppliers – The largest suppliers to North America, ranked by sales of original equipment parts in 2016

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1	Magna International Inc. (905) 726-2462; magna.com	337 Magna Drive Aurora, Ontario L4G 7K1, Canada	Donald Walker CEO	\$20,409 e	\$18,638 e	\$36,445	\$32,134	Body, chassis, exterior, seating, powertrain, electronic, vision, closure & roof systems & modules	1
2	ZF North America Inc. (734) 855-2600; zf.com	12001 Tech Center Drive Livonia, MI 48150	Franz Kleiner member, board of management	10,386 f	8,265 f	38,465 f	29,518 f	Transmissions, chassis components & systems, steering systems, clutches, dampers, active & passive safety systems	5
3	Robert Bosch (248) 876-1000; boschusa.com	38000 Hills Tech Drive Farmington Hills, MI 48331	Mike Mansuetti president	8,835 e	8,965 e	46,500 e	44,825 e	Gasoline, diesel systems & EVs, chassis systems, drives, car multimedia, electronics & steering batteries	3
4	Denso International America Inc. (248) 350-7500; densocorp-na.com	24777 Denso Drive, P.O. Box 5133 Southfield, MI 48086	Kenichiro Ito chairman & CEO	8,708 fe	8,847 fe	36,184 fe	36,030 fe	Thermal, powertrain control, electronic & electric systems, small motors & telecommunications	4
5	Continental Automotive Systems U.S. Inc. (248) 393-5300; conti-online.com	One Continental Drive Auburn Hills, MI 48326	Samir Salman CEO	8,497	8,185	32,680	31,480	Advanced driver assistance systems, electronic brakes, stability management systems, tires, foundation brakes, chassis systems, safety system electronics, telematics, powertrain electronics, interior modules, instrumentation & technical elastomers	6
6	Adient* (734) 254-5000; adient.com	49200 Halyard Drive Plymouth, MI 48170	Bruce McDonald CEO	7,698 f	–	16,837 f	–	Seating, seating systems & components	–
7	Lear Corp. (248) 447-1500; lear.com	21557 Telegraph Road Southfield, MI 48033	Matthew Simoncini president & CEO	7,423	7,831	18,558	18,211	Seating & electrical distribution systems	7
8	Delphi Automotive Systems (248) 813-2000; delphi.com	5725 Delphi Drive Troy, MI 48098	Kevin Clark president & CEO	6,165	5,682	16,661	15,165	Powertrain, safety, thermal, controls & security systems, electrical & electronic architecture & in-car entertainment technologies	9
9	Faurecia (248) 724-5100; na.faurecia.com	2800 High Meadow Circle Auburn Hills, MI 48326	Mark Stidham president	6,003	6,201	20,700	22,967	Seating, emissions control technologies & interior systems	8
10	Flex-N-Gate Corp. (217) 278-2600; flex-n-gate.com	1306 E. University Ave. Urbana, IL 61802	Shahid Khan chairman & CEO	5,855	5,553	6,434	6,102	Interior & exterior plastics, metal bumpers & hitches, structural metal assemblies, forward & signal lighting, mechanical assemblies, prototyping & sequencing	10
11	Aisin World Corp. of America (734) 453-5551; aisinworld.com	15300 Centennial Drive Northville, MI 48168	Scott Turpin president	5,650 f	4,974 f	31,389 f	25,904 f	Body, brake & chassis systems, electronics, drivetrain & engine components	12
12	Hyundai Mobis (248) 923-5114; en.mobis.co.kr	46501 Commerce Center Drive Plymouth, MI 48170	Young Deuk Lim CEO	5,556	5,491	27,207	26,262	Automotive modules, brakes, steerings, suspensions, airbags, lamps & electronics	11
13	Yazaki North America Inc. (734) 983-1000; yazaki-na.com	6801 Haggerty Road Canton, MI 48187	Yutaka Inagaki president & CEO	4,056	3,963 e	15,600	14,104 e	Wiring harnesses, connectors, junction boxes, power distribution boxes, instrumentation & high voltage systems	14
14	Valeo Inc. (248) 619-8300; valeo.com	150 Stephenson Hwy. Troy, MI 48083	Francoise Colpron president	3,824 e	3,485 e	17,384 e	15,842 e	Micro hybrid, electrical & electronic systems, thermal systems, transmissions, wiper systems, camera/sensor technology, security systems & interior controls	16
