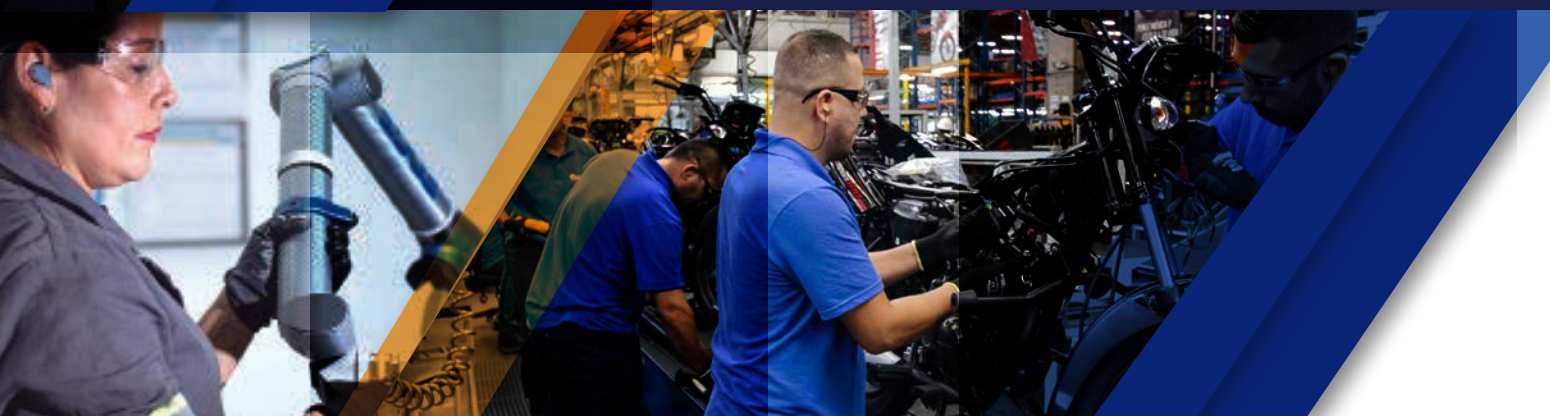




Portfolio of the

COLOMBIAN AUTOMOTIVE INDUSTRY

2021



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A sector with capacities for progress

For Colombians, the mention of the vehicle and auto parts industry evokes aspects of their mobility identity, memories of achievements and family encounters, and the contributions that this sector has made to the country, such as the formalization of a complex value chain, the generation of qualified employment, technological leadership and compliance with demanding quality levels, among others.

Today, this technology and knowledge-intensive manufacturing sector continues to be at the forefront in optimizing standardized processes and meeting the requirements of sophisticated and high-performance products.

This industrial profile provides an attractive diversity of supply sources to enrich global value chains or even guarantee the success of investment projects in Colombia.

These opportunities are boosted due to the industrial interest in the diversification of markets, products, and its continuous effort to strengthen its business model, meet quality standards, and manifest enthusiasm towards innovation, development, and adoption of technologies.

This industry, in turn, brings in its DNA the ability to use its knowledge and technology to manufacture different products; so, the individual features presented in this portfolio describe more than their current situation: they support service potential for multiple global markets and customers.

This is how the project for the sustainable and inclusive development of the Colombian automotive industry, PRO-Motion, of UNIDO, KOICA and the Ministry of Commerce, Industry and Tourism, through Colombia Productiva, delivers as one of the most relevant results of its intervention: the second version of the collection of industrial characteristics of most of the companies in the sector to contribute to their internationalization, to attract foreign investment and, therefore, to their competitiveness.

Jaime Alberto Monguí
Team Leader of PRO-Motion

Introduction

Colombia Productiva is the entity of the Colombian National Government in charge of promoting strategies to improve the productivity of companies and promote their supply of goods and services with the added value and quality demanded by the markets. We work on five axes to close the gaps that restrain productivity growth and delay the sophistication of the productive apparatus, following the provisions of the National Productive Development Policy: Productivity, Knowledge Transfer, Quality, Chains, and Sophistication. Likewise, Colombia Productiva works in a specialized way with 18 strategic sectors, including the automotive sector.

This sector has a roadmap outlined in the Sector's Business Plan, which we designed in Colombia Productiva in conjunction with the private sector. We set ourselves a goal of consolidating Colombia as the region's leading exporter of auto parts and vehicles in specialized segments with high added value. This Plan establishes the strategic actions oriented towards the development of suppliers, the promotion of the internal market, the strengthening of human talent, the research promotion, development and innovation activities, and the exports promotion and the attraction of strategic investments.

In line with the Business Plan, Colombia Productiva has a specialized service offer around the five axes to accompany enterprises of the automotive industry in strengthening, consolidating, and preparing them to reach international markets.

One of our main services is "Compra Lo Nuestro", the largest social network and business directory in Latin America. The platform seeks to promote business relationships allowing Colombian companies to show their products and services, satisfying the commercial needs of national and international companies according to their requirements. Likewise, it provides free tools to accelerate the digital transformation of businesses and improve their relationship with consumers. Currently, Compra Lo Nuestro integrates 53 suppliers of parts and components of the automotive industry.

"Fábricas de Productividad" is a program that seeks to increase enterprise's capacities through technical assistance to improve production processes, optimize energy consumption, meet quality standards, promote innovation and improve human talent management, among other aspects. In 2021, it became the benchmark productivity technical assistance program in Latin America due to its coverage and impact.

The program has reached 41 companies for this sector and has focused mainly on improving operational productivity, labor productivity, logistics, and commercial management indicators.

In 2021, Colombia Productiva continues supporting the sector through the program "Alianzas para la Reactivación, Proveedores más Competitivos" which provides technical assistance to 60 SMEs in the improvement of productivity, product quality, conditions of delivery, compliance with specific customer-specific requirements, and access to internal or external markets.

Additionally, the sector companies find in Colombia Productiva specialized programs such as "Calidad para Crecer, SENA Innova, Productividad para Empresas and Clusters Más Pro" to achieve higher quality and more added value in their products.

The Portfolio of the Colombian Automotive Industry 2021, developed within the framework of the PRO-Motion program, in alliance with KOICA, UNIDO, Ministry of Commerce, Industry and Tourism, Colombia Productiva, and ProColombia, constitutes an additional tool of great strategic value to promote the productive capacities of 139 national companies linked to the assembly and parts and components manufacturing industry. For government entities and the private sector, this portfolio represents an instrument that will expand the participation of companies in the domestic market sector and serve to promote exports and attract new investments.

Camilo Fernández de Soto
President of Colombia Productiva

Symbols

-  Heat transfer
-  Graphic
-  Non-ferrous materials
-  Metal mechanical industry
-  Paints and coatings
-  Plastics
-  Chemical industry
-  Accessories
-  Electric power industry
-  Composites
-  Electronics
-  Elastomers
-  Subassembly
-  Siderurgical
-  Textile
-  Glass
-  Finished vehicles and others




Index






























































































ASSEMBLY PLANTS






































Auteco SAS	18 - 19
Corbeta S.A. - AKT Motos	20 - 21
Fanalca S.A.	22 - 23
GM Colmotores	24 - 25
Grupo UMA S.A.S.	26 - 27
Hero - HMCL COLOMBIA S.A.S.	28 - 29
Hino Motors Manufacturing Colombia S.A.S.	30 - 31
Incolmotos Yamaha S.A.	32 - 33
RENAULT SOFASA S.A.S	34 - 35

































MANUFACTURERS

 Alumaticolor S.A.S.	38 - 39
 American Rubber de Colombia S.A.S.	40 - 41
 APSA Group	42 - 43
   Arnese y Gomas S.A.	44 - 45
 ASAM LTDA. C.I.	46 - 47
   Autobuses AGA de Colombia S.A.S.	48 - 49
   AutoBuses I.C.C.	50 - 51
 Baterias Willard S.A.	52 - 53
 BIG S.A.S.	54 - 55
 Bogotana de Mangueras S.A.S.	56 - 57
 Bonem S.A.	58 - 59
 Bundy Colombia S.A.S	60 - 61
   Busscar de Colombia S.A.S.	62 - 63

 Cadeli - Cauchos y derivados S.A.S.	64 - 65
   Caelca S.A.S. - Cauchos el Cacique Colombia SAS	66 - 67
  Carrocerías Panamericana S.A.S.	68 - 69
 CENTELSA	70 - 71
 COFRE S.A - Colombiana de Frenos	72 - 73
  Comet Zona Franca S.A.S.	74 - 75
  Concauchos y Plásticos	76 - 77
 Cuperz S.A.	78 - 79
  DANA - Transejes Transmisiones Homocinéticas de Colombia S.A.	80 - 81
   DEMPARCO SAS	82 - 83
  DST	84 - 85
    DYNACAD S.A.S.	86 - 87
 Ensamblés ZF S.A.S.	88 - 89
 Esenttia S.A.	90 - 91
    Espumlatex S.A.	92 - 93
  ESPUMOL S.A.	94 - 95
 EXCO COLOMBIANA S.A.S.	96 - 97
 Fanalca - Fábrica Nacional de Autopartes S.A.	98 - 99
 FANAUTO S.A.S.	100 - 101
   FASECOL S.A.S	102 - 103
  FG Sistemotos	104 - 105
  Filtros Partmo S.A.S.	106 - 107
 Formapress S.A.	108 - 109
 Fundiciones Universo	110 - 111
 Gabriel de Colombia S.A.	112 - 113

 	GRANSORI S.A.S.	114 - 115		Integrando S.A.S.	164 - 165
   	Grupo Conelec / Sistelen	116 - 117	 	IPROCOS S.A.	166 - 167
 	Grupo DL Plus S.A.S.	118 - 119	  	King Aluminum S.A.S.	168 - 169
 	Grupo RHC	120 - 121		LAGZ Guías y Repuestos S.A.S	170 - 171
   	Guayas Becerra y Gracia S EN C	122 - 123		Madeal S.A. - Manufacturas de Aluminio S.A.	172 - 173
	HGO Color - Multicoches S.A.	124 - 125		MANOFAKTO	174 - 175
	HJ Londoño y Cia S.A.S.	126 - 127	 	MAR 10 S.A.S.	176 - 177
	IMAL S.A. - Industrias Metálicas Asociadas S.A.	128 - 129		Marcazeta S.A.S.	178 - 179
	INALTRA - Industrias Nacional de Troqueles Ltda.	130 - 131		Matromol S.A.S.	180 - 181
	Incolbest S.A.	132 - 133	 	Mazdel	182 - 183
	Indummelbra S.A.S.	134 - 135		Mecanica Sistematizada S.A.S.	184 - 185
 	INDUSTRIAS CADI S.A.S.	136 - 137	   	MET GROUP S.A.S.	186 - 187
  	Industrias FAACA Colombia S.A.S.	138 - 139		Metal Servicios S.A.S.	188 - 189
 	Industrias Goby S.A.S.	140 - 141	 	METALEX S.A.S	190 - 191
	Industrias Hernol S.A.	142 - 143		METALMIND S.A.S	192 - 193
	Industrias Japan S.A.	144 - 145		Mind S.A.S.	194 - 195
	Industrias JB S.A.S.	146 - 147	  	Moldes y Mecanizados S.A.S.	196 - 197
	Industrias Lavco S.A.S.	148 - 149	 	Motopartes de Colombia S.A.S.	198 - 199
	Industrias Menbel Ltda.	150 - 151	 	Mowin Technologies S.A.S	200 - 201
	Industrias Metálicas JB S.A.S.	152 - 153	  	Multipartes de Colombia S.A.S.	202 - 203
 	Industrias Montes	154 - 155	   	MVM Ltda.	204 - 205
	Industrias Phatra S.A.S.	156 - 157	  	NAVCAR S.A.S.	206 - 207
    	Inema S.A.	158 - 159	 	Niko Racing Ltda.	208 - 209
  	INORCA - Industrias Nortecaucanas S.A.S.	160 - 161	 	NINOX ZFS S.A.S.	210 - 211
	INTACA S.A.S	162 - 163	 	Non Plus Ultra S.A.	212 - 213

  	NORMARH S.A.S.	214 - 215
	NP Repuestos Genuine Parts S.A.S.	216 - 217
	OPTIMA BALLISTIC GLASS COLOMBIA S.A.	218 - 219
 	OSAKA S.A.S.	220 - 221
  	PINTUPARTES - Industria de pintura y partes metalmecánica S.A.	222 - 223
	PLACA S.A. - Plásticos y Cauchos S.A.	224 - 225
	PLASTICOS TRUHER S.A.	226 - 227
	POLIKEM S.A.S.	228 - 229
  	Pramec S.A.S.	230 - 231
	Propulsora S.A.	232 - 233
	Proquimsa S.A.S	234 - 235
 	PSTC S.A.- Productos y Sellantes Técnicos de Colombia S.A.	236 - 237
	Recubrimientos Industriales S.A.S.	238 - 239
	Resortes Hércules S.A.	240 - 241
	Riduco S.A.	242 - 243
 	Rinder Riduco S.A.S.	244 - 245
 	Rodríguez López Auto S.A.S.	246 - 247
 	Ropim S.A.S	248 - 249
 	Sauto Andina S.A.S.	250 - 251
	Servintec S.A.S.	252 - 253
     	SI3 - Sistemas de Innovación en Ingeniería e Integración S.A.S.	254 - 255
 	Sicolsa - Siderúrgica Colombiana S.A.	256 - 257
  	SIMONIZ S.A.	258 - 259
  	Solocauchos S.A.S.	260 - 261
 	SOLOMOFLEX S.A.S.	262 - 263

      	SumiParts S.A.S.	264 - 265
  	SUPERPOLO S.A.S.	266 - 267
	Taller Industrial Serviadero S.A.S.	268 - 269
	TGS - Transport Global Suppliers S.A.S.	270 - 271
	Thermoform S.A.	272 - 273
	TNK - Terminales Automotrices S.A.	274 - 275
	Tornillos y Grapas Industriales TGI S.A.S.	276 - 277
 	Tractec S.A.S.	278 - 279
	Tratamientos Ferrotérmicos S.A.S	280 - 281
 	Trimco S.A.	282 - 283
 	Tromec S.A.S. - Troquelados Metálicos Técnicos S.A.S.	284 - 285
   	UMO S.A.	286 - 287
	Unión Plástica S.A.S.	288 - 289
	VALVER Colombia S.A.S.	290 - 291
	Vitro Colombia S.A.S.	292 - 293
	Yazaki Ciemel S.A.	294 - 295
 	Yukkazo - Grupo Race Dayca Colombia S.A.S.	296 - 297

Disclaimer

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Neither UNIDO, KOICA, the Ministry of Commerce, Industry and Tourism, Colombia Productiva nor ProColombia are responsible for the use or interpretation of the information included in this document.

Abbreviations

A	Amperios	FAST	Functional Analysis Screening Tool	MHz	Megahertz	SMAW	Shielded Metal Arc Welding
"	Inch	FEA	Finite Element Analysis	MIG	Metal Inert Gas	SMD	Surface-Mount Device
A	Amperes	FEM	Finite Element Method	ml	Milliliter	SMT	Surface-Mount Technology
ABS	Anti-lock Braking System	ft	Foot	mm	Millimeter	T	Tonne
ANPQP	Alliance New Product Quality Procedure	g	Gram	N	Newton	TFF	Thermoplastic Flexible Fixture wire
APQP	Advanced Product Quality Planning	CNG	Compressed Natural Gas	NIT	From Spanish: Tax identification number	TIER 1	OEM supplier
AS	Aviation Space & Defense Standard	HDPE	High Density Polyethylene	NTC	From Spanish: Colombian technical standard	TIER 2	Supplier of TIER 1 companies
ASES	Alliance Supplier Evaluation Standard	h	Hour	°	Degrees	TIER 3	Supplier of TIER 2 companies
ATV	All-Terrain Vehicles	hp	Horsepower	OEA	From Spanish, Authorized Economic Operator	TIG	Tungsten Inert Gas
AWS	American Welding Society	R+D	Research and Development	OEM	Original Equipment Manufacturer	UL	Underwriters Laboratories
BASC	Business Anti-Smuggling Coalition	R+D+I	Research, Development and Innovation	OHSAS	Occupational Health and Safety Assessment Series	UNECE	The United Nations Economic Commission for Europe
BIQS	Built in Quality Supply	IATF	International Automotive Task Force	PET	Polyethylene Terephthalate	µm	A unit of length equal to one millionth of a meter
BRT	Bus Rapid Transit	ISBM	Injection Stretch Blow Molding	POP	Point of Purchase	W	Watts
CAB	Controlled Atmosphere Brazing	ISO	International Standardization Organization	PP	Polypropylene	ZA	Zinc-aluminium alloy
CAD	Computer Aided Design	JIS	Japanese Industrial Standards	PPAP	Production Part Approval Process	ZAMAC	Zinc, Aluminum, Magnesium and Copper
CAE	Computer Aided Engineering	JIT	Just In Time	psi	Pounds-force per square inch		
CAM	Computer Aided Manufacturing	kg	Kilogram	PVC	Polyvinyl chloride		
CAx	Computer Aided technologies	kHz	Kilohertz	RETIE	Colombian technical regulation for electrical installations		
CBU	Complete Built Up	km	Kilometer	RGB	Red, green, blue		
CKD	Complete Knocked Down	kN	Kilonewtons	ROHS	Restriction of Hazardous Substances		
cm	Centimeter	kVA	Kilovolt-Ampere	rpm	Revolutions per minute		
CMM	Coordinate-Measuring Machine	kW	Kilowatt	SAE	Society of Automotive Engineers		
CNC	Computer Numerical Control	L	Liter	SKU	Stock-Keeping Unit		
COS	Cast-On-Strap	m	Meter				



| Assembly plants

DISPOSITIVO EN ESPERA
POR IMPLEMENTACION
ELIMINACION DE RACKS
RESPONSABLES
HELDER PRADA
MIGUEL RODRIGUEZ

Auteco SAS



- Carrera 43 No. 44 – 60 Itagui and Variante de Mamonal Km 6 Cartagena
- Cartagena, Bolívar
- www.auteco.com.co
- Start of operations: 1941

Leading motorcycle assembler in Colombia founded in Medellín in 1941, and since then, it has contributed with emblematic models that have made progress. Their support and strength are based on consumer knowledge and on a portfolio of brands that have been marketed for nearly 80 years.

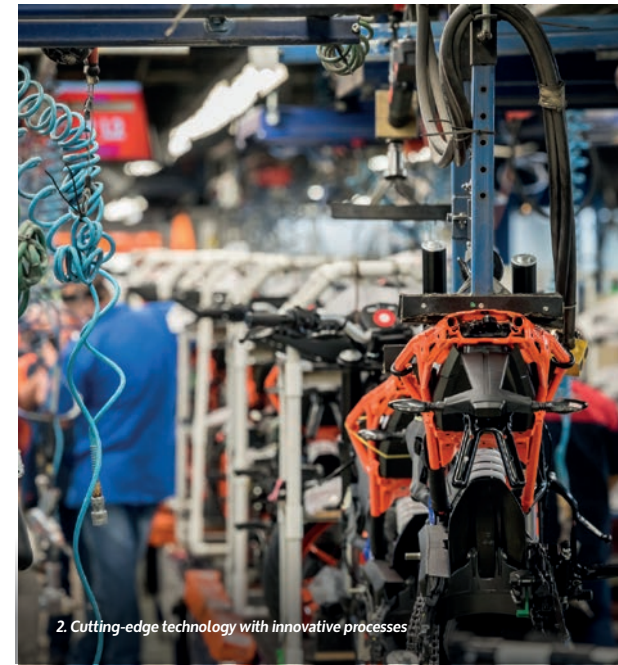
In 2019 they had a corporate spin-off, which involved the birth of the companies Auteco Mobility, Soltrech and Synergix. As of that date, Auteco SAS has assembled and represented KTM from Austria (since 2012), Husqvarna from Sweden (since 2018) and TVS from India (since 2020).

Employees	Annual production capacity
560	120,000 units
Type of vehicles	Number of local suppliers
• Motorcycles • Three-Wheelers	39
Production 2019	Production 2020
145,151 units	99,510 units
Models currently produced	

Motorcycles TVS: Sport ELS · Sport KLS · Apache 160 2V · Apache 160 4V · Apache 200 4V · Apache 180 2V · Stryker 125 · NATORQ RACING · NATORQ XC · NEO KTM: 200 Duke · 200 Duke NG · 250 adventure · 390 adventure · 390 DUKE NG · RC 200 · 250 adventure Husqvarna: 401 svartpilen y 201 svartpilen · Three-Wheelers: TVS KING



1. At Auteco SAS we build machines to dream



2. Cutting-edge technology with innovative processes



3. We work to provide a product that exceeds expectations



4. Portfolio of leading brands worldwide to ride easy and with the support of Auteco SAS

Corbeta S.A. - AKT Motos



- Carrera 49 No. 30 Sur 66
- Envigado, Antioquia
- www.aktmotos.com
- Start of operations: 2004

Assembler and marketer of motorcycles and motorcycle parts that is characterized by being a Colombian brand that offers very good quality products, with an excellent product-price ratio. It has a strong commitment to quality, evidenced by its certifications on production processes. The motorcycles are subjected to rigorous and behavioral tests in the Colombian territory before they go on the market. The company is equipped with two advanced facilities for automatic assembly and test tracking, as well as the most specialized tools and machinery for motorcycle assembly.

Employees	Annual production capacity
950	144,000 units
Type of vehicles	Number of local suppliers
· Motorcycles · Motorcycles Cars · Electric Motorcycles · Electric Bicycles	34
Production 2018	Sales in the local market 2018
104,545 units	106,063 units
Production 2019	Sales in the local market 2019
110,091 units	107,217 units
Production 2020	Sales in the local market 2020
84,612 units	81,213 units

Models currently produced
 NKD 125 · CR4 125 - 162 · Special 100 – 110X · Flex 125 · TTR 125 · TTR 200 · TTDS 200 · TT250 · Dynamic PRO · Dynamic 125 · Jet 125 · Karguero 3W 200



1. Technified assembly line



2. Inspection facilities last generation for 100% of production



3. The production also includes motorcycles of 3 wheels, which add to the country development in terms of passengers and cargo transportation



4. The NKD, iconic model of the brand. Pictured here on its "Classic" special edition, which is possible due to developments made with Colombian suppliers



Fanalca S.A.



- Calle 13 # 31 A - 80
- Yumbo, Valle del Cauca

- www.honda.com.co
- Start of operations: 1982

Fanalca S.A. is a Colombian company with various industrial activities. Among them are the assembly, distribution and marketing of Honda motorcycles which the company has been engaged in since 1982. Fanalca has a production plant located in the municipality of Yumbo, Valle del Cauca, where it performs the activities of manufacturing of metal mechanical components for motorcycles, welding, painting and assembly of final products. From there it also coordinates all the distribution and sales activities of its products.

Number of employees	Annual production capacity
480	115,000 units
Type of vehicles	Number of local suppliers
Motorcycles	29
Production 2018	Sales in the local market 2018
100,000 units	99,000 units
Production 2019	Sales in the local market 2019
100,000 units	103,000 units
Production 2020	Sales in the local market 2020
105,000 units	107,000 units
Models currently produced	
Motorcycles: · CB110 · XR150 · DREAM NEO · DIO · NAVI · C100 WAVE · CB160 · CB190 · CB125F	
Certifications	
ISO 9001: 2015	



1. Production floor



2. Production floor



3. Production floor



4. Production line

GM Colmotores



- Av. Boyacá Calle 56A Sur # 33 -53
- Bogotá, Cundinamarca
- www.chevrolet.com.co
- Start of operations: 1956

GM COLMOTORES is a vehicle manufacturing company established in 1956, being a subsidiary of the GM Company all its operations are defined and controlled under the same global manufacturing system (GMS - Global Manufacturing System) this system is based on 5 principles:

1. People Involvement
2. Standardization
3. Build In Quality
4. Short Lead Times
5. Continuous Improvement

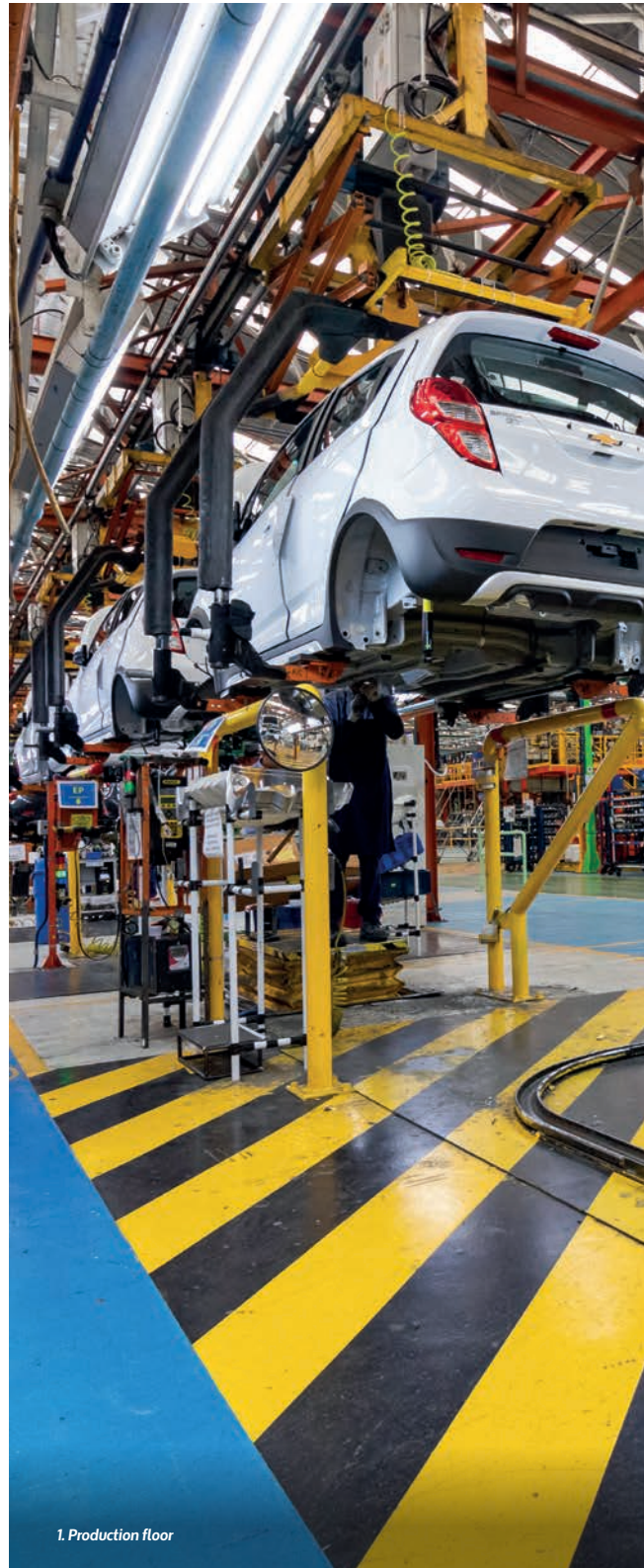
Employees	Annual production capacity
730	120,000 units
Type of vehicles	Number of local suppliers
· Automobiles · Commercial trucks	47
Countries where it has exported	Exports in 2018
• Ecuador • Chile • Peru • Venezuela • Bolivia	12,742 units
Production 2018	Sales in the local market 2018
38,500 units	49,866 units
Production 2019	Sales in the local market 2019
38,279 units	46,521 units
Production 2020	Sales in the local market 2020
16,164 units	33,790 units

Models currently produced

Automobiles: · Spark GT · Chevrolet Beat
Commercials: · NHR · NPR · NQR · NKR
Heavy trucks: · FRR · FVR · FVZ · FTR

Certifications

· ISO 9001: 2015 · ISO 14001: 2015 · Landfill Free · Wildlife Habitat Council · PREAD · BIQIV · IDEAM gas emission · Quality and product certificate: vehicle chassis for ground and public transport IDEAM gas emission · Quality and product certificate: vehicle chassis for ground and public transport



1. Production floor



2. Production floor



3. Production floor



4. Production floor



Grupo UMA S.A.S.



- Km. 3 Armenia – La Tebaida.
- Bodega 5
- La Tebaida, Quindío
- www.grupouma.com
- Start of operations: 2020

Grupo UMA was born from the powerful merger between a successful group of leading entrepreneurs in different market sectors in the Caribbean and Central America, encompassing a solid and robust trajectory of more than 50 years in the business world. Grupo UMA, with corporate headquarters in Guatemala City, undertakes this new adventure as the exclusive distributor of various world-class brands, setting the trend and difference in the conquest of new and strategic markets in each of the countries where it has a presence.

It arrived in Colombia in 2020 with the Máxima Cargo and Torito line of motorcycle cars, and in December it began to enter the motorcycle market represented by Bajaj and the Boxer, Discover, Pulsar and Dominar brands.

Employees	Annual production capacity
1,200	180,000 units
Type of vehicles	Number of local suppliers
2 and 3 wheel vehicles	24
Production 2020	Sales in the local market 2020
221 units	0 units

Models currently produced
 Boxer S · Boxer CT 100 KS · Boxer CT 100 ES · Boxer CT 100 Titanium · Boxer CT 125 · Discover 125 · Pulsar NS 125 · Pulsar NS 160 Fi · Pulsar 180 Neon Fi · Pulsar NS 200 Fi · Pulsar 200 FI ABz · Dominar 250 · Dominar 400 · Torito · Maxima Cargo



1. Grupo UMA's assembly line for Bajaj motorcycles



2. Pulsar NS 200 after engine assembly



3. Qualified personnel performing quality check on the test bench for the Pulsar NS 200



4. Gas emission test for Pulsar NS 200

HMCL Colombia S.A.S.



- Zona Franca Parque Sur: lote 6, km 24 Cali - Santander de Quilichao
- Villa Rica, Cauca
- www.heromotos.com.co
- Start of operations: 2014

Hero Motocorp Ltd., a company of Indian origin, the largest producer of motorcycles in the world, with a record of more than 100 million units produced throughout its history, arrived in Colombia with its first subsidiary abroad: HMCL Colombia S.A.S.

Hero arrives in Colombia to produce, market and provide technical service to its motorcycles, as well as to export them to the Latin American market. In the same way, it carries out the commercialization of spare parts and accessories for them.

The company has its manufacturing and assembly plant in Villarica, Cauca, in an area of 70,000 m², where it integrates state-of-the-art processes that are unique in the region that allow it to offer its customers the best guarantee on the market: 4 years or 50,000 km and motorcycles with environmental standards higher than those required in the country's regulations. These processes are carried out in a bioclimatic and environmentally friendly plant, aligned with the philosophy of integral responsibility of our parent company.



1. Hero Hunk 160, the most recent launch of the brand, a motorcycle that combines the best of design and specifications, with electronic fuel injection, ABS brakes, led lights and powerful engine

Employees Annual production capacity

287 80,000 units

Countries where it has exported

- Salvador
- Guatemala
- Trinidad and Tobago
- Costa Rica
- Bolivia
- Guyana

Type of vehicles Number of local suppliers

Motorcycles 20

Production 2018 Sales in the local market 2018

30,000 units 27,000 units

Production 2019 Sales in the local market 2019

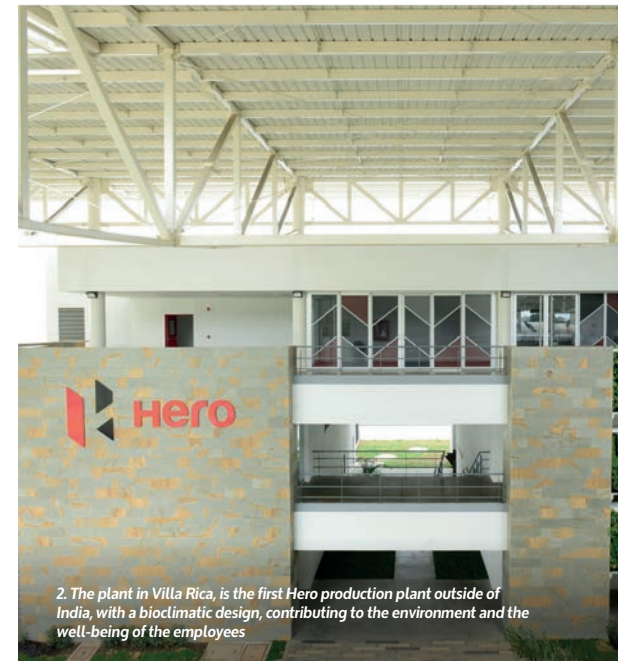
24,519 units 24,710 units

Production 2020 Sales in the local market 2020

23,848 units 21,394 units

Models currently produced

Dash 125 (export only) · Dash 125FI · Eco 100 · Eco Deluxe SP · Eco Deluxe CW · Splendor 110 · Ignitor · Triller Pro · Hunk 160 · Hunk 190 · Xpulse 200 (export only) · Xpulse 200FI · Xpulse 200T



2. The plant in Villa Rica, is the first Hero production plant outside of India, with a bioclimatic design, contributing to the environment and the well-being of the employees



3. Automatic assembly plant and exhaustive process of the quality of the processes and the product, according to International standards, allows us to offer customers a 4-year warranty or 50,000 km



4. All the motorcycles produced by Hero exceed the EURO environmental regulations of Colombia and Latin America, providing users with advanced technology, making them accessible in all segments

Hino Motors Manufacturing Colombia S.A.S.



- Parque Industrial Potrero Chico
- Vereda Vuelta Grande Lote # 6
- Km.1.5 (Vía Siberia-Cota)
- Cota, Cundinamarca
- www.hino.com.co
- Start of operations: 2007

Hino Motors is part of the Toyota Group in the global market for heavy trucks and buses. In 1991, the export of trucks to Colombia began under the distribution of Praco Didacol. In 2007 Hino opened the first industrial facility of this brand in Latin America for the assembly of trucks, under the brand, is the assembly plant of Hino Motors Manufacturing Colombia SAS located in Cota, Cundinamarca, which has an area of 47,500 square meters. In 2008, the assembly of Medium duty <S500> and Light duty <S300 trucks began. For 2009, exports began to Ecuador and in 2011 to Peru. Starting in 2018, the bus chassis assembly begins and a year later exports to Argentina begin.

Currently, an average of 25 vehicles are produced per day, with an annual production estimate for 2019 of 6,000 vehicles, reaching its best historical record this year. Currently, it already has more than 50,000 units produced in the country. This plant has worked with the highest quality standards to provide optimal service and meet customer needs. Hino vehicles are characterized by improving basic functions, enhancing safety and protecting the environment.

Employees	Annual production capacity
308	6,000 units
Countries where it has exported	
• Ecuador • Peru • Argentina	
Type of vehicles	Number of local suppliers
Cargo and passenger vehicles	40
Production 2018	Sales in the local market 2018
6,000 units	2,400 units
Production 2019	Sales in the local market 2019
5,037 units	2,577 units
Production 2020	Sales in the local market 2020
3,852 units	1,934 units
Models currently produced	
Dutro Narrow (4.5 tns- 5.5 tns) · Dutro Wide (5.5 tns · 6.5 tns- 7.5 tns) · GB Bus · FC Bus · FC Camión · GH8J (17 tns) · FM8J (26 tns) · FMIA (Tracto mula 28 tns) · SG Minimula	
Certifications	

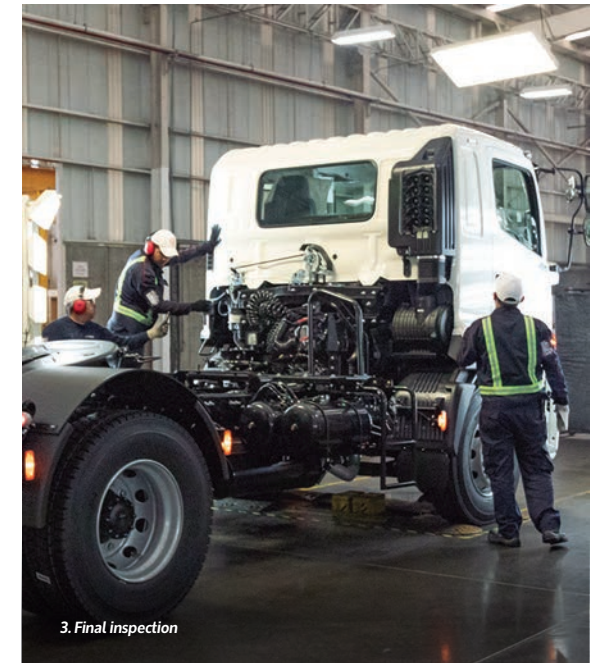
ISO 9001: 2015 · IDEAM emisión de Gases · Certificado de calidad y de producto: chasis para vehículos para el transporte terrestre, público y colectivo · Conformity of Production (CoP)



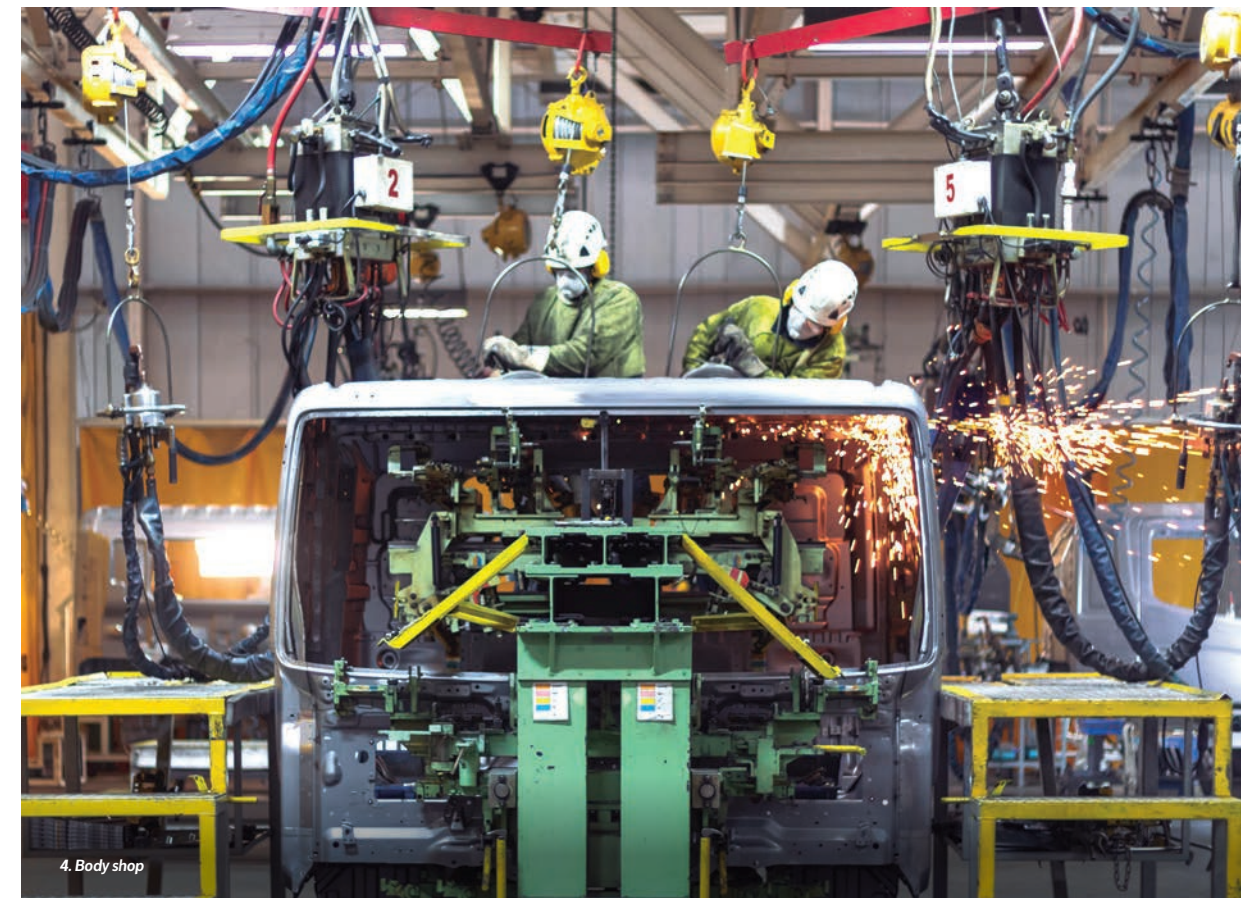
1. Chassis assembly process



2. 500 Series vehicles



3. Final inspection



4. Body shop

Incolmotos Yamaha S.A.



- km 20 Autopista Norte
- Girardota, Antioquia
- www.incolmotos-yamaha.com.co
- Start of operations: 1976

Incolmotos Yamaha is one of the main motorcycle assemblers in Colombia, representing the YAMAHA brand in the country. It is dedicated to the production, sale, distribution and technical service of motorcycles, as well as the commercialization of spare parts and accessories.

The company also distributes the YAMAHA line of musical instruments.

Within its 167,000 m² headquarters, it has a 26,224 m² production plant and a 12,000 m² eco-park, as part of its philosophy of sustainability and care for the environment.

