

CERTIFICATE

Certificate Number: 501862.00
With 7 Page Addendum

The Energy Management System and implementation of:

American Axle & Manufacturing Holdings, Inc.

With Central Functions At:
World Headquarters
One Dauch Drive,
Detroit, MI 48212

meets the requirements of the standard:

ISO 50001:2018

Scope and Boundary: Manufacture of Driveline Components

Certification Structure: Multisite

Certificate Expires:	July 11, 2024
Certificate Reissued:	December 20, 2023
Certificate Issued:	September 28, 2021
Certified Since:	July 12, 2018



Dr. Cem O. Onus
Managing Director

DEKRA Certification, Inc.
1945 The Exchange SE #300
Atlanta, GA 30339 USA
(215) 997-4519
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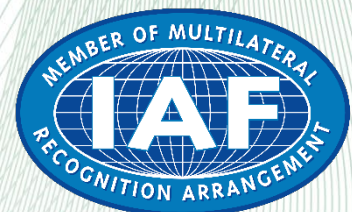
Site Address	Scope & Boundary Per Site:
<i>World Headquarters (Central Function) One Dauch Drive, Detroit, MI 48212</i>	Central function: This facility houses a multitude of business functions, working with all of our facilities around the world to deliver driveline, drivetrain and chassis systems, metal formed products and services. Boundaries are limited to site address.
<i>Advanced Technology Development Center 1840 Holbrook Drive, Detroit, MI 48212</i>	Development of advanced products, processes and systems. Quality Engineering, Gear Development, Benchmarking, Prototype Build, Advanced Engineering and Collaboration Platform in the developmental stages. Boundaries are limited to site address.
<i>Auburn Hills Manufacturing Complex I 1987 Taylor Road, Auburn Hills, MI 48326</i>	Metal forming. The facility has a dynamic collection of forging presses coupled with prototype and high-volume production machining equipment. Boundaries are limited to site address.
<i>Auburn Hills Manufacturing Complex II 2007 Taylor Road, Auburn Hills, MI 48326</i>	Metal forming. The facility has a dynamic collection of forging presses coupled with prototype and high-volume production machining equipment. Boundaries are limited to site address.
<i>Bluffton Manufacturing Facility 131 W. Harvest Road, Bluffton, IN 46714</i>	Production of components, including: planetary rings, sun gears, and planetary pinions. Boundaries are limited to site address.
<i>Bolingbrook Manufacturing Facility 455 Gibraltar Drive, Bolingbrook, IL 60440</i>	Production of metal formed components, including: machining and assembly. Boundaries are limited to site address.
<i>Chicago Manufacturing Facility - Plant 2 329 West Pershing Rd, Chicago, IL 60609</i>	Production of metal formed components, including: output shafts and drive pinions. Boundaries are limited to site address.
<i>Columbus Manufacturing Facility 2805 Norcross Drive, Columbus, IN 47201</i>	Production of metal formed components, including: suspension components and shafts. Boundaries are limited to site address.
<i>Detroit Business Office 1840 Holbrook St., Detroit, MI 48212</i>	Administration for the AAM Driveline business unit. Boundaries are limited to site address.

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Site Address	Scope & Boundary Per Site:
<i>Fort Wayne Manufacturing Facility 6710 Innovation Boulevard, Ft Wayne, IN 46818-1334</i>	Precision differential gears and assemblies to support a variety of AAM customers and programs. Uses AccuGear® designing, testing, advanced-process forging and precision finishing to custom manufacture gears and other net-shaped components to customers' specifications. Boundaries are limited to site address.
<i>Fraser Manufacturing Facility 18450 Fifteen Mile Road, Fraser, MI 48026</i>	Production of metal formed components, including: transmission components, shafts, and gears. Boundaries are limited to site address.
<i>Malvern Manufacturing Facility 3255 Alliance Road NW, Malvern, Ohio 44644</i>	Forged and finished machined transmission shafts, hypoid drive pinions, propeller shafts, transmission gears and wheel spindles among other products. Specializes in precision cold and warm forging with full capability to finish machine and heat treat. Boundaries are limited to site address.
<i>Minerva Manufacturing Facility 461 Knox Court, Minerva, Ohio 44657</i>	Forged and finished machined transmission shafts, hypoid drive pinions, propeller shafts, transmission gears and wheel spindles among other products. Specializes in precision cold and warm forging with full capability to finish machine and heat treat. Boundaries are limited to site address.
<i>North Vernon Manufacturing Facility 3100 N. State Highway 3, North Vernon, IN 47265</i>	Production of components including: connecting rods. Boundaries are limited to site address.
<i>Oxford Forge 2300 Xcelsior Drive, Oxford, MI 48371</i>	Production of metal formed components, including: transmission components, shafts, and gears. Boundaries are limited to site address.
<i>Oxford Manufacturing Facility 45 W Oakwood Road, Oxford, MI 48371</i>	Metal forming for powertrain, driveline and chassis applications, using advanced processes including: closed-die flashless warm forging, lean manufacturing techniques and Total Productive Maintenance (TPM). Custom manufacture of precision metal parts to customer specifications. Boundaries are limited to site address.