15	Panasonic Automotive Systems Co. of America (770) 487-3356; panasonic.com/automotive	776 Hwy. 74 S. Peachtree City, GA 30269	Scott Kirchner president	3,716 fe	2,896 fe	11,988 fe	9,987 fe	Audio & video equipment, cameras, video, premium audio systems, music streaming service, navigation systems, compressors, batteries, motors, monitors, sensors, switches & HUDs	25
16	Tenneco Inc. (734) 243-8000; tenneco.com	1 International Drive Monroe, MI 48161	Brian Kessler COO	3,605	3,046 e	7,357	5,972	Emission control systems, manifolds, catalytic converters, diesel systems, radar, night vision & camera vision systems, electronic suspension products & systems	23
17	Mahle Industries Inc. (248) 305-8200; mahle.com	23030 Mahle Drive Farmington Hills, MI 48335	Scott Ferriman president	3,545 f	2,948 f	13,635 f	11,339 f	Piston systems, cylinder components, valvetrain systems, air & liquid management systems, vehicle climatization, climate compressors, engine & powertrain cooling, battery cooling, actuators, electric drives, starters, alternator & electrical driven auxiliaries	24
18	Autoliv North America (248) 475-9000; autoliv.com	1320 Pacific Drive Auburn Hills, MI 48326	Dan Garceau president	3,425	3,210	10,074	9,170	Airbags, seat belts, safety electronics, steering wheels, brake control systems, radar, night vision & camera vision systems	21
19	Sumitomo Electric Wiring Systems Inc. (270) 782-7397; sewsus.com	1018 Ashley St. Bowling Green, KY 42103	Masayoshi Fuse president & CEO	3,376 fe	3,353 fe	12,835 fe	13,685 f	Electrical distribution systems, electronics & connection systems	18
20	American Axle & Manufacturing Holdings Inc. (313) 758-2000; aam.com	One Dauch Drive Detroit, MI 48211	David Dauch chairman & CEO	3,318	3,318	3,950	3,903	Driveline & drivetrain systems & related components	17
21	IAC Group (248) 455-7000; iacgroup.com	28333 Telegraph Road Southfield, MI 48034	Robert Miller president & CEO	3,240	3,304	6,000	5,900	Cockpits including instrument panels, consoles, doors, headliners & overhead systems & flooring & acoustics	19
22	CalsonicKansei North America Inc. (931) 680-6415; calsonic.com	One Calsonic Way Shelbyville, TN 37162	Bharat Vernapusa CEO	3,227 fe	3,786 fe	10,085 fe	10,232 fe	Climate control, engine cooling & exhaust systems, instrument clusters console boxes, cockpit modules, instrument panels & front-end modules	15

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23	Dana Holding Corp. (419) 887-3000; dana.com	3939 Technology Drive Maumee, OH 43537	James Kamsickas president & CEO	\$3,088	\$3,212	\$5,826	\$6,060	Axles, driveshafts, sealing & thermal management products	20
24	BorgWarner Inc. (248) 754-9200; borgwarner.com	3850 Hamlin Road Auburn Hills, MI 48326	James Verrier president & CEO	2,993	2,728	9,070	8,023	Turbochargers, engine valve-timing systems, ignition systems, emissions systems, thermal systems, transmission-clutch systems, transmission-control systems, torque management systems & rotating electric machines	28
25	Yanfeng Automotive Interiors (734) 254-3100; yfai.com	45000 Helm St. Plymouth, MI 48170	Nathan Bowen general manager	2,827	1,428	12,991	11,242	Interiors, exteriors, electronics, seating, safety & interiors	52
26	BASF Corp. (973) 245-6000; basf.com	100 Park Ave. Florham Park, NJ 07932	Wayne Smith CEO	2,696 f	2,335 f	10,371 f	10,613 f	Coatings, catalysts, engineering plastics, polyurethanes, coolants, brake fluids, lubricants & battery materials	34
27	Thyssenkrupp North America Inc. (312) 525-2800; thyssenkrupp.com	111 W. Jackson Blvd., Ste. 2400 Chicago, IL 60604	Patrick Bass CEO	2,636 f	2,897 f	10,986 f	11,395 f	Steering, dampers, springs & stabilizers, camshafts, forged machined components, bearings, undercarriage systems & components, axle assembly, assembled camshafts, forged crankshafts & drivetrain components, high-strength lightweight steels, electrical steel, tailored tempering, cell & battery production lines & valve control systems	26