In this sense, its motorcycle portfolio is approved in the following emission standards:

- Euro 3: 51.61 %
- Euro 4: 25.81 %
- Euro 5: 22.58 %

Employees	Annual production capacity
1,258	140,000 units
Type of vehicles	Number of local suppliers
Motorcycles	38
Production 2018	Sales in the local market 2018
103,000 units	103,000 units
Production 2019	Sales in the local market 2019
103,354 units	114,044 units
Production 2020	Sales in the local market 2020
105,300 units	105,571 units

Models currently produced

Nmax · Nmax Connected · FZ150D-6 · FZ1250-A · XTZ125 · XTZ150 · XT-2250A · T115FI · YBR125ZR · SZ15RR · YCZ110, YZF155-A · BWSXFI

Certifications

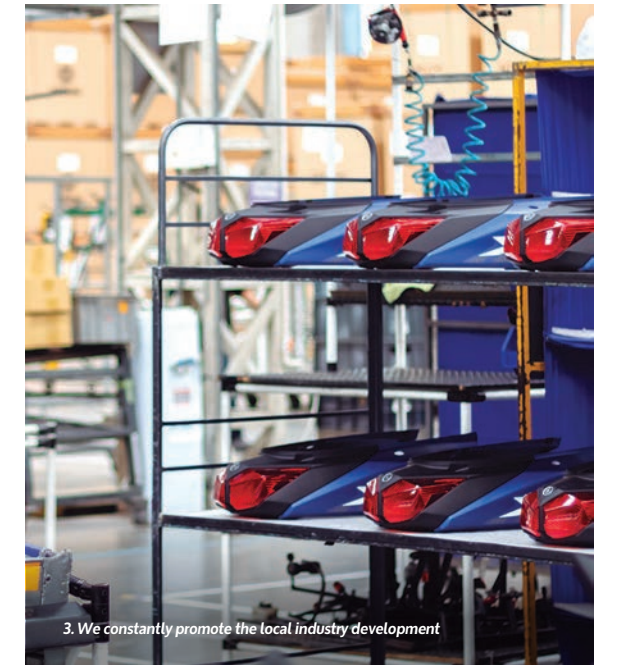
ISO 9001:2015 · ISO 14001:2015 · SELLO DE SOSTENIBILIDAD 2020 otorgado por Corantioquia · certificación LEED ORO 2013.



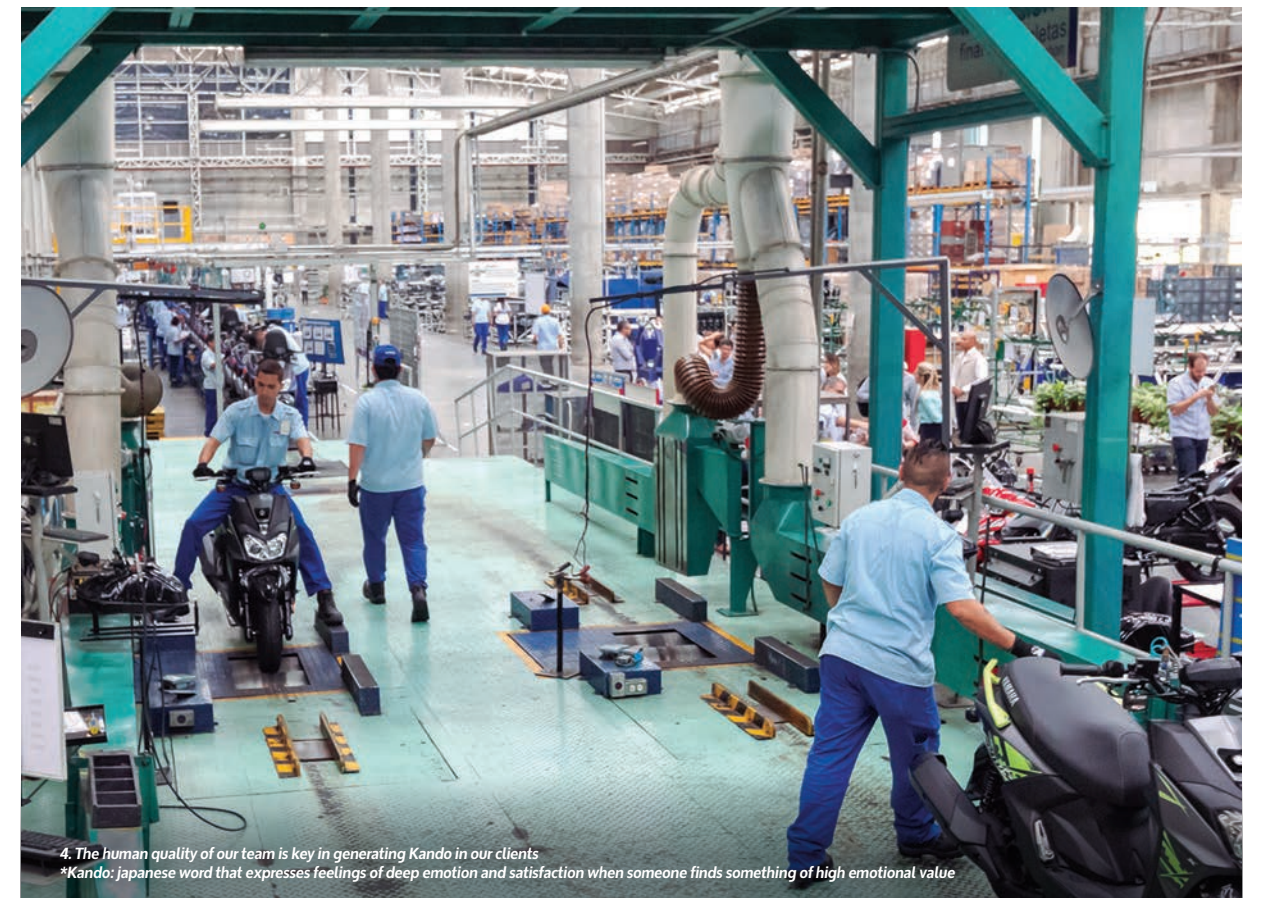
1. Our products surpass the highest quality standards



2. The attention to detail in each process is part of our culture



3. We constantly promote the local industry development



4. The human quality of our team is key in generating Kando in our clients
*Kando: japanese word that expresses feelings of deep emotion and satisfaction when someone finds something of high emotional value

RENAULT SOFASA S.A.S



- Carrera 49 # 39 Sur - 100
- Envigado, Antioquia
- www.renault.com.co
- Start of operations: 1969

RENAULT - Sofasa is one of the car assemblers with the longest history in Colombia. Since its establishment in 1969, it has produced and sold more than 1.5 million vehicles. In order to ensure the company's growth, RENAULT - Sofasa lately focused on the renewal of its product range, the expansion of its export markets and investments for the modernization of its plant and associated production processes. Over the last four years RENAULT - Sofasa invested more than 52 million euros in the introduction of new vehicles, production plant improvements and supplier development. RENAULT - Sofasa is aware that growth depends on the development of people, suppliers and technological innovation. Therefore, it directs its efforts to improve the quality of life of its employees, to give adequate and fair support to its suppliers, and to keep up with the latest international automotive industry trends and technological advances being in 2018 the market leaders.

Employees	Annual production capacity
1,245	80,000 units
Type of vehicles	Number of local suppliers
Passenger vehicles	32
Countries where it has exported	
<ul style="list-style-type: none"> • Mexico • Argentina • Ecuador 	<ul style="list-style-type: none"> • Bolivia • Peru • Chile
Central America	
Production 2018	Sales in the local market 2018
69,253 units	49,589 units
Production 2019	Sales in the local market 2019
65,649 units	38,646 units
Production 2020	Sales in the local market 2020
38,588 units	24,240 units
Models currently produced	
Passenger vehicles: - Renault Sandero - Renault Stepway - Renault Logan - Renault Nueva Duster	
Certifications	
ISO 9001: 2015 - ISO 14001: 2015	



1. Renault Duster assembly line



2. Production plant



3. Production plant



4. Production plant





| Manufacturers



Alumicolor S.A.S.

Company dedicated to provide anodizing coating services for aluminium products. It has a total area of 740 m² where it offers anodizing process in a great variety of colors. It provides accurate assistance and advice to clients.

- www.alumicolor.com.co
- Carrera 50 # 37 - 16
- NIT. 900220944-6
- Bello, Antioquia



1. Production plant, drying and product warehouse

Type of company: · Aftermarket · TIER 2

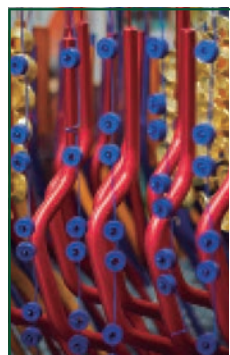
Number of employees: 16

Sales per industry: · Automotive 40% · Biomedical 20%

· Special projects 10% · Other industries 30%



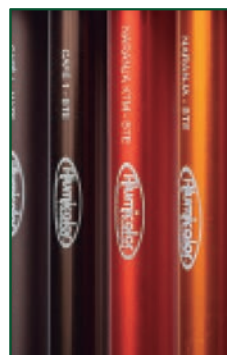
2. Production plant, coloring tanks



3. Drying and product warehouse



4. Production plant, coloring and washing tanks



5. Production plant, product color palette

Main clients



Automotive industry portfolio

- Anodizing services in different colors and in both glossy and matte finishes for multiple automotive industry components, such as
 - Motorcycle accessories
 - Motorcycle wheels
 - Handlebars
 - Acutrax (handlebar clamps)
 - Motorcycle frame sliders
 - Bumpers backsides
 - Car wheels
 - Aluminium luxury accessories
- Custom made services

Portfolio for other industries

- Technical profiles
- Design and fashion
- Industrial machining
- Medical instruments

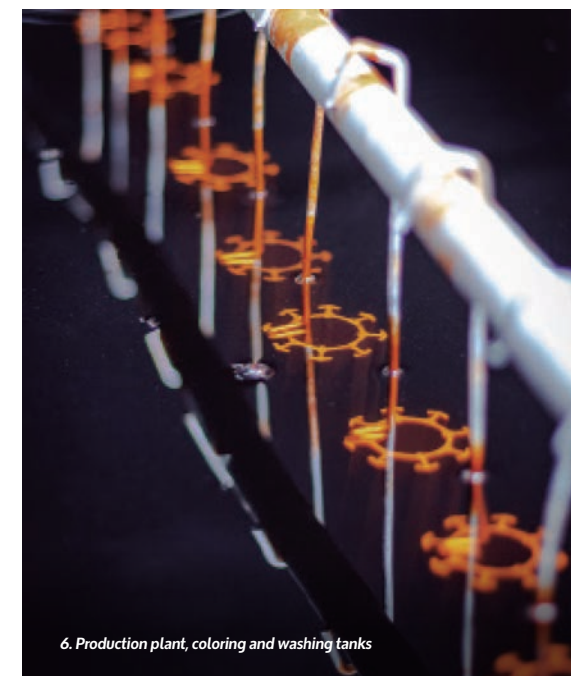
Equipment

- Matte finish line (up to 3 m long)
- Glossy finish line (up to 1.8 m long)
- 4 electrolysis tanks (up to 3 m long)
- 12 pigment tanks (up to 3 m long)
- 6 sealing tanks (up to 3 m long)
- Chiller
- Gas scrubbers
- Water treatment system
- Polish and finish line

★ Key strength

Development capabilities

- Custom development of tone and color



6. Production plant, coloring and washing tanks





American Rubber de Colombia S.A.S.

Company of the rubber industry founded in 1972. It has a 2,700 m² production plant dedicated to the processing of rubber to design and manufacture products for the automotive, water and fluid management industries. Also supplier of compounds for different rubber industries.

- www.americanrubber.com.co
- Carrera 76 # 57R - 75 Sur
- NIT. 860035346-4
- Bogotá, Cundinamarca



1. Rubber injection line



Type of company: Aftermarket Number of employees: 120 International presence: Ecuador · Bolivia · Costa Rica · Nicaragua · Guatemala · Dominican Republic · El Salvador · United States · Honduras · Mexico · Panama Sales per industry: Automotive 40% · Composites 10% · Other industries 50%



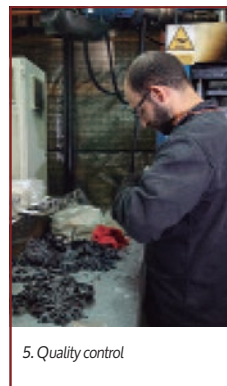
2. Master and composites mixing line



3. Vulcanized rubber injection



4. Quality control



5. Quality control

Main clients



Certifications

- ISO 9001: 2015

Automotive industry portfolio

- Spare parts for hydraulic brake systems
- Oil retaining seals
- Rubber components for oil filtration systems
- Rubber components for automotive cables
- Rubber dampers

Portfolio for other industries

- Water management seals and valves
- Rubber compounds for industrial products
- Special product designs for sealing or damping
- Recovered rubber mats

Equipment

- Rubber injection machines with 300 g to 2,000 g injection capacity and clamping force of up to 20 T
- Machining workshop
 - CNC machining center
 - CNC lathe
 - Automatic lathe with feeder
- Mixing line with mixers and mills
- 70 T die cutter

Development capabilities

- Computer Aided Design (CAD)
 - SOLIDWORKS by Dassault Systèmes
- Computer Aided Manufacturing (CAM)
 - Mastercam by CNC
- Development of technical products under standards specified by the customer

★ Key strength

Laboratory capabilities

- Rubber laboratory
- Physical-chemical change tests
 - Stress
 - Elongation
 - Tear
 - Immersion testing
 - Hardness
 - Compression set
- Vulcanization testing
 - Rheometry



6. Final product packaging



APSAGROUP

A PLASTIC INJECTION COMPANY

APSA Group

Canadian Colombian company founded in 2007 as a Tier 1 supplier to OEMs in the automotive industry. Specialized in the injection of medium and large format plastic parts with a 3,500 m² of production area.

- www.apsagroup.com.co
- km 4 via Cajica - Zipaquira
- NIT. 900170930-8
- Cajica, Cundinamarca

1. Experience in use of state of the art tools

Type of company: · Aftermarket · TIER 1

Number of employees: 30

International presence: · Ecuador · Chile

Sales per industry: · Automotive 90% · Other industries 10%



2. World class engineering and manufacturing



3. Passion for details



4. Quality excellence



5. Highly trained employees

Main clients



Certifications

- ISO 9001: 2015
- IATF 16949: 2016
- BIQS: GM

★ Key strength

Automotive industry portfolio

- Plastic injection service for
 - Bumpers
 - Rockers
 - Door trims
 - Instrument panels
 - Any medium and large format plastic component

Portfolio for other industries

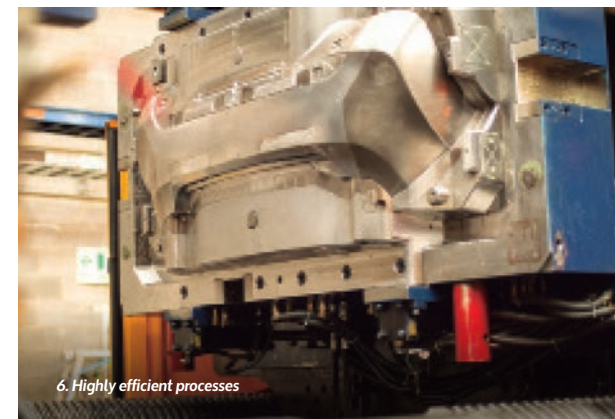
- Anti-spill stowage
- 600 g to 8 kg plastic injection molding

Equipment

- Plastic injection molding machines with 1,000 to 3,000 T clamping pressure and 600 g to 9,000 g capacity

Development capabilities

- Design of injected plastic products
- Computer Aided Design (CAD)
 - Solid Edge by Siemens
- Strategic alliances for the design and development of injection molds of up to 50 T



6. Highly efficient processes



7. Products with the most demanding standards





Company founded in 1975. In its 2,300 m² plant it produces hoses, ignition wiring harnesses, fuel tank gauges, and electrical products. The fluid conduction portfolio includes rubber cooling hoses and calibrated thermoplastic tubes for the automotive sector. In the electrical sector it offers electrical raceways, corrugated tubes, junction boxes, and clamping systems.

- www.ayg.com.co
- Carrera 33 # 10 - 31
- NIT. 860043092-2
- Bogota, Cundinamarca



1. Spark plug wires assembly line

Type of company: · Aftermarket · TIER 1

Number of employees: 170

International presence: · Mexico · Ecuador · Venezuela · Costa Rica

· Peru · Panama

Sales per industry: · Automotive 50% · Electric 22% · Other industries 28%



2. Injection molding plant



3. Assembly line



4. Spark plug wire sets



5. Hose production plant

Certifications

- IATF 16949: 2016
- RETIE
- ISO 9001: 2015

★ Key strength

Automotive industry portfolio

- Spark-plug wires
- Fuel tank gauges
- Sensor units
- Automotive plastic cable shields
- Plastic and rubber components
- Radiator hoses
- Calibrated tubes
- Flexible and rigid profiles
- PVC and silicone tubes

Portfolio for other industries

- Electrical sector
 - Gutters
 - Gutter accessories
 - Universal boxes
 - Junction boxes
 - Plastic spiral hoses
 - Plastic clamps
 - Electric-use plastic shields
 - Shield accessories
 - Gas pipe covering shields
 - Double-sided tapes

Equipment

- Plastic injection machines with 300 g injection capacity and up to 160 T clamping pressure

- Rubber vulcanizing machine with 2,500 cm² working area
- Plastic extrusion machines with up to 65 mm diameter capacity
- Rubber extrusion machines
- Rubber vulcanization autoclave
- Calibrated tube extrusion line
- Rigid profiles extrusion line
- Reinforced straight and curved hoses manufacturing line
- Silicone profiles and hoses manufacturing line
- Plastic and rubber cables manufacturing line
- Electromechanical elements assembly line

Development capabilities

- Molds and punching dies design
- Computer Aided Design (CAD)
 - 3D design

Laboratory capabilities

- Fuel gauge durability test
- Hoses and tubes burst test
- Exhaust support brackets cycling test
- Flammability tests
- Pressure aging vessel and immersion testing
- Rubber and plastic tests
 - Hardness
 - Tension
 - Elongation
 - Density
 - Compression set

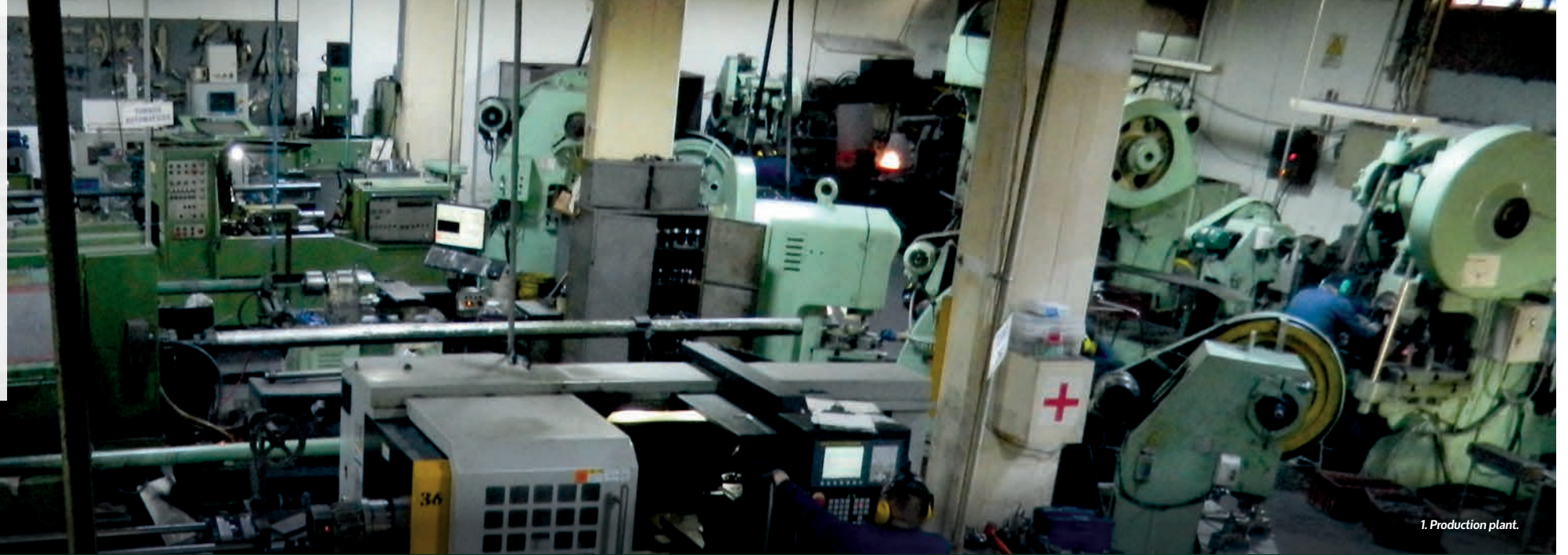




ASAM LTDA. C.I.

Company founded in 1977, leaders in the manufacture of metal-mechanical aftermarket auto parts. The flexibility of its production system allows the development of a wide variety of metal, rubber and plastic parts, adapted to the customer's needs and local conditions of the Latin American market.

- www.asam.com.co
- Calle 11 No. 68D-15
- NIT. 860051728
- Bogota, Cundinamarca



1. Production plant.

Type of company: Aftermarket

Number of employees: 69

International presence: · Chile · Costa Rica · Ecuador · El Salvador

· Guatemala · Honduras · Panama · Peru · Dominican Republic

Sales per industry: Automotive 100%



2. CNC lathe machining



3. Stamping process



4. Welding process



5. Vulcanizing process

Main clients



★ Key strength

Automotive industry portfolio

- Drive shaft supports
- Brake hoses
- Stabilizer rods
- Rocker arms
- Brake adjusters

Equipment

- 100 T capacity presses
- 120 T capacity stamping machines
- CNC lathes
- CNC drilling machines
- Machining centers
- Vulcanizing machines

Development capabilities

- Manufacture of molds for the development of new products



6. Assembly and packaging





Autobuses AGA de Colombia S.A.S.

Company founded in 1977, dedicated to the manufacturing and assembly of buses and coaches, with both semi-supporting and self-supporting bodies. The company is focused on the segment of intercity and commuter passenger transport. It has presence throughout Colombia and in some export markets.

- www.autobusesaga.com
- Calle 2 # 2 - 20 Ciudadela industrial
- NIT. 800022005-3
- Duitama, Boyaca



1. Coaches assembly line

Type of company: Bus body builder

Number of employees: 129

International presence: Central America

Sales per industry: Automotive 100%



2. Integral coaches



3. Coaches finishing line



4. Assembly JIG



5. Coaches interior finishing line

Main clients



Automotive industry portfolio

- Luxury coaches of 12, 13 and 14 m in length
- Integral coaches from 10.5 m to 12 m in length
- Commuter buses (schools, tourism and special transports)

Equipment

- MIG welding equipment
- 5-axis router machine
- Bending machine
- CNC cutting machine
- Manual cutting machine
- Hydraulic press
- Disc cutters

★ Key strength

Development capabilities

- Prototyping process assisted by computational tools
- Computer Aided Design (CAD)
 - Solid Edge by Siemens
 - ZW3D by ZWSOFT
 - Rhinoceros 3D by Roberth McNeel & Associates
- Computer Aided Manufacturing (CAM)
 - SPRUTCAM by SPRUT Technology
- Counts with an innovation and development department, with full-time staff

Laboratory capabilities

- Mechanical platform for stability testing of buses and coaches
- Hydrostatic tank test
- Large passenger vehicle seats test, according to Regulation No. 80 of UNECE



6. Coaches seats





AUTOBUSES I.C.C.
CALIDAD POR UNA PASIÓN

AutoBuses I.C.C.

Company founded in 1997, focused on the repair and reconstruction of coaches. In 2004 they started manufacturing buses, currently their brands are AutoBuses ICC, oriented to the manufacturing of buses, and Vulcano, specialized in cargo vehicles.

- www.autobusesicc.com
- NIT. 900366983

- Carrera 63 # 59 - 204 Bodega 22-23
- Copacabana, Antioquia



1. Intercity bus model Viator EURO 5

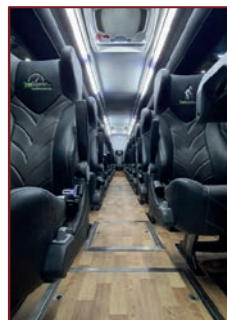
Type of company: Bus body builder

Number of employees: 83

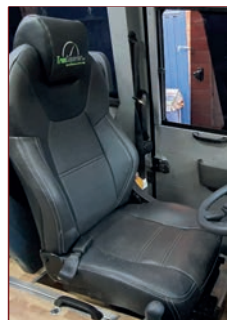
Sales per industry: Automotive 90% · Other industries 10%



2. Portfolio includes buses and cargo vehicles



3. Inside the VIATOR model



4. Dashboard and cockpit for HINO FC9J



5. Access and cockpit for HINO FC9J

Main clients



Certifications

- ISO 9001: 2015

Automotive industry portfolio

- Coaches
- Special units
- Artistic vehicles
- Dry cargo vans
- Isothermal vans
- Cranes
- Cisterns
- Trailers
- Campers

Portfolio for other industries

- Developments for the mining industry
- Rescue vehicles and road infrastructure

Equipment

- Industrial bending machine
- CNC industrial cutting machine
- MIG welders
- Tube bending machine
- Kaeser AS 30T
- Kaeser SM15

★ Key strength

Development capabilities

- Computer aided design
- Prototyping assisted by technological tools
- Manufacture of molds and parts in FRP (fibre-reinforced plastic)

Laboratory capabilities

- Stability and rollover test platform
- Strength verification modules for superstructures



6. Portfolio VULCANO, a line specialized in cargo bodies





Baterias Willard S.A.

Company dedicated to the manufacturing of lead-acid accumulators for motor vehicles. Founded in 1927 as a retailing company, it began its manufacturing activities in 1957. It has customers throughout the Americas and is one of the most experienced manufacturers in the region. Nowadays, it operates a 55,000 m² plant.

- www.bateriaswillard.com
- Carrera 75 # 59 - 45
- NIT. 800022558-4
- Barranquilla, Atlantico



1. Inspection line

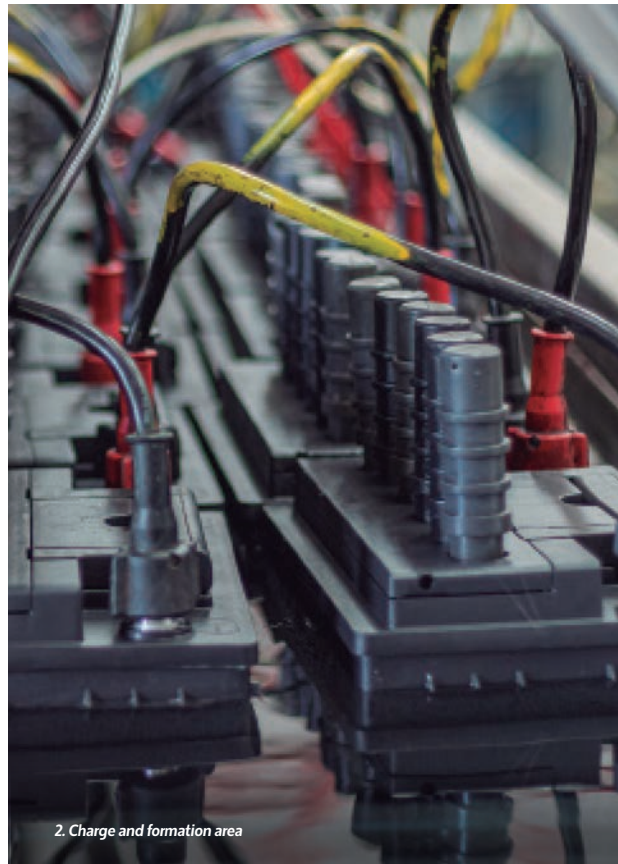
Type of company: · Aftermarket · TIER 1

Number of employees: 400

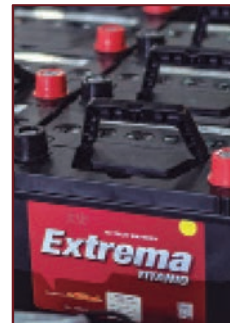
International presence: · United States · Canada · Mexico

· Trinidad and Tobago · Peru · Ecuador

Sales per industry: Automotive 100%



2. Charge and formation area



3. Product



4. Inspection area



5. Leveling area

Main clients



Peláez Hermanos
Baterías y Autopartes



HINO



MASSY ENERGY

Certifications

- ISO 9001: 2015
- IATF 16949: 2016
- ISO 14001: 2015
- BASC

Automotive industry portfolio

- Lead-acid automotive batteries
 - Heavy-duty vehicles
 - Light vehicles

★ Key strength

Equipment

- Properzi rolling mill
- COS Moojin machine
- Teck Cominco expander die-punching press
- DFS charging system

Development capabilities

- Design and internal configuration of lead-acid batteries
- Computer Aided Design (CAD)
 - SOLIDWORKS by Dassault Systèmes

Laboratory capabilities

- Chemical physical laboratory
 - Atomic absorption spectrophotometer
 - Optical emission spectrophotometer
 - Tensile testing machine
- Electric laboratory
 - Bitrode for electrical capacity and life cycle tests
 - Vibration testing equipment



6. Inspection area



BIG

BIG S.A.S.

Manufacturer and supplier of condensers and door warmers for the refrigeration industry; rotors, brake drums, and hub drums for the automotive industry covering light and heavy vehicles as Original Equipment Manufacturer (OEM). Its production plant has 5,000 m² with a production capacity of 500,000 auto parts per year.

- www.bigbrakes.co
- Carrera 42 #29 A- 71
- NIT. 890920168
- Itagüí, Antioquia



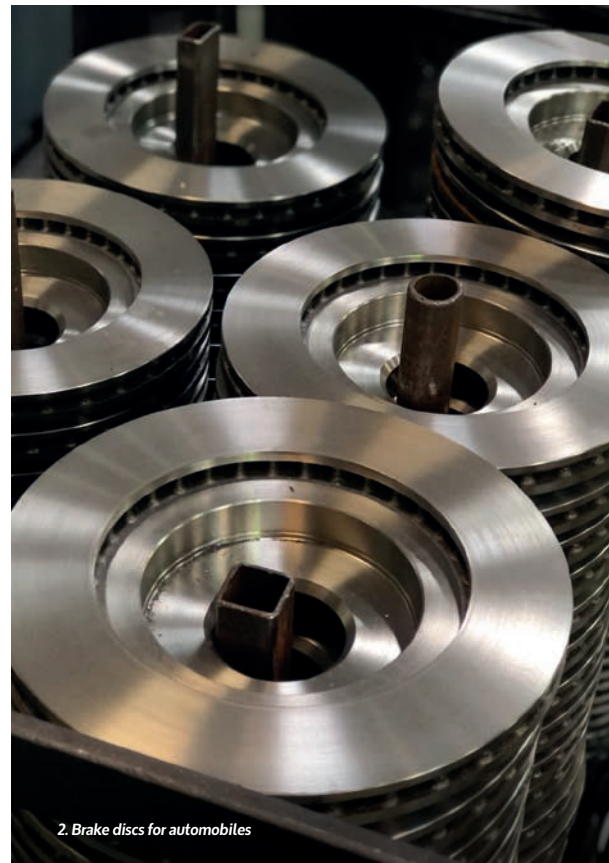
1. Production plant in Medellín, CNC lathes

Type of company: TIER 1

Number of employees: 109

International presence: Canada

Sales per industry: · Automotive 58% · White line 40% · Other industries 2%



2. Brake discs for automobiles



3. Hino truck brake hub



4. Hino truck brake drum



5. Quality manufacturing

Main clients



Certifications

- IATF 16949: 2016
- ISO 9001: 2015

★ Key strength

Automotive industry portfolio

- Brake discs
- Brake drums
- Brake hubs

Portfolio for other industries

- Refrigerator condensers

Equipment

- CNC machines
- Horizontal lathes
- Vertical lathes
- Horizontal machining centers
- Vertical machining centers
- Drilling centers

Development capabilities

- (CAD)
- (CAM)
- 3D Prototyping

Laboratory capabilities

- Longitudinal quantities
- Geometric magnitudes
- Calibration of instruments



6. Maximum safety on the road





Bogotana de Mangueras S.A.S.

Company founded in 1999, dedicated to the manufacturing of rubber hoses for automotive, industrial and agricultural applications in its 950 m² plant. The company is an exclusive distributor of Superpolo and export to Ecuador.

- www.bogotanademangueras.com
- Carrera 33 # 8 - 07
- NIT. 830057238-2
- Bogota, Cundinamarca



1. Rotary hose machine

Type of company: · Aftermarket · TIER 1

Number of employees: 29

International presence: Ecuador

Sales per industry: · Automotive 43% · Agricultural 21% · Services 5% · Other industries 31%



2. Production floor



3. Material preparation



4. Extruder and weavers hose machine



5. Rubber rolling mill

Main clients



Certifications

- ISO 9001: 2015

Automotive industry portfolio

- Natural and synthetic rubber hoses
 - Bends
 - Corrugated
 - Smooth
 - Molded/pre-formed
 - Ventilation/breather
- Silicone hoses

Portfolio for other industries

- Industrial hoses
 - Petroleum
 - Mining
 - Water
 - Dredging
 - Chemical
 - Food
 - Pneumatic
 - Abrasive materials
- Agriculture suction and delivery water pump hoses

- Hose forming spinning mandrels from 6 to 15 m
- Lathe
- Welding
- MIG
- Autogenous
- Drills
- Compressors with up to 500 psi capacity
- Vacuum pumps
- Cooling system for automotive hoses
- Aluminum and iron tooling

Development capabilities

- Development of custom made hoses

Laboratory capabilities

- Hardness tester

★ Key strength

Equipment

- Open mixer mills with capacity of up to 40 kg of rubber
- Extrusion press machines
- Weave machine
- 30 hp boiler
- 22" x 15 m autoclave
- 36" x 6.10 m autoclave



6. Finished product, agricultural hoses



Bonem ^(a)

Bonem S.A.

Company of the metal mechanical sector founded in 1964. It has a total area of 22,230 m² where it manufactures and assembles products for the automotive and agricultural industries. It is a part of the Grupo <a>.

- www.bonem.com.co
- Calle 6 Sur # 50 C- 104
- NIT. 890901866
- Medellín, Antioquia



1. Our products

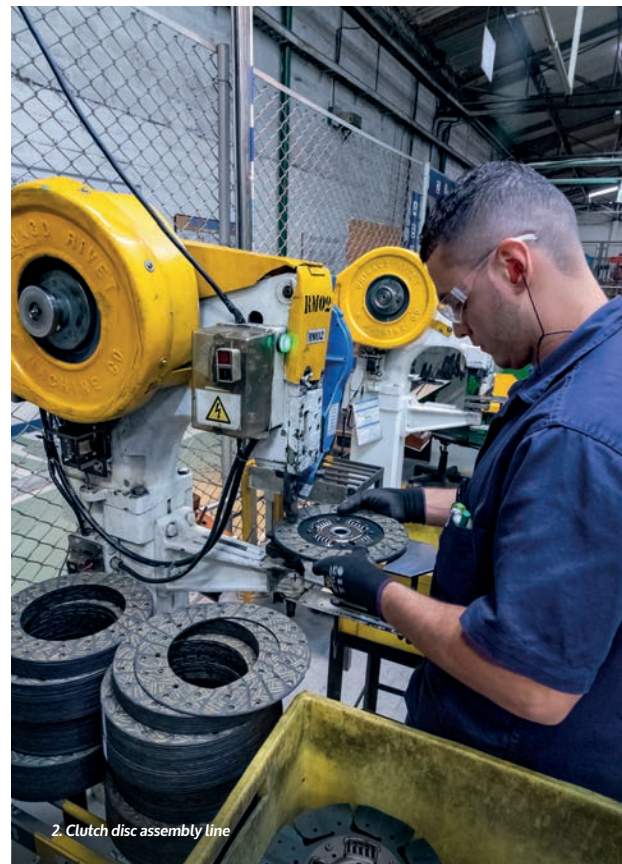
Type of company: · Aftermarket · TIER 1

Number of employees: 162

International presence: · United States · Mexico · Central America

· Ecuador · Peru · Chile · Australia · France

Sales per industry: · Automotive 75% · Agricultural 25%



2. Clutch disc assembly line



3. Hydraulic forming press



4. Production plant. Steel sheet cutting



5. Laboratory. Coordinate Measuring Machine (CMM)

Main clients



Certifications

- ISO 9001: 2015
- ISO 14001: 2015

Automotive industry portfolio

- Clutches
- Clutch actuators
- Water pumps
- Clutch cables
- Distribution kits
- Motorcycles under brackets

Portfolio for other industries

- Discs and bearing assemblies for agricultural sector
- Sowing and harvesting tools
- Sugarcane harvester tools

★ Key strength

Equipment

- Hydraulic presses with a capacity of 30 to 300 T
- Punching presses with a capacity of 35 to 250 T
- Milling machines with a capacity of up to 400 mm in diameter
- Vertical machining center (table of 1,016 x 508 x 636 mm)
- Horizontal machining center
- Wire electrical discharge machine (table of 350 x 250 x 190 mm)
- Grinding machines (1,000 x 400 mm displacement)
- Conventional milling machines (max. displacement of 1,000 mm)
- Continuous heating furnace (max. temperature of 1,000°C)
- Tempering furnace (max. temperature of 500°C)
- CNC shear cutting machine
 - Maximum thickness 12.0 mm
 - Cutting length 2.4 m
- Continuous shot blasting machine
- Spherical shot

- Max working dimensions: 1.0 x 0.4 m
- Spray painting line
 - Conveyor speed: 1.5 m/min
 - Conveyor length: 40 m
- Induction heating equipment
 - Maximum power: 160 kW
 - Frequency: 8 a 40 kHz
- Plasma cutting equipment
 - Maximum thickness 3/4"
 - Cutting dimensions: 1.5 x 3.0 m
- Laser engraver machine

Development capabilities

- Product design and development
- Computer Aided Design (CAD)
 - Solid Edge by Siemens
 - SOLIDWORKS by Dassault Systèmes
 - AutoCAD by Autodesk
 - Rhinoceros 3D by Robert McNeel & Associates
- Computer Aided Manufacturing (CAM)
 - Siemens PLM Software NX

Laboratory capabilities

- Coordinate Measuring Machine (CMM)
- Universal testing machine
- Surface roughness gauges
- Clutch disc hysteresis test equipment
- Full size tester (clutch fatigue and operation testing)
- Centrifugal burst test machine
- Clutch disc torsion durability test equipment
- Cover assembly disengagement test equipment



Company founded in 1964, with a production plant of 3,600 m². Vehicle manufacturers in the automotive industry turn to TI Fluid Systems for the supply of brake lines, rigid or plastic fuel lines, air conditioning lines, hydraulic and refrigeration lines.

The company develops projects and/or manages changes that allow their clients to have competitive products and meet both technical requirements and the needs of high or low production volumes.

- www.tifs.com
- Carrera 13A # 6 - 98
- NIT. 860029488
- Mosquera, Cundinamarca



1. Brake and plastic fuel lines, brake & plastic fuel lines bundles and hydraulics and cooling pipes

Type of company: -TIER 1 Number of employees: 74 International presence: - Ecuador - United States

Sales per industry: Automotive 100%



2. CNC Technologies for pipe bending



3. We meet demanding security features



4. Automotive air conditioning pipes



5. Leaders in fluid handling technology

Main clients



Certifications

- IATF 16949: 2016

★ Key strength

Automotive industry portfolio

- Brake lines
- Fuel lines
- Hydraulic lines
- Cooling lines
- Air Conditioning Lines

Portfolio for other industries

- For the agricultural and construction machinery, utility, and recreational vehicles:
 - Brake lines
 - Fuel lines
 - Hydraulic lines
 - Cooling lines

Equipment

- CNC cutters for tubes
- CNC bending machines
- Tube flaring machines
- Brass brazing welding equipment
- Thermoforming furnaces for plastic pipes
- Connector insertion machines for plastic lines
- Leak testing machines

Development capabilities

- Computer Aided Design (CAD)
 - Solid Edge by Siemens
- FARO Arm
- 3D Printer
- CNC Bending for prototypes
- Pipe routing in the vehicle
- 3D Pipe routing
- Reverse engineering

Laboratory capabilities

- Projector profile
- Metallographic cutting machine
- Digital microscope
- Roughness meter
- Burst pressure test
- Tensiometer
- FARO Arm



6. CNC technology for pipe cutting





Busscar de Colombia S.A.S.

Busscar de Colombia is recognized worldwide for its quality and durability, has experience in the industry since 2002 and has produced more than 10,000 units for the mass and collective transportation systems of Colombia, Mexico and the Andean Region. The company has 99,000 m² where bus bodies for public transport are designed, manufactured and sold.

