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## The C919 Major Suppliers

### Legend:

US: 48 (6)

Europe: 26 (8)

Asia Pacific: 6 (3)

China: 14 (7)

Airframe			
#	Component	Supplier	Region
1	Pilot controls	Collins Aerospace, Propeller Systems (Ratier Figeac)	US
2	Fly-by-wire flight control system	Honeywell Aerospace	US
3	Fly-by-wire flight control actuation system	Parker Aerospace, Control Systems Division	US
4	Cabin management systems	Collins Aerospace, Avionics Division	US
5	Hydraulic systems & equipment	Parker Aerospace Hydraulic Systems Division; tested and assembled by NEIAS Parker Aero Systems & Equipment (JV: Parker Hannifin Corporation & AVIC)	US and China
6	Brake control system	Crane Aerospace & Electronics	US
7	Aircraft wheels, tyres & carbon brakes	Honeywell Aerospace, Aircraft Landing Systems	US
8	Air X radial tyres	Michelin Aircraft Tire Corporation	US
9	Fire fighting/detection systems	Collins Aerospace, Sensors & Integrated Systems (Kidde)	US
10	Exhaust systems	Nexcelle (JV: Safran Nacelles and ST Engineering's Middle River Aircraft Systems)	Europe and Asia Pacific
11	Bleed air systems	Liebherr-Aerospace Toulouse SAS	Europe
12	Composite horizontal tail plane	GKN Aerospace and Shanghai Aircraft Manufacturing Co)	Europe and China
13	Landing gear	Liebherr LAMC Aviation (Changsha) Co. Ltd. (JV: Liebherr-Aerospace Lindenberg GmbH & AVIC Landing Gear Advanced Manufacturing Corp.)	Europe and China
14	Wing spoilers and winglets	FACC AG	Asia Pacific
15	Aircraft interiors	FACC AG	Asia Pacific
16	Empennages, rear fuselage & APU door	AVIC SAC Commercial Aircraft Company Ltd.	China

17	Nose cones	Chengdu Aircraft Insustrials (Group) Co. Ltd.	China
18	Foreward & aft fuselage barrels	Jiangxi Hongdu Aviation Industry (Group) Corporation Ltd.	China
19	APU door assembly	Zhejiang Zixi Aviation Industry Co., Ltd.	China
	Cabin address systems	Cobham plc	Europe
	Aircraft security equipment	AD Aerospace Limited	Europe
	Wing components	Xi'an Aircraft Industry (Group) Company Ltd.	China

Avionics			
#	Component	Supplier	Region
20	Deos real-time operating system	DDC-I, Inc.	US
21	Cockpit control systems	Eaton Corporation, Sensing & Controls	US
22	Flight recorders	GE Aviation Systems	US
23	Weather mapping radar	Collins Aerospace, Avionics Division	US
24	Enhanced vision systems (EVS)	Elbit Systems of America Commerical Aviation, Kollsman	US
25	Doors signals system	Crane Aerospace & Electronics, Power Solutions	US
26	Electronic flight instrument systems	GE Aviation, Digital & Electrical Power	US
27	Air data system	Honeywell Aerospace	US
28	LASEREF VI inertial reference system	Honeywell Aerospace	US
29	Ice detectors	Collins Aerospace, Sensors & Integrated Systems	US
30	Cockpit control panel assemblies	FTG Aerospace Tianjin (JV: FTG Aerospace and Tianjin Printronics Circuit Corp.)	US and China
31	External & taxi aid camera system (ETACS)	AD Aerospace Limited	Europe
32	External communications system	Panasonic Avionics Corporation	Asia Pacific
	Integrated modular avionics system	Aviage Systems (JV: GE and AVIC)	US and China

Power Systems			
#	Component	Supplier	Region
33	Auxiliary power units	Honeywell Aerospace	US
34	Emergency generators	Collins Aerospace, Electrical Systems	US
35	Starter generators	Honeywell Aerospace	US
36	Cable assemblies	Vermillion Inc.	US