28	Nexteer Automotive (989) 757-5000; nexteer.com	3900 E. Holland Road Saginaw, MI 48601	Michael Richardson president	2,513	2,218 f	3,842 f	3,361 f	Electric power steering, hydraulic power steering, steering columns & halfshafts	36
29	Nemak North America (248) 350-3999; nemak.com	Two Towne Square, Ste. 300 Southfield, MI 48076	Luis Pena business unit director, U.S. & Canada	2,478	2,753	4,257	4,482	Powertrain, structural & EV components	27
30	Hitachi Automotive Systems Americas Inc. (859) 734-9451; hitachi-automotive.us	955 Warwick Road Harrodsburg, KY 40330	Paul Carroll president & CEO	2,457 fe	2,310 fe	9,100 fe	9,240 fe	Engine management, electric powertrain & drive control	32
31	GKN Driveline (248) 296-7800; gkndriveline.com	2200 North Opdyke Road Auburn Hills, MI 48326	James Voeffray SVP-sales marketing & program management	2,426	2,342	6,740	6,505	Driveline halfshafts, driveshafts & AWD, powder metal engine & transmission components; automotive structures & chassis systems	33
32	Martinrea International Inc. (416) 749-0314; martinrea.com	3210 Langstaff Road Vaughan, Ontario L4K 5B2, Canada	Pat D'Eramo president & CEO	2,420 f	2,256 f	2,951 f	2,792 f	Steel & aluminum body, chassis & engine components; fluid handling components & assemblies & modules for small & large cars, crossovers, pickups & SUVs	22
33	JTEKT Automotive Group Cos. (864) 770-2241; jtekt.co.jp	7 Research Drive Greenville, SC 29607	Koichi Yamanaka president	2,263	2,684 fe	10,778	11,670 f	Bearings, steering systems, driveline systems & machine tools	30
34	Bridgewater Interiors (313) 842-3300; bridgewater-interiors.com	4617 W. Fort St. Detroit, MI 48209	Ronald Hall Jr. president & CEO	2,206 f	2,092 f	2,206 f	2,092 f	Automotive seating systems	37
35	TK Holdings Inc. (248) 373-8040; takata.com	2500 Takata Drive Auburn Hills, MI 48326	Shunkichi Shimizu president	2,186 fe	1,983 f	5,909 fe	5,360 f	Airbags, seat belts, electronics, steering wheels & interior trim & textiles	41
36	Schaeffler Group USA Inc. (248) 528-9080; schaeffler.us	1750 E. Big Beaver Road Troy, MI 48083	Marc McGrath president	2,177 e	2,183 e	10,883 e	10,914 e	Anti-friction bearings, engine, chassis & transmissions components wheel & axle bearings, clutch & transmission systems & dampers	40
37	Linamar Corp. (519) 836-7550; linamar.com	287 Speedvale Ave. W. Guelph, Ontario N1H 1C5, Canada	Linda Hasenfratz CEO	2,113	2,140	3,527	3,071	Engine camshafts, connecting rods, cylinder heads & blocks, balance shaft assemblies, transmission gears, differentials, clutch modules, shafts & shell assemblies, all-wheel-drive systems & e-Axles & fuel rails	29
38	TS Tech Americas Inc. (614) 575-4100; tstech.co.jp	8458 E. Broad St. Reynoldsburg, OH 43068	Minoru Maeda president	2,018 f	2,013 f	4,587 f	3,948 f	Seats & door liners	38
39	Plastic Omnium Co. (248) 458-0700; plasticomnium.com	2710 Bellingham Road, Ste. 400 Troy, MI 48083	Marc Cornet president, business unit North America	1,992	1,863	7,968	6,210	Fascias, front-end modules, rear-end modules, fenders, body panels & fuel systems	44
40	Toyoda Gosei North America Corp. (248) 280-2100; toyodagosei.com	1400 Stephenson Hwy. Troy, MI 48083	Yoshiyuki Fujita president	1,973 f	2,027 fe	6,996 f	7,239 f	Safety, sealing & interior systems; optoelectronics, exterior trim, rubber/plastic functionals & fuel systems	31
41	JATCO USA Inc. (248) 306-9200; jatco.co.jp	38700 Country Club Drive, Farmington Hills, MI 48331	William Krueger executive VP	1,959 fe	1,885 fe	6,664 fe	6,282 fe	Automatic transmissions & continuously variable transmissions	43
42	Grupo Antolin North America Inc. (248) 373-1749; grupoantolin.com	1700 Atlantic Blvd. Auburn Hills, MI 48326	Pablo Baroja regional manager, North America	1,915	1,296	5,804	3,868	Overhead systems, door module & panels, window regulators, interior & exterior lighting & cockpits	54