- www.busscar.com.co
- Km 14 via pereira - cerritos
- NIT. 816006799-3
- Pereira, Risaralda



1. Electric bus for 80 passengers

Type of company: Bus body manufacturer

Number of employees: 1,600

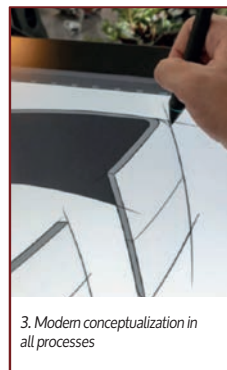
International presence: • Bolivia • Chile • Ecuador • Guyana

• Mexico • Panama • Peru • Dominican Republic • South Africa • Venezuela

Sales per industry: Automotive 100%



2. Modern paint booths



3. Modern conceptualization in all processes



4. Applied CAX design and simulation skills



5. Bi-articulated - Urbanuss Plus 55

Main clients



Certifications

- ISO 9001: 2015
- OEA

★ Key strength

Automotive industry portfolio

- Bus bodies in all modalities (urban, BRT, special, coach) and on all technologies: diesel, gas, hybrid and electric

Equipment

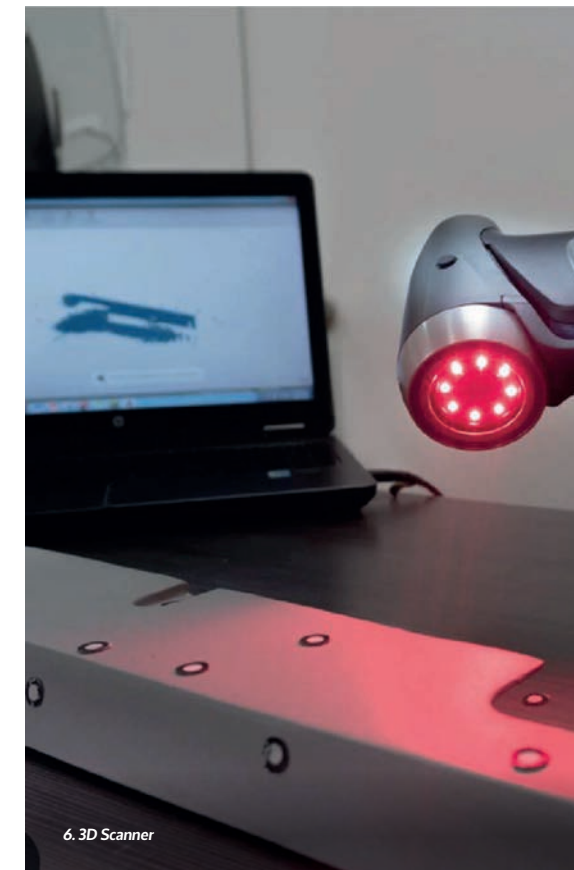
- 5 axis machines
- 3 axis machines
- Handyscan 3D scanner
- 3D printer
- Latest generation paint booths
- CNC machines
- Crane bridge
- Welding equipment

Development capabilities

- Development of engineering and design projects
- Development of custom projects
- Development for projects with clean technologies (gas and electric)
- Development of parts in composite materials

Laboratory capabilities

- Tipping and stability tests



6. 3D Scanner





Cadeli - Cauchos y derivados S.A.S.

Company founded in 2008, dedicated to the manufacturing and marketing of rubber components for the motorcycle and electric power industries. It has a total area of 215 m² where its team, which represents one of the vulnerable groups in Colombia, works in an environmentally friendly way.

- www.cadeli.co
- Carrera 16 Bis # 29 - 163 Bodega 3
- NIT. 900226784-1
- Dosquebradas, Risaralda



1. Rubber extrusion machines

Type of company: TIER 1

Number of employees: 12

International presence: El Salvador

Sales per industry: · Automotive 60%

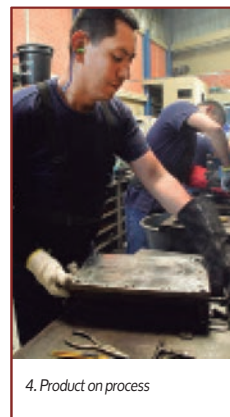
· Electric power industry 40%



2. Rubber mixing mill



3. Product in process



4. Product on process



5. Product on process

Main clients



★ Key strength

Automotive industry portfolio

- Rubber bell-shaped anti vibration mounts
- Motorcycle rubber components
- Footrests
- Crank lever
- Shift lever

Portfolio for other industries

- Silicone components
- Rubber products
 - Gaskets
 - O-rings
 - Bushings
 - Strings
 - Sheets

Equipment

- Rubber mixing mill with a 3.3 x 2.6 m working area
- Rubber extrusion machines with 1.9 x 6.1 m working area
- Autoclave
- Hydraulic presses with a capacity reaching from 1,000 to 2,000 T

Development capabilities

- Manufacturing based on client requirements

Laboratory capabilities

- Aging tests
- Elasticity tests
- Hardness tests



6. Product on process





Caelca S.A.S. - Cauchos el Cacique Colombia SAS

Company founded in 1988 with a total area of 1,920 m². The firm is dedicated to the manufacturing, marketing and development of rubber, plastic and metal mechanical products for the automotive, construction and other industries.

- www.caelca.com.co
- Carrera 54 #45B - 45 Sur barrio Venecia
- NIT. 900226455-3
- Bogota, Cundinamarca

1. Product

Type of company: TIER 1

Number of employees: 40

Sales per industry: · Automotive 40% · Other industries 40% · Construction 20%



2. Productive process



3. Production floor



4. Product



5. Product

Main clients



Certifications

- ISO 9001: 2015

★ Key strength

Automotive industry portfolio

- Rubber, plastic and metal mechanical products

Portfolio for other industries

- Rubber modular flooring
- Neoprene support
- Expansion and compression joints

Equipment

- Rubber injection machines with 375 g injection capacity and clamping force of up to 190 T
- Rubber extrusion machines
- Rubber vulcanizing machines
- CNC machining center

Development capabilities

- Design and manufacture of molds and punching dies
- Design and development of parts for the automotive and industrial sector
- Computer Aided Design (CAD)
 - SOLIDWORKS by Dassault Systèmes



6. Product





Carrocerías Panamericana S.A.S.

Since 1982 the company has been manufacturing bodies for cargo vehicles. It has two customer service centers and a high-tech production factory in machinery and software for the manufacture of safe, profitable and sustainable products.

- www.carroceriaspanamericana.com
- km 4 Autopista Medellín - Bogotá
- NIT. 890930490-5
- Copacabana, Antioquia



1. Service Center (Centro de Servicios Medellín)

Type of company: Bus body manufacturer

Number of employees: 130

Sales per industry: Automotive 100%



2. Robotic welding arm



3. Laser welding



4. Laser cutting machine



5. Refrigerated body truck

Main clients



Certifications

- ISO 9001: 2015

Automotive industry portfolio

- Dry cargo body trucks
- Isothermal body trucks
- Logistics accessories for body trucks
- Tail Lift
- Body maintenance service
- Body repair service

★ Key strength

Equipment

- Bridge cranes
- Board suction crane
- Welding equipment (MIG, TIG, MIG Aluminum, Smaw, LASER)
- CNC cutting machine
- CNC plasma cutting machine
- CNC laser cutting machine
- CNC punching machine
- CNC bending machine
- Aluminum CNC machining center
- CN bending machine
- Vertical up saw cut-off
- CNC pipe cutter machine
- IW series iron worker
- Automatic wood router brush
- Vacuum pressing system
- Squaring machine
- Fiber cutting machine
- Robotic welding arm

- Paint booth
- Cabin for trimming fiber glass

Development capabilities

- Computer Aided Design (CAD)
 - SolidWorks by Dassault Systèmes
 - CNC Mastercam
 - Trutops
 - Boost
- Specialized design for the specific logistics process of each client
 - Logistics accessories
 - Materials suitable for contact with food



6. Refrigerated body truck production line



CENTELSA

Founded in 1955, the company is dedicated to the production of low voltage conductors and enameled wires, used in the fabrication of all types of windings. It has a 60,000 m² production area where it manufactures cables for vehicles, lighting, batteries, LV and MV power instrumentation and control, among others.

- www.centelsa.com
- Calle 10 # 38 - 43 Acopi
- NIT. 890300431-8
- Yumbo, Valle del Cauca

1. Centelsa product in process

Type of company: TIER 2

Number of employees: 620

International presence: · United States · Ecuador · Peru · Bolivia · Chile · Brazil · Argentina

Sales per industry: · Trade 67% · Electric power industry 11% · EPC 9% · Telecommunications 5% · Industrial 8%



2. Centelsa finished packed product



3. Centelsa wire drawing process



4. Centelsa wire bunching process



5. Centelsa finished packed product

Main clients



Certifications

- OHSAS 18001: 2007
- ISO 14001: 2015
- RETIE
- ISO 9001: 2015
- CIDET

★ Key strength

Automotive industry portfolio

- High temperature cables
- Vehicle cables
- Battery cables
- TFF
- Lighting
- Silicone coated cables
- Communication cables

Portfolio for other industries

- Construction cables
- LV and MV power transmission cables
- Control and instrumentation cables
- Telecommunication cables
- Cables for special applications

Equipment

- Wire drawing machines (600 T/month)
- Bunching machines (30,000 km/month)
- Extrusion machine (5,000 km/month)

Development capabilities

- Development of extrusion process for T3 type high temperature vehicle cables (up to 8,000 km/month)

Laboratory capabilities

- Electrical and mechanical tests
 - Elongation
 - Adhesion
 - Contraction
 - Dimensional
 - Electrical



6. Centelsa extrusion process





COFRE S.A - Colombiana de Frenos

Automotive company founded in 1959, dedicated to the design and manufacturing of steel wheels for commercial and passenger vehicles. It has a total area of 20,000 m² with capacity of 1 million wheels per year.

- www.cofre.com.co
- Calle 22b # 126 - 02
- NIT.860004655-2
- Bogota, Cundinamarca



1. Assembly line

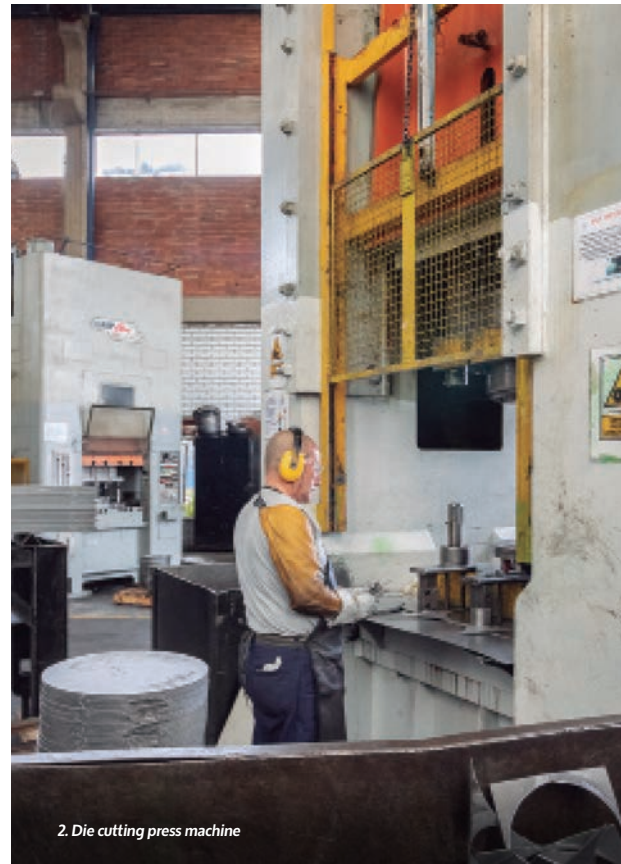
Type of company: · Aftermarket · TIER 1 · TIER 2

Number of employees: 210

International presence: · United States · Ecuador · Peru · Chile

· Brazil · Mexico · France · Belgium

Sales per industry: · Automotive 95% · Agricultural 5%



2. Die cutting press machine



3. Die cutting press machine



4. Steel rim welding machine



5. Bending moment fatigue machine

Main clients



Certifications

- IATF 16949: 2016
- ASES: RENAULT
- ISO 14001: 2015
- BIQS: GM

Automotive industry portfolio

- Passenger vehicles
 - Passenger vehicle wheels from 13" to 18" diameter and 4" to 8" width
- Commercial vehicles (light and heavy trucks)
 - Tubeless from 16" to 22.5" diameter and 5.25" to 11.75" width
 - Tubetype from 15" to 24" diameter and 6.5" to 10" width

Equipment

- Mechanical presses with 30 to 600 T capacity
- Hydraulic presses with 200 to 1,000 T capacity
- Passenger and light truck rim roll line
- Heavy vehicle wheels lamination lines
- Electrophoretic deposition paint line (EDP)

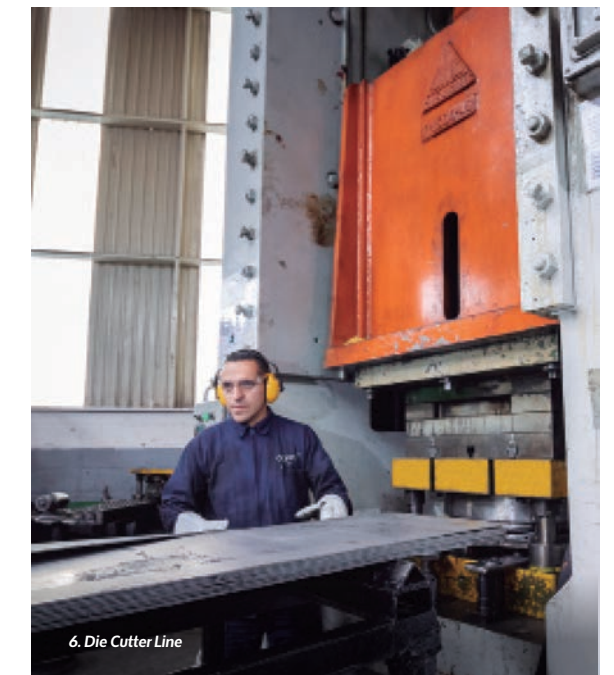
★ Key strength

Development capabilities

- Design and development of tooling for metalmechanical parts (steel wheels) stamping
- Manufacture of aluminum wheels injection molds
- Manufacture of plastic injection molds
- Computer-aided development process
 - AutoCAD by Autodesk LT
 - Creo Elements/Pro Foundation XE by PTC Corporation
 - NX by Siemens
- Flamingo by Robert McNeel & Associates
- Esprit by DP Technology
- ANSYS Workbench FEA
- ANSYS Explicit STR

Laboratory capabilities

- Bending moment fatigue test (TIP certification)
- Radial fatigue test (TIP certification)
- Corrosion resistance tests in salt spray and humidity chamber



6. Die Cutter Line





Comet Zona Franca S.A.S.

Company founded in 1986, with a production area of 4,000 m², where it specializes in refrigeration systems for diverse applications: automotive, agricultural industry, oil industry, mining, construction and stationary engines, among others.

- www.comet.com.co
- Carrera 106 # 15 - 25
Manzana 5 Interior 16 B
Bogota, Cundinamarca



1. Production floor

Type of company: · Aftermarket · TIER 1

Number of employees: 20

Sales per industry: · Automotive 80% · Other industries 20%



2. Radiator assembly



3. Fin forming machine



4. Fin forming machine



5. Production floor

Main clients



Automotive industry portfolio

- Radiators
- Condensers
- Intercoolers
- Heaters

Portfolio for other industries

- Heat exchangers for power stations

Equipment

- Controlled atmosphere ovens
- Radiator assembly machines
- Fin forming machines
- 150 T capacity press
- Plastic injection molding machine with 400 T clamping force and 1,000 g injection capacity

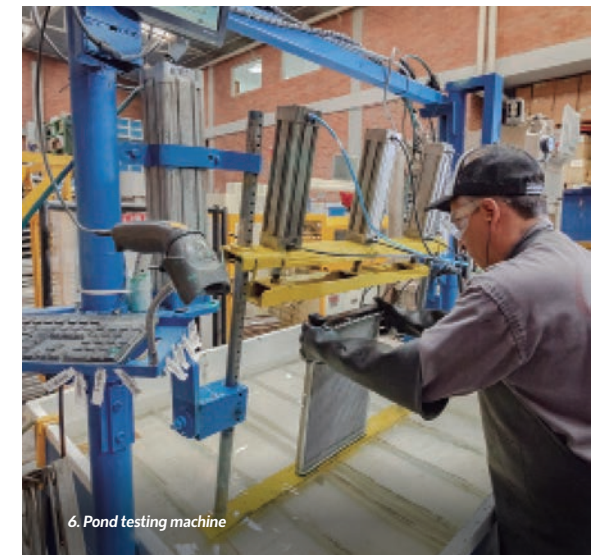
Development capabilities

- Tooling development and manufacturing
- Radiators and condensers design and development capability
- Computer aided development process
- Computer Aided Design (CAD)
 - AutoCAD by Autodesk
 - Autodesk Inventor
 - SOLIDWORKS by Dassault Systèmes
- Computer Aided Manufacturing (CAM)
 - Mastercam by CNC

★ Key strength

Laboratory capabilities

- Functional testing
 - Thermal cycling tests
 - Vibration tests
 - Thermal capacity and dissipation tests
- Dimensional analysis
- Corrosion tests (internal and external)



6. Pond testing machine





1. Mould injection machines 90 – 260 T, up to 900 g

Type of company: · TIER 1 · TIER 2

Number of employees: 49

Sales per industry: · Automotive 23% · Other industries 77%



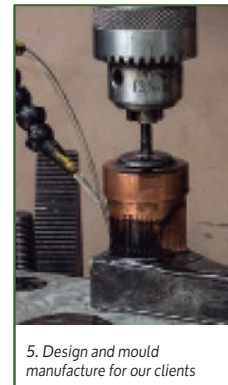
2. Rubber mixing machine, up to 25 kg per batch



3. Chainguard



4. Injection of plastics parts including medical devices



5. Design and mould manufacture for our clients

Main clients



Automotive industry portfolio

- Rubber shock dampers
- Footrests
- Hand grips
- Motorcycle slider rubber tips
- Motorcycle plastic add-ons (accessories)
- Plastic and rubber mats
- Housings

Portfolio for other industries

- Plastic medical devices
- Complete line of industrial spare parts
- Furniture accessories
- Housings for electrical devices
- Coated rollers
- Embedded in rubber and plastics

Development capabilities

- Plastic and rubber injection and vulcanization tooling design and manufacture
- 3D prototyping
- Computer Aided Design (CAD)
 - SOLIDWORKS by Dassault Systèmes

★ Key strength

Equipment

- Lathe with up to 400 mm diameter capacity
- Display milling machine
- Plastic injection molding machines with 90 to 260 T clamping pressure and up to 900 g capacity
- Electrical discharge machine
- CNC with 500 x 800 x 40 mm working area
- Rubber mixer
- Manual and hydraulic rubber vulcanizing presses
- Pad printing (tampography) equipment for up to 135 mm in diameter



6. Production floor, mold injection machines



Cuperz S.A.

Company founded in 1972 with a production area of 6,078 m². It is dedicated to the manufacturing and marketing of products and services for the covering and beautification of floors and commercial, residential, recreational, sports and vehicle spaces. It is a TIER 1 supplier to the automotive sector for the manufacturing of interior trim components, sound deadeners and floor mats.

- www.cuperz.com
- Transversal 32C # 22B - 64
- NIT. 860032932-7
- Bogota, Cundinamarca



1. Production plant

Type of company: TIER 1

Number of employees: 125

International presence: Ecuador

Sales per industry: · Automotive 27% · Other industries 73%



2. Machine capabilities



3. Interior trim parts



4. Soundproofing parts



5. Automotive mats

Main clients



Certifications

- IATF 16949: 2016
- SMETA 2

Automotive industry portfolio

- Interior trim components
 - Interior molded carpets
 - Trunk side trims
 - Trunk floor carpets
- Sound insulation
- Floor mats

Portfolio for other industries

- Artificial grass for landscaping and sports
- Modular carpet tiles
- Rugs
- Carpet rolls
- Vinyl flooring and laminate flooring
- Exclusive representatives: Shaw Contract

★ Key strength

Equipment

- PAM: Manufacturing of thermoformed textile parts
- 2D cutting systems, 3D robot and die cutting
 - Cutting of surfaces and parts based on drawings
- 2D and 3D accessory gluing systems
- Carpet binding machine: perimeter finishes of textile parts
- Embroidery machine: custom finishes of textile parts
- Electric sealers: high frequency accessory bonding system
- Rubber-curing-oven: backing for automotive products and artificial grass
- Weaving machines: artificial grass manufacturing

Development capabilities

Development process assisted by CAx tools

- Computer Aided Design (CAD)
 - AutoCAD by Autodesk
 - Solid Edge by Siemens
 - WILCOM EmbroideryStudio
- Computer Aided Manufacturing (CAM)
 - MotionView by Altair Hyperworks
 - RDWORKS by Ruida Technology

Laboratory capabilities

- Backing for automotive products and artificial grass
 - Viscosity testing
 - Solids percentage test
- Artificial grass
 - Anchoring resistance and slip lock
 - Average pile height
 - Stitch count per dm
 - Average hole punch size
 - Total product weight



6. Interior trim parts



DANA - Transejes Transmisiones Homocinéticas de Colombia S.A.

The company is a leader in the automotive market, which supplies fully integrated drivetrain solutions, focused on delivering best-in-class efficiency, maximum durability, and superior ride of vehicles and machines in the Andean Region. Since 1972 it has been a Tier-1 supplier of several original-equipment manufacturers, as well as the aftermarket in the Andean region, serving all core mobility markets such as light vehicles, commercial vehicles and off highway vehicles.

- www.dana.com.co
- Zona Industrial Girón, km 7
- NIT. 800250328-4
- Bucaramanga, Santander



1. Machining and assembly plant

Type of company: TIER 1 · Aftermarket

Number of employees: 150

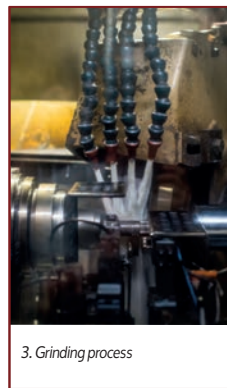
International presence: Argentina · Bolivia · Brasil · Chile · Ecuador

Spain · United States · Peru · Venezuela

Sales per industry: Automotive 100%



2. Heat treatment process



3. Grinding process



4. Fixed Joint assembly



5. Differential ring and pinion kit

Main clients



Certifications

- IATF 16949: 2016
- BASC
- ASES B:
- BIQS: GM
- Q1: Ford
- Renault

Automotive industry portfolio

- Complete halfshaft or CV Joints and their components
- Differential / rear axles and their components
- Prop-shafts / Driveshafts and their components
- Machined components (Yokes, Companions, Midships, Flanges, Double Cardan Joint, among others)
- Assembly of suspension systems
- Assembly of full engine rolling chassis

Equipment

- Machining center with a working area of 1,020 x 510 x 625 mm
- 5-axis machining center
- Conventional lathes
- Milling machines
- Welding equipment
- Specimen cutting machines
- CNC lathes
- Heat treatment machines
- Tempering and case-hardening furnaces with capacity of up to 1,700°C in temperature and 800 kg in weight
- CNC grinding machines
- Cutting machines with 90° angular cutting capacity

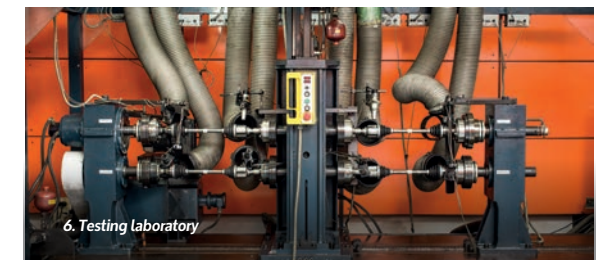
Development capabilities

- Process engineering
- Casting and forging machining
- Development process assisted by computational tools
 - Creo Parametric by PTC Corporation
 - AutoCAD Mechanical by Autodesk
 - CATIA by Dassault Systèmes
 - SOLIDWORKS by Dassault Systèmes

★ Key strength

Laboratory capabilities

- Metallography
 - Hardness measuring equipment
 - Micro hardness measuring equipment
- Non-destructive tests
 - Ultrasonic
 - Magnetic particles
- Metrology
 - Three-dimensional measuring
 - Dimensional measurement of distances, diameters and profiles
 - Certified scales and verification of scales
 - Pressure and rpm verification
 - Measurement and calibration of surface roughness
- Failure mode testing laboratory
 - Torsion fatigue testing machine
 - Static and quasi-static testing machine
 - Durability test machine



6. Testing laboratory





DEMPARCO SAS

DEMPARCO S.A.S. offers efficient and flexible solutions to optimize processes involving cutting, die-cutting, sewing and assembling operations, for organizations seeking to increase their competitiveness. The company was created in 2005 in Colombia, when the founders identified opportunities to improve the processes of the assembly chain related to upholstery and internal decorative coatings within the automotive industry. Currently, Demparco is leveraging on the experience gained in the automotive industry to expand to other industries and fields of application for the cutting, sewing and assembling processes.

- www.demparco.co
- Caarrera 72D # 38 - 55 Sur
- NIT. 900046646
- Bogota, Cundinamarca



1. Die-cut subassembly for automotive industry

Type of company: Lower tier

Number of employees: 9

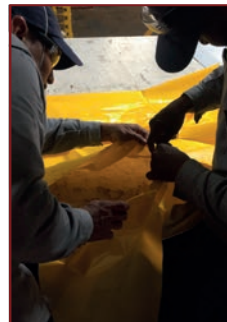
Sales per industry: · Automotive 84% · Other industries 16%



2. Non-woven material die cutting process



3. Sewing



4. Staff and visual control analysis



5. Die-cutting process

Main clients



★ Key strength

Automotive industry portfolio

- Cutting and die-cutting services
- Sewing services
- Seat cover for pets
- Car mats

Portfolio for other industries

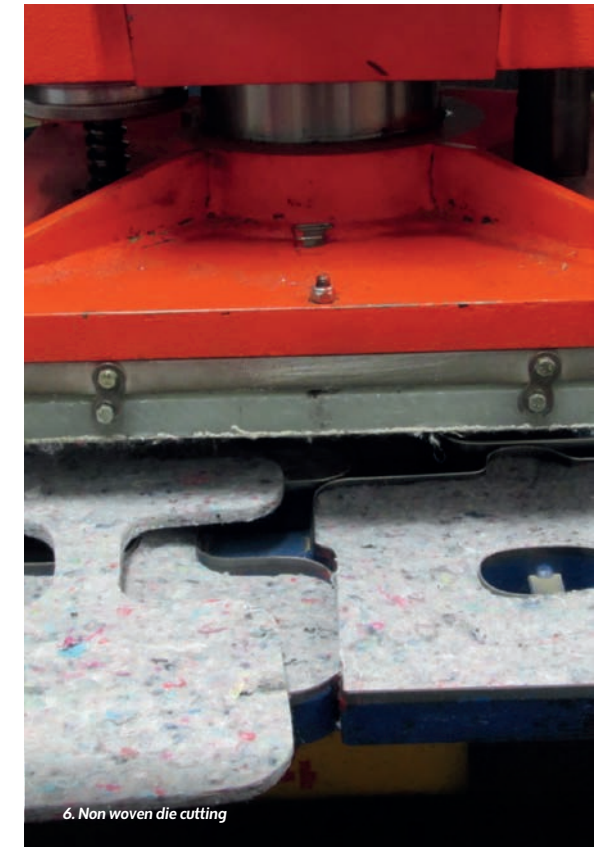
- Cutting and die-cutting services
- Sewing services
- Pet accessories

Equipment

- Die-cutter
- Sewing machine

Development capabilities

- Operations efficiency
- Qualified and trained manpower



6. Non woven die cutting





DST

Company founded in 2004 that designs and manufactures electrical products to improve the efficiency, comfort and safety of automotive customers. Its expertise is focused in design and development of electronics and wire harnesses.

- www.onlinedst.com
- NIT. 802023582

- Carrera 38 # 69C - 19
- Barranquilla, Atlantico



1. Automotive grade wire harness

Type of company: TIER 1

Number of employees: 50

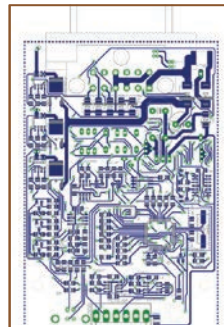
International presence: · Canada · Chile · Ecuador · United States · Peru

· Panama

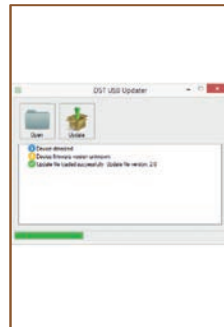
Sales per industry: · Automotive 30% · Mining 60% · Other industries 10%



2. Design and manufacturing of electronic control modules



3. Design and manufacturing of automotive electronic circuit board



4. Design of software tools



5. Automotive portfolio of connectors

Main clients



Certifications

- ROHS

★ Key strength

Automotive industry portfolio

- Automotive and tough-environment-grade wire harnesses and cables
- SAE compliant
- ECM units
- Fatigue and distractions sensor for automotive drivers

Portfolio for other industries

- Pressure sensors

Equipment

- Semiautomatic wire cutters
- Pneumatic crimpers
- Harness braiders
- CNC machine

Development capabilities

- Design and development of ECM units
- Design and development of wire harnesses and cables

Laboratory capabilities

- Hydraulic testbench up to 10,000 psi
- SAE tests (on-cabin electrical units)



6. Robust and reliable wire harness protection



DYNACAD®

DYNACAD S.A.S.

This company, founded in 2008, stands out for its development capacity in plastic and metalworking solutions. It has an area of 1,100 m² with design, development and production capabilities of components and tools for the biomedical, automotive and energy industries.

- www.dynacadtechnology.com
- Carrera 58 # 24 - 81 Bodega 4C
- NIT. 900199012
- Medellín, Antioquia



1. Metalworking area with CNC machines to make molds and tooling up to 4 tons

Type of company: Lower tier

Number of employees: 15

International presence: · United States · Ecuador · El Salvador

Sales per industry: · Automotive 70% · Biomedical 8% · Energy 5% · Other industries 17%

DYNACAD®



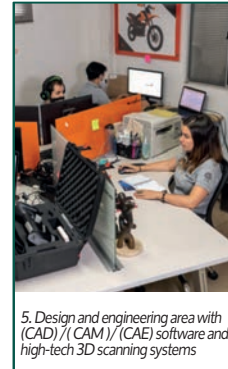
2. Metalworking area to produce serial parts



3. Metrology equipment for quality assurance



4. R&D, engineering and high technology



5. Design and engineering area with (CAD)/(CAM)/(CAE) software and high-tech 3D scanning systems

Main clients



Certifications

- ISO 9001: 2015

Automotive industry portfolio

- Metalworking components
- JIG and FIXTURES for inspection and manufacturing
- Industrial dies
- Injection molds
- 3D printing
- 3D laser scanners for inspection and reverse engineering
- Multifunctional flooring for industrial applications.

Portfolio for other industries

- Metalworking components
- Injected components
- 3D printing prototypes
- 3D scanning services for inspection and reverse engineering
- Development of molds and tooling for the industry
- Multifunctional flooring for industrial applications

Equipment

- Five CNC vertical machining center up to 2 T capacity
- Equipped with RENISHAW inspection systems
- CNC electrical discharge machining
- MIG welding equipment
- Tooling assembly and adjustment equipment
- Injection molding machines (100 to 1,100 T)

★ Key strength

Development capabilities

- High accuracy 3D scanner 0.03 mm/m
- 3D measuring arm with 6 axes of freedom for digitization
- Two measuring tables equipped with RENISHAW measuring probe

- CNC rapid prototyping machine (ABS, PLA and TPU for flexible materials)
- Computer aided design (CAD)
 - SOLIDWORKS by Dassault Systems
 - Rhinoceros 3D by Robert Mcneel & Associates
- ZG SCAN SOFTWARE: for 3D scanner and inspection process

Laboratory capabilities

- 3D inspection and metrology



6. DYNACAD is distributor of ZG TECH - High precision 3D scanners for the automotive industry





ENSAMBLES ZFSAS
Calidad y Firmeza

Ensamblés ZF S.A.S.

Company founded in 2010, with a total area of 3,000 m² where it assembles tire-wheel packages. It also offers sourcing, nationalization procedures and Just-in-Time (JIT) supply to the client. In addition, the firm provides logistical services.

- www.ensambleszf.com
- Zona Franca Rionegro Bodega 52
- NIT. 900391930-6
- Rionegro, Antioquia



1. Production floor

Type of company: TIER 1

Number of employees: 23

Sales per industry: · Automotive 90% · Logistics 10%



2. Tire-wheel assembly



3. Tire-wheel assembly



4. Free trade zone logistics service for CKD



5. Finished product

Main clients



Certifications

- IATF16949: 2016

★ Key strength

Automotive industry portfolio

- Tire-wheel assembly
- Free trade zone logistics service for CKD

Portfolio for other industries

- Logistic services for imported goods

Equipment

- Automatic tire mounting machine
- Tire-wheel assembly balancers
- Automatic inflators

Development capabilities

- Development of logistics solutions and distribution



6. Automatic tire inflator



7. Production floor



Transforma tu mundo

Esenttia S.A.

Colombian company founded in 1989, recognized for being a leader in the plastic sector and the first exporting company of manufactured products in Colombia, through the production and commercialization of high quality raw materials essential for the industry such as polypropylene, polyethylene and masterbatch. It has offices in Cartagena (Colombia), Bogota (Colombia) and Lima (Peru).

- www.esenttia.co
- Mamonal, km 8
- NIT. 800059470
- Cartagena, Bolivar



1. Raw material storage spheres

Type of company: Lower TIER

Number of employees: 463

International presence: · Costa Rica · Ecuador · El Salvador · Spain · United States · Guatemala · Honduras · Mexico · Nicaragua · Panama · Paraguay

· Peru · Dominican Republic · Uruguay · Venezuela

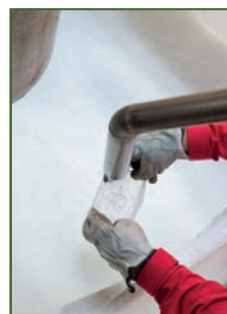
Sales per industry: · Flexible packaging 16% · Agricultural packaging 12% · Industrial 11% · Textile 9% · Mass consumption 9% · Rigid packaging 9% · Other industries 34%



2. Front panel in polypropylene



3. Color masterbatch



4. Characterization of production since it leaves the reactor



5. Black masterbatch

Main clients



Certifications

- BASC
- ISO 9001: 2015
- ISO 14001: 2015
- ISO 45001

★ Key strength

Automotive industry portfolio

- Homopolymers
- Impact copolymers
- Compounds
- Black masterbatches

Portfolio for other industries

- Homopolymers
- Impact copolymers
- Random copolymers
- Terpolymer
- Compounds
- Additive masterbatches
- Color, black and white masterbatches
- High density polyethylene
- Low density polyethylene
- Low density linear polyethylene

Equipment

- Polypropylene plant No. 1 with unipol tecnologia
- Polypropylene plant No. 1 with novolen tecnologia
- Propylene separation unit - Splitter-
- Masterbatches production lines

Development capabilities

- Specialized software for analysis of new developments
- Process simulators

Laboratory capabilities

- Lab Tests:
 - Processing
 - Thermal analysis
 - Application-focused analytics
 - Composition analysis
 - Mechanical properties according to ASTM Standards



6. Polypropylene bumper



Espumlátex[®]

Espumlatex S.A.

Company founded in 1959 that offers solutions for the automotive, motorcycles, mass transport systems and construction industries with polyurethane, felt and high density polyethylene products. It has an R&D department that develops customized formulas that meet high standards of automotive, safety and environmental regulations.

- www.espumlatex.com
- Vereda la Punta, Autopista Medellín km 6,7 Costado Norte Interior 300 m
- NIT. 860000596-8
- Tenjo, Cundinamarca



1. High precision cutting systems

Type of company: · TIER 1 · TIER 2

Number of employees: 302

International presence: · Mexico · Ecuador · Peru · Chile

Sales per industry: · Automotive · House of systems · BRT · Motorcycle · Household · Construction



2. World class physical and chemical testing laboratory



3. Various products and solutions for the automotive industry



4. Flexible technologies and processes



5. Products for mass transport systems

Main clients



Certifications

- ISO 9001: 2015
- IATF 16949: 2016
- OEA
- ISO 14001: 2015
- BIQS: GM
- ASES: RENAULT

Automotive industry portfolio

- Vehicle seat foams
- Soundproofing for vehicles
- Thermal insulators for bodywork
- Public service vehicle seats
- Motorcycle seats
- Polyurethane systems for automotive applications

Portfolio for other industries

- Mattresses
- Pillows
- Orthopedic products
- Construction polyurethane systems
- Acoustic and thermal insulation panels
- Polyurethane systems for oil and gas
- Polyurethane systems for industrial, commercial, construction, and for air filter systems

Equipment

- High-density polyethylene injection blow molding machines
- Polyurethane foam injection molding machines
- Punching presses
- Blow molding machines
- Felts and soundproofers forming presses
- Reactors for custom polyurethane systems

Development capabilities

- Computer Aided Design (CAD)
 - Autodesk Inventor
- R+D+I department

★ Key strength

Laboratory capabilities

- Functional tests
 - Flamability
 - Impact
 - Hardness
 - Elongation
 - Density
 - Component reactivity
- Dimensional tests



6. Chemical systems development for different industries and applications





ESPUMOL S.A.

Since 1991 Espumol has been dedicated to design, innovate and manufacturing of polyurethane injected auto parts for the interior coating of all types of vehicle (TRIM), and the internal adaptation of VANS type minibuses. Working in a 3,000m² productive area.

- www.espumol.com
- Calle 1 # 1-01, Ciudadela Industrial
- NIT.826003638
- Duitama, Boyaca



1. Microbuses internal adecuation

Type of company: · TIER 1

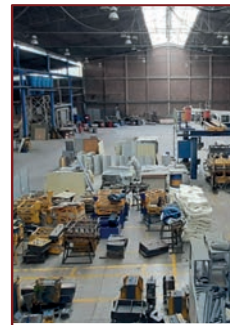
Number of employees: 15

International presence: · Mexico · Portugal

Sales per industry: Automotive 90% · Other industries 10%



2. Cabin screen division



3. Production plant



4. Interior TRIM development



5. S-RIM line panels

Main clients



Certifications

- ISO 9001: 2015

★ Key strength

Automotive industry portfolio

- Polyurethane panels (fiber glass and vinyl cloth surface) S-RIM
- Interior TRIM for buses
- Internal dividers for buses (bulkheads)
- Head impact protection products for the head liner
- Knee impact and side protection products
- Grab handles (interior and exterior)
- Accessories for seats
 - Armrests
 - Foams for vehicle seats
 - Impact protection in the back of the seats

Portfolio for other industries

- Construction
 - Food court furniture
 - 3D wall panels
 - Wall protectors

Equipment

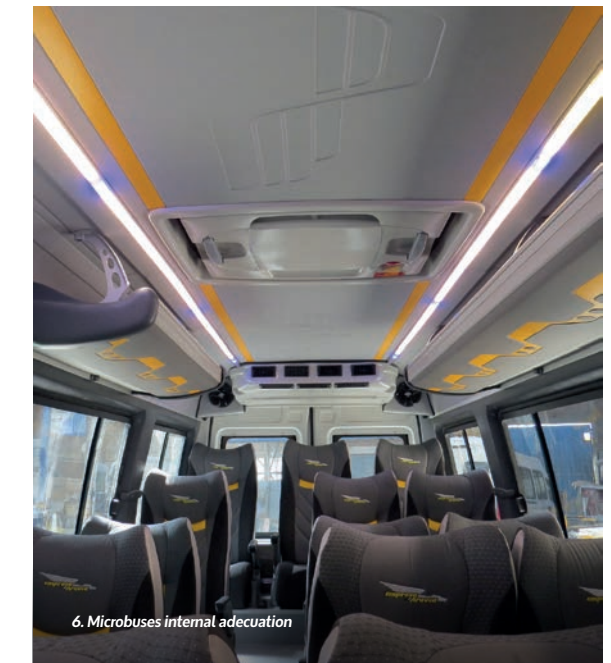
- Polyurethane injection machine
- Hydraulic press machine 200,000 lbs
- Molds for polyurethane panels 200,000 lbs
- CNC router 1,200 x 2,400 x 300 mm (47.5" x 94.5" x 11.8")

Development capabilities

- Research and Development department
- Computer Aided Design (CAD)
 - SOLIDWORKS by Dassault Systèmes
- Manufacture moldings in CNC
- Custom molding design to support high capacity production lines

Laboratory capabilities

- Flame retardant functional testing
- Durometer testing
- PU reactive testing lab



6. Microbuses internal adecuation





EXCO COLOMBIANA S.A.S.

Company founded as a subsidiary of the multinational ARMCO Inc. in 1992. It has a total area of 14,000 m² where mechanical tube solutions are being produced for different applications in industrial sectors.