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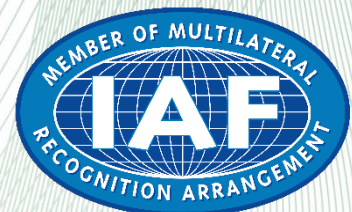
Site Address	Scope & Boundary Per Site:
<i>Ridgway Manufacturing Facility 1149 Rocky Road, Ridgway, PA 15853</i>	Production of components including: connecting rods, bearing caps, and planetary gears. Boundaries are limited to site address.
<i>Rochester Hills Tech Center 2965 Technology Drive, Rochester Hills, MI 48309</i>	Product design and development, competitive analysis, systems integration and the validation of driveline, drivetrain and chassis systems and metal formed products. Boundaries are limited to site address.
<i>Emporium Manufacturing Facility 1 Airport Road, Emporium, PA 15834</i>	Connecting rods and core powdered metal components. Boundaries are limited to site address.
<i>Rochester Manufacturing Facility 2903 Fort Wayne Road, Rochester, IN 46975-8616</i>	Production of high volume machined components for the automotive industry. Boundaries are limited to site address.
<i>Royal Oak Manufacturing Facility 2727 W 14 Mile Road, Royal Oak, MI 48073</i>	Production of metal formed components, including: transmission components, shafts, and gears. Boundaries are limited to site address.
<i>St. Marys Manufacturing Facility 197 West Creek Road, St. Marys, PA 15857</i>	Production of components including: suspension components and assemblies. Boundaries are limited to site address.
<i>Subiaco Manufacturing Facility Hwy 22 & Leo, Subiaco, AR 72865</i>	Production of powertrain components, including: sprockets and output shafts. Boundaries are limited to site address.
<i>Three Rivers Manufacturing Facility One Manufacturing Drive, Three Rivers, MI 49093</i>	Driveline products and systems, including front and rear axle manufacturing. Boundaries are limited to site address.
<i>Troy Manufacturing Facility 690 West Maple Road, Troy, MI 48084</i>	Production of metal formed components, including: transmission components and forged components.
<i>Twinsburg Manufacturing Facility 8001 Bavaria Road, Twinsburg, OH 44087</i>	Production of components including: valve bodies, clutch housings, and solenoid bodies. Boundaries are limited to site address.
<i>Warren Manufacturing Facility 30500 Ryan Road, Warren, MI 48092</i>	Production of components specifically tooling. Boundaries are limited to site address.

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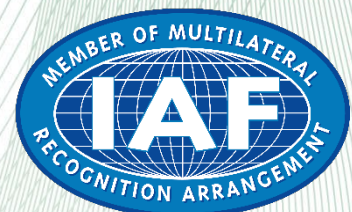
Site Address	Scope & Boundary Per Site:
<i>El Carmen Manufacturing Facility Carr. Mty. – Monclova Km 12, El Carmen, N.L. Mexico 66550</i>	Production of cast components including: axle carriers, differential cases, and brackets. Boundaries are limited to site address.
<i>Guanajuato Forge Comerciantes No. 1300 Parque Industrial FIPASI Carretera Silao-Irapuato Km 5.3 Silao, Guanajuato C.P. 36100 Mexico</i>	Forging components. Boundaries are limited to site address.
<i>Guanajuato Manufacturing Complex - Plant 1-5 Comerciantes No. 1300 Parque Industrial FIPASI Carretera Silao-Irapuato Km 5.3 Silao, Guanajuato C.P. 36100 Mexico</i>	Driveline complex that manufactures rear-axle assemblies, propeller shafts, driveline systems and forging components. Boundaries are limited to site address.
<i>Guanajuato Manufacturing Complex - Plant 6 Paseo de los industriales poniente #1200, Fipasi Industrial Park, Silao, Guanajuato CP 36100</i>	Production of rear-axle assemblies, propeller shafts, driveline systems and forging components. Boundaries are limited to site address.
<i>Las Colinas Manufacturing Facility AAM Maquiladora Mexico SDRLCV, Pseo De Las Colinas 301, Parque IND Las Colinas, Sopena Silao, GTO</i>	Production of precision differential gears and assemblies to support a variety of AAM customers and programs. Boundaries are limited to site address.
<i>Ramos Manufacturing Complex - Plant 1 Boulevard. Ind., De la Transformacion, No. 3120, Parque Industrial Saltillo, Ramos Arizpe, Coahuila, Mexico C.P. 25900</i>	Powder metal and machining. Boundaries are limited to site address.
<i>Ramos Manufacturing Complex - Plant 2 Official no. 3088 of Calle Automotriz of Parque Industrial Saltillo, Ramos Arizpe, Coahuila, Mexico</i>	Powder metal and machining. Boundaries are limited to site address.
<i>Silao Manufacturing Facility AAM Maquiladora Mexico SDRLCV, Parque IND Las Colinas, Sopena Silao, GTO</i>	Production of driveline components and Silao's AccuGear® custom manufacturing to meet customers' specifications. Boundaries are limited to site address.