43	Toyota Boshoku America Inc. (859) 817-4000; toyota-boshoku.com/us	1360 Dolwick Drive, Ste. 125 Erlanger, KY 41018	Yoshihiro Ito chairman & CEO	1,869 fe	2,000 fe	9,683 fe	10,075 fe	Seats, door trim, carpet, headliners, oil & air filters, door panels, fabrics & substrates	39
44	Mitsubishi Electric Automotive America Inc. (513) 398-2220; meaa-mea.com	4773 Bethany Road Mason, OH 45040	Mitsuru Koiva president & CEO	1,860 fe	1,860 fe	6,000 fe	6,000 fe	Engine management, ignition, audio & navigation systems, alternators & starter motors	45
45	Cooper-Standard Automotive (248) 596-5900; cooperstandard.com	39550 Orchard Hill Place Drive Novi, MI 48375	Bill Humphrey president	1,806 fe	1,772 fe	3,473 fe	3,343 fe	Supplier of systems & components including rubber & plastic sealing, fuel & brake lines & fluid transfer hoses & anti-vibration systems	46

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46	Federal-Mogul (248) 354-7700; federalmogul.com	27300 W. 11 Mile Road Southfield, MI 48034	Rainer Jueckstock & Brad Norton co-CEOs	\$1,774 e	\$1,751 e	\$5,158 e	\$5,077 e	Pistons, rings, cylinder liners, piston pins, ignition & spark plugs, bearings, valvetrain products, gaskets, seals, heat shields, brake friction products, lighting, wipers & fuel pumps	47
47	Samvardhana Motherson Group (330) 856-3344; motherson.com	8640 East Market St. Warren, OH 44484	Vivek Chaand Sehgal chairman	1,752 fe	739 fe	9,075 fe	7,245 fe	Rearview mirrors, plastic modules, cockpits/IPs, door trims & bumpers, wiring harnesses, molded plastic parts & assemblies, lighting systems, air intake manifolds, shock absorbers & roof hatches	81
48	Brose North America Inc. (248) 339-4000; brose.com	3933 Automation Ave. Auburn Hills, MI 48326	Michael Brosseau president	1,696	1,743	6,783	6,705	Window regulators, door modules, seat structures & components, closure systems, electric motors & drives & electronics	48
49	Gestamp North America (248) 743-3400; gestamp.com	2701 Troy Center Drive, Ste. 150 Troy, MI 48084	Jeff Wilson president & CEO	1,668	1,600	7,945	8,511	Metal components and assemblies, body-in-white, chassis & mechanisms	49
50	North American Lighting (217) 465-6600; nal.com	2277 S. Main St. Paris, IL 61944	Kirk Gadberry president & COO	1,624 f	1,141 f	7,219 f	5,879 f	Exterior lighting	58
51	Piston Group (313) 541-8674; pistongroup.com	12723 Telegraph Road Redford Twp., MI 48239	Vinnie Johnson founder & chairman	1,581	1,161	1,581	1,161	Electric batteries, cooling modules, brake corners, grill assemblies, shock assemblies, instrument panels, seat trim, sun visors, armrests/bolsters, shades, injection molding, brazed evaporator heater cores & fully assembled HVAC units	–
52	Benteler Automotive Corp. (248) 377-9999; benteler.com	2650 N. Opdyke Road, Bldg. B Auburn Hills, MI 48326	Martin Weidlich executive VP, North America	1,427	1,468	6,486	6,383	Full-service supplier, chassis components and modules, engine & exhaust systems, structural components & lightweight solutions and solutions for electro-mobility	–
53	Tower Automotive Inc. (248) 675-6000; towerinternational.com	17672 N. Laurel Park Drive, Ste. 400 Livonia, MI 48152	Paer Malmhagen president	1,282 f	1,149 f	1,914 f	1,796 f	Body structures & assemblies, lower vehicle frames & structures, chassis modules & systems & suspension components	57
54	NTN Bearing Corp. of America (847) 298-7500; ntamericas.com	1600 E. Bishop Court, P.O. Box 7604 Mount Prospect, IL 60056	Tetsuya Sogo president	1,271 fe	1,262 fe	4,524 fe	4,366 fe	Automotive constant velocity joints, axle bearings, needle roller bearings, tapered roller bearings & intelligent in-wheel parts for EVs	55
55	Magneti Marelli Holding USA (248) 418-3000; magnetimarelli.com	3900 Automation Ave. Auburn Hills, MI 48326	Matthew Liddane country representative	1,268 f	1,032 f	8,232 f	7,425 f	Lighting, powertrain, electronics, suspensions systems, active & passive shock absorbers, exhaust systems & plastic parts	63