- www.exco.com.co
- km 11, Via Cerritos, Entrada 7
- NIT. 860002445-3
- Pereira, Risaralda



1. Production plant

Type of company: TIER 2

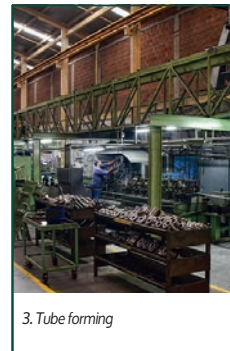
Number of employees: 140

International presence: · United States · Trinidad and Tobago · Puerto Rico

Sales per industry: · Automotive 56% · Furniture 33% · Other industries 11%



2. Laser cut machine



3. Tube forming



4. Bending machine



5. Welding robot

Main clients



Certifications

- ISO 9001: 2015
- BASC
- ISO 14001: 2015

Automotive industry portfolio

- Tubing for shock absorbers
- Tubing for vehicle seat structures
- Tubing for exhaust systems
- Tubing for motorcycle chassis

Portfolio for other industries

- Tubing for structural and mechanical uses in general

★ Key strength

Equipment

- Welding equipment
 - MIG and welding robot
 - TIG
- Powder coating
- Tube forming
- Tube cut to length
- CNC tube bending
- Tube punching
- Tube end forming
- Laser cutting machine

Development capabilities

- Development department with the ability to provide our allies with custom solutions for their requirements

Laboratory capabilities

- Welding resistance tests
 - Flaring Test
 - Flattening Test
- Hydrostatic test
- Eddy Current equipment for tube uniformity validation
- Dimensional measurements
- Assembly tests



6. Powder coating



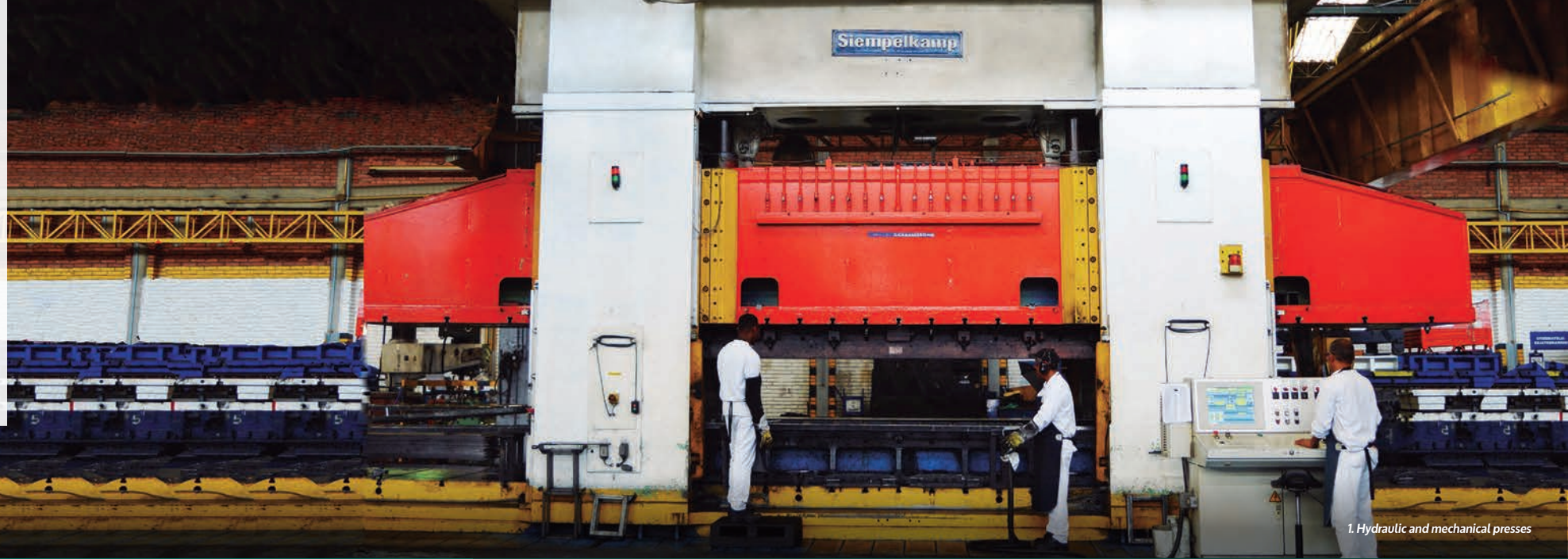
Fanalca



Fanalca - Fábrica Nacional de Autopartes S.A.

Colombian business group founded in 1958 and dedicated to the transportation and metalworking sector. It has a 40,000 m² production area where it assembles motorcycles and manufactures auto parts, motorcycle parts, solid waste collection equipment and seam welded metal pipes.

- www.autopartesfanalca.com.co
- Calle 13 # 31 A – 80 Acopi
- NIT. 890301886-1
- Yumbo, Valle del Cauca



1. Hydraulic and mechanical presses

Type of company: TIER 1

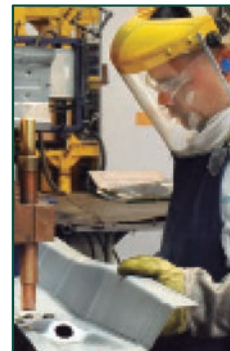
Number of employees: 1,400

International presence: · United States · Ecuador · Venezuela

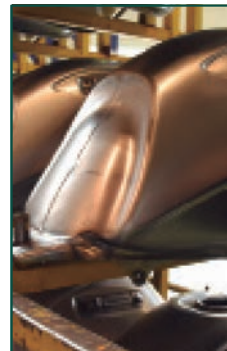
Sales per industry: Automotive 100%



2. Manufacture of radiators and condensers



3. Production process



4. Motorcycle parts manufacturing



5. Radiators and condensers manufacturing

Main clients



Certifications

- IATF 16949: 2016
- ISO 9001: 2015

Automotive industry portfolio

- Stamped body parts
- Frame rails
- Chassis components
- Radiators
- Condensers
- Engine subframe assembly
- Rear axle assemblies

Portfolio for other industries

- Road siderails components
- Waste collection equipment

★ Key strength

Equipment

- Cutting center (unwound, leveling and cutting)
 - Thickness: 1.5 – 12.0 mm, width: 840 – 1,830 mm, length: 2,050 – 10,000 mm, max. weight: 20 T
- Shear cutters, lasers and plasma
 - Thickness: 0.67 – 8.0 mm (laser) / 9.0 mm (shears) / 12.7 mm (plasma), maximum length: 6,000 mm.
- Mechanical presses with 60 to 1,800 T capacity
- Hydraulic presses with 400 to 3,000 T capacity
- Folding machines with 150 to 600 T capacity and 10 to 16 ft in length
- MIG, spot and projection welding with capacity from 75 to 160 kVa
- Powder paint
 - Maximum weight of parts: 400 kg, maximum length of parts: 11 m, conveyor length: 40 m, temperature: 220°C maximum, conveyor speed: 1.5 m/min
- Verification and inspection process
 - Max length: 12m, max width: 12 m, resolution: 0.025 m

- Machining workshop
 - CNC bridge milling machine
 - CNC machining center
 - CNC lathe
- Fin machine
- Radiator core builder
- Continuous brazing furnace
- Condenser core builder
- Universal condenser core builder
- Crimping machine

Development capabilities

- Computer aided development process (CAx)
- Computer Aided Design (CAD)
 - AutoCAD by Autodesk
 - CATIA by Dassault Systèmes
 - SOLIDWORKS by Dassault Systèmes
 - Creo Elements/Pro Foundation XE by PTC
- Corporation Computer Aided Engineering (CAE)
 - ANSYS
- Development and manufacturing of
 - Cutting, punching and stamping dies
 - Assembly, welding and verification devices

Laboratory capabilities

- CMM measuring machine
- Dimensional calibrations and evaluations with 3D measuring arms
- Salt spray chamber
- Leak tester machine
- Honda-certified tests



FANAUTO S.A.S.

Fábrica Nacional Automotriz

JAFS
MACHINES

JAFS
REPUESTOS AUTOMOTRICES

FANAUTO S.A.S.

Company founded in 1988, specialized in 2 lines of business: JAFS AUTOMOTIVE manufacturer of suspension and brake spare parts & JAFS MACHINES focused on engineering projects and manufacturer of custom machinery for high specifications according to customer requirements. It has a production area of 1,000 m².

- www.fanauto.com.co
- Calle 15 sur # 24D - 23
- www.jafs.com.co
- Bogotá, Cundinamarca
- NIT. 800030625



1. Manufacturing plant

Type of company: Aftermarket

Number of employees: 25

International presence: · Costa Rica · Ecuador · Guatemala · Panama

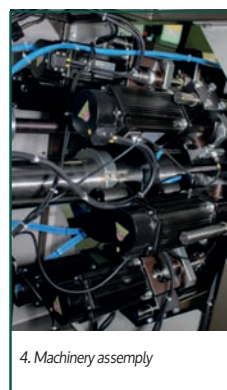
Sales per industry: · Automotive 90% · Other industries 10%



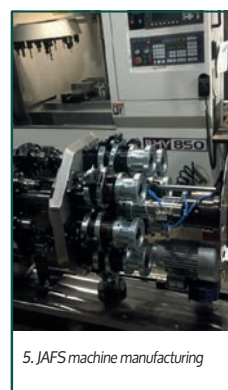
2. Induction heater and Wabash press



3. Packaging warehouse



4. Machinery assembly



5. JAFS machine manufacturing

Main clients

Schneider
Electric

Certifications

- ISO 9001:2015

Automotive industry portfolio

- Stabilizer links
- Anti rattle spring brake hoses
- Tie rod ends
- Caliper brake kits

Portfolio for other industries

- Custom machinery manufacturing
- Transfer drilling machine OCTO-UNIT150
- Screen printing machine PR400-UV
- Cosmetic and pharmaceutical sector machinery

★ Aspecto destacado

Equipment

- JAFS Drilling Unit 8 Station Machine
- 4 axis Machining center
- CNC lathes Wire EDM
- Hot Stamping by Controlled Induction
- Die Cutters
- Hydraulic Presses
- Conventional Machinery



6. JAFS transfer machine

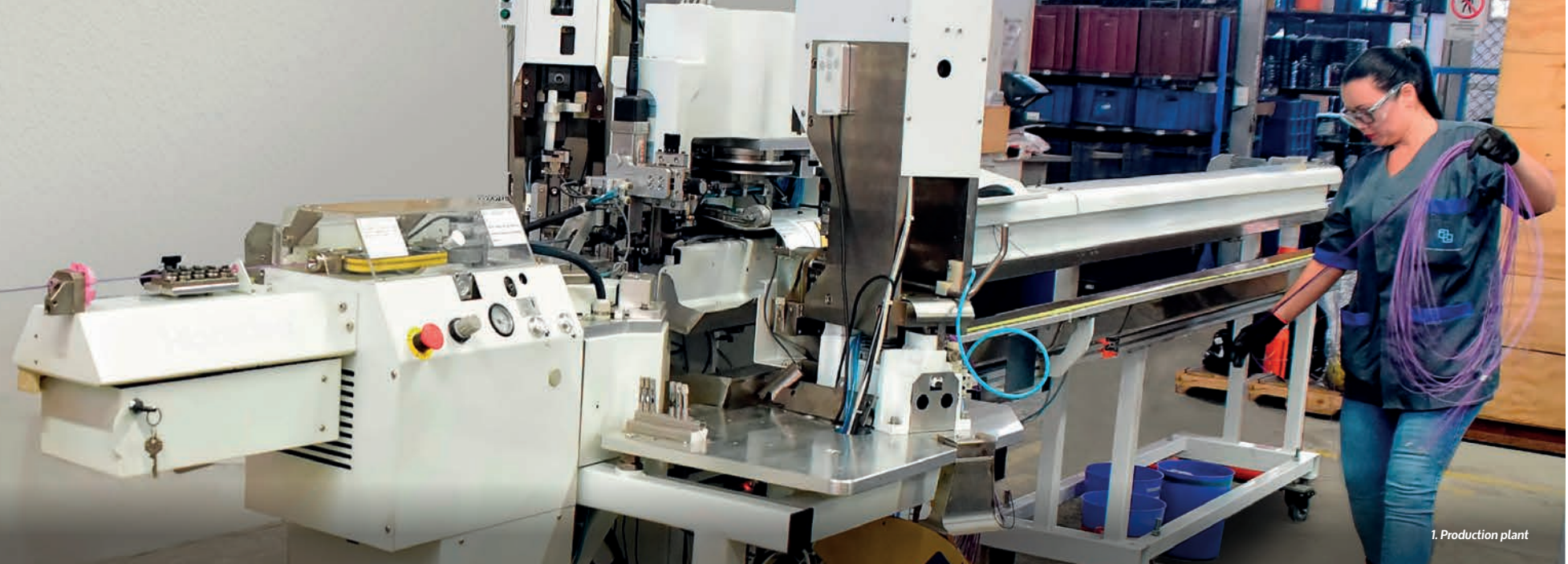




FASECOL S.A.S

Company founded in 2006, dedicated to the design and manufacture of wiring harnesses and their components for the automotive and industrial sector. The company has experience, technical knowledge and facilities focused on development and research to meet market needs.

- www.fasecol.com.co
- Cra 1 No 9 - 295, Vallarta la Badea
- NIT. 900121073-1
- Dosquebradas, Risaralda



1. Production plant

Type of company: TIER 1

Number of employees: 80

International presence: Mexico

Sales per industry: · Automotive 85%

· Appliances 15%



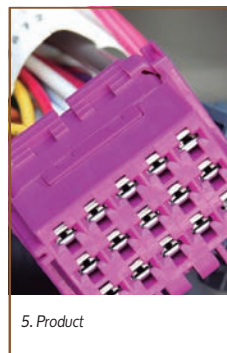
2. Cutting and crimping process



3. Wiring harness



4. Product



5. Product

Main clients



Certifications

- ISO 9001: 2015

Automotive industry portfolio

- Wiring harnesses for buses, bodyworks, motorcycles and ambulances
- Electrical systems
- Developments in automotive electronics
- Installation of collection systems for BRT (Bus Rapid Transit)

Portfolio for other industries

- Wiring for home appliances, refrigerators and air conditioning
- Accessibility solutions for people with reduced mobility
- Lifting equipment for work at heights
- Lifting equipment for vehicles

Equipment

- Automatic cutting, stripping and crimping machines
- Equipment for marking and coding of cables by inkjet
- Presses for terminal application
- Crimp applicators machines
- Thermoshrink machine
- Assembly Carousel
- Assembly boards

Development capabilities

- Design of electrical systems according to customer needs
- Computer Aided Design (CAD)
 - AutoCAD by Autodesk
 - GstarCAD by Gstarsoft
- ProArtes: (CAD) application for the development of electric harnesses

★ Key strength

Laboratory capabilities

- Test bench for electrical continuity
- Wiring harnesses testing equipment
- Equipment to measure the tensile strength of the terminals
- Micrography laboratory: terminal cross section analyzer



6. Test bench





FG Sistemotos

Company founded in 2004, dedicated to the manufacturing of electric and electronic components for motorcycles, such as harnesses, battery chargers, injector cleaners, bulb and flash testers, among others.

- www.sistemasfgsistemotos.com
- Calle 13 Sur # 51 C - 28 / Piso 3
- NIT. 900503648-6
- Medellin, Antioquia



1. Production floor

Type of company: · Aftermarket · TIER 1 · TIER 2

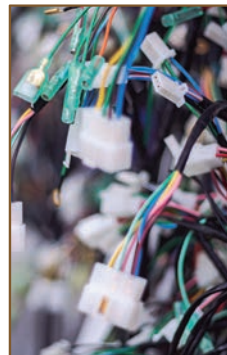
Number of employees: 15

International presence: Costa Rica

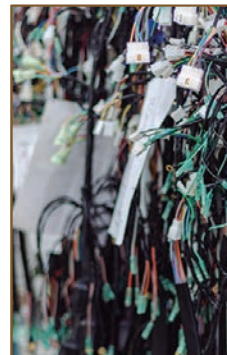
Sales per industry: Automotive 100%



2. Production floor



3. Diagnostic unit



4. Electrical harnesses



5. Production floor

Main clients



Automotive industry portfolio

- Harnesses for different motorcycle brands
- Diagnostic units for motorcycles
- Battery chargers
- Injector cleaners
- Light bulb and flash testers
- Regulators and regulator rectifiers
- Electrical current testers

Equipment

- Semi-automatic wire cutting machine
- Semi-automatic punch down tool
- Pneumatic punch down tool

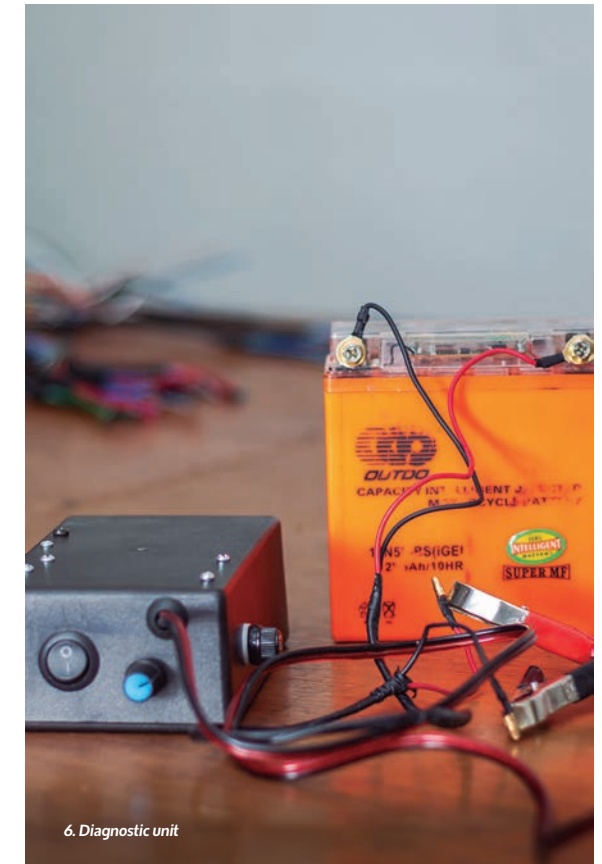
★ Key strength

Development capabilities

- Development of any type of electrical and electronic system according to customer specifications

Laboratory capabilities

- Electronic quality control board, where continuity tests are carried out



6. Diagnostic unit





Filtros Partmo S.A.S.

Company founded in 1962, specialized in filters for diesel engines. In 2016, it was acquired by Donaldson Company Inc. It has a 10,000 m² production plant from which mainly Latin American markets are supplied.

- www.partmo.com
- NIT. 900994125-1
- Calle 1 # 3 - 15 km 7 via Palenque
- Cafe Madrid Parque Industrial 2
- Bucaramanga, Santander



1. Partmo Manufacture facility, Bucaramanga

Type of company: Aftermarket

Number of employees: 350

International presence: · Ecuador · Peru · Chile · Bolivia · Central America

· United States

Sales per industry: Automotive 100%



2. Product Portfolio



3. Air Filter manufacturing



4. Production lane 2



5. Production lane 2

Main clients



★ Key strength

Automotive industry portfolio

- Air filters
- Fuel filters
- Oil filters
- Fuel water separator filters
- Coolant
- Cabin
- Other (hydraulic, air dryer, transmission)

Portfolio for other industries

- Filters for cooling systems and air conditioning

Development capabilities

- Design, product development and process engineering team
- Product and tool development process assisted by (CAD) - (CAM) tools
- Design process and manufacture of molds, dies and tools

Laboratory capabilities

- Specialized test bench for filter testing, structural and fatigue testing
- 10 T universal testing machine
- Optical comparator
- Metrology Lab

Equipment

- Longitudinal steel coils cutting center with a capacity of 5 T and 1.000 mm
- Mechanical presses with 20 to 160 T capacity
- Hydraulic presses with 15 to 100 T capacity
- Electrostatic powder coating with infrared drying oven
- Tools manufacturing workshop equipped with conventional machine tools, flat grinders and CNC machining centers
- Projection and spot welding
- Cutting, punching and stamping dies for production lines
- Liquids (coolant, oil and fuel) and air filters assembly lines



6. Production lanes liquid Filters





Formapress S.A.

Company founded in 2006 as a new and independent business unit from UMO S.A. It has a total area of 900 m² where it offers die cutting, metal stamping and die design services for all industries.

- www.umo.com.co
- NIT. 900060228-3
- km 22 Autopista Medellin - Bogota
- Parque Industrial La Brizuela
- Guarne, Antioquia



1. Production floor, die cutting line

Type of company: · TIER 1 · TIER 2

Number of employees: 42

Sales per industry: · Automotive 60% · Construction 40%



2. Production floor, die cutting line



3. Production floor, die cutting line



4. Production floor



5. Production floor, die cutting line

Main clients



Automotive industry portfolio

- Metal stamped exhaust system components for cars, trucks and motorcycles

Portfolio for other industries

- Solar panel mounts
- Shelving beam connectors
- Cable tray joints
- Supports for valves of gas appliances

★ Key strength

Equipment

- Hydraulic mounting presses with 80 to 130 T capacity
- Punch presses with 25 to 200 T capacity
- Projection nut welding equipment
- Rod induction heating equipment

Development capabilities

- Design and development service for molds and dies



6. Production floor, die cutting line



Company founded in 1934, dedicated to engineering and manufacturing in the metalmechanical sector. It has a 9,200 m² production area where it offers products and casting and machining services for parts and special components to different industries, being the sugar, mining, cement and steel industries the main ones.

- www.fundicionesuniverso.com
- Calle 11A # 32 - 85 Arroyohondo
- NIT. 890308155-6
- Yumbo, Valle del Cauca



1. Semi-automatic machines for sugar mill rolls hardfacing

Type of company: TIER 3

Number of employees: 320

International presence: · North America · Central America · England · South Africa

· Venezuela · Peru · Ecuador · Bolivia · Argentina · Brazil

Sales per industry: · Sugar industry 55% · Other industries 45%



2. High capacity CNC machining plant



3. Special draining nozzles with patented design



4. Special parts CNC machining



5. Component machining in wear-resistant alloys

Main clients



Certifications

- ISO 9001: 2015
- OEA

Automotive industry portfolio

- Casting of bases and bodies for large stamping dies in alloyed steels and/or nodular iron, manufactured from models made of expanded polystyrene, with geometries defined by computer numerical control (CNC) based processes

Portfolio for other industries

- Sugar Industry
 - Manufacture and repair of housings and mills
 - XM mill rolls
 - Sugarcane mills refurbishment
 - Power transmission gears
 - Spare parts and cast components for the sugar industry

Equipment

- Induction furnaces of 1,000, 1,500 and 3,000 kw able to melt up to 20 T of steel and 30 T of gray iron
- Thermal treatment equipment
- Overhead crane
- Machining workshop fitted with machines and both conventional and CNC tools

Development capabilities

- Manufacturing engineering
- Computer Aided Design (CAD)
- Development of different types of alloy applications
- Refurbishment of machines and reception, preparation and milling equipment for the sugar and alcohol industries

★ Key strength

Laboratory capabilities

- Spectrometer
- Metallography laboratory
- Ultrasound equipments
- Hardness testing machines
 - Nondestructive testing



6. Smelting process



Gabriel®

Gabriel de Colombia S.A.

Colombian company dedicated to the manufacturing and distribution of suspension parts for all types of vehicles. Founded in 1983, Gabriel has a production area of 7,300 m², a main plant in Bogota, an assembly plant for 2-wheelers suspension in Medellin and an in-house modules assembly plant at Renault Sofasa.

- www.gabriel.com.co
- Av. Americas # 50 - 51
- NIT. 860515812-5
- Bogota, Cundinamarca



1. Shock absorber workshop, contamination control assembly area

Type of company: · Aftermarket · TIER 1

Number of employees: 280

International presence: · United States · Mexico · Ecuador · Peru · Chile

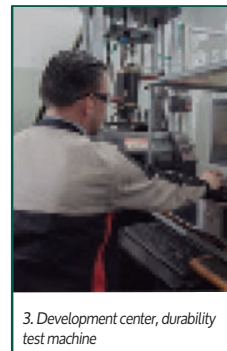
· Bolivia · Venezuela

Sales per industry: Automotive 100%

Gabriel®



2. Shock absorber workshop, robot welding cell



3. Development center, durability test machine



4. Shock absorber workshop, seam welding and leakage test



5. Development center

Main clients



Certifications

- IATF 16949: 2016
- ISO 14001: 2015
- BIQS: GM
- ASES: RENAULT

Automotive industry portfolio

- Shock absorbers and suspensions for light and heavy vehicles
- Coil-overs for light vehicles
- Rear shock absorbers and front forks for motorcycles
- Rear and front axle suspension assemblies for OEM vehicles
- Rubbers and suspension bushings
- Front corners and rear axle suspension assemblies for OEM vehicles
- Rubber bushings, rubber suspension parts and other suspension parts

Equipment

- Welding robot cell
- CNC machining centers
- Drilling centers
- Cutting machines
- Seam, projection and MIG welding
- Structural and conventional damper assembly line
- Liquid electrostatic paint line
- Vulcanized rubber injector
- Vulcanized rubber transfer presses
- Torque wrench
 - Dinamometric machine (100% damping force tests)
 - 100% leakage tests
 - Pokayokes

★ Key strength

Development capabilities

- Computational tools assisted development process (CAx)
 - Design and optimization development process by finite element simulations
 - AutoCAD by Autodesk
 - CATIA by Dassault Systèmes
 - SOLIDWORKS by Dassault Systèmes
 - Inventor 2013 by Autodesk
 - Solid Edge by Siemens

Laboratory capabilities

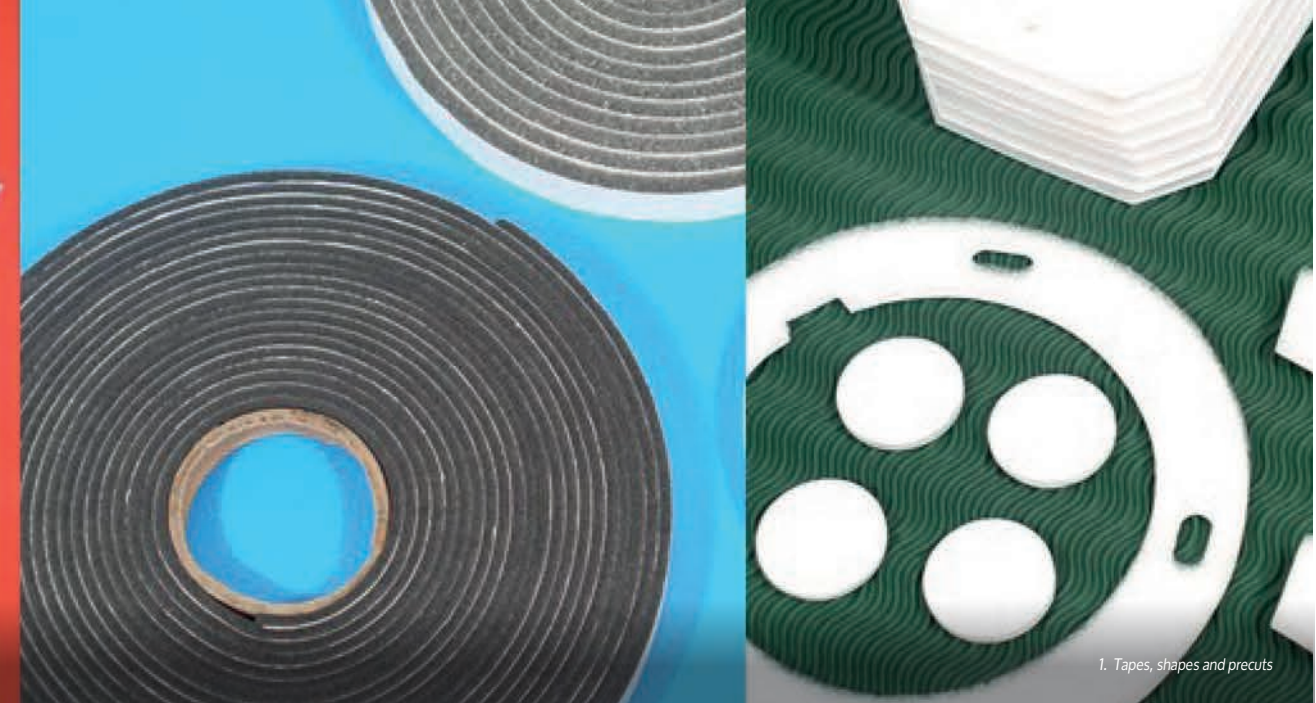
- Torque wrench
- Shock absorbers durability tests
- Salt spray chamber
- Noise booth
- Drying ovens
- Universal test machines
- Hardness tester
- Rubber durability tests
- Profile projector
- 3D machine
- Surface roughness tester
- Hydraulic performance machine
- Impact test machine
- Universal stress test machine
- Structural test machine



GRANSORI S.A.S.

Company founded in February 1988, that has been dedicated to developing solutions for the national and international industry with quality products and generating stable work with fair conditions, mainly for single mothers. They develop packaging in foams, rubbers and textiles with and without adhesives, with adhesives according to the specific needs of each client. Additionally, they design home accessories to protect surfaces and isolate spaces with weather stripping for doors and windows. Under the Practak brand they offer one and two-sided self-adhesive foamed tapes.

- www.gransori.com
- www.maxhogar.com
- NIT. 800027977
- Carrera 53 # 72 - 37
- Bogota, Cundinamarca



1. Tapes, shapes and precuts

Type of company: TIER 1

Number of employees: 40

International presence: · Ecuador · Peru

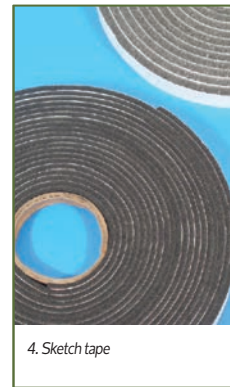
Sales per industry: · Automotive 34% · Refrigeration 42% · Mass Consumption 22% · Various 2%



2. Die-cut



3. Door packing foams



4. Sketch tape



5. Air conditioning ducts

Main clients

RIDUCO

Haceb
Un hogar, mil historias felices

CHALLENGER

easy
cencosud

Marcopolo
SUPERPOLO

BUSSCAR

SODIMAC

Certifications

- ISO 9001: 2015

★ Key strength

Automotive industry portfolio

- One or two-sided adhesive anti-flame polyurethane foam tapes
- Single or double sided adhesive polyethylene foam tapes
- Adhesive PVC foam tapes on one or two sides
- Single or double sided adhesive epdm rubber
- Single or double sided adhesive foam rubber
- Tapes on one or two-sided adhesive non-woven fabrics
- Self-adhesive Eva shapes on one or two sides
- Shapes in self-adhesive foams on one or two sides

Portfolio for other industries

- One or two-sided adhesive anti-flame polyurethane foam tapes
- Single or double sided adhesive polyethylene foam tapes
- Adhesive PVC foam tapes on one or two sides
- Single or double sided adhesive epdm rubber
- Single or double sided adhesive foam rubber
- Tapes on one or two-sided adhesive non-woven fabrics
- Self-adhesive Eva shapes on one or two sides
- Shapes in self-adhesive foams on one or two sides

Equipment

- Adhesive application machines
- Cutting machines
- Automatic cutting machines
- Die cutting machines
- Automatic die cutting machines

Development capabilities

- Computer Aided Design (CAD)
 - Rhinoceros 3D de Robert McNeel & Associates



6. Die-cut



GRUPO

ipc / conelec / SISTELEN

Grupo Conelec / Sistelen

Company founded in 1981 that started its operations with a focus on satisfying the needs for electrical products for household and stoves of the INARCA organization (today MABE COLOMBIA S.A.), as well as the automotive and motorcycle industries. The company also improved its technology and productivity levels, thereby enhancing its competitiveness and market position.

- www.sistelen-sas.com
- km 10 via al Magdalena
- NIT. 900299626-9
- Manizales, Caldas

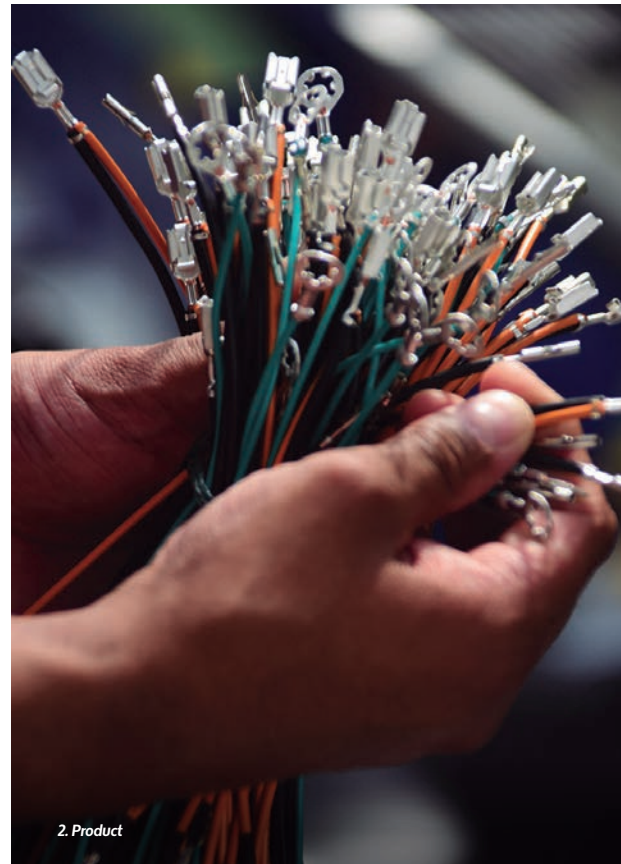


1. Productive process

Type of company: · Aftermarket · TIER 1

Number of employees: 254

Sales per industry: · Automotive 22% · Other industries 78%



2. Product



3. Production floor



4. Production floor



5. Production floor

Main clients



Certifications

- ISO 9001: 2015
- NTC 2356
- RTE INEN 021
- UL 758
- NTC 1116
- RETIE 90708
- SAE J128
- UL 66

★ Key strength

Automotive industry portfolio

- Electrical systems
- Electrical harnesses

Portfolio for other industries

- Sockets
- Flexible cables

Equipment

- Cutting machines
- Injection molding machines
- Wire drawing machines
- Braiding machines
- Coating machines

Development capabilities

- Development of electrical systems and new products for vehicle body manufacturers and for the home appliances sector

Laboratory capabilities

- Insulation resistance test
- Breaking strength test
- Cable terminal pull test



6. Product

Grupo DL plus

Grupo DL Plus S.A.S.

Company founded in 2010, dedicated to the development of motorcycle and automotive components with an added value for OEMs and the aftermarket. On a total area of 1,500 m² it manufactures spare parts, plastic and metal mechanical accessories and motorcycle seats under the Dlp Bike brand.

- www.grupodlplus.com
- Carrera 58 # 24 - 81 Bodega 1G
- NIT. 900351499-1
- Medellín, Antioquia



1. Metal mechanical production line

Type of company: TIER 1

Number of employees: 65

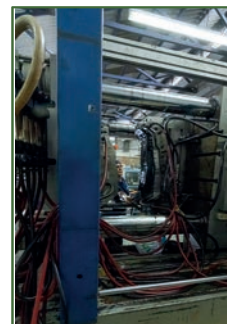
International presence: · Argentina · Costa Rica · Ecuador · El Salvador

· Guatemala · Dominican Republic

Sales per industry: Automotive 100%



2. Design and development of OEM components



3. Design and manufacturing of molds and control systems



4. Plastic components mold injection



5. Metal mechanical production line

Main clients



Certifications

- ISO 9001 : 2015

Automotive industry portfolio

- Plastic spare parts
- Plastic and metal mechanical accessories
- Seats

Portfolio for other industries

- Injection mold services
- Development services
- Metal mechanical services

Equipment

- Plastic injection molding machines with a capacity ranging from 100 to 1,100 T
- CNC lathe
- CNC electrical discharge machining
- CNC milling machine
- Swiss lathe
- CNC machining centers up to 2 T capacity

★ Key strength

Development capabilities

- High definition 3D scanner
- 6 axis freedom measuring arm for contact digitization
- Measuring table equipped with RENISHAW measuring probe
- CNC rapid prototyping machine (ABS and PLA)
- Computer Aided Design (CAD)
 - SOLIDWORKS by Dassault Systèmes
 - Rhinoceros 3D by Robert Mcneel & Associates
- CAE: Virtual Wind Tunnel Analysis
- Injection mold performance analysis
- Static and dynamic component analysis

Laboratory capabilities

- Metrology
- Material testing
- Thermoplastic materials stress testing
- Texture tests and specimens for surface testing
- Performance tests for motorcycle parts
- Weathering
- Endurance
- Road tests



6. 3D metrology and inspection equipment



Company founded in 1969. It is dedicated to the manufacturing and marketing of rubber and plastic hoses for applications in the automotive, industrial, agricultural, infrastructure and exploration of natural resources (mining and oil) sectors, meeting all the technical specifications of the work for which they will be used.

- www.gruporhc.com
- Carrera 127 # 15B - 40
- NIT. 900230312-4
- Bogota, Cundinamarca



1. Production floor

Type of company: Aftermarket

Number of employees: 30

International presence: · United States · Central America · Ecuador · Peru · Chile



2. Products



3. Products



4. Products



5. Extruder

Main clients



Certifications

- ISO 9001: 2015

★ Key strength

Automotive industry portfolio

- Molded hoses for radiators (cooling hoses, branched hoses, hoses with quick connector, elbows of 45° and 90°, cups, rubber reducers, composite hoses, fuel hoses)
- Universal hoses, flexible hoses for radiators, reducers
- Multipurpose hoses (super duty, heavy duty, light duty - rolls for air, water, fuel, windshield washers)
- Fuel line hoses
- Smooth hoses for radiators: standard and heavy transport
- Air ducts, hoses for air purifiers
- Silicone hoses (smooth, hump and spiral connectors, 45 - degree elbows, 90 - degree, 180 - degree, turbo hoses)
- Nylon hoses

Portfolio for other industries

- Agricultural hoses: water suction and discharge, water discharge, suction and discharge (heavy duty), water discharge (heavy duty), super-duty and heavy-duty
- Industrial hoses: hoses for dredgers, hoses for chemical products, corrugated hoses for Vactor trucks, air - vacuum hoses, dry cement hoses, hydraulic SAE 100R1AT and SAE 100R2AT type hoses
- Mining and oil industry hoses: hoses for oil, lubricants, fuels, sludge discharge, fuel suction and discharge, suction and unloading of dry materials, oil fields (corrugated & smooth), mining hoses, hydraulic SAE 100R1AT and SAE 100R2AT type hoses, hybrid discharge hoses (lay flat), multipurpose hoses for air, water, light fuels and fertilizers
- Air conditioning hoses

Equipment

- Banbury mixer
- Preheating mill
- Plasticizer oil pump
- Parallel lathe
- Welding and oxy cutting machine
- Braiding and bobbin machine
- Drill press
- Polishing machines
- Screw extrusion machines
- Autoclaves
- Drawing extrusion machines
- Suction pump
- Continuous vulcanizing furnace
- Calender wire bobbin machine
- Sealing machine
- Digital markers

Development capabilities

- Ability to develop new products, 3D design, engineering and processes' innovation
- Technical support in new product development
- Pneumatic assembly and verification devices
- Process control, attribute control, technical tests of bursting, aging and hardness

Laboratory capabilities

- Performance tests
- Resistance tests
- Pressure tests





Guayas Becerra y Gracia S EN C

Company founded in 1963. It has a total area of 3,800 m² and is specialized in the manufacturing of mechanical control cables for the transport industry. It is the leader in the Colombian market for both the OEM and aftermarket thanks to its quality, competitiveness and service.

- www.guayasbyg.com.co
- Calle 16 # 19A - 28
- NIT. 800248450-9
- Bogota, Cundinamarca



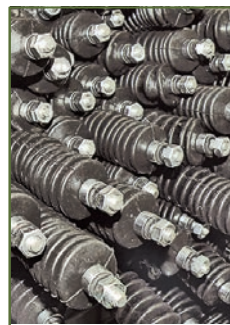
1. Our brand

Type of company: · TIER 1 · TIER 2 Number of employees: 100 International presence: · United States · Mexico · Central America · Ecuador

Sales per industry: · Automotive 55% · Agricultural 35% · Hardware 5% · Other industries 5%



2. Product



3. Product



4. Assembly lines



5. Tooling manufacturing

Main clients



Certifications

- ISO 9001 : 2015
- IATF 16949: 2016
- BIQS: GM
- ASES: RENAULT

Automotive industry portfolio

- Mechanical control cables for
 - Parking brake
 - Accelerator
 - Clutch
 - Shift control
 - Hood
 - Fuel tank filler door
 - Over drive
 - Seat back reclining
 - Power windows
- Steel wire rope

Portfolio for other industries

- Custom-made mechanical control cables

Equipment

- Presses with up to 40 T capacity
- Stamping presses with up to 100 T capacity
- Steel sheet cutting machine
- Machining center
- E.D.M Machines
- E.D.M Wire Machines
- Plastic extruders
- Plastic injection molding machines with up to 200 T clamping force
- Zamak injection molding machine

★ Key strength

- Aluminum injection molding machine
- CNC Machining lathes
- Assembly and subassembly lines
- Spot and MIG welding
- CNC lathe

Development capabilities

- Research, calculation and development team
- Design of molds, dies and control devices
- Computer Aided Design (CAD)
 - SOLIDWORKS by Dassault Systèmes
- Computer Aided Manufacturing (CAM)
 - Mastercam by CNC

Laboratory capabilities

- Salt spray chamber
- Universal testing machine
- Dynamic tests
- Leak tests
- Temperature tests -40°C to 180°C
- Efficiency tests
- Test benches
- Metrology laboratory





Outsourcing en Pintura

HGO Color - Multicoches S.A.

Company dedicated to industrial painting, founded in 1997, with a working area of 2,600 m². It meets the needs of the medium-sized industry as it serves as an outsourcing partner, thereby sparing others the countless difficulties that the painting process can entail.