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<i>Europe Headquarters & Engineering Center Paul-Ehrlich-Straße 1063225 Langen, Germany</i>	This facility houses technical, engineering and sales functions. Performs on-site development, design and test capability services. Boundaries are limited to site address.
<i>Araucária Manufacturing Facility Avenida Das Nacoes, 2051 Bairro, Araucaria, Parana Brazil 83700-670</i>	A driveline facility that manufactures front axles, rear axles and transmission housings. Boundaries are limited to site address.
<i>Indaiatuba Manufacturing Facility Rua Augusto Tonin, 704, Distrito Industrial Nova Era, 13.347-393 Indaiatuba - São Paulo, Brazil</i>	Powder metal and assemblies. Boundaries are limited to site address.
<i>Wooster Manufacturing Facility 3690 Long Road, Wooster, OH 44691</i>	Hot forging, cold forging and machining processes. Production of drive shafts, flanges, input gears, outer races, outer support rings, main shafts, pinions, wheel hubs, pilot hubs and pump hubs. Boundaries are limited to site address.
<i>Guanajuato Distribution Center AV Paseo Colinas 100 A1, Parque Colinas, Sopena Silao, GTO, C.P. 36110 Mexico</i>	Warehouse import global materials for GMC Plants 1 through 6 and SMF, Performs shipping services to customers. Manufacture of aftermarkets components. Boundaries are limited to site address.
<i>Irapuato Manufacturing Facility Rio Danubio 625, Parque Tecnoindustrial Castro del Rio, Irapuato Guanajuato 36815 Mexico</i>	Metal forming including precision machining. Production of wheel hubs, input gears, output shafts, pilot hubs, turbines, transmission components and pinions. Boundaries are limited to site address.
<i>Padochovska 1/1117, CZ-644 12 Oslavany, Czech Republic</i>	Production of metal forming components, including splined sleeves, brake pistons, switch housings, and more.
<i>33/35, rue Roger Salengo – BP 227, 69633 Venissieux Cedex, Lyon, France</i>	Production of components including isolation pulleys. Lyon also has an on-site testing center.

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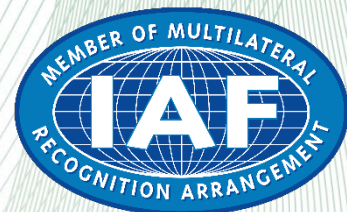
Site Address	Scope & Boundary Per Site:
<i>Betim Manufacturing Facility</i> Rua Senador Giovanni, Agnelli 800 Distrito Industrial Paulo Camilo Norte, 32681-080 Betim, MG CNJP 61.096.996/0008-41	Metal Forming business unit. Core competencies include hot and cold forging, heat treatment and machining. Products include nuts, wheel hubs, gears and bevel gears, steering components, inner and outer races, stub shafts and pulleys.
<i>Jundai Manufacturing Complex</i> Avenida Arquimedes 500 113211-840 – Judiai SP, Brazil	Metal Forming business unit. Core competencies include hot and cold forging, heat treatment and machining. Products include nuts, wheel hubs, gears and bevel gears, steering components, inner and outer races, stub shafts and pulleys.
<i>Swidnica Manufacturing Facility</i> Szarych Szeregow 16-18 58-100 Swidnica Poland	Producing precision-engineered AAM driveline systems and components, including TracRite® traction-enhancing differentials.
<i>Valencia Manufacturing Facility</i> Poligono Industrial Juan Carlos 1 C/La Granja 5 Almussafes, Valencia, Spain 46440	Production of components including powder metal connecting rods, and more
<i>Barcelona Manufacturing Facility</i> Calle Miquel Servet, 22 Barcelona, Spain	Production of components including powder metal connecting rods, and more
<i>Decines Manufacturing Facility</i> 51 rue Vaucanson, 9150 Décines, Charpieu, France	Production of components including: isolation pulleys, and rubber dampers.
<i>Brasov Manufacturing Facility</i> Hermann Oberth Nr.23, Hala H8, 507075 Ghimbav, Brasov-Romania, +40 371 479 039	Metal Forming business unit. Core competencies include precision machining, and products include transmission hubs, nuts, threaded ring, top mounts for suspension units, clutch system rings, sleeves, motorcycle protectors and oil pump shafts.
<i>Glasgow Manufacturing Facility</i> 1187 South Street, Scotstoun, Glasgow, Scotland, UK G14 0DT	Manufactures axles, driveline systems, chassis systems and chassis components for commercial vehicles—from 1.8-18 tons Gross Vehicle Weight, and for 6x4 tandem applications, up to 26 tons.

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<i>Halifax Manufacturing Facility</i> International (UK) Ltd. 131 Parkinson Lane, Halifax, West Yorkshire, HX1 3 RD United Kingdom	Production of components including viscous dampers, and rubber dampers.
<i>Zyvysov Manfuacturing Facility</i> Na láně 643, Zbýšov u Brna, Czech Republic 664-11	Production of metal forming components, including wheel hubs, steering components, brake pistons and more.
<i>Ivancice Manufacturing Facility</i> Metaldyne Oslavany, spol. s r. o.Za Mostem 303/8 Ivančice 664 91	Metal Forming Business Unit.

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