56	Powertech America Inc. (706) 902-6800; powertech.co.kr	220 Fort Drive LaGrange, GA 30240	Samho Cha director	1,230 e	1,230 e	4,920 e	4,554 e	Automatic transmissions	56
57	HELLA Corporate Center USA Inc. (734) 414-0900; hellausa.com	43811 Plymouth Oaks Blvd. Plymouth, MI 48170	Steve Lietaert president	1,207 fe	1,510 fe	7,100 fe	7,192 fe	Electronic & lighting components & systems	50
58	Goodyear Tire & Rubber Co. (330) 796-2121; goodyear.com	200 Innovation Way Akron, OH 44316	Steve McClellan president, Americas	1,178 e	1,110 e	3,100 e	3,000 e	Tires	35
59	Flex (408) 576-7000; flex.com	6201 America Center Drive San Jose, CA 95002	Mike McNamara CEO	1,128 fe	1,031 f	2,255 fe	2,062 f	Video radar decision units, ADAS sensors; infotainment telematics boxes; wiring, solenoids, 48V converters; lighting, overhead consoles & mirror actuators	51
60	Novelis Corp. (404) 760-4000; novelis.com	3560 Lenox Road N.E., Ste. 2000 Atlanta, GA 30326	Marco Palmieri, Senior VP, Novelis Inc. & president, Novelis North America	1,092	1,048 fe	2,275 fe	1,940 fe	Flat-rolled aluminum sheet for vehicle structures, body panels, heat exchangers, heat & other shields automotive applications	60
61	F & P America Mfg. Inc. (937) 339-0212; fandp.com	2101 Corporate Drive Troy, OH 45373	Makoto Hasegawa president	1,074 fe	1,040 f	1,772 fe	1,635 fe	Chassis, suspension systems, control arms, pedal assemblies & hydroforming	61
62	TRAM Inc. (734) 254-8500; tokai-rika.co.jp/en	47200 Port St. Plymouth, MI 48170	Mikio Kato president	1,056 fe	1,031 f	4,224 fe	3,964 f	Switches, heater control panels, gear shifters, key cylinder & lock sets, seat belts, outer door mirrors & immobilizer systems	–
63	Hanon Systems USA hanonsystems.com	One Village Center Drive Van Buren Township, MI 48111	In Young Lee president & CEO	1,032	982	4,915	4,912	Thermal & energy management; heating ventilation & air conditioning; compressors; fluid transport & powertrain cooling; thermal & emissions solutions for conventional hybrid, fuel & electric, cell & autonomous vehicles	–
64	Eberspaecher North America Inc. (248) 994-7015; eberspaecher.com	29101 Haggerty Road Novi, MI 48377	Greg Sibley president	1,023 f	1,323 f	4,652 f	4,726 f	Silencers, catalytic converters, particulate filters, manifolds, vehicle heaters & electrical vehicle heaters & electronics	53
64	Autoneum North America (248) 848-0100; autoneum.com	29293 Haggerty Road Novi, MI 48377	John Lenga president & CEO, BG North America	1,023 f	951	2,176 f	2,023	Engine covers, engine encapsulations, hoodliners, outer dashes, water box shields, inner dashes, carpets, floor mats, underbody shields, floor pans, heatshields, outer tunnel insulators, wheelhouse, outer liners & dampers	66
66	Mando America Corp. (248) 668-4300; mando.com	29930 Hudson Drive Novi, MI 48377	Ju Sin Kim president	1,011	1,056 f	5,057 f	5,560 f	Brakes, steering, suspension, radar, cameras, ultrasonic, onboard chargers, components & advanced highly automated driving chassis systems	59

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Top 100 suppliers – The largest suppliers to North America, ranked by sales of original equipment parts in 2016

2016 rank	Company	Address	Top executive	Total North America OEM automotive parts sales (dollars in millions) 2016	Total North America OEM automotive parts sales (dollars in millions) 2015	Total global OEM automotive parts sales (dollars in millions) 2016	Total global OEM automotive parts sales (dollars in millions) 2015	Products	2015 rank
67	Kautex Textron North America (248) 616-5100; kautex.com	750 Stephenson Hwy. Troy, MI 48083	Markus Loszer VP, customer business unit	\$950 e	\$849 e	\$2,210 e	\$2,022 e	Fuel tank systems, clear vision systems, selective catalytic reduction systems, camshafts & packaging	73