- www.hgocolor.co
- Calle 29 # 44 - 74
- NIT. 811010817-5
- Medellín, Antioquia



1. Production plant, paint line, paint spray booth

Type of company: TIER 1

Number of employees: 52

Sales per industry: Automotive 80% - Other industries 20%



2. Production plant, paint line, paint spray booth



3. Production plant, paint line, part cleaning



4. Production plant, paint line, paint spray booth



5. Production plant, paint line, paint spray booth

Main clients



★ Key strength

Automotive industry portfolio

- Painting application on production lines
- Parts, spare parts or complete products
- Bright or matte paint
- Finishes, protective films
- Different surfaces and materials
- Colors and solutions development for other companies

Portfolio for other industries

- Industrial line painting

Equipment

- 2 paint tunnels, with a daily paint capacity: of 3,000 pieces

Development capabilities

- Other coating paints development in process



6. Production plant, paint line, product



7. Production plant, paint line, paint spray booth

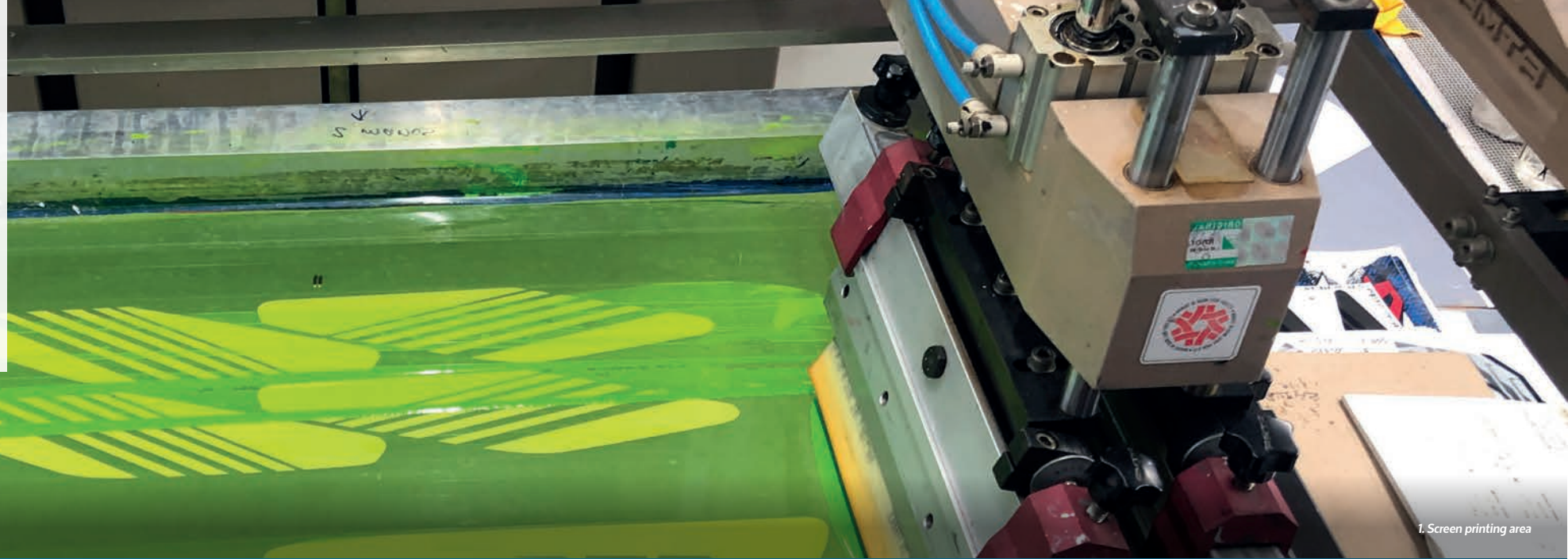




HJ Londoño y Cia S.A.S.

Company founded in 1976, dedicated to the design and creation of advertising elements, specialized in screen printing, standing out in the production of stickers for the automotive sector and other industries. It has a production plant of 1,685 m².

- NIT. 900041345
- Manizales, Caldas
- Kilometro 01 Via La Linda, Ciudadela Zagales



1. Screen printing area

Type of company: TIER 1

Number of employees: 10

Sales per industry: · Automotive 90% · Other industries 10%



2. Design area



3. Varnishing process



4. Die cutting area



5. Quality control area

Main Clients



★ Key strength

Automotive industry portfolio

- Decals

Portfolio for other industries

- Digital printing
- Advertisements
- Industrial signage
- Vehicle decoration
- Pop material
- Laser cutting and engraving
- Plotted

Equipment

- Screen Printing Printers
- UV curing bands
- Digital printers
- Cutting plotter
- Laser cut
- Die cutters

Development capabilities

- Computer Aided Design (CAD)
 - Adobe Suite
 - CorelDRAW

Laboratory capabilities

- Ink adhesion
- Functional testing
- Chemical resistance tests



6. Finished product, decals





IMAL S.A. - Industrias Metálicas Asociadas S.A.

Colombian company founded in 1959, dedicated to the manufacture of parts for the mobility industry. It has a 30,000 m² production area where it manufactures suspension systems.

- www.imal.com.co
- Calle 22B # 127 - 69
- NIT. 860001781-9
- Bogota, Cundinamarca



1. Paint and quality control line

Type of company: Aftermarket · TIER 1

Number of employees: 270

International presence: · United States · Mexico · Canada

· Central America · Ecuador · Peru · Chile · Brazil · Portugal · England · France

Sales per industry: Automotive 100%



2. Test laboratory area



3. Production area, machining center



4. Test laboratory area



5. Production area, paint and quality control line

Main clients



Certifications

- ISO 14001: 2015
- IATF 16949: 2016
- BASC

Automotive industry portfolio

- Multi-leaf and parabolic leaf springs for commercial, passenger and cargo vehicles
- Air springs
- Hot and cold rolled tension and compression coil springs
 - Conical
 - Cylindrical
 - Miniblock
 - Sideload
- Double pigtail springs

Equipment

- Steel cutting shears up to 40 mm thick
- Die-cutting presses of 15 to 125 T capacity
- Heat treatment ovens with 3 T/h capacity
- Sandblasters
- Electrostatic powder paint line
- Die-cutting presses with capacity of up to 200 T
- Machining center

Development capabilities

- Reverse engineering
- Engineering design optimization meeting international standards (APQP)
- Geometric parts parametrization
- 3D scanning
- 3D inspection

★ Key strength

Laboratory capabilities

- Metallographic microscope
- Image analyzer (LECO)
- Salt spray chamber
- Cyclic corrosion chamber
- Gravelometer
- Vickers microdurometer
- Rockwell B/C durometer
- Shore durometer
- Dimensional calibrations and evaluations with 3D measuring arm (FARO)
- 50 T universal testing machine
- Magnaflux
- Penetrating dyes
- Gauge blocks for calibration of length measurement instruments

- 3D modeling
- Computer Aided Design (CAD)
 - Solid Edge by Siemens
- Simulation of finite elements (FEA)
 - ANSYS
- Nonlinear structural analysis
- Nonlinear buckling analysis
- Dynamic rigidity
- Hyperelastic simulation
- Design of experiments





INALTRA - Industrias Nacional de Troqueles Ltda.

Colombian company founded in 1961, dedicated to the metalmechanical sector. It has a 3,800 m² plant where it produces automotive, motorcycle and metalmechanical components for the mobility industry in general as well as other sectors.

- www.inaltra.com
- Calle 6 # 1 - 99 Este, Barrio El Lucero km 12/3 Vía Mosquera - Bogota
- NIT. 860004686-0
- Mosquera, Cundinamarca



1. Production floor, product quality control line

Type of company: · TIER 1 · TIER 2

Number of employees: 110

International presence: · United States · Ecuador

Sales per industry: · Automotive 73.8% · Electric 19.2% · Other industries 7%



2. Production floor, presses and punching presses line



3. Presses and punching presses line



4. Production floor, finished tanks transport



5. Powder coating line

Main clients



Certifications

- ISO 9001: 2015
- ISO 14001: 2015

Automotive industry portfolio

- Metal mechanical parts
 - Trays
 - Engine shields
 - Chassis structural components
 - Cross members
- Supports
 - Fuel tank mounts
 - Battery mounts
 - Air filter mounting brackets
- Metallic fuel tanks

Portfolio for other industries

- Electric boards components

★ Key strength

Equipment

- 500 and 600 T hydraulic presses
- 60 to 450 T mechanical presses
- Welding
 - Spot
 - Projection
 - Sewing
 - MIG
 - TIG
- CNC Machines
 - Laser cutting with up to 19 mm thickness capacity and working area of 3,500 x 1,500 mm
 - Shear cutting machine with a 9 mm thickness and 3 m width capacity

- Punching press with 3 mm thickness capacity and 1,500 x 3,000 mm working area
- Sheet metal folding for up to 3 m length and 6 mm thickness
- 3" diameter tube bending
- Powder coating paint line
- Die-tools workshop
 - CNC lathe
 - CNC machining center
 - CNC milling machine
 - CNC wire electrical discharge machine

Development capabilities

- Computer Aided Design (CAD)
 - SOLIDWORKS by Dassault Systèmes
 - ZWCAD by ZWCAD SOFTWARE CO

Laboratory capabilities

- Dimensional calibrations and evaluations with 3D measuring arm (Faro Edge)
- Paint adhesion testing
 - Cross-cut test
 - Scrape adhesion test
 - Pull-off test





Incolbest S.A.

Company founded in 1956 that has a production area of 31,000 m². Dedicated to the production and marketing of friction materials and brake systems. Leader of the automotive industry in the Andean region.

- www.incolbest.com
- Avenida Calle 17 # 123 B - 49
- NIT. 860056886-0
- Bogota, Cundinamarca



1. Production floor

Type of company: Aftermarket

Number of employees: 560

International presence: · United States · Guatemala · Panama · Honduras

· Peru · Costa Rica · El Salvador · Mexico · Ecuador · Chile

Sales per industry: Automotive 100%



2. Laboratory, inertial dynamometer



3. Brake blocks



4. Brake pads production line



5. Laboratory accredited by ONAC

Main clients



Certifications

- ISO 9001: 2015
- BASC
- ISO 14001: 2015

Automotive industry portfolio

- Heavy and light vehicle brake pads
- Motorcycle brake pads
- Light and semi-light vehicle linings
- Heavy vehicle brake blocks
- Clutch facings

Equipment

- Dosing and mixes equipment
- 100 to 1000 T capacity curing presses
- Convection furnaces
- Electrostatic paint line
- Grinding machines
- Power saw machines
- Marking systems

Development capabilities

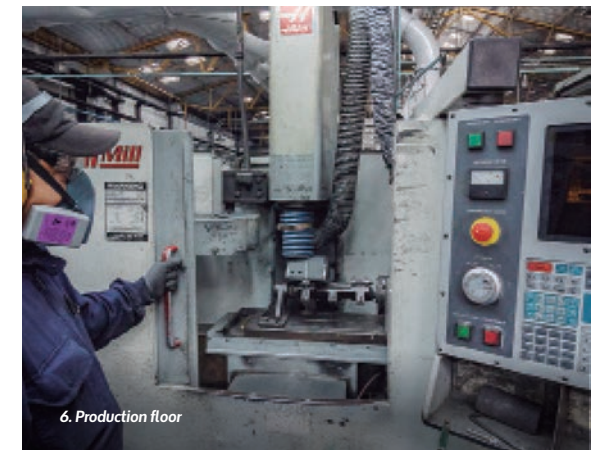
- Computer Aided Design (CAD)
 - Solid Edge by Siemens
 - AutoCAD by Autodesk
 - Autodesk Inventor

★ Key strength

Laboratory capabilities

- Accredited brake systems tests
 - Hardness test
 - Shear strength

- Dimensional stability
- Cutting resistance
- Relative density
- Cylinder tightness
- Humidity operation
- Temperature resistance
- Corrosion resistance
- Salt spray chamber test
- Accredited measuring instruments calibration
 - Length
 - Pressure
- Laboratory accredited by ONAC



6. Production floor





Indummelbra S.A.S.

Company from the metal mechanical sector founded in 1977. It has a 3,000 m² production area where they design, manufacture and market specialized tools and spare parts for various motorcycle brands, with the IMBRA brand complementing its brand Mapache Parts in everything related to spare parts for engine components, thereby providing a more complete and efficient portfolio for the motorcycle industry.

- www.imbrarepuestos.com
- Calle 10A # 45 - 02 Zona Industrial Gorgonzola, Puente Aranda
- Bogota, Cundinamarca
- NIT. 860051404-0



1. Production floor, CNC technology

Type of company: Aftermarket

Number of employees: 180

International presence: · Chile · Ecuador · Panama · Costa Rica · Honduras

· El Salvador · Guatemala

Sales per industry: Automotive 100%



2. Motorcycle Parts and Tool



3. Cylinder and piston assembly



4. Inspection laboratory



5. Specialized tool for Motorcycles

Main clients



Certifications

- ISO 9001: 2015

Automotive industry portfolio

- Specialized tools for motorcycles
- Motorcycles axels and swing arm kits
- Motorcycle electric components
- Head and taillamps
- Special and commercial screws
- Bushings and rubbers
- Motorcycle brake bands and pads
- Brake cylinder kits
- Pistons
- Connecting rods
- Racing components (repowering)
- Quick fixing kits

Equipment

- Plastic injection molding machine with a 130 g capacity and 90 T clamping pressure
- Vulcanizer
- CNC lathes
- CNC lathes with motorized tools
- Gang-type CNC lathes
- Parallel lathes
- Rotary lathes
- Automatic lathe
- Radial lathes
- Universal milling machines
- Machining center
- 45 to 60 T punching presses
- Milling drill
- Tube bender for 10 mm to 38 mm diameters
- Welding
 - MIG
 - Spot

★ Key strength

Development capabilities

- Design and development of prototypes
- Design and manufacture of molds and dies
- Computer Aided Design (CAD)
 - AutoCAD by Autodesk
 - SOLIDWORKS by Dassault Systèmes
- Computer Aided Manufacturing (CAM)
 - Mastercam by CNC

Laboratory capabilities

- Metrology Laboratory
 - Functional tests
 - Dimensional tests
- Electric bench for motorcycle electrical components
- Material hardness tests



6. Production floor, CNC technology





INDUSTRIAS CADI S.A.S.

Company founded in 1982, manufactures technical injection rubber articles and develops rubber gaskets for the construction industry, household appliances and gas appliances, the automotive and electrical sectors, oil filters for vehicles, the food sector, lighting, among others.

- www.industriascadi.com
- NIT. 890931883
- Cruce Autopista Medellín - Bogotá, 300 m hacia Aeropuerto JM
- Guarne, Antioquia



1. Production plant

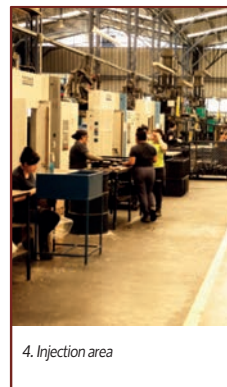
Type of company: Lower tier Number of employees: 250 International presence: · Argentina · Bolivia · Chile · Ecuador · United States · Mexico · Peru · Dominican Republic · Venezuela Sales per industry: · White line 44% · Construction 35% · Automotive 13% · Other industries 8%



2. Our team



3. Facilities



4. Injection area



5. New machinery

Main clients



Certifications

- ISO 14001: 2015
- ISO 9001: 2015

Automotive industry portfolio

- Rubber gaskets and orings

Portfolio for other industries

- Injected technical products for all types of industries

Equipment

- Injectors
- Mills
- CNC
- Cryogenic deflashing machine

★ Key strength

Development capabilities

- CAD and CAM

Laboratory capabilities

- Rheometer
- Durometer
- Tension, elongation, and aging tests.



6. Technical rubber products





Industrias FAACA Colombia S.A.S.

Company founded in 1984, dedicated to the development, manufacturing and supplying of parts, components and complete systems for automotive air conditioning, for both OEMs and the aftermarket.

- www.faaca.co
- NIT. 860404848-3
- Autopista Medellin - Bogota km 32 + 600 vereda la Mosca
- Rionegro, Antioquia



1. Welding robotic arm

Type of company: · Aftermarket · TIER 1

Number of employees: 272

International presence: · Ecuador · Central America

Sales per industry: · Automotive components 78% · Motorcycle components 15% · White line 7%



2. Manufacturing process



3. Assembly process



4. Manufacturing process



5. Manufacturing process

Main clients



Certifications

- ISO 9001: 2015
- IATF 16949: 2016
- ASES: RENAULT
- BIQS: GM

★ Key strength

Automotive industry portfolio

- Automotive components
 - Hoses and pipes for HVAC
 - Heat exchangers
- Motorcycle components
 - Handlebars
 - Crash bars
 - Cargo trays
 - Levers
 - Center stand
 - Side stand

Portfolio for other industries

- Home appliances
 - Copper and aluminium pipes
 - Cooling coils

Equipment

- CNC cutting machines
- CNC 2-axis forming machine
- CNC bending machine from 5 mm up to 2"
- TIG, MIG and autogenous welding
- Sheet metal crimpers
- CNC lathes
- CNC lathe with motorized turret
- CNC vertical machining center
- Universal milling machine
- Aluminium injection molding machine
- Punch presses with 30 to 200 T capacity

- Powder coating line
- Controlled Atmosphere Brazing (CAB) furnace
- Helium leak testing
- Fin stamping machine

Development capabilities

- Tooling manufacturing
- Injection molds manufacturing
- Punching dies manufacturing
- Injection process JIGs

Laboratory capabilities

- 3D measurements with faro arm
- Pressure resistance and burst tests
- Paint resistance test
- Rotation test
- Calibration of micrometers, calipers and manometers



6. Helium leak test machine





Industrias Goby S.A.S.

Company founded in 2009. 450 m² production plant including administrative area. Manufacture and commercialization of filters for the industrial and vehicular sector.

- www.gobyfilters.com
- Bodega 4, Zona Industrial La Macarena
- NIT. 900315446
- Dosquebradas, Risaralda

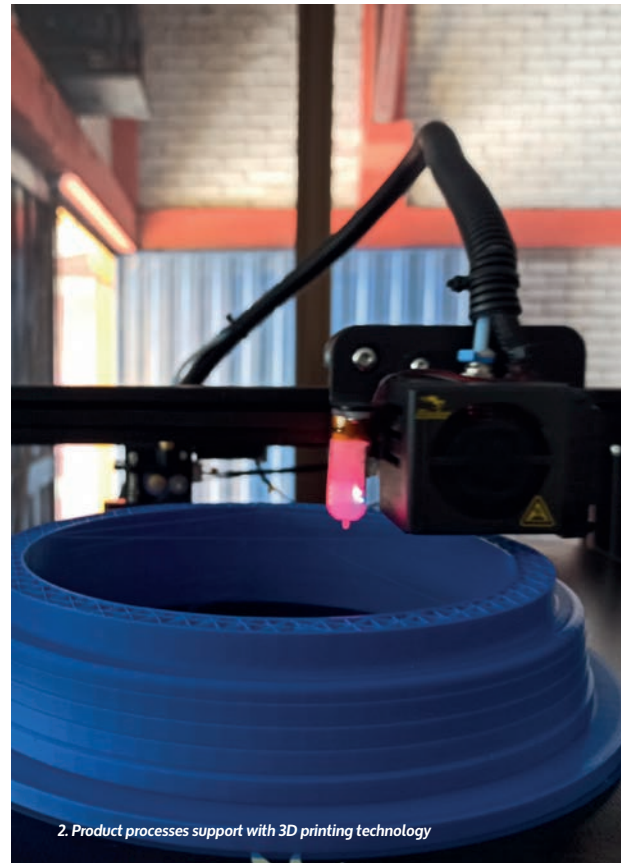


1. Product lines

Type of company: Aftermarket

Number of employees: 13

Sales per industry: Automotive 95 % · Industrial 5 %



2. Product processes support with 3D printing technology



3. Assembly process



4. Inspection and quality control



5. Manufacture and marking of corrugated paperboard packaging

Main clients



★ Key strength

Automotive industry portfolio

- Engine air filters
- Fuel filters

Portfolio for other industries

- Paperboard packaging

Equipment

- Paper folding machines
- Flow and restriction test equipment for air filters
- Metalworking equipment

Development capabilities

- Computer Aided Design (CAD)
 - FUSION 360 DESIGN by Autodesk

Laboratory capabilities

- Flow and restriction test equipment for air filters



6. Air filter for internal combustion engines





Industrias Hernal S.A.

Company created in 1985, dedicated to the manufacturing of metal - rubber products for the automotive, electrical and industrial sectors. In a production area of 1,250 m² it has the versatility to develop different types of products in metal-rubber.

- www.industriashernol.com
- Calle 64 # 113A - 35
- NIT. 860528890-6
- Bogota, Cundinamarca



1. CNC

Type of company: · Aftermarket · TIER 2

Number of employees: 36

International presence: · United States · Ecuador · Panama · Costa Rica

· Peru

Sales per industry: · Automotive 45% · Electric 42% · Other industries 13%



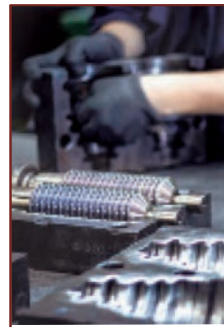
2. Rubber injectors



3. Braider



4. Vulcanizing presses



5. Molds

Main clients

Gabriel THE ORIGINAL **SIEMENS corona**



Certifications

- ISO 9001: 2015
- CIDET

Automotive industry portfolio

- Dust seals
- Steering rubber boots
- Bushings
- Engine mounts
- Hoses
- Profiles

Portfolio for other industries

- Electric transformer seals

Equipment

- Rubber injection molding machines with 1 liter injection capacity, 160 T clamping pressure and a working area of 40 x 33 cm
- Vulcanizing presses with working areas of 60 x 60 cm, 36 x 36 cm and 20 x 20 cm
- Extrusion machines with a maximum diameter capacity of 18 cm
- Vulcanizing tunnel with a 40 m working area
- Vulcanizing autoclaves with capacity of up to 3 m in length and up to 1.6 m in diameter
- Open mill with up to 2 m sheet metal capacity
- 6 mm to 42 mm in diameter capacity braiding machine
- CNC with 1.3 x 0.6m work area and 1 T and 12,000 rpm capacity
- CNC lathe with 300 mm diameter x 500 mm length capacity
- Milling machines with 1 x 0.6 x 0.4 m capacity
- Conventional lathes with 650 mm x 2,000 mm capacity
- Punching press with 40 T capacity

★ Key strength

Development capabilities

- Design and development of molds, punching dies and molding dies
- Development of rubber formulae
- Computer Aided Design (CAD)
 - SOLIDWORKS by Dassault Systèmes
- Computer Aided Manufacture (CAM)
 - Mastercam by CNC Software

Laboratory capabilities

- Functional testing
 - Pressure aging vessel
 - Rheometer
 - Tensometer
- Dimensional analysis



6. Rubber products





INDUSTRIAS JAPAN S.A.
Fabricantes de partes para motocicletas

Industrias Japan S.A.

Company of the metal mechanical industry founded in 1985. It has a total area of 6,000 m² where it is dedicated to the manufacturing of motorcycle components, providing components for the aftermarket and supporting the integration requirements of assembly companies.

- www.industriasjapan.com
- NIT. 860524955-8
- km 29 Carretera Central del Norte, Vereda Canavita
- Tocancipa, Cundinamarca



1. High pressure die casting section

Type of company: TIER 1

Number of employees: 400

International presence: · South America · Central America and the Caribbean

· North America

Sales per industry: Automotive 100%



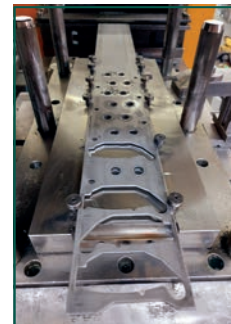
2. Positioning robot



3. Tail handle



4. Injection process



5. Die-cut brake pads

Main clients



Certifications

- ISO 9001: 2015

★ Key strength

Automotive industry portfolio

- Metal mechanical components for motorcycles
 - Brake bands
 - Brake pads
 - Kick-start, brake and gear pedals
 - Axles
 - Gear shafts
 - Mirror mounts
 - Brake and clutch handles
 - Passengers grab rails
 - Brake rods
 - Footrests

Equipment

- Aluminium injection molding machines with 100 to 550 T capacity
- Punching presses with 40 to 315 T capacity
- Laser cutting machine for thicknesses of up to 16 mm in carbon steel and 8 mm in stainless steel
- CNC lathes for diameters of up to 2"
- 4-Axis CNC machining center
- Plastic injection molding machines with 100 to 200 T capacity
- Robotic MIG welding equipment
- Tube bending machine for up to 3 mm in thickness and 1" in diameter
- Powder coating line
- Galvanic coatings in zinc and chrome

Development capabilities

- Design and manufacture of molds and dies
- Computer Aided Design (CAD)
 - NX by Siemens
- Computer Aided Engineering (CAE)
 - Flow-3D by Flow Science
- PLM by Siemens
- Reverse engineering

Laboratory capabilities

- Industrial measurement laboratory
- Coordinate-measuring machine
- FARO 3D measuring arm
- FARO 3D laser scanner
- 3D prototyping
- Mechanical properties tests using universal testing machine
- Hardness tests for different materials
- Chemical composition analysis for ferrous and nonferrous alloys
- Test machine for friction materials characterization under JIS and SAE standards and specifications



6. Robotic welding

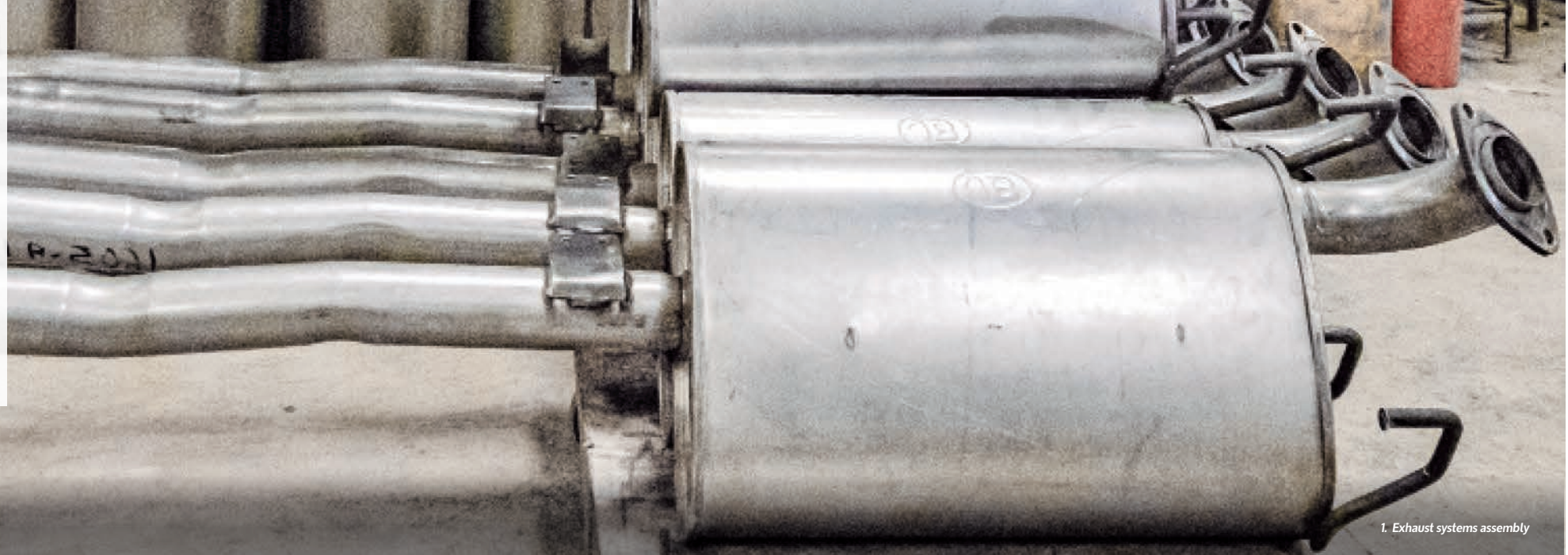




INDUSTRIAS JB SAS
Industrias JB S.A.S.

Metalworking company founded in 1979 with a production area of 1,800 m². Dedicated to the manufacture of auto parts such as exhaust systems and motorcycle metal parts such as cargo trays, sliders and saddlebags supports.

- www.industriasjb.com
- Avenida 15 A # 51 - 34
- NIT. 890923680-9
- Bello, Antioquia



1. Exhaust systems assembly

Type of company: Aftermarket

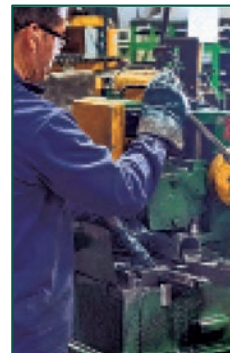
Number of employees: 60

International presence: · Ecuador · Venezuela

Sales per industry: · Automotive 97% · Other industries 3%



2. Exhaust system body flange



3. Oxicut and plasma cutting



4. Pipe bending



5. Oxicut and plasma cutting

Main clients



★ Key strength

Automotive industry portfolio

- Automotive exhaust systems
- Heavy truck exhaust systems
- Catalytic converters
- Flexible exhaust joints
- Motorcycle metallic cargo trays
- Motorcycle sliders
- Motorcycle handlebars
- Motorcycle saddlebags supports

Portfolio for other industries

- Metallic elements for companies in the electricity market
- Components for agricultural cableways

- Pipe cutter with endless saw with a capacity for up to 10" in diameter
- Pipe bender for up to 3" in diameter

Development capabilities

- Reverse engineering in product development for the exhaust systems replacement market
- Motorcycle accessories development

Laboratory capabilities

- Functional tests for exhaust systems

Equipment

- Plate shear cutting machine with capacity of up to 3 mm in thickness
- Punching presses with up to 50 T capacity
- Hydraulic presses with up to 100 T capacity
- Automatic sheet metal crimper with capacity for up to 1.2 mm in thickness and 8" in diameter
- Sheet flange with capacity for up to 1.2 mm in thickness and 8" in diameter
- MIG welding equipment up to 250 A
- Multipurpose TIG welding equipment
- Pipe saw cutter with a capacity for up to 3" in diameter



6. TIG and MIG welding





Industrias Lavco S.A.S.

Metal mechanical company founded in 1991, dedicated to the manufacturing of automotive components and industrial parts for the after sale and service markets. It has a total area of 2,750 m² where it manufactures cylinder sleeves and and other similar parts in various dimensions.

- www.lavco.com.co
- km 4 autopista Florida - Piedecuesta
- NIT. 800117272-2
- Floridablanca, Santander



1. Quality inspection at CNC



Type of company: Aftermarket Number of employees: 97 International presence: · United States · Puerto Rico · Guatemala · El Salvador · Honduras · Nicaragua · Costa Rica · Panama · Dominican Republic · Venezuela · Ecuador · Curaçao Sales per industry: · Automotive 85% · Other industries 15%



2. Ladle with molten metal



3. Protection and packing at the end of the process



4. Visual inspection



5. Industrial liners centrifugal casting machines

Main clients



Certifications

- ISO 9001: 2015

★ Key strength

Automotive industry portfolio

- Centrifugal cast motor cylinder sleeves
 - Dry cylinder sleeves for gasoline engines
 - Wet cylinder sleeves for gasoline engines
 - Cylinder sleeves for diesel engines (wet and flange sleeves)
 - Cylinder sleeves for outboard motors

- Drills
- TIG welding equipment
- Cupola furnace
- Centrifugal casting machines
- Heat treatment ovens

Development capabilities

- Reverse engineering
- Flexibility and capacity to produce parts according to drawing/samples

Laboratory capabilities

- Dimensional metrology laboratory
- Surface roughness gauges
- Hardness testers (digital and King)
- Gauge for hydrostatic tests
- Non destructive tests
 - Penetrating liquids
 - Magnetic particles

Portfolio for other industries

- Piston manufacturing
- Cylinder sleeves for industrial motors
- Diverse components for motors and compressors in the oil and gas industry
- Repair and assembly of multi-stage and screw compressor cylinders
- In-situ inspections for industrial facilities and equipment with a broad portfolio of non-destructive tests
- Repair of various components such as crankshafts and pumps

Equipment

- Conventional lathes
- CNC lathes
- Boring Machine
- Centerless grinding machines
- Industrial and automotive honing machines
- Milling machines



6. Production floor





menbel

Industrias Menbel Ltda.

Company founded in 1987. It has a 780 m² production area where it designs, manufactures and sells locks, hinges, latches and various hardware for the assembly and setup of metal mechanical elements in the mobility industry (passenger and cargo vehicles) and the electric power industry.

- www.menbelltda.com
- NIT. 800011797-0

- Carrera 67 # 4B - 45
- Bogota, Cundinamarca



1. Production floor, product

Type of company: TIER 1

Number of employees: 48

Sales per industry: · Automotive 20% · Electronic 70% · Other industries 10%



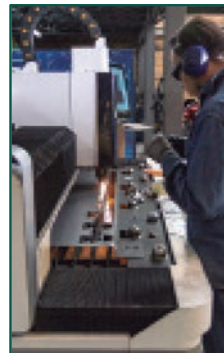
2. Production floor, hydraulic press



3. Production floor, CNC lathe - HYUNDAI - VX400



4. Production floor, Pinacho lathe



5. CNC lathe machining and assembly

Main clients



Automotive industry portfolio

- Hinges
 - Piano
 - Van groom
- Tension latches
- Locks
- Handles

Portfolio for other industries

- Hinges
- Locks
- Tension latches
- Accessories

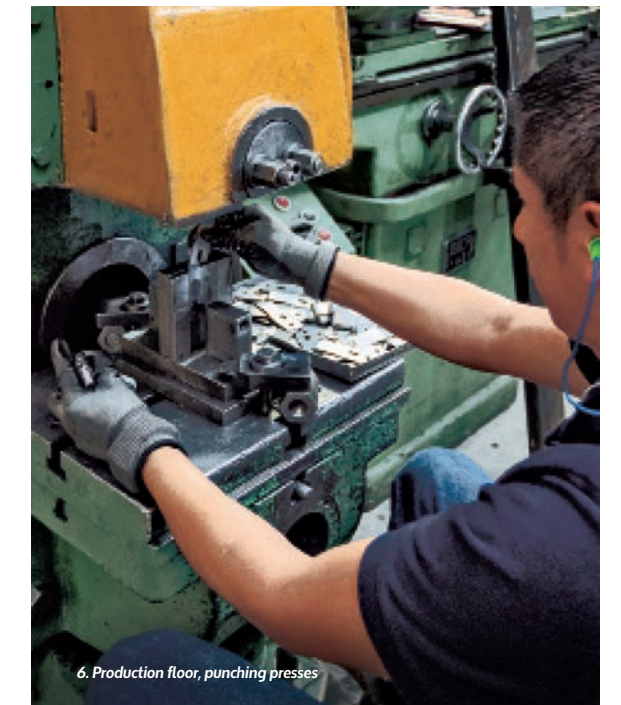
★ Key strength

Equipment

- 1 to 60 T punching presses
- 100 and 200 T hydraulic presses
- 1 kW laser cutter
- CNC lathe
- Machining center
- Conventional drills
- Milling machines
- Welding
 - MIG
 - TIG
- Punching machine
- Bending machine

Development capabilities

- Molds, dies and devices design
- Computer Aided Design (CAD)
 - SOLIDWORKS by Dassault Systèmes



6. Production floor, punching presses



Company founded in 1981, dedicated to the manufacture of complex and specialized mechanical systems. In its 6,000 m² production area, it manufactures a wide range of products, mainly for the automotive industry, with car seat rails being its main product.

- www.imetalicasjb.com
- Cra 128 # 15 B -18
- NIT. 860501846-4
- Bogota, Cundinamarca



1. Finished product

Type of company: TIER 1

Number of employees: 180

Sales per industry: Automotive 100%



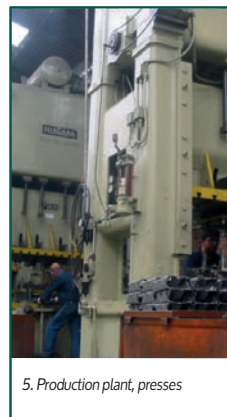
2. Measuring instrument, FARO arm



3. Metrology test (FARO)



4. Hydraulic press line, stamping train



5. Production plant, presses

Main clients



Certifications

- ISO 9001: 2015
- BIQS: GM
- IATF 16949: 2016
- ASES: RENAULT

★ Key strength

Automotive industry portfolio

- Fuel tanks (automobile, truck, buses)
- Crossmember (chassis, truck)
- Scissor jack
- Instrument panel bar
- Brackets
- Engine protector
- Thermal shields
- Car seat rails
- Pedals
- Hand brakes
- Structural components for automotive industry

Portfolio for other industries

- Motorcycle cargo trays mounts

Equipment

- Hydraulic presses with 150 to 1,000 T capacity
- Mechanical presses with 25 to 600 T capacity
- Sheet metal bending machines of 125 T
- Electric welding MIG
- Electric resistance welding
- Cross-seam, longitudinal and clamp welding
- Powder coating
- Polymerization furnace
- Shear cutting machines with a capacity of 1/8" to 1/4"
- CNC milling machine
- CNC lathes

Development capabilities

- Die-cutting design in general (cutting, stamping, punching and deep drawing)
- Design and manufacture of control, manufacturing and assembly devices
- Computer Aided Design (CAD)
 - Mechanical desktop by Autodesk
 - Autodesk Inventor
 - AutoCAD by Autodesk
- Computer Aided Manufacturing (CAM)
 - Mastercam by CNC

Laboratory capabilities

- 3D measuring arm (FARO)
- Verification of mass, length and pressure



6. Production plant, welding





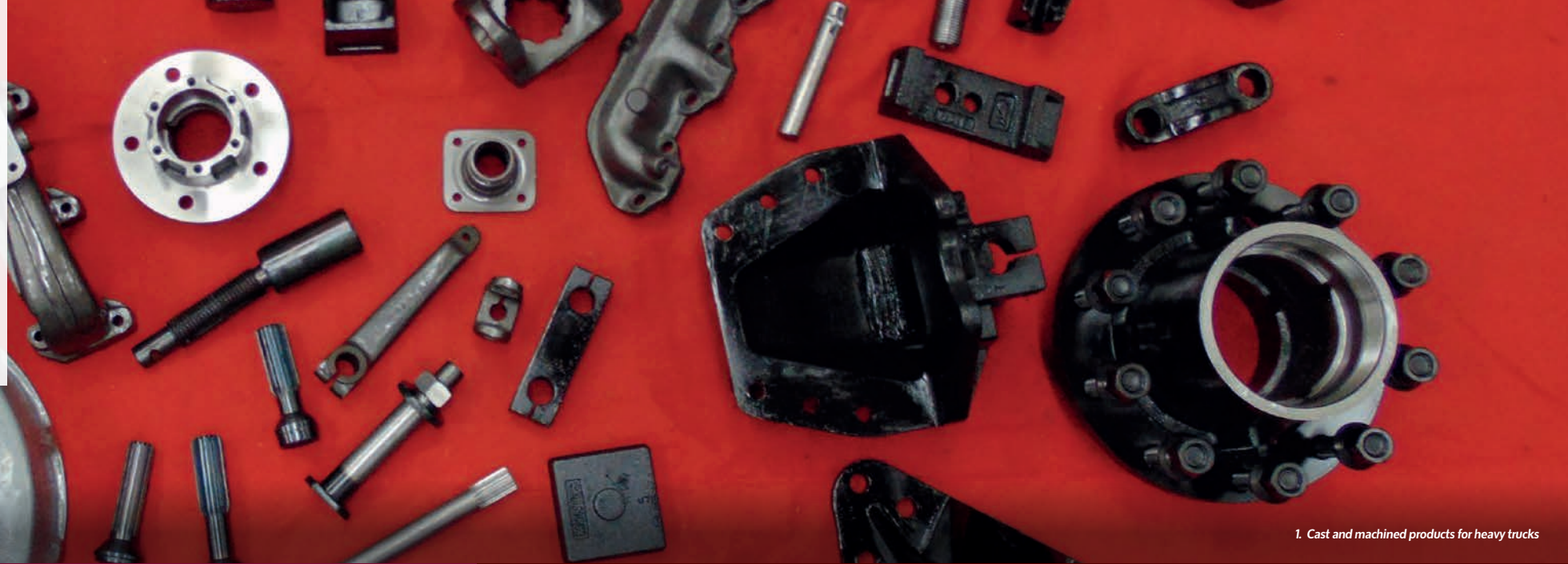
Industrias Montes

Calidad que brinda confianza

Industrias Montes

Founded in 1988, with a 1,500 m² plant, dedicated to the casting and machining of gray iron, nodular iron, steel and special alloys for various sectors such as auto parts, agricultural and industrial.

- www.industriasmontes.com
- Vía Panamericana 71 A - 110
- NIT. 800042725
- Manizales, Caldas



1. Cast and machined products for heavy trucks

Type of company: Aftermarket

Number of employees: 30

International presence: Ecuador

Sales per industry: · Automotive 80% · Industrial 10% · Agriculture 10%



2. Hub wheels



3. Hub wheels



4. Spare parts in Grey iron, ductile iron and Steel



5. Spare parts in Grey iron, ductile iron and Steel

Certifications

- ISO 9001: 2015

Automotive industry portfolio

- Hub wheels
- Truck hangers
- Trailer parts
- Speed shift and clutch parts
- Muncie and Chelsea Power take-off products

Portfolio for other industries

- Custom made products

Equipment

- Induction heating furnace
- Resin molding equipment
- Machining equipment

★ Key strength

Development capabilities

- Design software

Laboratory capabilities

- Dimensional metrology



6. CNC Machining





Industrias Phatra S.A.S.

Colombian company founded in 1991 with a production area of 540 m² that manufactures, distributes and markets electrical terminals for the automotive, industrial and electrical sectors.