37	Composite fan blades for the engine	Albany Engineered Composites	US
38	Closed die forged & seamless ring rotating components for the engine	Forged Solutions Group	US
39	Fuel tanks & systems	Parker Aerospace, Air & Fuel Division	US
40	Fuel inerting systems	NEIAS Parker Aero Systems & Equipment (JV: Parker Hannifin Corporation & AVIC)	US and China
41	Nacelle's inlet, fan cowls, inner fixed structure and engine mounts	ST Engineering's Middle River Aircraft Systems and Safran	Europe and Asia Pacific
42	Nacelle and thrust reversers	Nexcelle (JV: ST Engineering's Middle River Aircraft Systems and Safran Nacelles)	Europe and Asia Pacific
43	LEAP-1C engine	CFM International Inc. (JV: GE and Safran Aircraft Engines)	US and Europe
44	Full authority digital engine controls (FADEC)	JV : GE and FADEC International (JV: BAE Systems and Safran)	US and Europe
45	Nickel-cadmium batteries	Saft	Europe
46	Engine harnesses	GKN Aerospace, Fokker Elmo	Europe
47	Low pressure turbine stator stages, disc & casing for the engine	Avio Aero	Europe
48	Titanium-aluminium blades for the engine	Mecachrome	Europe
49	Fuel oil heat exchangers for LEAP engine	Meggitt Control Systems	Europe
50	Engine interface control unit	Meggitt Sensing Systems	Europe
51	O-duct thrust reverser	Safran Nacelles Le Havre	Europe
52	Engine pylons	AVIC SAC Commercial Aircraft Company Ltd.	China

Components			
#	Component	Supplier	Region
53	Passenger door damper & emergency opening actuation system	Collins Aerospace, Power & Controls Division	US
54	Cargo door actuation system	Eaton Aerospace, Actuation, Power & Controls Division	US
55	Door safety systems & electromechanical flight lock actuators	Meggitt PLC	US
56	High lift system	Moog Inc.	US
57	Power transformers	Crane Aerospace & Electronics, Power Solutions	US

58	Aircraft exterior lighting systems	Collins Aerospace, Interiors, Lighting Systems	US
59	Instrumentation lighting controller	Eaton Corporation, Sensing & Controls	US
60	Ice protection/prevention equipment	Collins Aerospace, Sensors & Integrated Systems	US
61	Fuel flow transmitters	Crane Aerospace & Electronics, Power Solutions	US
62	Pressure detectors	Druck	US
63	Metal & alloy castings	Arconic Power and Propulsion (Arconic TITAL)	US
64	Hydraulic system valves	GarKenyon Aerospace & Defense	US
65	TRCU thrust reverer control unit	Safran Electrical Power	Europe
66	Mainshaft & gearbox bearings for the LEAP engine	SKF Group	Europe
67	Wing anti-ice system	Liebherr-Aerospace Toulouse SAS	Europe
68	Electrical wiring interconnection system (EWIS)	SAIFEI (JV: Safran Electrical Power and COMAC)	Europe and China
69	Wing box rib	Zhejiang Xizi Aviation Industry Co., Ltd.	China
	Fasteners	Arconic Fastening System	US
	Gaskets	W.L. Gore & Associates	US

Materials			
#	Component	Supplier	Region
70	Carbon-reinforced composites	Hexcel Composites	US
71	Titanium aluminide alloy for LEAP engine	Alcoa Corporation	US
72	Prepregs	Solvay	Europe
73	Foam core composites	Evonik Resource Efficiency GmbH	Europe
	Adhesive tape	W.L. Gore & Associates	US
	Self-adhering films	Solvay	Europe
	Aluminium plate	Aleris Rolled Products Germany GmbH	Europe

Source: Airframer, [www.airframer.com](http://www.airframer.com).