68	TI Automotive (248) 296-8000; tiautomotive.com	2020 Taylor Road Auburn Hills, MI 48326	Bill Kozyra chairman, president & CEO	924 e	952 e	3,300 e	3,400 e	Automotive fluid systems technology	65
69	ABC Group Inc. (416) 246-1782; abcgroupinc.com	2 Norelco Drive Toronto, Ontario M9L 2X6, Canada	Mary Anne Bueschkens CEO	896 e	895 e	948 e	932 e	Air management systems, fluid management systems, HVAC systems, interior systems, exterior systems & flexible products	69
70	Visteon Corp. (800) 847-8366; visteon.com	One Village Center Drive Van Buren Township, MI 48111	Sachin Lawande president & CEO	885	941	3,161	3,245	Vehicle cockpit electronics: instrument clusters, head-up & information displays, infotainment, connected audio, connectivity & telematics	67
71	Inteva Products (248) 655-8886; intevaproducts.com	1401 Crooks Road Troy, MI 48084	Lon Offenbacher president & CEO	884 f	952 f	2,600 f	2,800 f	Closure systems, interior systems, roof systems, motors & electronic systems	70
72	DAA Draexlmaier Automotive of America (864) 485-1000; draexlmaier.us	1751 E. Main St. Duncan, SC 29334	Ulrich Eichler president & COO	874 e	820 e	3,971 e	4,100 e	Electrical systems, electrical & electronic components, interiors, system assembly & storage system	76
73	Shiloh Industries Inc. (330) 558-2600; shiloh.com	880 Steel Drive Valley City, OH 44280	Ramzi Hermiz president & CEO	865 f	991 fe	972 f	1,057 fe	Lightweight, noise, vibration & harshness solutions, chassis & powertrain systems	64
74	Multimatic Inc. (905) 470-9149; multimatic.com	8688 Woodbine Ave. Markham, Ontario L3R 8B9, Canada	Peter Czapka president & CEO	846 e	714 e	940 e	840 e	Hinge systems, stamped welded assemblies & suspension systems	83
75	Ryobi Die Casting USA (317) 398-3398; ryobidiecasting.com	800 W. Mausoleum Road Shelbyville, IN 46176	Tom Johnson president & COO	833 fe	804 fe	2,379 fe	2,117 fe	Aluminum high pressure die castings; powertrain & structural components	62
76	NSK Americas Inc. (734) 913-7500; nskamericas.com	4200 Goss Road, P.O. Box 134007 Ann Arbor, MI 48105	Steven Beckman CEO	817 fe	869 fe	4,941 fe	4,858 fe	Bearings, hub bearings, steering columns, electric power steering & automatic transmissions products	72
77	American Mitsuba Corp. (989) 773-0377; americanmitsuba.com	2945 Three Leaves Drive Mount Pleasant, MI 48858	Yoshimasa Kimura president & CEO	805 fe	795 f	2,683 fe	2,838 f	Wiper systems, power window motor, starter motor, fan motor, seat motor, sunroof motors, power slide door assemblies, power tailgate systems & electric power steering motor	74
78	DTR Industries Inc. (419) 358-2121; dtroh.com	320 Snider Road Bluffton, OH 45817	T. Kato president	758 fe	760 fe	3,340 fe	3,280 fe	Anti-vibration molded rubber & fuel delivery systems	80
79	Superior Industries International Inc. (248) 304-9720; supind.com	26600 Telegraph Road, #400 Southfield, MI 48033	Donald Stebbins president & CEO	733	728	733	728	Aluminum wheels	82
80	Michelin North America Inc. (864) 458-5000; michelin.com	One Parkway S. Greenville, SC 29615	Pete Selleck president & chairman	709 e	702 e	1,666 e	1,601 e	Tires	86
81	CITIC Dicastal Co. (86) 335-5358549; dicastal.com	No.185 Longhai Road Qinhuangdao, Hebei, China 066011	Zuo Xu chairman	703 f	704 f	2,603 f	2,429 f	Aluminum alloy wheels & aluminum casting parts	84
82	Dow Automotive/Related Businesses (248) 391-6300; dowautomotive.com	1250 Harmon Road Auburn Hills, MI 48326	Steve Henderson president	698 fe	884 fe	1,744 f	2,600 f	Glass bonding adhesive, structural adhesive, epoxy composite, polyurethane foam, acoustic foam, elastomer & fluids	70
83	Webasto Roof Systems Inc. (248) 997-5100; webasto.com	1757 Northfield Drive Rochester Hills, MI 48309	Andre Schoenekaes president & CEO	686 fe	668 f	3,429 fe	3,179 f	Sunroofs, panorama roof systems, convertible roof systems; parking heaters	88