- www.industriasphatra.com
- km 19 via Bogota - Parque Industrial San Jorge, Bodega 41
- Mosquera, Cundinamarca
- NIT. 900298597-9



1. Production plant, machining center

Type of company: Aftermarket

Number of employees: 23

Sales per industry: - Automotive 95% - Other industries 5%



2. Die cutting machine



3. Assembling



4. Manufacturing



5. Manufacturing

Main clients



Peláez Hermanos
Baterías y Auto partes



RAYCO
AUTOMOTRIZ
LÍDER EN PARTES ELÉCTRICAS Y ACCESORIOS



onelec.s.a.
CONEXIONES Y ACCESORIOS

★ Key strength

Automotive industry portfolio

- Electrical terminals
- Copper tube terminals
- Solenoid feed and output terminals
- Rubberized clamps
- Felt whaser
- Battery brackets
- Clamps and alligator clips
- Copper washers
- Automotive connectors
 - For fuel injectors
 - For alternators
 - For universal electrical connections
- Fuse holders
- Sockets

Portfolio for other industries

- Punch-down terminals

Equipment

- Machining center (CNC)
- Wire electrical discharge machine
- Lathe
- Packaging machine
- 1.5 mm to 6 mm diameter cable cutting machine
- 3 to 35 T punching presses
- Rotary table
- Electric cable crimper

Development capabilities

- Punching dies design and manufacturing
- Computer Aided Design (CAD)
 - SOLIDWORKS by Dassault Systèmes
 - Visualize by Dassault Systèmes
- Computer Aided Manufacturing (CAM)
 - Mastercam by CNC software



6. Excellent quality

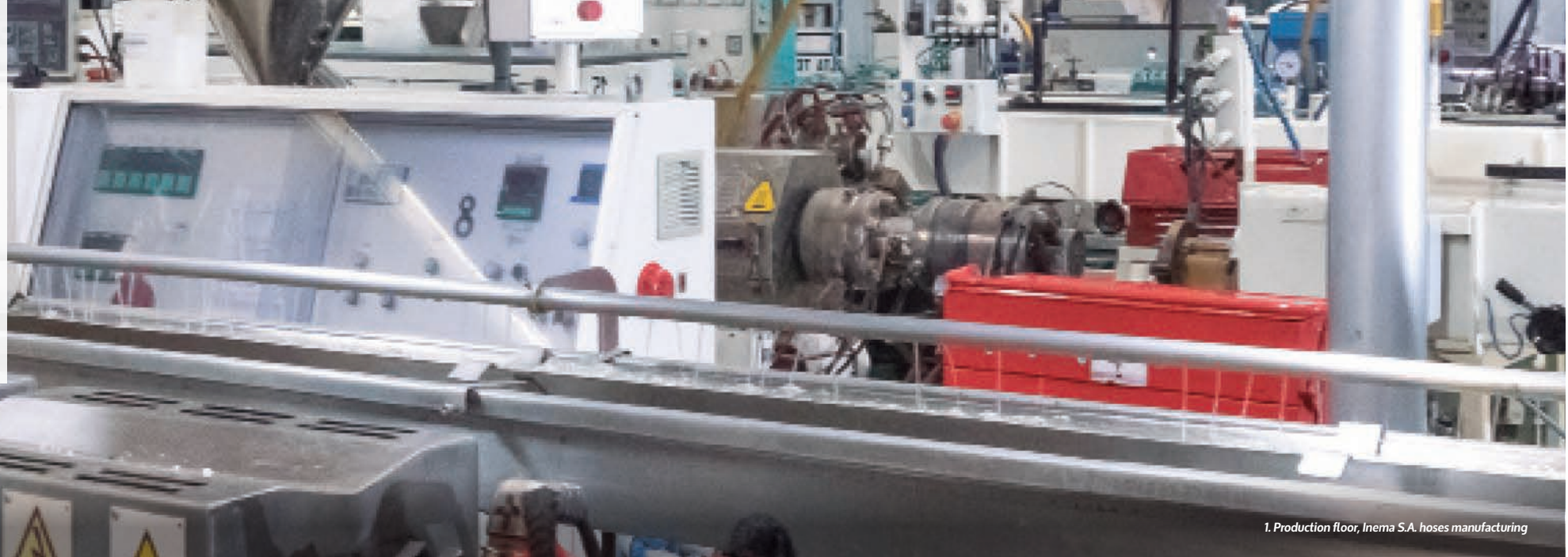




Inema S.A.

Company founded in 1968, dedicated to the extrusion of rigid and flexible plastic pipes and profiles, as well as the manufacture of flexible electrical resistances and other related products. It has a total area of 1,292.39 m².

- www.inema.com.co
- Transversal 113 C # 64C - 41
- NIT. 860025128-2
- Bogota, Cundinamarca



1. Production floor, Inema S.A. hoses manufacturing

Type of company: · TIER 1 · TIER 2

Number of employees: 48

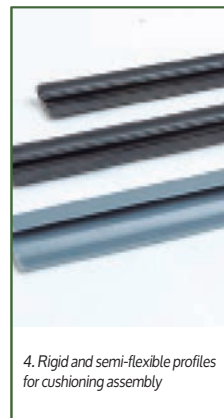
Sales per industry: · Automotive 26% · Other industries 74%



2. Handrail cover sleeves and plastic profiles



3. Handrail cover sleeves, profiles for cushioning, tubes for electrical harnesses cover



4. Rigid and semi-flexible profiles for cushioning assembly



5. Production floor, machines for profile manufacturing

Main clients



Certifications

- ISO 9001: 2015
- PREAD

Automotive industry portfolio

- Handrail cover sleeves
- Weld metal bars
- Plastic profiles (transition strips)
- Tubes and profiles for lighting
- Seat assembly profiles
- Coatings for electrical parts and wire ropes

Portfolio for other industries

- Synthetic material for furniture weaving
- Refrigeration and cosmetic industry electric heat cables
- Smooth and grooved medical probes and hoses
- Pipes, hoses and couplings for construction and agriculture
- Profiles for refrigeration systems and advertising
- Plastic straws
- Capillary tubes

Equipment

- Extrusion machines
- Shear cutting equipment
- Braiding machine
- Punching dies

★ Key strength

Development capabilities

- Personalized development and exclusive products according to the designs and needs of the clients
- Consulting and guidance

Laboratory capabilities

- Products certified according to customer requirements
- Flammability tests



6. Piping, hoses and profiles extrusion line





INORCA - Industrias Nortecaucanas S.A.S.

Company created in 1956. Original equipment manufacturer for complete seats and other metalmechanical and plastic auto parts. Supplier for vehicle and motorcycle brands. Additionally, the company designs and manufactures chairs for cinemas, auditoriums, the health sector, institutional furniture and collectivity furniture. It has 3 production plants located in Cauca and Antioquia with 15,500 m², 1,784 m² and 1,170 m² respectively.

- www.inorca.com
- Calle 18 # 118 – 85 Casa 54
Avenida Cañasgordas
- Cali, Valle del Cauca
- NIT. 891500202-1



1. Assembly

Type of company: · TIER 1 · TIER 2

Number of employees: 846

International presence: · North America · Central America · South America

· Europe · Asia

Sales per industry: · Automotive 40% · Other industries 60%



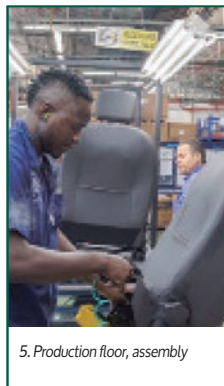
2. Finished product storage



3. Seat covers assembling



4. Metal mechanical production plant



5. Production floor, assembly

Main clients



Certifications

- IATF 16949: 2016
- OEA
- ISO 9001: 2015

Automotive industry portfolio

- Metalmechanical stamped parts and subassemblies for the automotive industry
 - Seat frames
 - Cross car beam/bar assembly IP TIE
- Car seat covers tailoring
- Gas assisted injection molding plastic parts
 - Car seat pockets
 - Brake line shield
 - Door trim
 - Wheel arches and fenders
- Metalmechanical stamped parts for motorcycles
 - Gear pedal
 - Brake pedal
 - Motorcycle centerstand
 - Motorcycle sidestand
 - Motorcycle crashbars
 - Motorcycle seats

Portfolio for other industries

- Cinema and auditorium chairs
- Institutional and collectivity furniture
- Hospital furniture

Equipment

- Machining center CNC
- CNC Sheet metal cutting machine
- CNC plasma cutting machine
- CNC cutting machine for tailoring (fabrics and vinyl fabrics)
- CNC pipe bending machine
- CNC bar bending machine

★ Key strength

- Foam injection machine
- 450 T and 1,150 T gas assisted plastic injection molding machines
- Sewing machines
- Powder coating
- CNC punching presses
- Hydraulic presses (200 to 500 T)
- MIG robotic welding
- Spot welding
- Mechanical punch presses (10 to 300 T)
- Sheet metal laser cutting machine
- Fabrics CNC cutting machine
- Durkopp Adler sewing machines
- Robotic MIG welding machine
- Torque calibration tools
- Electronic torque wrenches
- Production line tracking system

Development capabilities

- Research and development division for the cinema, auditorium and collectivity furniture lines
- Computer Aided Design (CAD) for product and tooling 3D modelling
 - AutoCAD by Autodesk
 - SOLIDWORKS by Dassault Systèmes
 - EDGECAM by Hexagon

Laboratory capabilities

- Chair cycling tests
- Romer stinger arm
- Metrology laboratory: functional testing





INTACA S.A.S

Company from Valle del Cauca, Colombia, which provides metalworking services for laser cutting, punching, high definition plasma with state-of-the-art technology.

- www.intaca.com.co
- Carrera 5 # 39-10
- NIT. 900461846
- Cali, Valle del Cauca



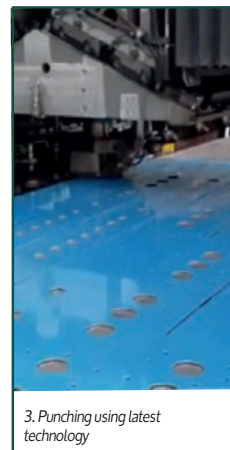
1. High precision laser cutting

Type of company: Lower tier Number of employees: 12

Sales per industry: · Automotive 26% · Other industries 74%



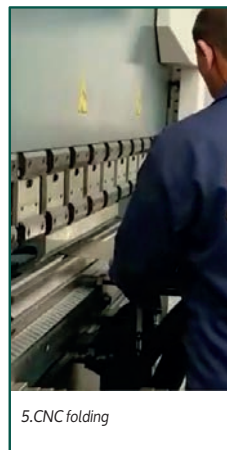
2. High precision laser cutting



3. Punching using latest technology



4. Quality Welding



5. CNC folding

Main clients



Automotive industry portfolio

- Sheet metal laser cutting services
- Sheet metal punching services

★ Key strength

Portfolio for other industries

- Sheet metal laser cutting services
- Sheet metal punching services
- Sheet metal bending services
- Welding services
- Design services for customized equipment solutions
- Body repair and maintenance services
- Pipeline repair and maintenance services

Equipment

- TRUMPF 3030 laser
- TRUMPF TruPunch 1,000 punching machine
- Ermaksan Bender
- Durma Bender

Development capabilities

- Specialized software for the development and manufacture of metal parts
- TruTops Boost by TRUMPF



6. Custom developments

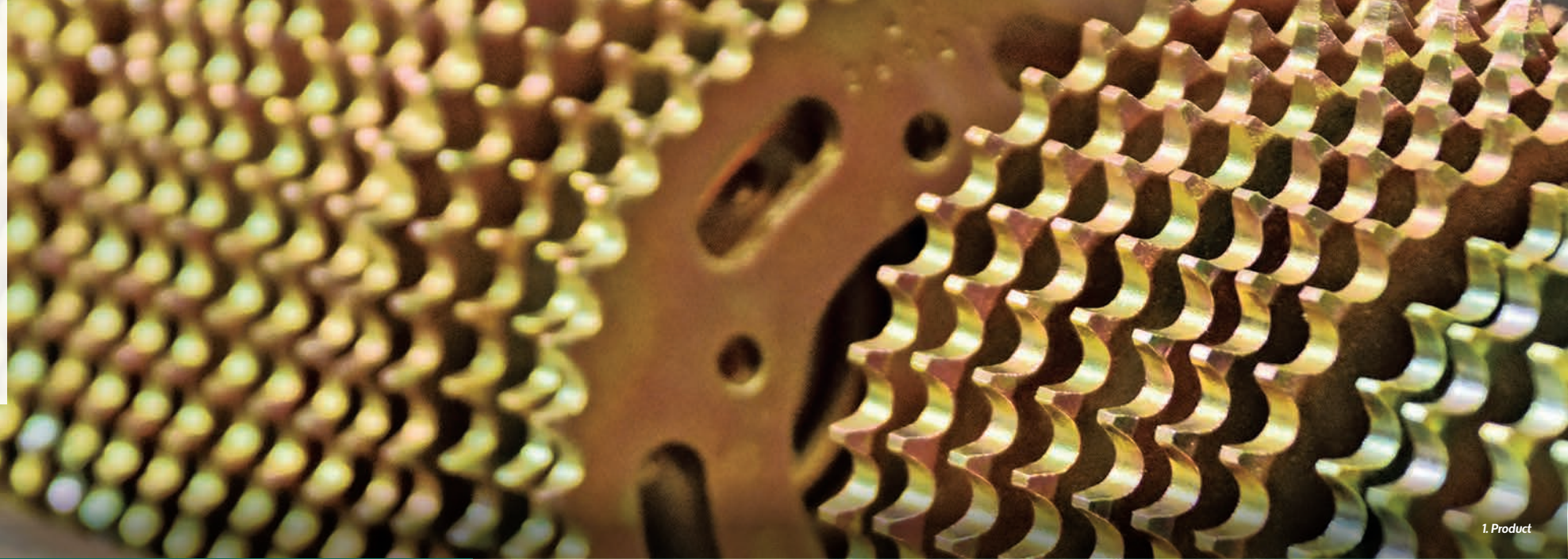




Integrando S.A.S.

Company of the metal mechanical sector established in 1984. It has a total area of 10,000 m² where it manufactures sprockets, chassis components and minor motorcycles parts for aftermarket and original equipment for the main motorcycle assembly plants in Colombia.

- www.integrandocnc.com
- Avenida 30 de agosto # 109 - 51
- NIT. 891411213-9
- Pereira, Risaralda



1. Product

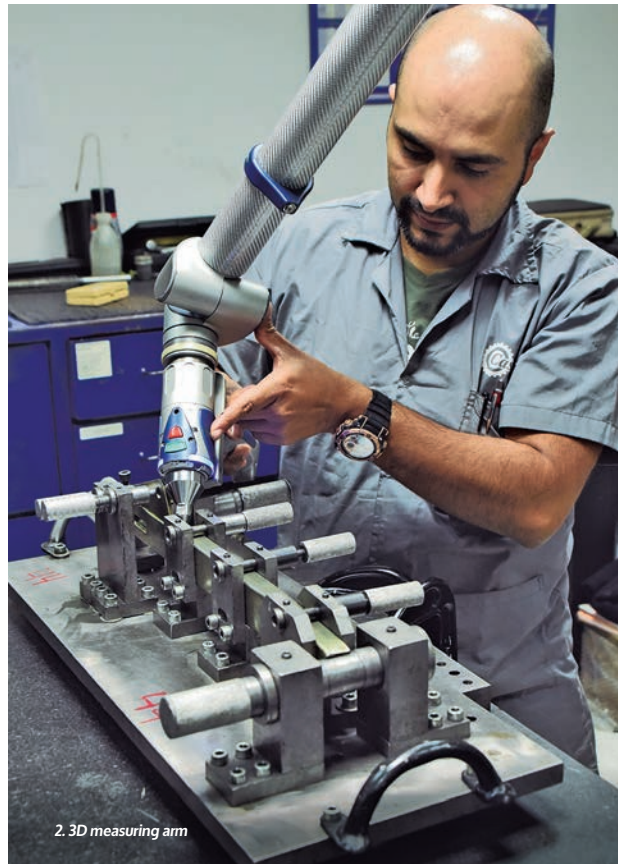


Type of company: TIER 1

Number of employees: 363

International presence: · Guatemala · Ecuador · Chile

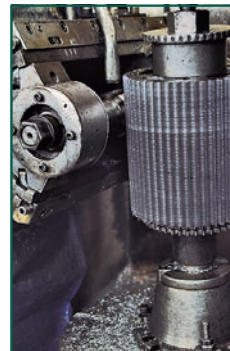
Sales per industry: Automotive 100%



2. 3D measuring arm



3. Production floor



4. Production floor



5. Production floor

Main clients



Certifications

- ISO 9001: 2015

★ Key strength

Automotive industry portfolio

- Front pinions
- Rear pinions
- Chains
- Motor mounts
- Steering heads
- Handlebar clamps
- Saddle brackets
- Saddle supports
- Central and side stands
- Handlebars
- Grills
- Footrests
- License plate brackets
- Brake and shift pedal levers

Equipment

- Punch presses with a capacity of 60 to 250 T
- Hydraulic presses with a capacity of 100 to 700 T
- MIG welding robot
- CNC machining centers with a capacity of up to 3 T and a working area of 1,500 x 3,000 mm
- Powder coating
- Surface treatment: galvanized
- Induction furnace

Development capabilities

- Design and manufacturing of molds and dies
- Engineering services
- Design software
 - Mastercam by CNC
 - AutoCAD by Autodesk
 - EDGECAM by Hexagon
 - SOLIDWORKS by Dassault Systèmes

Laboratory capabilities

- Metrology laboratory
- Dimensional analysis
- Functional tests
- Dimensional calibrations and evaluations with 3D measuring FARO arm



6. Product



Company founded in 2006 that has a total area of 4,005 m². It is dedicated to the injection of thermoplastics and coatings for the automotive, motorcycle and home appliances industries.

- www.iprocom.co
- NIT. 900112766-9
- km 25 Autopista Norte, Parque Industrial del Norte Bodega 122
- Girardota, Antioquia



1. Paint line

Type of company: TIER 2

Number of employees: 128

International presence: · Peru · Ecuador · Mexico

Sales per industry: · Automotive 20% · White line 80%



2. Paint line, high gloss



3. Finished product



4. Paint line, polishing



5. Production floor, paint line, final inspection

Main clients



Certifications

- IATF 16949: 2016
- ISO 14001: 2015
- ISO 9001: 2015
- OHSAS 18001: 2007

★ Key strength

Automotive industry portfolio

- Liquid paint coating for plastic parts

Portfolio for other industries

- Plastic parts injection molding
- Water transfer printing process for plastic parts

Equipment

- Thermoplastic mold injector with 50 to 550 T clamping force and a capacity of up to 3,600 g
- 2 Paint spray booths
- Water transfer printing machine
- Hot plate welding machine
- Pad printing machine

Development capabilities

- Product design and development
- Computer Aided Design (CAD)
 - SOLIDWORKS by Dassault Systèmes

Laboratory capabilities

- Coating testing
 - Adherence
 - Hardness
 - Hue (spectrophotometer)
 - Thickness gauge
 - Chemical physical analysis
 - Light chamber
 - Muffle furnace



6. Paint spray booth





Company founded in 1998 with a total area of 2,000 m², dedicated to the manufacturing of accessories, as well as motorcycle and automotive components.

- www.kingaluminum.co
- Carrera 36 # 54 - 16
- NIT. 900339055-6
- Medellín, Antioquia



1. CNC plasma cutting

Type of company: · Aftermarket · TIER 1

Number of employees: 26

International presence: Mexico

Sales per industry: · Automotive 90% · Other industries 10%



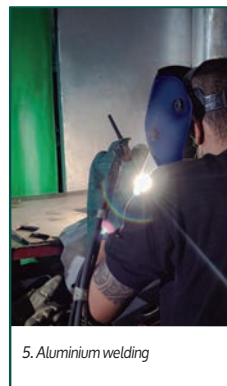
2. Aluminium MIG welding



3. Lathe



4. Crotch shield assembly



5. Aluminium welding

Main clients



Automotive industry portfolio

- Hitch carriers
- Crotch protectors
- Motorcycle hitch carrier
- Bike racks
- Trailers
- Motorcycle touring type bags
- Motorcycle crotch protectors
- Sliders
- Fairing protectors
- Motorcycle hardware
- Motorcycle engine spoilers
- Motorcycle saddlebags
- Motorcycle cargo trays

Portfolio for other industries

- Traffic sign stands

Equipment

- CNC plasma cutting
- Sheet metal bending machines
- Welding
 - MIG
 - TIG
- Powder coating line
- Lathes
- Milling machines
- Pipe bending machines

★ Key strength

Development capabilities

- Design custom services for motorcycle and vehicle accessories
- Computer Aided Design (CAD)
 - Mastercam by CNC
 - SOLIDWORKS by Dassault Systèmes

Laboratory capabilities

- Functional tests



6. Bending process





LAGZ Guías y Repuestos S.A.S

Manufacturer of engine valve guides, block plugs, plastigate and centrifuged bushings. In 1965 it began manufacturing auto parts and has been present in more than 10 countries in the Americas, leading the Colombian, and Ecuadorian markets.

- www.guialagz.com
- Calle 68 # 7C-80
- NIT. 800053605
- Cali, Colombia



1. Production plant

Type of company: Aftermarket

Number of employees: 70

International presence: · Costa Rica · Ecuador · Panama

Sales per industry: Automotive 100%



2. Products



3. Plastic gauge



4. Representative packaging of the LAGZ brand



5. Leader in the manufacture of engine valve guides in Colombia

Main clients



★ Key strength

Automotive industry portfolio

- LAGZ engine valve guides, applied in automobile and motorcycle engines, operated with gasoline, diesel and natural gas vehicles
- LAGZ plastigauge, manufactured with high quality materials
- LAGZ brand engine block and cylinder head plugs, manufactured from bronze sheet
- Centrifugally spun bushings used for the manufacture of engine liners, valve seats, marine applications and parts for general industry spare parts

- Reverse Engineering
- Machining of different types of materials and dimensions
- Re-engineering of machines, equipment and industrial processes

Laboratory capabilities

- Metrology Laboratory
- Dimensional testing
- Functional testing
- Research and design equipment

Portfolio for other industries

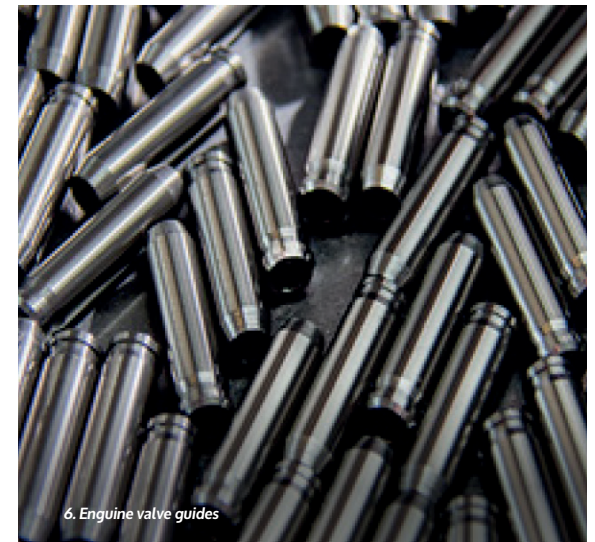
- Agro-industrial applications
- Naval Applications
- Petroleum applications

Equipment

- Valve guide manufacturing line with a capacity of 12,000 units per day
- Automated perforation production centers
- Automatic peeling machines
- High precision Rimming machines
- Horizontal grinding machines for exterior finishing

Development capabilities

- Computer Aided Design (CAD)
 - Autodesk AutoCAD
- Manufacturing engineering, new production line development qualities



6. Engine valve guides





Madeal S.A. - Manufacturas de Aluminio S.A.

Company founded in 1988, dedicated to the manufacturing and marketing of aluminium wheels for the automotive industry on a total area of 27,000 m².

- www.madeal.com.co
- NIT. 800051838-5
- km 10 via al Magdalena
- Manizales, Caldas

1. Finished product for OEM

Type of company: TIER 1

Number of employees: 350

International presence: · United States · Ecuador · Brazil · Argentina · Guatemala

· Venezuela

Sales per industry: Automotive 100%



2. Finished product for OEM (two-tone wheel)



3. Quality process, measurement with CMM



4. Motorcycle wheels line, manufacturing of internal groove



5. Finished product, 22.5" wheel for tractor unit

Main clients



Certifications

- IATF 16949: 2016
- ISO 14001: 2015

Automotive industry portfolio

- Aluminium wheels for cars and motorcycles

Equipment

- Aluminium injection molding machine with a capacity of 12" to 22.5" in diameter
- CNC machining center
- Melting furnace with a capacity of 6 T
- Powder coating and liquid painting lines
- Surface pre-treatment equipment
- Heat treatment furnaces

★ Key strength

Development capabilities

- Design and manufacturing of molds and dies
- Design software
 - NX by Siemens
 - CATIA by Dassault Systèmes
 - SOLIDWORKS by Dassault Systèmes
 - ANSYS

Laboratory capabilities

- Fluoroscopy testing
- Radiographic testing
- Metrology laboratory
 - Dimensional control
 - Coordinate Measuring Machine (CMM)
- Destructive testing
 - Impact testing
 - Radial fatigue test
 - Paint adhesion testing
 - Saline chamber test
- Mechanical testing
- Spectrometry testing



6. Machining process, two-tone wheel diamond cutting



Company founded in 2020, with a production plant of 200 m². It specializes in the manufacturing of premium quality tie rod ends for lightweight vehicles. It supplies aftermarket parts under the registered brand FIKXER.

- www.manofakto.com
- Carrera 118 # 86-35
- NIT. 901421590
- Bogota, Cundinamarca

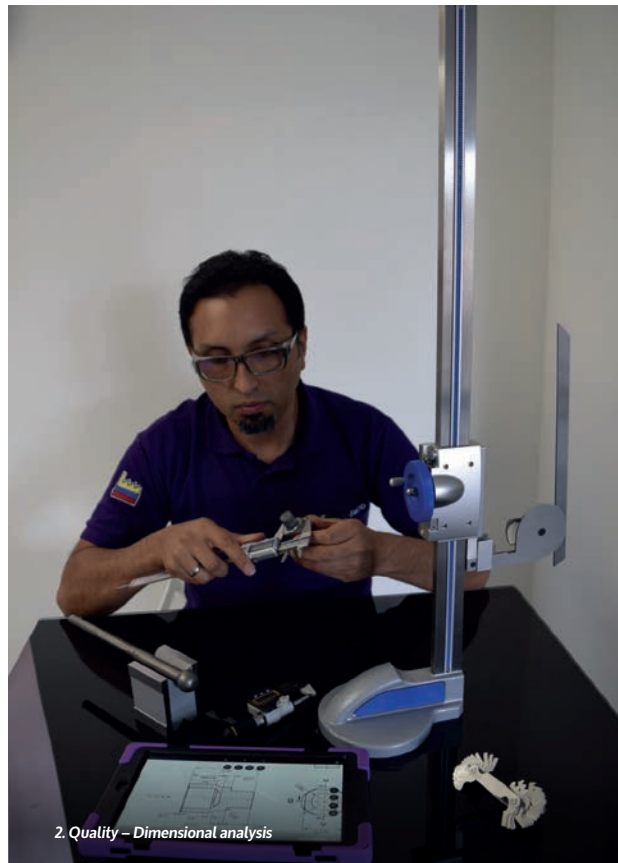


1. Product – Assembly and components

Type of company: Aftermarket

Number of employees: 5

Sales per industry: Automotive 100%



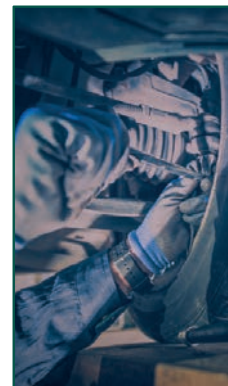
2. Quality – Dimensional analysis



3. Production – Dimensional analysis



4. Production – Thread rolling machine



5. Installation of finished products

Main clients



Automotive industry portfolio

- Tie Rod Ends
- Specialized parts manufactured by metalworking processes, following client requirements

Portfolio for other industries

- Specialized parts and components, manufactured by metalworking processes, following the client requirements
- Design and manufacturing of specialized equipments and machinery with electromechanical and pneumatic systems

Equipment

- CNC lathe
- Lathe
- 60 T Hydraulic Press
- Bench Drilling and Milling Machine
- Thread Rolling Machine
- MIG Welding Machine

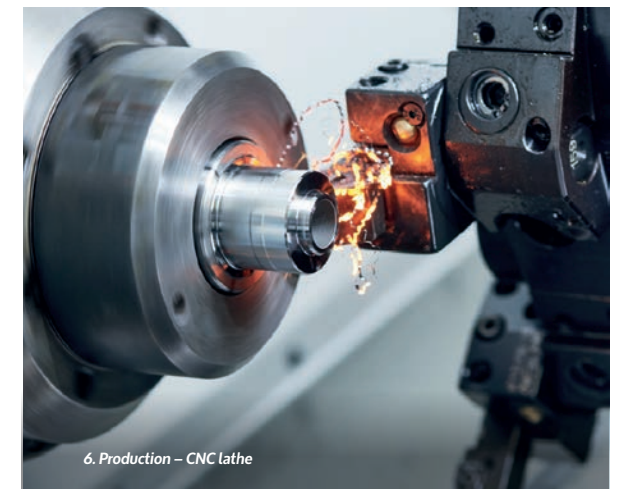
Laboratory capabilities

- Metrology Laboratory
- Height Gage 0-600±0,01mm
- Micrometers ±0.001mm
- Refractometer BRIX 0 - 18%
- Universal Bevel Protractor ±5'
- Electronic Torque Wrench 0 - 50 ±0.01 lb-in

★ Key strength

Development capabilities

- Reverse Engineering
- Product Development under APQP methodology and Core Tools use FMEA, SPC, MSA and PPAP
- Computer Aided Design (CAD)
 - FUSION 360 DESIGN by Autodesk
- Computer Aided Engineering (CAE)
 - FUSION 360 SIMULATION by Autodesk
- Computer Aided Manufacturing (CAM)
 - FUSION 360 MANUFACTURE by Autodesk



6. Production – CNC lathe





MAR 10 S.A.S.

Marine company founded in 2009, dedicated to the design and manufacture of commercial, passenger and military fiberglass boats. It has 1,500 m² of production area with capacity to manufacture 200 boats per year.

- www.grupomar.co
- Avenida 6 # 45 norte - 50
- NIT. 900284069
- Cali, Valle del Cauca



1. Design process and final product

Type of company: OEM

Number of employees: 20

International presence: · Peru · Brazil

Sales per industry: Boats and marine vessels 100%



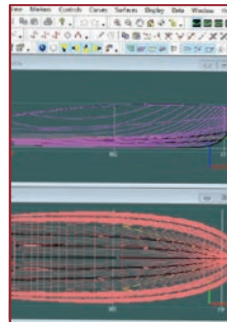
2. Sculpting process on a CNC machine



3. Military vessel



4. Commercial vessel



5. Naval engineering in specialized software

Main clients



Certifications

- ABYC

Portfolio for other industries

- Commercial, passenger and military fiberglass boats
- Outboard engines
- Marine, nautical and fishing accessories

Equipment

- CNC Machine
- 3D Printer
- Boatyard
- Naval Workshop

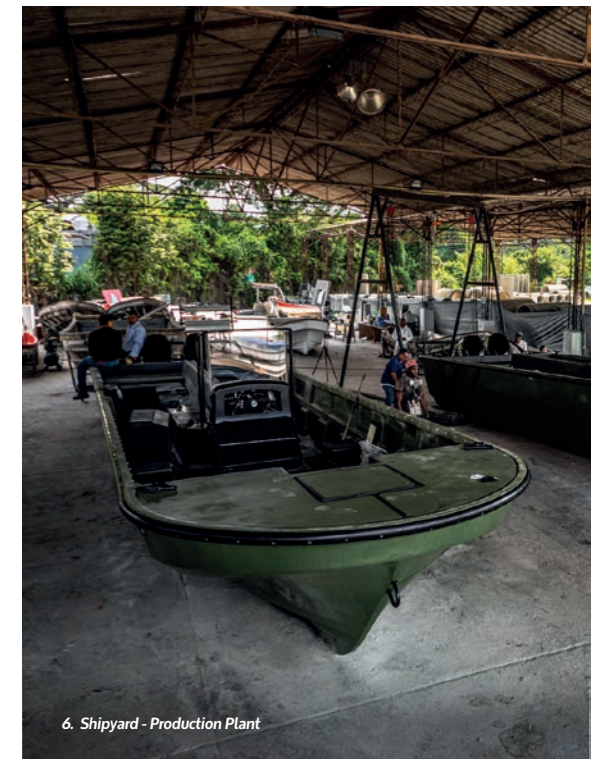
★ Key strength

Development capabilities

- Design, engineering (structural calculations and naval performance prediction) and manufacturing of fiberglass boats
- Computer Aided Design (CAD)
 - Rhinoceros
 - Maxsurf
 - Orca3D
 - Autocad
 - Autodesk Inventor
- 3D Prototyping with Ultimaker Cura software
- CNC sculpting for mold development
- Computer Aided Manufacturing (CAM)
 - NX12.0 SIEMENS
 - MasterCam

Laboratory capabilities

- Universal machine for tension tests



6. Shipyard - Production Plant

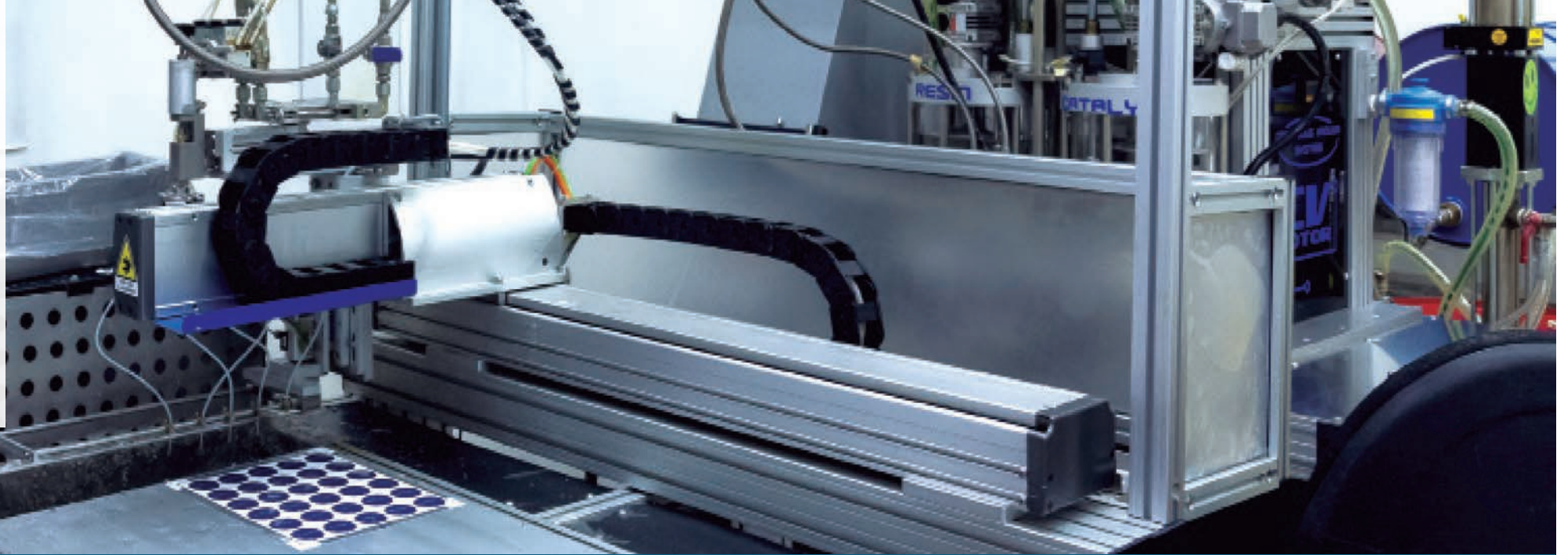




Marcazeta S.A.S.

Company founded in 1984, dedicated to image design and production for the automotive, commercial and home appliances industries. It has a total area of 3,000 m² where it produces high performance adhesives and emblems through digital printing processes, ultraviolet screen-printing, laser, cromex and domed labels.

- www.marcazeta.com
- Carrera 43F # 14 - 77
- NIT. 800006854-2
- Medellín, Antioquia



Type of company: TIER 1

Number of employees: 105

Sales per industry: · Automotive 80% · Advertising 20%



Main clients



Certifications

- ISO 9001: 2015

★ Key strength

Automotive industry portfolio

- High performance adhesives
- Emblems
 - Domed label
 - Kromex
 - Laser

Portfolio for other industries

- POP marketing material
 - Digital printing
 - Ultraviolet screen-printing
 - Gigantography

Equipment

- Large format digital printing
- Thermal printing
- Cromex
- Screen-printing
- Laser cutting on synthetic and metallic materials

Development capabilities

- Computer Aided Design (CAD)
 - Adobe Illustrator
 - Adobe Photoshop
 - CorelDRAW
 - Rhinoceros 3D by Robert McNeel & Associates

Laboratory capabilities

- Resistance tests
- Ink adhesion tests
- Adhesion tests





Matromol S.A.S.

Company founded in 1982 with a total area of 3,300 m². It manufactures lamps, stop lights, luxuries, accessories and plastic parts for motor vehicles. Plastic injection services are also provided.

- www.matromol.com
- Carrera 72 # 57R - 61 Sur
- NIT. 860508098-3
- Bogota, Cundinamarca



1. Drums area

Type of company: · Aftermarket · TIER 1

Number of employees: 25

International presence: Ecuador

Sales per industry: Automotrive 100%



2. Assembly area, punch down



3. Assembly area and product verification



4. Manufactured products



5. Die punching area

Main clients



Certifications

- ISO 9001: 2015

★ Key strength

Automotive industry portfolio

- Lamps
 - Stop lights (brake lights)
 - Head lamps
 - Signal lights (turn signals or blinkers)
 - Car interior lamps
 - Registration plate lamps
 - Central high mountet stop lights (CHMSL)
- Automotive plastic injected components
 - ABS sensor holders
 - Battery support tray
 - Wheel arches
- Plastic components for bus bodyworks
 - Emergency exit hammers
 - Window stops
 - Bus doorhandles
 - Door guides
 - Bus holding bar attachments
 - Bus stop buttons
- Emergency warning triangles

Portfolio for other industries

- Plastic injection services for all industries

Equipment

- Injection molding machines with 80 g to 1,500 g injection capacity and 85 to 450 T clamping force
- Material pre-dryers
- Desuperheaters
- Pneumatic screwdriver
- Spot welding
- Cable cutter and punch down tool
- Punching presses with 5 to 30 T
- 2,500 MHz ultrasound welding
- Hot-plate welding
- Poka-yoke devices
- Chiller
- Cooling tower
- Compressor

Development capabilities

- Mold development
- Computer Aided Design (CAD)
 - SOLIDWORKS by Dassault Systèmes
- Computer Aided Manufacturing (CAM)
 - Mastercam by CNC software

Laboratory capabilities

- Functional testing
 - Vibration table
 - Headlamp test

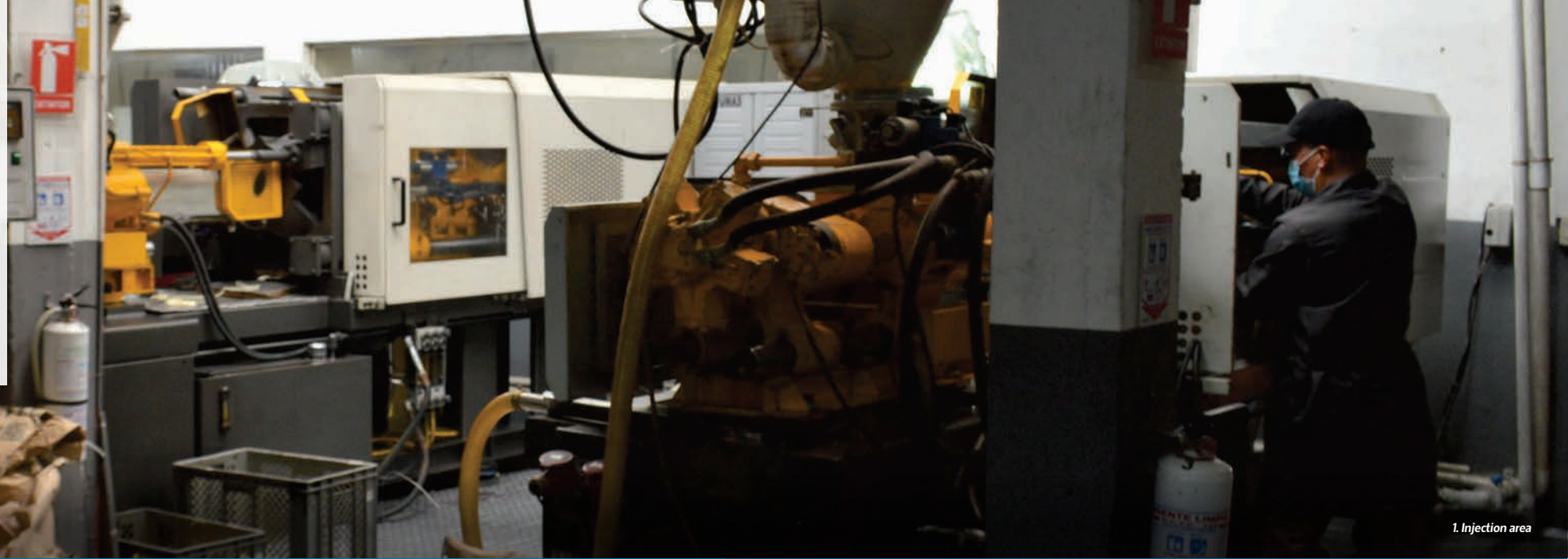




Mazdel

Company specialized in brand design, founded in 1984, with a production area of 2,400 m² where it manufactures plastic emblems, decals, hubcaps, stickers, banners, among others.