84	Dura Automotive Systems (248) 299-7500; duraauto.com	1780 Pond Run Auburn Hills, MI 48326	Lynn Tilton CEO	670 f	704 f	1,523 f	1,600 f	Mechatronic control systems, including shift-by-wire systems; electronic systems, actuators & advanced driver assist systems (ADAS); lightweight structural body systems, including multimaterial closures and exterior systems, decorative & electronic-infused exterior trim	84
85	Rassini International (734) 454-4904; rassini.com	14500 Beck Road Plymouth, MI 48170	Norman Jacobs president	666	588 f	833	735	Leaf springs, parabolic springs, coil springs & braking systems components	91
86	Alpine Electronics of America Inc. (310) 326-8000; alpine-usa.com	19145 Gramercy Place Torrance, CA 90501	Isao Nagasaki president	641 fe	680 fe	1,830 fe	2,000 fe	Navigation, telematics, drive assist, sound & video systems	87
87	Sensata Technologies Holding NV (508) 236-3800; sensata.com	529 Pleasant St. Attleboro, MA 02703	Martha Sullivan president & CEO	640 f	660	2,000 f	2,000	Pressure, temperature, speed and position sensors, motor protectors, & switches	77
88	Gentex Corp. (616) 772-1800; gentex.com	600 N. Centennial St. Zeeland, MI 49464	Fred Bauer chairman & CEO	590	559	1,639	1,510	Interior & exterior auto-dimming rearview mirrors, advanced electronic features & components, SmartBeam HBA and DFL advanced lighting-assist, rear camera displays, compasses, LED turn signals, side blind-zone indicators & driver assist features	93
89	CIE Automotive USA Inc. (586) 566-3900; cieautomotive.com	15030 23 Mile Road Shelby Township, MI 48315	Mikel Orbegoza commercial director America	577	552	2,509	2,401	Engine & powertrain components, chassis & steering components, exterior & interior trim & roof systems components	94
90	Infineon Technologies North America Corp. (866) 951-9519; infineon.com/us	640 N. McCarthy Blvd. Milpitas, CA 95035	Robert LeFort president	547	511 e	3,218	2,840 e	Microcontrollers, intelligent sensors; power semiconductors & power modules for powertrain (combustion, hybrid, electric); safety; security & body & convenience applications	100

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91	AGC Automotive Americas (248) 522-9300; agc-automotive.com	34505 W. Twelve Mile Road, Ste. 300 Farmington Hills, MI 48331	Tatsuro Sugiyama regional president	\$464 fe	\$508 fe	\$2,492 fe	\$2,530 fe	Glazing systems	–
92	Rheinmetall Automotive (248) 836-3000; us.rheinmetall-automotive.com	975 S. Opdyke Road, Ste. 100 Auburn Hills, MI 48326	Horst Binnig CEO	452	411	2,656	2,568	Pistons, emission control products, oil/water pumps, engine blocks, manifolds & bearings	–
93	Omron Automotive Electronics Inc. (248) 893-0200; omronauto.com	29185 Cabot Drive Novi, MI 48377	Randy Wara president	450 f	455 fe	1,407 f	1,338 fe	Electronic control units, keyless entry, switches, closure controls, relays & electronic & power steering	–
94	Pioneer Automotive Technologies Inc. (248) 449-6799; pioneerelectronics.com	22630 Haggerty Road Farmington Hills, MI 48335	Steven Moerner president & COO	420 fe	528 fe	1,616 fe	1,906 fe	Audio/video entertainment & navigation systems	97
94	Shape Corp. (616) 846-8700; shape-corp.com	1900 Hayes Grand Haven, MI 49417	Gary Verplank CEO	420	450	700	600	Bumper systems, BIW structures, door impact beams, active grille shutters & injection molded assemblies	–
96	Kongsberg Automotive (248) 468-1300; kongsbergautomotive.com	27275 Haggerty Road Novi, MI 48377	Henning Jensen president & CEO	414	451	1,060	1,123	Gearshift systems, powertrain and chassis products, cable controls, seat comfort & seat climate solutions, fluid transfer systems & air brake couplings	–
97	NHK International Corp. (248) 926-0111; nhkspg.co.jp	46855 Magellan Drive Novi, MI 48377	Ko Masuda president	413 fe	527 fe	3,180 fe	3,292 fe	Stabilizer bars, coil springs, seats & valve springs	98
98	Inalfa Roof Systems USA* (248) 371-3060; inalfarooftsystems.com	1370 Pacific Drive Auburn Hills, MI 48326	Angel Legarda CEO, North America	408 fe	255 fe	3,137 f	1,964 f	Body systems, interior systems, exterior chassis systems, electronic parts systems & seat systems	–
99	SKF Automotive (734) 414-6800; skfusa.com	46815 Port St. Plymouth, MI 48170	Jim Seta global VP, Automotive Bearings	405	468	1,840	1,948	Bearings, bearing units, automotive specialty products, seals & molded rubber products	–
100	Johnson Electric North America (734) 392-5302; johnsonelectric.com	47660 Halyard Drive Plymouth, MI 48170	Patrick Wang CEO	400 fe	324 fe	2,000 fe	1,706 fe	Cooling fan modules, engine & transmission oil pumps, engine actuators & valves, power steering motors, HVAC & lighting actuators, electric motors, switches, solenoids & flexible PCBs	–
101	Hyundai DYMOS (706) 645-4460	715 3rd Ave. West Point, GA 31833	Hui-Chul Jang VP	396 e	320 e	3,958 e	3,202 e	Manual transmissions, DCT, axles & seating systems	–
102	Nissin Brake Ohio Inc. (419) 425-6725; nissinbrake.com	1901 Industrial Drive, P.O. Box 866 Findlay, OH 45839	Kazuo Koyama CEO	371 f	399 f	1,264 f	1,385 f	ABS, VSA, foundation brake systems, rear toe control, aluminum knuckles, aluminum mounts, clutch master & slave cylinders	–

INDEX

ABC Group Inc.	69	Eberspaecher North America Inc.	64	Linamar Corp.	37	Ryobi Die Casting USA	75
Adient	6	F & P America Mfg. Inc.	61	Magna International Inc.	1	Samvardhana Motherhood Group	47
AGC Automotive Americas	91	Faurecia	9	Magneti Marelli Holding USA	55	Schaeffler Group USA Inc.	36
Aisin World Corp. of America	11	Federal-Mogul	46	Mahle Industries Inc.	17	Sensata Technologies Holding NV	87
Alpine Electronics of America Inc.	86	Flex	59	Mando America Corp.	66	Shape Corp.	94
American Axle & Manufacturing Holdings Inc.	20	Flex-N-Gate Corp.	10	Martinrea International Inc.	32	Shiloh Industries Inc.	73
American Mitsubishi Corp.	77	Gentex Corp.	88	Michelin North America Inc.	80	SKF Automotive	99
Autoliv North America	18	Gestamp North America	49	Mitsubishi Electric Automotive America Inc.	44	Sumitomo Electric Wiring Systems Inc.	19
Autoneum North America	64	GKN Driveline	31	Multimatic Inc.	74	Superior Industries International Inc.	79
BASF Corp.	26	Goodyear Tire & Rubber Co.	58	Nemak North America	29	Tenneco Inc.	16
Benteler Automotive Corp.	52	Grupo Antolin	42	Nexteer Automotive	28	Thyssenkrupp North America Inc.	27
BorgWarner Inc.	24	Hanon Systems USA	63	NHK International Corp.	97	TI Automotive	68
Bridgewater Interiors	34	HELLA Corporate Center USA Inc.	57	Nissin Brake Ohio Inc.	102	TK Holdings Inc.	35
Brose North America Inc.	48	Hitachi Automotive Systems Americas Inc.	30	North American Lighting	50	Tower Automotive Inc.	53
CalsonicKansei North America Inc.	22	Hyundai DYMOS	101	Novelis Corp.	60	Toyota Gosei North America Corp.	40
CIE Automotive USA Inc.	89	Hyundai Mobis	12	NSK Americas Inc.	76	Toyota Boshoku America Inc.	43
CITIC Dicastal Co.	81	IAC Group	21	NTN Bearing Corp. of America	54	TRAM Inc.	62
Continental Automotive Systems U.S. Inc.	5	Inalfa Roof Systems USA	98	Omron Automotive Electronics Inc.	93	TS Tech Americas Inc.	38
Cooper-Standard Automotive	45	Infineon Technologies North America Corp.	90	Panasonic Automotive Systems Co. of America	15	Valeo Inc.	14
DAA Draexlmaier Automotive of America	72	Inteva Products	71	Pioneer Automotive Technologies Inc.	94	Visteon Corp.	70
Dana Holding Corp.	23	JATCO USA Inc.	41	Piston Group	51	Webasto Roof Systems Inc.	83
Delphi Automotive Systems	8	Johnson Electric North America	100	Plastic Omnium Co.	39	Yanfeng Automotive Interiors	25
Denso International America Inc.	4	JTEKT Automotive Group Cos.	33	Powertech America Inc.	56	Yazaki North America Inc.	13
Dow Automotive/Related Businesses	82	Kautex Textron North America	67	Rassini International	85	ZF North America Inc.	2
DTR Industries Inc.	78	Kongsberg Automotive	96	Rheinmetall Automotive	92		
Dura Automotive Systems	84	Lear Corp.	7	Robert Bosch	3		

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