- www.mazdel.com
- Calle 5A # 19A - 36
- NIT. 830143020-2
- Bogota, Cundinamarca



1. Injection area



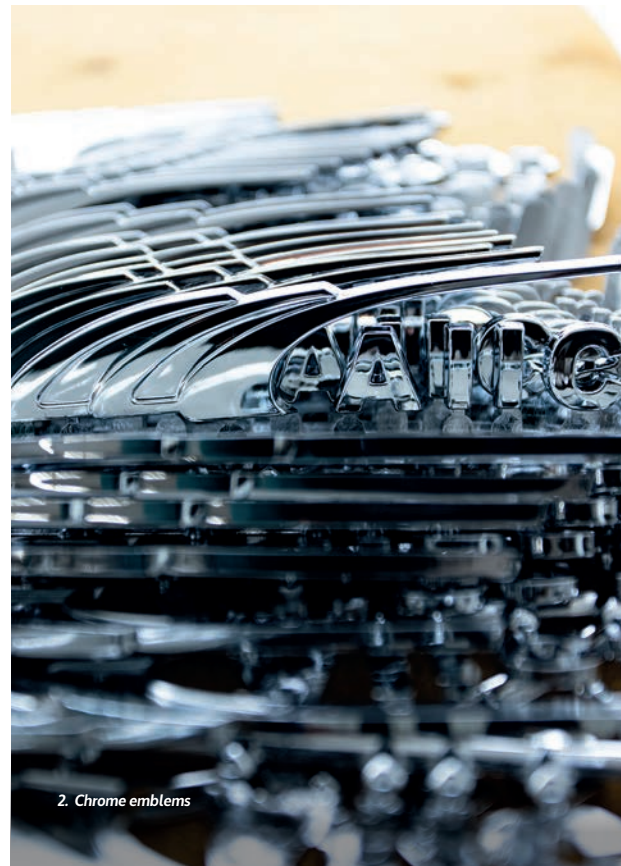
Type of company: · Aftermarket · TIER 1

Number of employees: 84

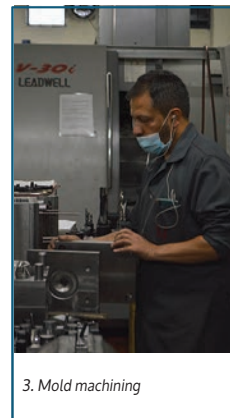
International presence: · United States · Peru · Ecuador · Costa Rica

· Panama · Malaysia

Sales per industry: · Automotive 55% · Advertising 45%



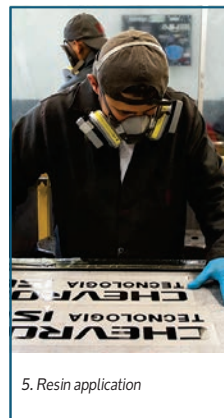
2. Chrome emblems



3. Mold machining



4. Painting



5. Resin application

Main clients



Certifications

- IATF 16949: 2016

Automotive industry portfolio

- Plastic emblems
- Hubcaps
- Decals

Portfolio for other industries

- Advertising announcements
- Faucets finishes
- Home appliances emblems

★ Key strength

Equipment

- 90 to 160 T injection molding machines
- Chrome-plating plant for ABS plastic parts with a capacity of 180,000 dm²
- UV printing and cutting plotter
- Screen printing process
- Machines for resin domed applications
- Ecodom process for automotive components and fabrics
- Kromex process
- Punching presses
- Laser cutting machines
- Polyurethane, polyester and enamel paint process

Development capabilities

- Development and manufacturing of injection molds
- Computational tools
 - Mastercam by CNC software
 - SOLIDWORKS by Dassault Systèmes
 - Autodesk ArtCAM
 - Adobe Suite
 - CorelDRAW

Laboratory capabilities

- Funcional testing
- Longitudinal analysis



6. Domes emblems

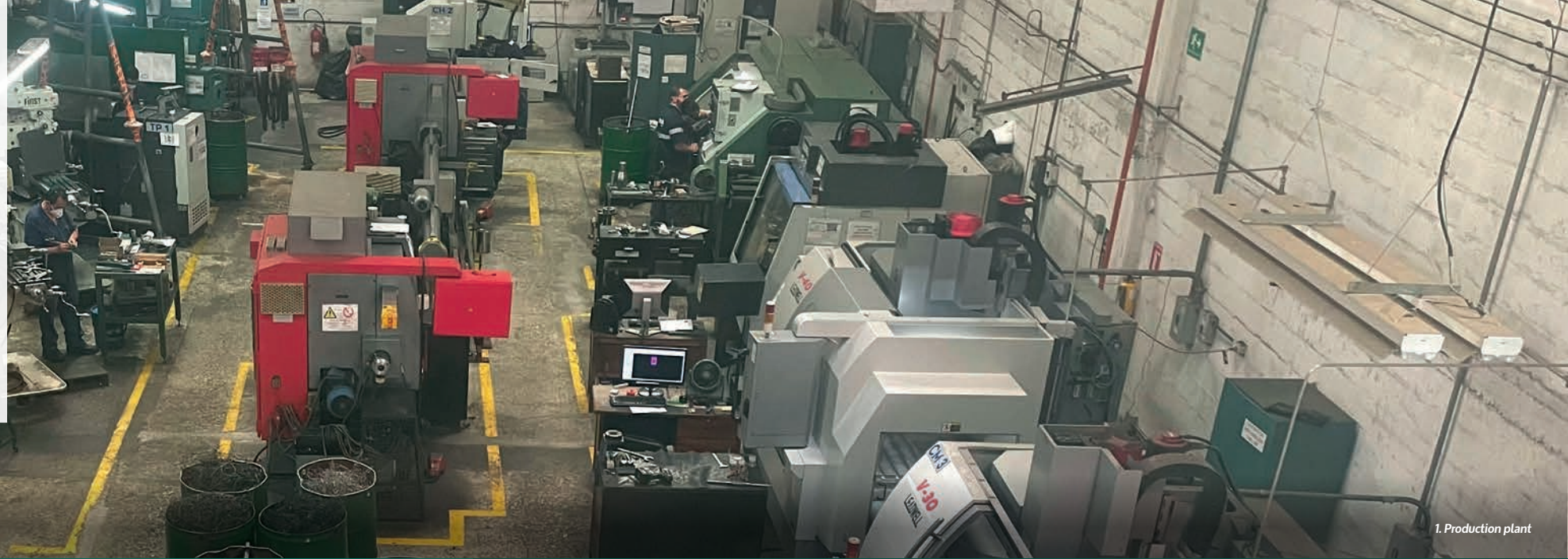


Mecánica Sistematizada

Mecanica Sistematizada S.A.S.

Company founded in 1993, dedicated to serving the industrial sector, guaranteeing quality, delivery times, safety and social responsibility. Leaders in the manufacture and repair of mechanical parts, dies, molds, assembly devices, tooling and machinery in general.

- www.mecanicasistematizada.com
- Carrera 48 A # 67 sur 27
- NIT. 811003040
- Sabaneta, Antioquia



1. Production plant

Type of company: Lower tier Number of employees: 23

International presence: · United States · Mexico

Sales per industry: · Automotive 10% · Mining 30% · White line 10% · Oil industry 10% · Other industries 40%



2. Die for bending



3. Coordinates and measurement



4. CNC machinery



5. Mold

Main clients



Automotive industry portfolio

- Mechanical spares
- Dies
- Molds
- Jigs
- Tools

★ Aspecto destacado

Portfolio for other industries

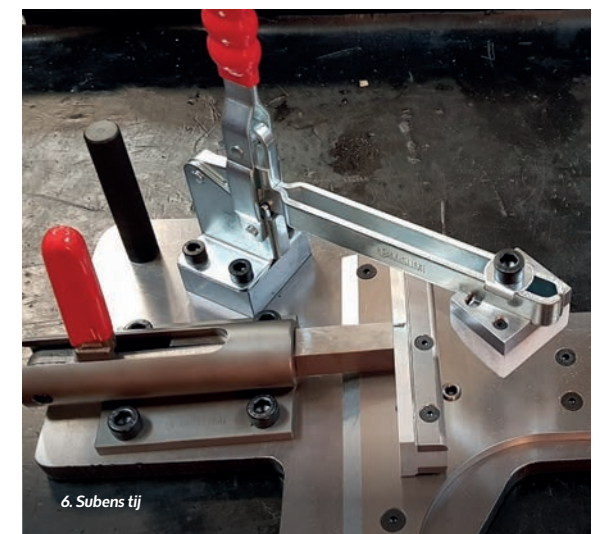
- Mechanical spares
- Dies
- Molds
- Jigs
- Tools

Equipment

- CNC Machining Center: 1,020 x 510 x 510 mm
- EDM Wire Cutting Machines: 400 x 300 x 400 mm
- CNC lathes: diameter 750 mm, length 1,000 mm
- Surface Grinding Machine: 1,000 x 300 x 250 mm
- Micro Drilling Machine: 400 x 190 x 350 mm, diameter (min - max) = 0.3 - 3 mm
- Milling Machines: 1,000 x 500 x 500 mm
- Lathes: diameter 850 mm, length 2,000 mm

Laboratory capabilities

- CMM Coordinate Measurement Center
- Profile Projector
- Durometer
- Micrometers
- Calipers
- Depth Gauges
- Hole Gauges
- Goniometers
- Gauges , Squares



6. Subens tij





MET GROUP S.A.S.

Company founded in 2000, specialized in the integration of technologies for passenger and cargo transport vehicles, as well as in the development of electronic and metal-mechanical products for the transport sector in general. It has 18,000 m², with a constructed area of 4,833 m².

- www.metgroupsas.com
- km 1,4 via Cerritos - Pereira
- NIT. 816004942-1
- Pereira, Risaralda



1. Video surveillance system

Type of company: · Bus body builder · TIER 1

Number of employees: 125

International presence: Mexico

Sales per industry: Automotive 100%



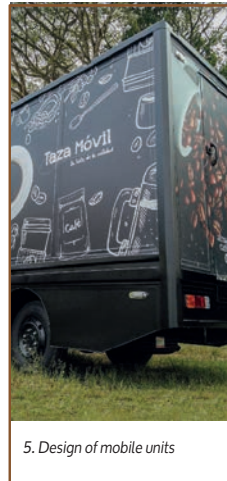
2. CNC Machines



3. Artificial intelligence camera



4. Electronics laboratory



5. Design of mobile units

Main clients



Certifications

- ISO 9001: 2015

Automotive industry portfolio

- Intelligent transport systems
- Computers, cameras, displays and sensors for vehicles
- Telemetry
- Design of special mobile units
- Adaptation of passenger and cargo vans
- Bus Stop Led Display
- Seating for passenger and cargo vehicles

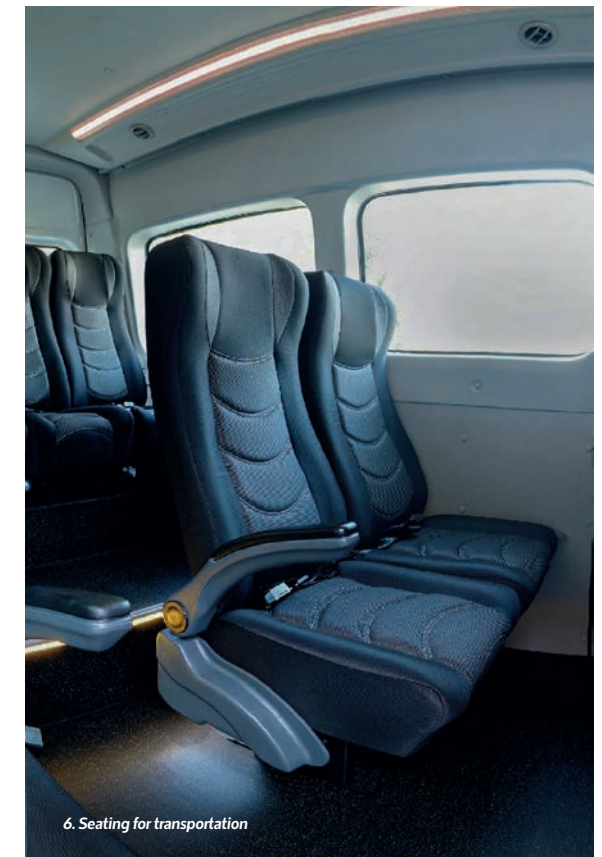
Equipment

- Robotic welding cell
- AWS certified welding equipment
- CNC bending machine
- CNC folder
- CNC shear
- Pick and place

★ Key strength

Development capabilities

- Design and manufacture of mobile units on various types: Bus, van, van or trailer (Offices, classrooms, clinics)
- Implementation of technological systems for security and information disclosure in passenger and cargo vehicles (STS - STDI)



6. Seating for transportation





METAL SERVICIOS
INGENIERIA METALMECANICA

Metal Servicios S.A.S.

Company established in 1987. In its 720 m² plant the business is dedicated to the design, production, manufacturing and marketing of components for the automotive and telecommunications industries. It also provides installations services for civil and industrial engineering projects. It has high-tech equipment for the manufacturing and processing of different metals.

- www.metalservicios.co
- Calle 64G #92 - 61
- NIT. 900978165-9
- Bogota, Cundinamarca



1. Drilling process

Type of company: · Aftermarket · TIER 1

Number of employees: 21

Sales per industry: · Automotive 90% · Telecommunications 10%



2. Drilling process



3. Drilling process



4. Milling machine



5. Products

Main clients



Automotive industry portfolio

- Bus handrail fixing brackets
- Commercial vehicle CNG tank brackets
- Bus luggage storage side-door mechanisms
- Release mechanisms
 - Emergency windows
 - Skylights
- Windshield wipers mechanisms
- Bus holding bars
 - Encapsulated
 - Stainless steel
 - Powder coating
- Bus door opening systems
 - Brackets and guides
 - Ball joints
 - Side door closing mechanisms

Portfolio for other industries

- Electric grid lines hardware
- Satellite TV amplifier fastening hardware
- Metallic structures for construction works

- CNC lathe of 480 mm, up to 300 mm diameter and 300 mm length
- Parallel lathes
- Rotary lathes
- Milling machines
- Punching machine of up to 55 T
- Notching machine for up to caliber 14
- Welding
 - MIG
 - TIG
 - Shielded metal arc
- Powder coating

Development capabilities

- Computer Aided Design (CAD)
 - AutoCAD by Autodesk

★ Key strength

Equipment

- CN bending machine for up to 3 m in length and 5/16" material thickness
- CN cutting machine for up to 3 m in length and 5/16" material thickness



6. Productive process





METALEX S.A.S

Company founded in 1986, dedicated to the specialized foundry of materials such as stainless steels, nodular irons, carbon steels, special steels, gray and cast irons. It has 900 m² of production area and specializes in centrifugal casting process with clients in South and Central America.

• www.metalexsas.com
• NIT. 891304711

• Calle 68A # 7C - 109 - 125
• Cali, Valle del Cauca



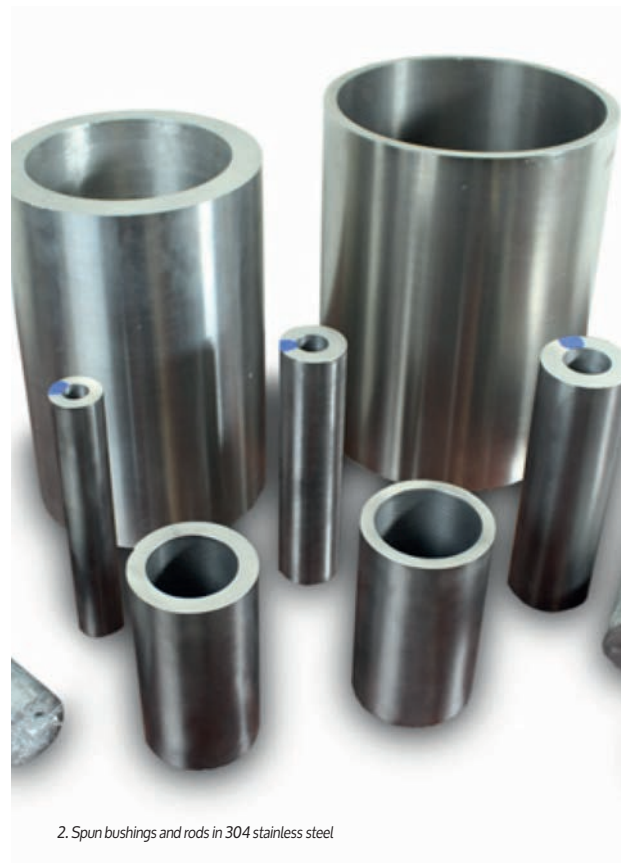
1. Electric induction furnace

Type of company: Aftermarket

Number of employees: 20

International presence: · Costa Rica · Ecuador · Panama · Peru

Sales per industry: · Automotive 90% · Other industries 10%



2. Spun bushings and rods in 304 stainless steel



3. Bruker ION Q2 mass spectrometer



4. Digital durometer



5. 316 stainless steel impeller

Main clients



Automotive industry portfolio

- Centrifuged bushings
 - In different dimensions and materials such as: stainless steel, nodular iron, carbon steels, Ni-hard, cast iron, among others
- High performance bushings in cast iron
 - Used to make valve seats for internal combustion engines. Manufactured in special cast iron with chromium and molybdenum, under the ASTM A-48 class 40 standard
- Rod in special cast iron alloys
 - mainly used for the elaboration of valve guides for engines. Manufactured under the SAE J1682 standard in materials for internal combustion engines powered by gasoline and vehicular natural gas

Portfolio for other industries

- Casting of products with certified chemical composition in weights between 10 and 500 kilograms, complying international standards ASTM, SAE or the one required according to applicability in the following materials:
 - Stainless steels
 - Carbon steels
 - Nodular pearlitic and ferritic irons
 - Ni - Hard Irons
 - Cast irons
 - White irons

★ Key strength

Equipment

- Induction furnace
- Mass spectrometer

Development capabilities

- OnShape software for 3D (CAD) design

Laboratory capabilities

- Metallographic analysis laboratory
- Digital durometer



6. Turner in 1030 steel

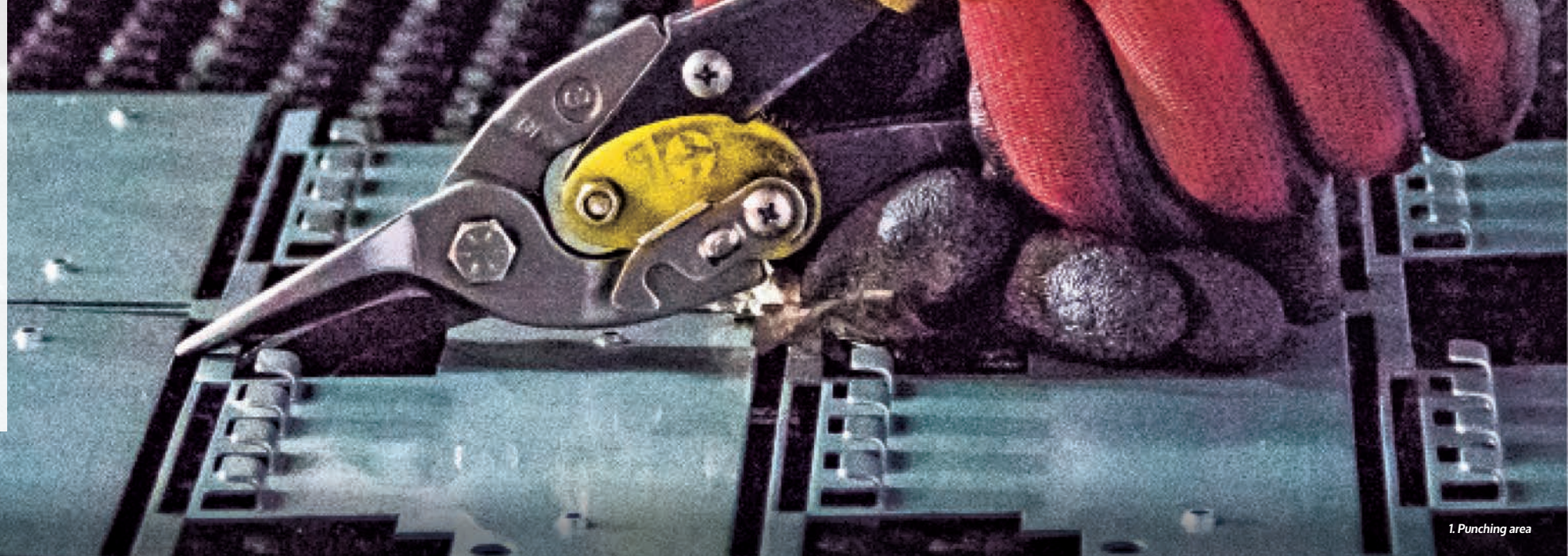




METALMIND S.A.S

Company founded in 2012 that offers products through the metal transformation processes with the highest quality standards. In its 300 m² production plant, it offers high efficiency and precision die-punching and die-cutting processes, as well as custom developments for drilling and threading processes according to specific requirements.

- www.metalmind.com.co
- Calle 10A # 67 - 20
- NIT. 900576927-9
- Bogota, Cundinamarca



1. Punching area

Type of company: TIER 3

Number of employees: 12

Sales per industry: · Electrical 70% · Security 20% · Decoration 5% · Other industries 5%



2. Machining center area



3. Machining center area



4. Drilling area



5. Cutting area

Main clients



Automotive industry portfolio

- Internal small metal parts for vehicles

Portfolio for other industries

- Small metal parts with die-cutting
- Drilling
- Punching and tapping process

Equipment

- Punching presses
 - Amada Apelio
 - Amada Vipros
 - Amada Octo
- 10 to 70 T capacity die-cutting presses
- Laser cutting services
- Welding
- Assembly
- Drilling and threading
- Machining centers

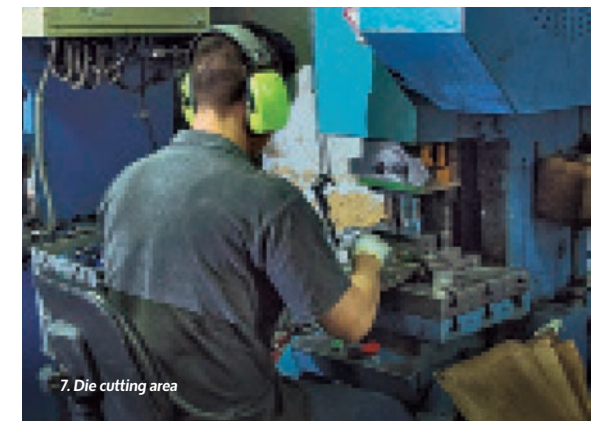
★ Key strength

Development capabilities

- Development capabilities for new product lines
- Engineering and innovation in processes
- Technical support for new products development
- Computer Aided Design (CAD)
 - AutoCAD by Autodesk
 - SOLIDWORKS by Dassault Systèmes



6. Punching area



7. Die cutting area



Mind S.A.S.

Metalmechanical sector company founded in 1990, with a 1,300 m² production plant, dedicated to providing quality services in the areas of cutting, bending and sheet metal bending. The company also integrated other processes such as drilling, CNC punching, electric and spot welding, MIG and TIG.

- www.metalmindsa.com
- Avenida de las Americas calle 20 # 39 - 35
- NIT. 900086883-0
- Bogota, Cundinamarca



1. CNC sheet metal bending

Type of company: TIER 1

Number of employees: 23

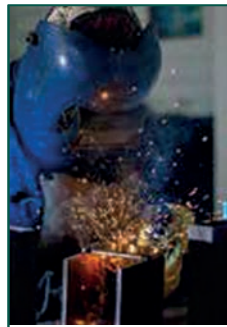
Sales per industry: · Automotive 22% · Other industries 78%



2. Bandsaw



3. Production plant, shear cutting machine



4. Production plant, component welding area



5. Production plant, hydraulic sheet metal bending press machine

Main clients



Automotive industry portfolio

- Industrial material handling carts
- Paint coating maintenance

Portfolio for other industries

- Commercial line
 - Metal products and accessories for commercial use and/or end customers
- Industrial line
 - Support products for industrial and manufacturing activities

Equipment

- Shear cutting machines with capacity of 3/8" in thickness
- 80 T CNC folding machines with capacity for metal sheet of up to 1/4" in thickness
- 160 T hydraulic folding machine with capacity for metal sheet of up to 3/8" in thickness
- CNC punching machines for up to 1/8" in thickness
- Radial drill
- Multiple shear cutting machine
- Roller machine
- MIG, TIG, coated and spot welding equipment

★ Key strength

Development capabilities

- Special developments
 - Products and solutions customized to meet specific project requirements
- Development process aided by CAx tools
- Computer Aided Design (CAD)
 - Solid Edge by Siemens
 - Autodesk Inventor

Laboratory capabilities

- Nondestructive testing
- Dye penetrant inspection
- Certified welding equipment



6. Production plant, shear cutting machine

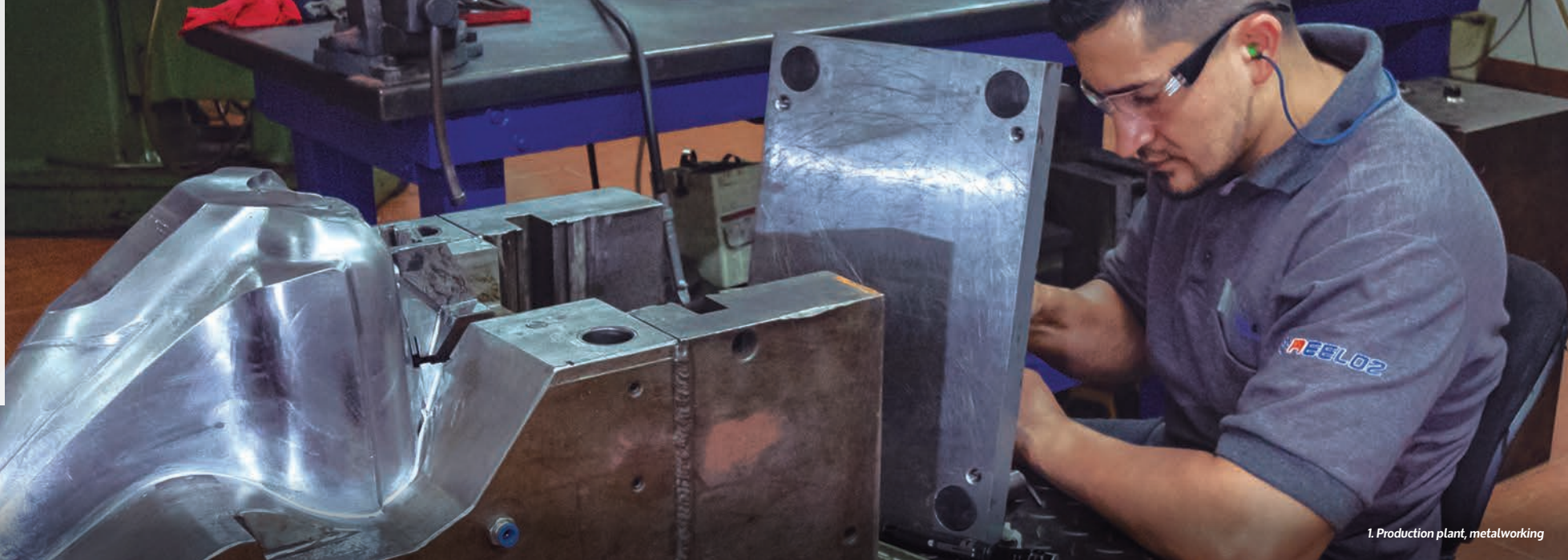




Moldes y Mecanizados S.A.S.

Company founded in 2004 that has 800 m² of production area, dedicated to the design, development and production of motorcycle parts for OEMs and the aftermarket. Through its REELOZ brand, it offers multi-brand spare parts for the motorcycle market.

- www.moldesymecanizados.com
- Carrera 64B # 75-34
- NIT. 811046226-8
- Medellín, Antioquia



1. Production plant, metalworking

Type of company: TIER 1

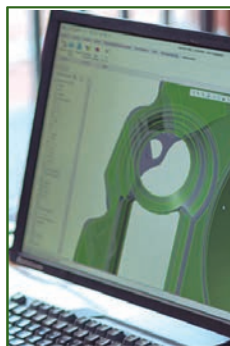
Number of employees: 40

International presence: Mexico

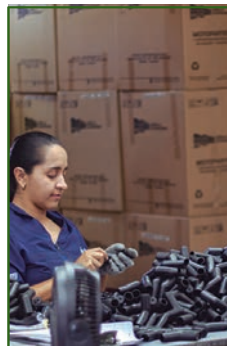
Sales per industry: · Automotive 95% · Other industries 5%



2. Production plant, injection



3. Design, development process



4. Production process, finishing



5. Production process, injection

Main clients



★ Key strength

Automotive industry portfolio

- Mudguard
- Chain guard
- Plate holder
- Muffler protectors
- Rubber dampers
- USB charger for motorcycles
- Handlebars

Portfolio for other industries

- Housings for electronic components
- Beauty industry products:
- Combs
- Ink mixer
- Toe separators
- Packaging for medical devices

Equipment

- Plastic injectors from 80 to 250 T
- Hydraulic presses for compression molding
- Milling machines
- Lathe
- Wire electrical discharge machine

Development capabilities

- Custom product design
- Software
 - Creo Elements/Pro by PTC Corporation
- Stratasys 3D professional printer



6. Design process, prototyping





Motopartes de Colombia S.A.S.

Company founded in 1991, with a total area of 750 m². It is specialized in the design, development, manufacturing and marketing of metal fittings and aluminium accessories for motorcycles.

- www.obr.com.co
- Carrera 39 # 20 - 256
- NIT. 900339129-2
- Medellin, Antioquia



1. Welding process

Type of company: · Aftermarket · TIER 1

Number of employees: 22

International presence: · Costa Rica · Chile · Honduras · Peru

· Guatemala · Ecuador

Sales per industry: Automotive 100%



2. Finished product



3. Finished product



4. Finished product



5. Production floor

Main clients



★ Key strength

Automotive industry portfolio

- Grills
- Motorcycle crash bars
- Motorcycle side luggage racks
- Motorcycle side and center stands
- Handlebars
- Aluminium chain guards
- Aluminium motor protector

Equipment

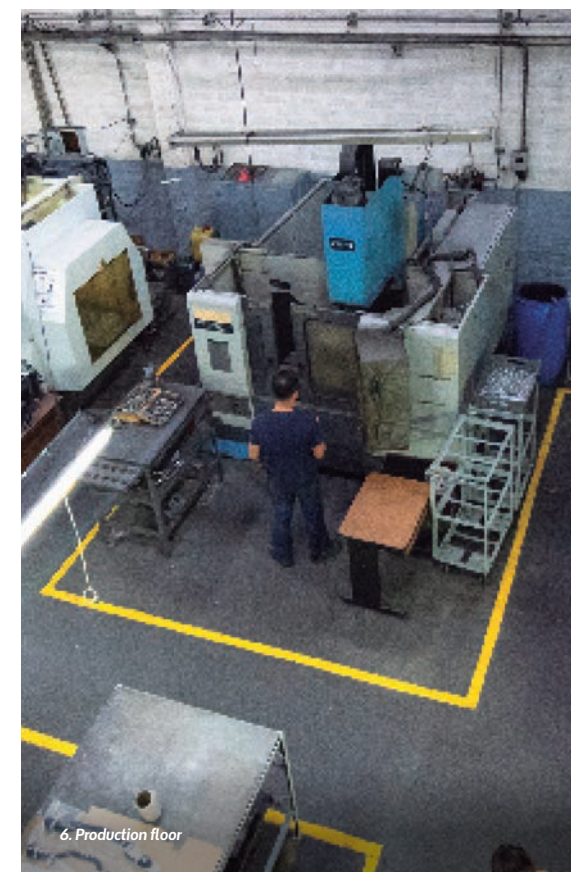
- CNC vertical machining centers with 1,000 x 500 mm table
- CNC lathes for up to 2" diameter
- 5 punching presses with up to 80 T capacity
- Tube bending machine (up to 1.1/4" diameter)
- MIG welding
- Laser engraving

Development capabilities

- Computer Aided Design (CAD)
 - SOLIDWORKS by Dassault Systèmes
 - Mastercam by CNC
- Custom design service

Laboratory capabilities

- Micrometer screw gauges
- Altimeters
- Inclinometers
- Goniometers



6. Production floor





Mowin Technologies S.A.S.

Company founded in 2015 that develops electronic systems for the automotive industry, seeking to provide intelligence, connectivity and security for the different products of the sector. It has a total area of 100 m², used for the assembly with SMT electronics.

- www.mowin-tech.com
- Carrera 17 # 16 B - 09, LC 8
- NIT. 900839808-0
- Pereira, Risaralda



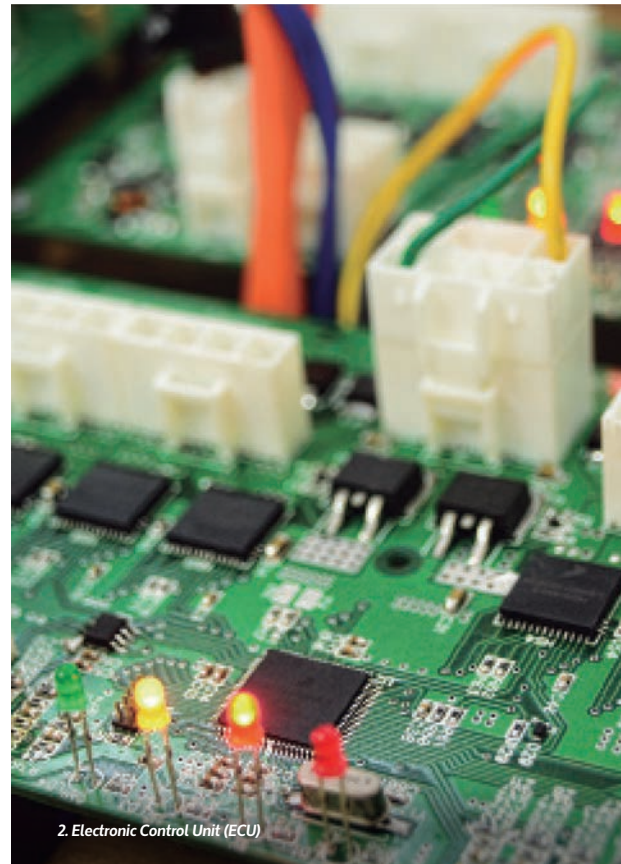
1. Multiplex System: electronic system for the control, protection and diagnosis of bus bodywork

Type of company: · TIER 1 · TIER 2

Number of employees: 12

International presence: · Brazil · Mexico · Argentina

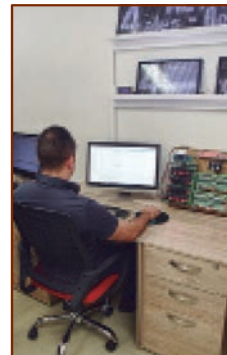
Sales per industry: · Automotive 90% · Other industries 10%



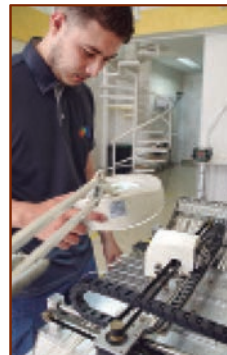
2. Electronic Control Unit (ECU)



3. Test and analysis of electronic boards



4. Design of custom electronic systems



5. SMD Pick & Place Automatic Machine

Main clients



★ Key strength

Automotive industry portfolio

- Multiplex systems for control, protection and diagnosis in bodyworks
- Air conditioning, heating and refrigeration controllers
- Itinerary or destination signs (RGB and Mono type LED message panels)
- Audio systems (amplification, selection, distribution and reproduction)
- Next stop announcement system (automatic with GPS)
- Monitoring devices via internet
- GPS electronic tachograph
- Windshield defogger, ventilation with and without heating
- GPS speedometer
- PIP - Passenger Information Panel
- Battery monitor
- Voltage converters 24 V / 12 V
- Anti-Crushing Device (ACD)
- LED lamps

Portfolio for other industries

- Electronic control systems for elevators
- Electronic controller for commercial and industrial refrigerators

Equipment

- SMT stencil printer machine
- SMD pick & place automatic machine (10,000 pcs/h)
- Reflow oven with infrared LED technology

Development capabilities

- Design and manufacturing of IoT systems
- Design and manufacturing of custom electronic systems
- Design and manufacturing of electronic hardware
- Design of integral technological solutions (Hardware, Firmware, WEB and Mobile Software)
- Update and modernization of electronic systems
- Advice and technical support



6. Automatic Machine





Multi partes de Colombia S.A.S.

Company created in 1970 with experience in design, manufacturing, and marketing of safety products and signaling for cargo and passenger vehicles, such as mirrors, lamps, plastic accessories, metal accessories, wheels and casters.

- www.multipartes.com
- Carrera 2 # 21 - 84
- NIT. 900554691-1
- Cali, Valle del Cauca



1. Metal stamping

Type of company: · Aftermarket · TIER 1

Number of employees: 360

International presence: · Nicaragua · Honduras · Panama

· Guatemala · El Salvador · Costa Rica



2. Plastic injection



3. Assembly line



4. Quality control



5. Tube bending

Main clients



Certifications

- ISO 9001: 2015
- NTC 5206: 2009
- NTC 4901: 2016

Automotive industry portfolio

- Internal and external rear-view mirrors
- Lamps
 - Stop lights (brake lights)
 - Signal lights (turn signals or blinkers)
 - Reversing (back up) lights
 - Registration plate lamp
 - Position markers
- Reflective lenses (for cars and motorcycles)
 - Skylights
 - Markers
 - Retroreflective
- Automotive industry accessories
- Mud flaps
- Internal fixing brackets for buses
 - Handles
- Public transportation vehicle seats

Portfolio for other industries

- Wheels and casters
 - Industrial cooling
 - Furniture
- Construction wheelbarrows

★ Key strength

Equipment

- Electrolytic finishing process
 - Plastic chrome plating plant
 - Metal chrome plating plant

- Tube bending machine up to caliber 12
- CNC machines
 - Lathe
 - Milling machine
- Lathe headstocks and spindle machines for screws, axles and bushings production
- Glass fiber plant
- Polyurethane injection and molding
- Electrostatic paint plant

Development capabilities

- Design of dies and molds
- Computer Aided Design
 - (ECAD): Proteus Design Suite by Labcenter Electronics
 - (CAD): Autodesk PowerShape
 - (CAE): Autodesk Moldflow
 - (CAM): Autodesk PowerMILL

Laboratory capabilities

- Quality control laboratory
- Metrology laboratory
 - Pressure calibration: vacuum
 - Dimensional analysis: longitudinal
- Functional testing
 - Leak test
 - Luminosity test
 - Warping test
 - Vibration test



MVM[®]
Ltda.

MVM Ltda.

Company founded in 1986. Manufacturer of self-lubricating bushings for automotive and household appliance lines, mechanical assembly parts, as well as new varieties of products for the rectification of engines, both for vehicles and motorcycles. It has a production plant of 1,000 m².

- www.mvmltda.com
- Calle 69 # 7F-11. Urbanización Fepicol
- NIT. 890330613
- Cali, Valle del Cauca



1. Sintering process in a controlled atmosphere furnace

Type of company: Aftermarket

Number of employees: 28

International presence: · Costa Rica · Ecuador · United States · Guatemala

· Panama · Peru · Venezuela

Sales per industry: · Automotive 70.5% · White line 25.2% · Other industries 4.3%



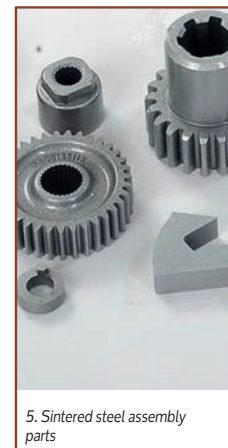
2. Luis González, founder of MVM Ltda



3. Babitted bushings for camshafts



4. Bushings and bars in self-lubricating sintered bronze



5. Sintered steel assembly parts

Main clients



★ Key strength

Automotive industry portfolio

- Camshaft bearings
- Valve guides and seats for automotive engines
- Engine cylinder sleeves
- Bronze and diluted bronze selflubricating bearings
- Stainless steel sintered bearings
- Engine bronze seals
- Equipments to engines rebuilding

Portfolio for other industries

- Sintered parts made from bronze, brass, copper, iron, alloyed steel and stainless steel
- Selflubricating sintered bearings made from bronze, graphited bronze, diluted bronze to home appliances

Equipment

- Production equipments for camshaft bearings and valve guides, designed and built by MVM Ltda
- Powders mixer
- Mechanic and hydraulic presses
- Continuous sintered furnace with atmosphere control

Development capabilities

- Reverse Engineering
- Computer Aided Design (CAD)
 - AutoCAD by Autodesk
- Computer Aided Manufacturing (CAM)
 - Mastercam by CNC

Laboratory capabilities

- Length measurement in mm and inches with calipers and outside micrometers: Up to 4"
- Weight measurement in grams with digital scales: Up to 500 g
- Optical evaluation with stereoscope: Up to 100X
- Temperature measurement with mobile thermocouple: Up to 1,100 °C



6. Production line for powder metallurgy



NAV CAR S.A.S.

Company founded in 1984, dedicated to the manufacturing of automotive control cables, polyurethane bushings and brake hoses. It has a plant area of 6,000 m² and more than 5,000 SKU, being one of the most complete portfolios in Latin America.

- www.cablesnavcar.com
- NIT. 860517948-7
- Km 22 Autopista Norte, Complejo Industrial Navcar
- Tocancipá, Cundinamarca



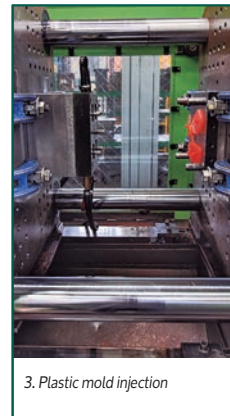
1. Production floor

Type of company: Aftermarket Number of employees: 160 International presence: · United States · Chile · Costa Rica · Ecuador · El Salvador · Guatemala ·

Guyana · Honduras · México · Nicaragua · Panamá · Perú · República Dominicana · Venezuela Sales per industry: · Automotive 90% · Other industries 10%



2. Mechanical control cables



3. Plastic mold injection



4. Molds maintenance workshop



5. Cover cutting machine

Main clients

Fanalca



Peláez Hermanos
Baterías y Autopequeños



Certifications

- ISO 9001: 2015

Automotive industry portfolio

- Control Cables
- Polyurethane bushings
- Brake hoses

Portfolio for other industries

- Steel wires
- Nylon webbing straps
- Industrial accessories
- Pet products

★ Key strength

Equipment

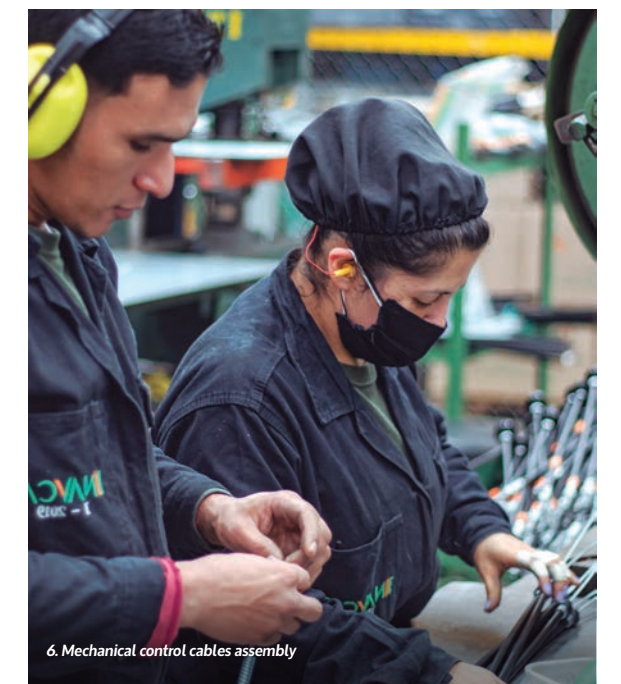
- Plastic injection
- Molding machines
- Punching presses CNC lathes
- Electrical discharge machines
- Extrusion machines
- Laser cutting machine

Development capabilities

- Design and manufacturing of molds
- Computer Aided Design (CAD)
 - SOLIDWORKS by Dassault Systèmes
 - AutoCAD by Autodesk

Laboratory capabilities

- Laboratory for
 - Destructive testing
 - Efficiency testing
 - Tensile testing



6. Mechanical control cables assembly





Niko Racing Ltda.

Company founded in 2000, dedicated to the design, development and manufacturing of racing cars and industrial parts in general. It has a vast experience in automotive and kart racing, and participated and claimed victories with its own racing team name in events in Colombia and the United States. Their vehicles hold various records in racing circuits in Colombia, USA, and Jamaica.

- www.nikoracingteam.com
- Calle 163A # 16A - 79
- NIT. 830071339-6
- Bogota, Cundinamarca



1. Salamandra 3

Type of company: OEM

Number of employees: 6

International presence: · United States · Jamaica

Sales per industry: Automotive 100%



2. Salamandra



3. Dry sump



4. CNC machined parts



5. Production area

Automotive industry portfolio

- Brake rotor hats
- Brake uprights
- Gearbox covers
- Brake calipers
- Carter
- Pistons
- Gears
- Chassis
- Suspension control arms
- Rocker arms
- Connectors
- Safety seals
- Customized metal mechanical automotive and motorcycles components

Portfolio for other industries

- Specialized custom made metal mechanical components

Equipment

- Mazak CNC 3-axis machining center with 1,120 x 410 x 510 mm work area
- Tube bending machines
- CNC lathes with a capacity of maximum 250 mm in diameter and up to 900 mm in length

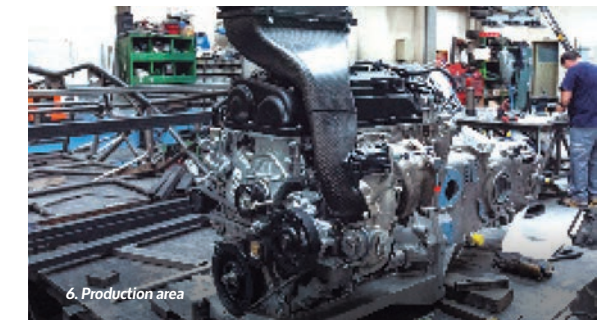
★ Key strength

Development capabilities

- Reverse Engineering
- Finite Element Analysis (FEA)
- CNC programming
- Dyno engine setup
- Software for computer development
 - Mastercam by CNC
 - Inventor by Autodesk
 - Alias by Autodesk
 - AutoCAD by Autodesk
 - Fusion360 by Autodesk

Laboratory capabilities

- Functional tests
- Dimensional analysis



6. Production area





CUSTOMIZED TECHNOLOGICAL TRANSFORMATION

NINOX ZFS S.A.S

Ninox designs and manufactures mobile trucks for industrial and emergency services, totally adapted to the specific needs of each client. Strategically located in Santander's Duty Free Zone, Ninox was founded in 2014.

- www.ninoxcorp.com
- Zona Franca Santander
- NIT. 900763547
- Floridablanca, Santander



1. Bio molecular mobile covid-19 testing Lab Ninox - Lab Bio Max

Type of company: Coach body builder

Number of employees: 39

Sales per industry: · Ecuador · Venezuela

Sales per industry: · Automotive 80% · Other industries 20%



2. Personalized designs



3. Certified manufacturing processes



4. Dynamic load analysis for all units



5. Innovative solutions with cutting-edge technology

Main clients



Certifications

- ISO 9001:2015
- ISO 45001:2018
- IQ Net
- ISO 14001:2015
- Norsok S-006

★ Aspecto destacado

Automotive industry portfolio

- Basket crane trucks
- Lubrication trucks
- Loader crane trucks
- Mobile laboratories and doctor's office
- Mobile blood banks
- Fire trucks
- Fire trailers
- Mechanical service trucks
- Workover trucks
- Wireline and slickline trucks
- Special projects

Equipment

- Welding equipment for carbon steel, stainless steel and aluminum
- Bridge cranes
- Loader cranes
- Hydraulic test benches
- Hose crimping machine
- Plasma and oxy-fuel cutting
- Manufacture fiberglass equipment
- Paint booth

Development capabilities

- Specialized mobile solutions according to the specific needs of each client
- Specialized and qualified technical team

- Computer Aided Design (CAD)
 - Solid Edge by Siemens
- Load analysis and calculation of the mass center for all units

Laboratory capabilities

- Non-destructive tests on critical welds and tank tightness tests



6. Basket crane truck Ninox - High Max



Non Plus Ultra S.A.

First bus assembler in Colombia, dedicated since 1973 to the manufacture of buses, minibuses, vans and off-road vehicles. It is characterized by using innovation to respond to the needs of a country that mobilizes a large part of its population by land. Production plant area: 13,000 m².

- www.nonplusultra.com.co
- Carrera 49 # 201-50
- NIT. 860038196
- Bogotá, Cundinamarca



1. Finishing area

Type of company: Bus body builder Number of employees: 58 Sales per industry: · Automotive 72% · Health 15% · After-sales service 13%



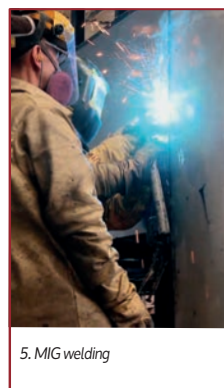
2. Paint booth



3. CNC industrial bending machine



4. CNC welding robot



5. MIG welding

Main clients

Automotive industry portfolio

- Body works for buses, minibuses and vans
- Complete buses for collective passenger transport

Portfolio for other industries

- Mobile units for medical, educational and financial services
- Spare parts and vehicle maintenance

Equipment

- Former with gantry
- MIG welding
- CNC industrial bending machine
- CNC industrial shear
- CNC welding robot
- Endless saw
- CNC pipe bending machine
- Paint booth
- Fiberglass sprayers
- Vehicle weighing scale
- Electric and pneumatic tools, among others

Laboratory capabilities

- Mechanical platform for stability test 107 UNECE
- FMVSS 302 Flammability Test
- Rain test chamber

★ Key strength

Development capabilities

- Computer Aided Design (CAD)
 - SOLIDWORKS by Dassault Systèmes
 - AutoCAD by Autodesk
- Computer Aided Manufacturing (CAM)
- Kuka system software (KSS)
- Finite Element Analysis (FEA)
- Algor
- SolidWorks Simulations
- Prototyping of parts and 3D printing models
- Engineering team dedicated to innovation in the automotive sector
- Installed capacity for the assembly of 40 units per month



6. Mechanical repair



www.normarh.com

NORMARH S.A.S.

Metalworking company founded in 1978, dedicated to the mold injection and design of plastic products and the development of molds and components made by metal mechanical processes. It designs and develops new products involving state-of-the-art technology and high-quality standards.

- www.normarh.com
- Avenida 30 de Agosto # 37 - 65
- NIT. 8914088023-0
- Pereira, Risaralda



1. Erosion process

Type of company: TIER 1

Number of employees: 165

International presence: · United States · Canada · Mexico · Costa Rica · Dominican Republic

· Ecuador · Argentina · Switzerland · Australia

Sales per industry: · Automotive 10% · Security 30% · Music 20% · Other industries 40%



2. Manufacturing process



3. Profiles projector



4. Machining process



5. Erosion process of steel plates

Main clients



Certifications

- ISO 9001: 2015
- BASC

Automotive industry portfolio

- Fender
- Chain guards
- Speaker grill
- Car vent grill
- Motorcycle fuel filters

Portfolio for other industries

- Safety seals for water, energy and gas meters
- Plastic accessories for curtains and blinds
- Record player needles
- Sharpeners, retractable click eraser pens and flutes

Equipment

- Metal mechanical area machinery
 - CNC machining center
 - CNC lathe
 - Lathe
 - Penetration electrical discharge machining
 - Grinding machines
 - 1 to 20 T punching presses
- Injection area machinery
 - Plastic injection machines with a clamping pressure 10 to 320 T (18 machines)
- Measuring equipment
 - Profile projectors with magnification of 10X- 20X- 100X
 - Microscopes with digital head
- Marking equipment
 - Laser marker
 - Hot-stamp marker
- 3D printing

★ Key strength

Development capabilities

- Product design
- Design and manufacture of injection molds
- Reverse engineering process
- Software
 - SOLIDWORKS by Dassault Systèmes (premium and standard)
 - CNC MasterCam
 - Rhinoceros 3D by Robert McNeel & Associates

Laboratory capabilities

- Electrical testing equipment: oscilloscopes
- Dimensional verification equipment
- Hardness measurement equipment
- 500 N dynamometer
- Impact pendulum (for plastic products testing)





NP Repuestos Genuine Parts S.A.S.

Company founded in 1994. It has a plant area of 1,000 m² and is dedicated to the manufacture and marketing of brakes and suspension components for light vehicles. It also provides manufacturing services with excellent quality and durability.

- www.nprepuestos.com.co
- Carrera 72H # 391 - 22 sur
- NIT. 900460756-7
- Bogota, Cundinamarca



1. Pistons

Type of company: Aftermarket

Number of employees: 38

International presence: · Ecuador · Honduras · Bolivia

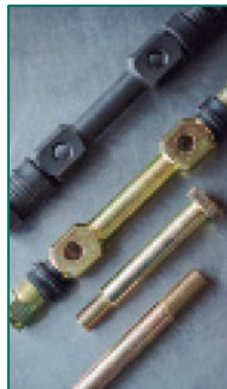
Sales per industry: Automotive 100%



2. Vulcanizing machine



3. Finished product



4. Finished product



5. Production floor

Certifications

- ISO 9001: 2015
- Resolution 4983

Automotive industry portfolio

- Caliper kit
- Brake shims
- Brake calibration
- Brake pads
- Brake bands
- Brake vacuum servos
- Pistons
- Control arm pins
- Sway bars end links

★ Key strength

Equipment

- CNC
- Systematized lathes
- Parallel lathes
- 60 T punch presses
- 100 T punch presses
- Grinding machines
- Penetration electrical discharge machining
- Wire electrical discharge machining
- Vulcanizing machine
- Milling machines
- Electric induction furnace
- Induction furnace

Development capabilities

- Die mold design and development

- Computer Aided Design (CAD)
 - Solid Edge by Siemens
 - SOLIDWORKS by Dassault Systèmes
- Computer Aided Manufacturing (CAM)
 - Mastercam by CNC software

Laboratory capabilities

- Functional testing
 - Pressure
 - Assembly
- Dimensional analysis
 - Longitudinal



6. Finished product





OPTIMA BALLISTIC GLASS COLOMBIA S.A.

Company founded in 2005 with a total area of 4,500 m² dedicated to the manufacturing of state-of-the-art armored glass for applications in the automotive and architectural industries, focused on customer service and sustainable growth.

- www.optimaballistic.com
- km 8 Via Barranquilla - Tubara Zona Franca La Cayena Mz K Lote int 45
- NIT. 900880066-5
- Barranquilla, Atlantico



1. 3D polishing

Type of company: Aftermarket

Number of employees: 123

International presence: · North America · Latin America and the Caribbean · Europe

· South Africa · Philippines

Sales per industry: · Automotive 95% · Construction 5%



2. 2D glass polishing



3. CNC cutting



4. High quality product



5. 2D glass polishing

Main Clients



Certifications

- ISO 9001: 2015

Automotive industry portfolio

- Laminated safety bulletproof glass

Portfolio for other industries

- Laminated safety bulletproof glass for architectural applications

Equipment

- 2D cutting machine (CAM)
- Chemical strengthening of glass
- Bending oven
- Autoclave

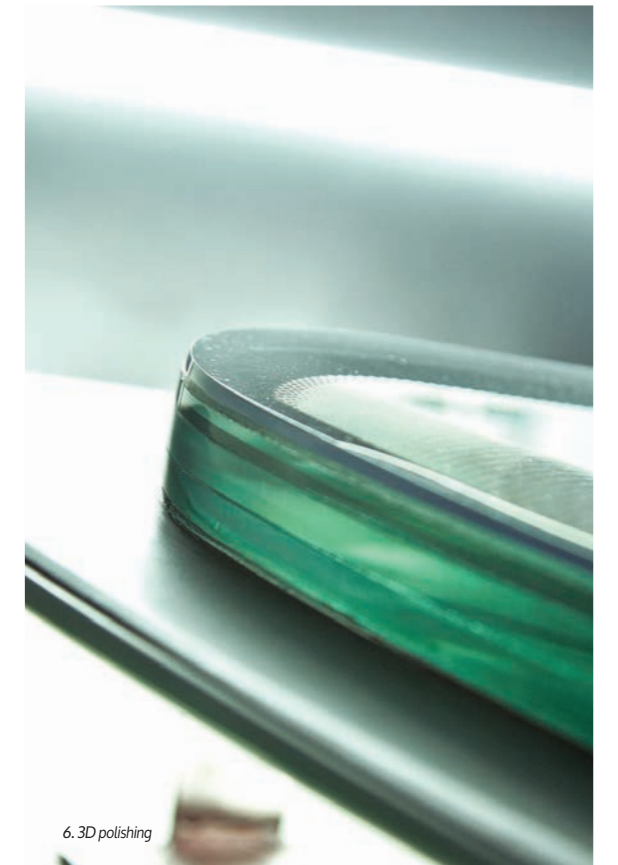
★ Key strength

Development capabilities

- Computer Aided Design (CAD)
- 3D modulation
- Design and manufacture of 3D molds
- 3D-2D development
- Integrated corporate software

Laboratory capabilities

- Peel tests
- Resistance tests to chemical agents
- Ballistic resistance tests



6. 3D polishing





OSAKA S.A.S.

Company founded in 1999, dedicated to the manufacturing of motorcycle components. It has a total area of 800 m², where it manufactures brake pads and bands for motorcycles and ATVs.

- www.osaka.com.co
- Carrera 48C # 100 Sur - 72
- NIT. 811022876-1
- La Estrella, Antioquia



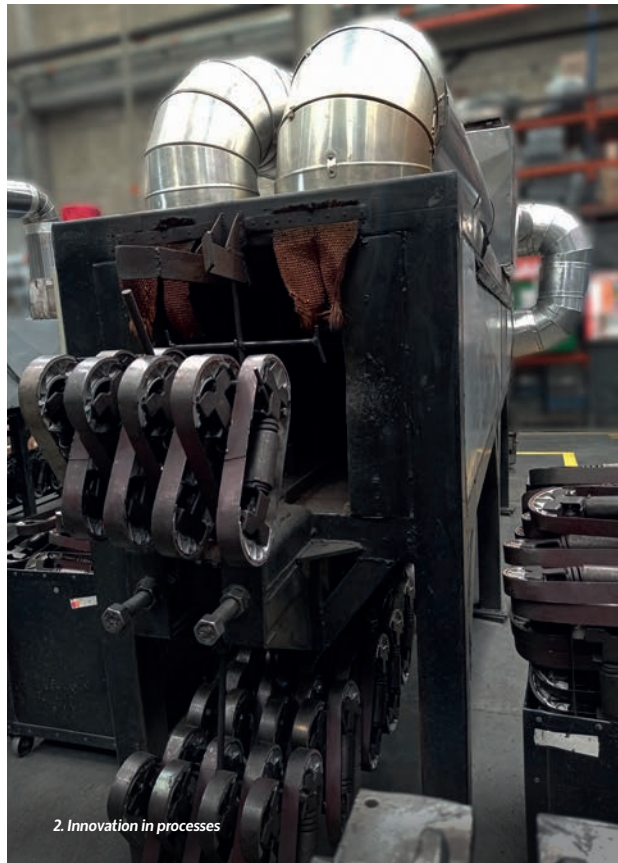
1. Committed to Safety

Type of company: Aftermarket

Number of employees: 85

International presence: · Mexico · Costa Rica · Ecuador · Chile

Sales per industry: Automotive 100%



2. Innovation in processes



3. Quality processes



4. OSAKA technology



5. Development of new products

★ Key strength

Automotive industry portfolio

- Motorcycle brake pads
- Motorcycle brake bands
- Clutch and brake handle levers

Equipment

- Hydraulic presses with 70 to 90 T capacity
- Gas ovens with a capacity of up to 600 bands per hour
- Grinding machines
- Sandblasters

Development capabilities

- Reverse engineering
- Aftermarket brake component development
- Research and development of new friction materials

Laboratory capabilities

- Dimensional analysis



6. Efficient delivery processes





PINTUPARTES

PINTUPARTES - Industria de pintura y partes metalmecánica S.A.

Company founded in 2007, dedicated to providing engineering and management solutions, development and production of auto parts and specialized processes of painting, blasting, sheet folding and pipe bending. It has a total area of 2,600 m² and highly qualified personnel to add value to each product.

- www.pintupartes.com
- NIT. 900131528-3
- Conjunto Empresarial Eje Nexos, Cra 2 Norte # 17 - 97 Bodega 1
- Dosquebradas, Risaralda



1. Production floor, injection molding machine + storehouse

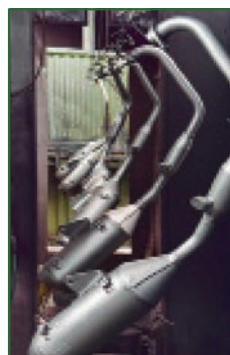
Type of company: · TIER 1 · TIER 2

Number of employees: 60

Sales per industry: · Automotive 70% · White line 20% · Other industries 10%



2. High temperature liquid paint continuous line



3. Leak, welding and finished products resistance testing



4. Production processes measurements



5. Part manufacturing

Main Clients



★ Key strength

Automotive industry portfolio

- Exhaust system
- Handlebars
- Bus windows

Portfolio for other industries

- Vending machine cabinets Racks
- Powder paints
- Liquid paints

Equipment

- Exhausts line
- Liquid painting line
- Powder coating line
- CNC sheet metal bending machine
- CNC pipe bending machine

Development capabilities

- Project management, design of production processes and tooling
- Prototypes and component validation for mass production

Laboratory capabilities

- Welding macro examination
- Dye penetrant inspection
- Paint scrape adhesion testing
- Solvent resistance rub test
- Paint hardness testing



6. Production floor





PLACA S.A. - Plásticos y Cauchos S.A.

Leading company in the design, manufacturing and marketing of plastic packaging made in its 3,400 m² production plant through PET-preform injection, blowing and injection stretch blow molding (ISBM) processes. The firm has been present in the domestic market since 1988, offering packaging solutions to all industries.

- www.placa.com.co
- Carrera 43 # 14 -79
- NIT. 860533798-6
- Bogota, Cundinamarca



1. Production line, blow molding machine

Type of company: TIER 2

Number of employees: 118

Sales per industry: · Automotive 2% · Other industries 98%



2. Production line, double layer blow molding machine



3. Labeling line



4. Production floor, screen printing area



5. Labeling line

Main clients



Certifications

- ISO 9001: 2015

Automotive industry portfolio

- Dust seals
- Cube lids
- Inserts
- Brake fluid containers

Portfolio for other industries

- Containers for lubricants
- Containers for toiletries and cosmetics
- Container caps

Equipment

- Blow molding machines for polyolefins and PVC with 2 to 7 L capacity
- Double station blow molding machines for polyolefins with 2 L capacity
- Blow molding machines for polyolefins with 10 L capacity
- Double station blow molding machines for polyolefins with 5 L capacity
- Double station blow molding machines for double walled polyolefins (70% - 30%) with 5 L capacity
- Injection molding machines with 120 to 130 T clamping force

★ Key strength

Development capabilities

- Molds and tooling design
- Computer Aided Design (CAD)
 - Solid Edge by Siemens

- Mold manufacturing
- Strategic alliances with qualified workshops and an internal metal mechanical workshop

Laboratory capabilities

- Tests
 - Bottleneck and container dimensional analysis
 - Cap adjustment (torque and breakage)
 - Volume-based impact
 - Overflow volume
 - Water tightness and/or slow leak
 - Static charging
 - Visual appearance
 - Oven induced accelerated aging



6. Labeling line





PLÁSTICOS TRUHER S.A.
PLÁSTICOS TRUHER S.A.

Company founded in 1959 as a family business, specialized in injection, blowing and injecting-blowing processes. It has more than 120 machines distributed between its plants in Sabaneta (14,000 m²) and Manizales (5,000 m²).

- www.plasticostruher.com
- Calle 67 Sur # 48 B - 95
- NIT. 890907406-1
- Sabaneta, Antioquia



1. Production floor

Type of company: TIER 1

Number of employees: 800

Sales per industry: · Industrial components (household appliances, automotive) 50% · Packaging 50%



2. Measure with gauges



3. Motorcycle parts



4. Visual inspection



5. Verification on jigs

Main clients



Un hogar, mil historias felices

Certifications

- ISO 9001: 2015
- IATF 16949: 2016

★ Key strength

Automotive industry portfolio

- Interior trims
- Door handles
- Door handle inserts
- Bumper inserts
- Ventilation ducts
- Air vents

Portfolio for other industries

- Caps
- HDPE, Polypropylene (PP) and PET containers with 17 to 20,000 cm³ capacities

Equipment

- Blow molding injection machines (50 to 20,000 cm³)
- Injection molding machines (80 to 1,000 T)
- PET injection-blow molding machines with 3 to 10 cavities

Development capabilities

- Design of blow and injection molds using (CAD)-(CAM)
- Creo Parametric by PTC Corporation

Laboratory capabilities

- Functional tests and dimensional analyses based on specific client requirements



6. Standard process





POLIKEM S.A.S.

Company founded in 1970, dedicated to the design, manufacturing, storage and marketing of chemicals for the automotive, industrial and household sectors. It has a total area of 2,000 m² divided in 2 plants located in Rionegro, Antioquia.

- www.polikem.com.co
- NIT. 890928929-1
- Centro Empresarial Karga Fase II, Bodega 122 - 127
- Rionegro, Antioquia



1. Laboratory

Type of company: · Aftermarket · TIER 1 · TIER 2

Number of employees: 82

Internacional presence: · Ecuador · Spain

Sales per industry: · Automotive OEM 35% · Automotive aftermarket 55% · White line 5% · Other industries 5%



2. Warehouse logistics



3. Automotive and industrial filling and packaging line



4. Spray cotainer



5. Household filling and packaging line

Main clients



Certifications

- ISO 9001: 2015
- ISO 14001: 2015
- Ecovadis
- IATF 16949: 2016
- OHSAS 18001: 2007

Automotive industry portfolio

- A complete line of products for pre-paint surface treatment
- Glass bonding urethane sealants
- Adhesives for joints and other applications
- Windshield washer fluid
- Corrosion protectors
- Radiators coolant fluids
- Brake fluids
- Lubricant oils

Portfolio for other industries

- Non-acid, non-corrosive, biodegradable product for cement-concrete residues removal from concrete mixers, silos, pumps, tools and all kinds of equipment and surfaces
- Rust-removers
- Corrosion protectors
- Treatments for coolant waters
- Cleaners, disinfectants and odor removers for air conditioning systems
- Internal and external engine cleaners
- Protectors, radiator cleaners
- Floor cleaners and degreasers
- Lubricants, water displacing compounds
- Cleaners for electric and electronic equipment

Equipment

- PRFV mixers with a capacity of 2,500 to 5,000 L
- Stainless steel mixers with a capacity of 60 to 800 L
- 2 stainless steel mixers with cooling system and a capacity of 3,000 L
- Stainless disperser/homogenizer with a capacity of 400 L
- Stainless steel industrial heating pot with a capacity of 60 L
- 2 deionizers with a capacity of 600 L/hour

★ Key strength

Development capabilities

- Development of chemical products for the automotive industry (based on APQP) as well as for any other industry

Laboratory capabilities

- Testing laboratory
 - Density tests
 - Dynamic and kinematic viscosity tests
 - Karl Fisher titration
 - Potentiometric titrator acid-base





Pramec S.A.S.

Company founded in 1979, dedicated to the manufacture of metal components for the automotive industry and industrial air filtration systems. It has a total area of 3,200 m² production area where, through a wide range of machinery with state-of-the-art technology, services are provided to the industry.

• www.pramec.co
• NIT. 860516785-9

• Calle 17 bis # 126A - 70 ints 4 y 5
• Bogota, Cundinamarca



1. Sheet metal laser cutting

Type of company: TIER 1

Number of employees: 75

Sales per industry: · Automotive 78% · Air filtration 10% · Services 12%



2. Tube laser cutting



3. Sheet metal bending



4. Sheet metal laser cutting



5. Production floor

Main clients



Automotive industry portfolio

- Buses
 - Bodywork subassembly
 - Doors
 - Trays
 - Ball joints
 - Luggage compartments
 - Hand rail
 - Metallic grids
 - Brackets and supports
 - Chassis components
- Motorcycles
 - Cargo trays
 - Handlebars
 - Axles
 - Center stands
 - Bushings
- Automotive
 - Safety mounts
 - Battery frame

Portfolio for other industries

- Industrial air filtration system
- Storage cabinets
- Light storage racks and components
- Services
 - Sheet metal laser cutting
 - Tube laser cutting
 - CNC lathe
 - Metal punching
 - Metal bending
 - Welding
 - Painting

★ Key strength

Equipment

- 3.05 x 1.5 m sheet metal laser cutter with capacity for up to 20 mm in thickness for carbon steels, 12 mm in thickness for stainless steels and 8 mm in thickness for aluminum
- Tube laser cutter with maximum diameter capacity of 150 mm for carbon steel profiles of up to 6 mm in thickness
- Sheet metal punching machine for dimensions of up to 2.5 x 1.25 m and up to 6 mm in thickness
- Sheet metal bending machines for dimensions of up to 3 mm in length and 12 mm in thickness
- CNC lathes
- Machining center
- Tube bending machine for up to 38.1 mm diameter and caliber 16
- Punching presses with up to 90 T capacity
- Hydraulic presses with up to 350 T capacity
- Paint booth
- Welding
 - MIG
 - TIG
 - Spot

Development capabilities

- Computer Aided Design (CAD)
 - AutoCAD by Autodesk
 - SOLIDWORKS by Dassault Systèmes



Propulsora S.A.

Company founded in 1996, inheriting the technical knowledge in metallurgy from the Danish group Paul Bergsøe & Son, It has a 6,000 m² production area with more than 50 years of providing specialized solutions of non-ferrous metal alloys for the national and international industry.

- www.propulsora.com.co
- NIT. 817000717-6
- Parque Industrial y Comercial del Cauca, Etapa 3
- Guachene, Cauca



1. Aluminium smelting

Type of company: TIER 2

Number of employees: 53

International presence: · Ecuador · Panama

Sales per industry: · Automotive 5% · Naval 3% · Lighting and industrial 45% · Other industries 47%



2. Aluminium-based alloys



3. Sacrificial anodes



4. Beraline solder



5. Metal casting

Main Clients



Certifications

- ISO 9001: 2015

Automotive industry portfolio

- Aluminum-based alloys
- Zinc-based alloys
- Cooper-based alloys
- Tin-based alloys
- Solder

Portfolio for other industries

- Lead sheet for radiation shielding
- Metal for jewelry (pewter)
- Bearing metal obabbitt
- Copper alloys (bronze and brass)

★ Key strength

Equipment

- Tilting reverberatory furnace with 3.5 to 7 T capacity
- Crucible furnace with 0.1 to 3.5 T capacity
- Tilting rotary furnace with 1 m³ capacity
- Lead rolling mill for 25 mm to 0.5 mm material thickness
- 250 T extrusion press
- Wire drawing machine
- Spooling machine
- Slag recycling mill machine
- Heat treatment equipment
- Vertical casting tables for aluminium plates
- Hydraulic gravity dye casting machine

Development capabilities

- Custom made alloys
- Gravity dye casting mold design for sacrificial anode cathodic protection
- Computer Aided Design (CAD)
 - SOLIDWORKS by Dassault Systèmes

Laboratory capabilities

- Optical emissions spectrometers for non-ferrous metal analysis
- Non-ferrous alloys volumetric analysis



6. Zinc-based alloy ingots



Proquimsa S.A.S

Company founded in 1973. Its main activity is the design, development, production and commercialization of greases and lubricants for the automotive and industrial sectors, including its own brand, Nurex. It has a production plant of 1,093 m².

- www.proquimsa.co
- Carrera 19 No. 72-46
- NIT. 890204118
- Barrancabermeja, Santander



1. Lubricating greases production plant

Type of company: Aftermarket

Number of employees:46

International presence: · Chile · United States · Ecuador · Honduras

· Peru · Dominican Republic · Venezuela

Sales per industry: · Automotive 80% · Other industries 20%



2. Nurex HD Lithium Complex EP 2/220



3. Pilot plant



4. Nurex finished product



5. Product storage

Certificaciones

- ISO 9001: 2015

★ Key strength

Automotive industry portfolio

- Greases:
 - Lithium based greases
 - Lithium based complex greases
 - Aluminum complex greases
- Lubricants:
 - Motor oils
 - Transmission fluids
 - Gear oils
 - Motorcycle lubricants

Portfolio for other industries

- Calcium sulfonate complex greases
- Open gear and wire rope greases
- Bentone thickened greases
- Lithium Complex greases
- Polyurea greases
- Food grade greases
- Lubricants:
 - Transmission fluids
 - Gear oils
 - Other lubricants

Equipment

- Reactors
- Contactors
- marmitas
- Mixers

Development capabilities

- Grease pilot plant for small quantity and special type of greases designed for specific applications

Laboratory capabilities

- Oils and greases laboratory tests
- Dropping point
- Cone penetration
- Oxidation stability
- Copper corrosion
- Oil separation
- Anti wear properties by four-ball
- Acidity
- Alkalinity
- Water content



6. Laboratory





Productos y Sellantes Técnicos de Colombia S.A.

PSTC S.A.- Productos y Sellantes Técnicos de Colombia S.A.

Company founded in 1973, dedicated to the manufacturing and distribution of sealants, anticorrosive waxes and sound deadeners. It has a total area of 12,000 m², where it serves the automotive industry and other industrial sectors. Since 2010, it has a technological alliance with EFTEC, one of the leading global automotive sealant producers.

- www.pstc.com.co
- Carrera 50 # 98 Sur - 103
- NIT. 890915791-4
- La Estrella, Antioquia



1. Installations

Type of company: TIER 1

Number of employees: 45

International presence: Ecuador

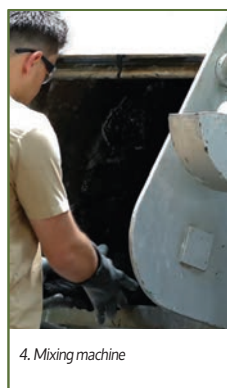
Sales per industry: Automotive 100%



2. Sealings production plant



3. Sound deadeners' production plants



4. Mixing machine



5. Laminating machine

Main Clients



Certifications

- ISO 9001: 2015
- BIQS: GM
- IATF 16949: 2016

Automotive industry portfolio

- PVC sealants
 - Sheet joining
 - Antiflutter
 - Under-body coating
- Anti-corrosive waxes
- Hot-melt adhering soundproofing sheets
- Gasket rubber based sealant

Portfolio for other industries

- Filling caulk
- Acrylic and asphaltic waterproofers
- Sealants for window and mirror joints

Equipment

- Mixers
- Calender (roll)
- Extrusion press machines
- Agitator system
- Filter pumps

★ Key strength

Development capabilities

- Reverse engineering
- Development of sealants for the industry in general
- Development and / or maquila of waterproofing, stucco, paints and joint putties for the construction industry

Laboratory capabilities

- Universal machine for mechanical testing
- Rotational rheometer
- Strength and stress tests up to 5 kN load
- Physical-chemical tests
- Automotive sealant application tests



6. Mixing machine





Recubrimientos Industriales

Recubrimientos Industriales S.A.S.

Company founded in 1991 with the objective of providing metallic parts coating for the automotive, electrical and petroleum industries, specializing in zinc. It has a productive area of 420 m² where it performs, according to the market needs, tinning, silver, zinc plating, copper plating, electrostatic and organometallic painting services.

- www.recubrimientosindustriales.com.co
- Calle 10A # 67 - 19
- NIT. 800127414-4
- Bogota, Cundinamarca



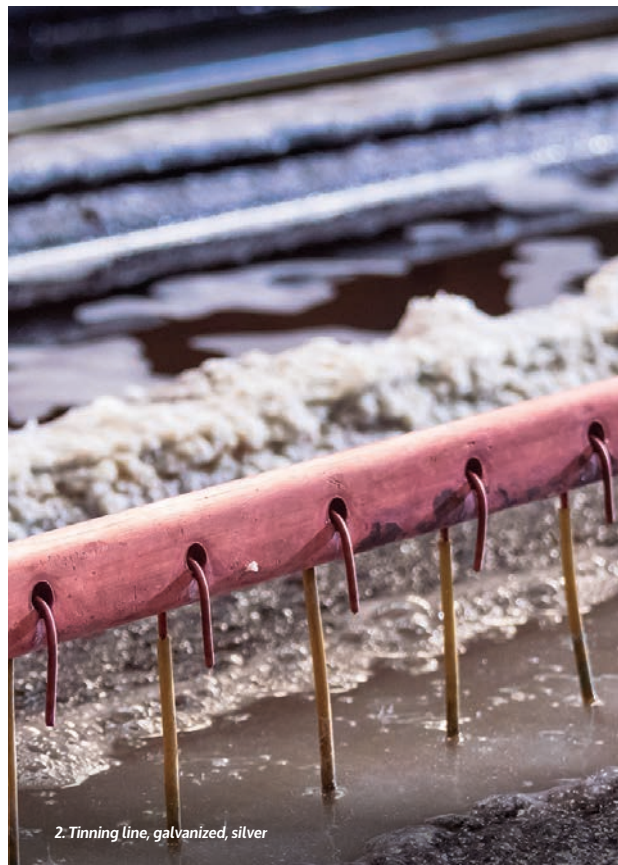
1. Silver line, semiautomated

Type of company: TIER 1

Number of employees: 15

Sales per industry: · Automotive 10% · Electric 70% · Hardware 10%

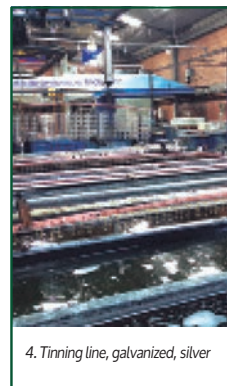
· Other industries 10%



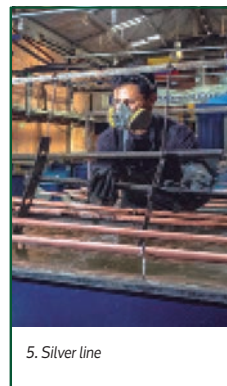
2. Tinning line, galvanized, silver



3. Polishing + sanding line, surface finish



4. Tinning line, galvanized, silver



5. Silver line

Main clients



Certifications

- ISO 9001: 2015
- ISO 14001: 2015
- OHSAS 18001: 2007

★ Key strength

Automotive industry portfolio

- Zinc coating service
- Organometallic service (geomet)
- Phosphate service
- Powder coating

Portfolio for other industries

- Tin coating
- Silver coating
- Copper coating

Equipment

- Zinc drum line with 1T/day production capacity
- Tin drum line with 1T/day production capacity
- Static zinc plating line with production capacity of 5,000 units per day
- Static tin plating line with production capacity of 2,000 units per day
- Silver plating line with production capacity of 1T per day
- Powder coating line with furnace capacity of 29 m³
- Geomet line with production capacity of 500 kg per day

Development capabilities

- Development capabilities for new product lines
- Engineering and innovation in processes

Laboratory capabilities

- Salt spray chamber with 3 m³ capacity
- Fischerscope x-ray spectrometer for measuring material thickness and purity



6. Zinc plated drum line



Company founded in 1962, dedicated to the manufacturing and marketing of mechanical suspension system components, with a production capacity of 700 T per month in leaf springs, U-bolts and sugarcane harvester blades.

- www.organizacionhercules.com
- Carrera 7 N # 52 N - 167
- NIT. 890307671-0
- Cali, Valle del Cauca



1. Production floor

Type of company: Aftermarket

Number of employees: 300

International presence: · United States · Costa Rica · Dominican Republic

· El Salvador · Ecuador · Chile · Peru

Sales per industry: Automotive 100%



2. Production floor



3. U-bolts



4. Sugar Cane Blades



5. Leaf Springs

Main clients

romarcosa.

DDITE S.A.S.
FREEWAY REMOLQUES

Certifications

- ISO 9001: 2015
- DECRETO 1072
- OEA

★ Key strength

Automotive industry portfolio

- Leaf springs
- U bolts

Portfolio for other industries

- Cutting blades for sugarcane harvesters
- Discs for sugarcane harvesters

Equipment

- Heat treatment furnace (quenching and tempering)
- Hot forming
- Cold forming
- Shear cutting machine
- Shot-peening machines
- Powder coating

Development capabilities

- Engineering department for the development of new products with virtual simulation, mechanical testing and testing for leaf springs
- Computer Aided Design (CAD)
 - Autodesk Inventor

Laboratory capabilities

- Fatigue testing machine
- Load testing
- Metallography laboratory



6. Production floor



RIDUCO

Riduco S.A.

Company founded in 1969, leader in plastic transformation (injection molding and extrusion). Industrial customers in sectors such as automotive, motorcycle components, home appliances, food, beverages, hygiene and personal care, agricultural industry and logistics products, amongst others.

- www.riduco.com
- NIT. 890801451-5

- Carrera 32 # 107 - 17
- Manizales, Caldas

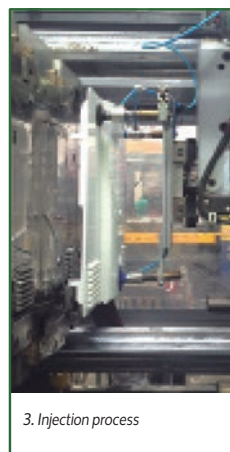


1. Production facilities in Manizales

Type of company: TIER 1 | Number of employees: 495 | International presence: · Argentina · Bolivia · Brasil · Chile · Costa Rica · Ecuador · México · Panamá · Perú | Sales per industry: · Automotive 57% · White line 11% · Food 7% · Hygiene and personal care 11% · Industrial 14%



2. Production floor



3. Injection process



4. Ultrasonic welding assembly by robot



5. Injection crates for beverage

Main clients



Certifications

- IATF 16949: 2016
- ISO 9001: 2015

Automotive industry portfolio

- Exterior: front and rear bumpers, hood grills, lower grills and cowl grills, wheel arches, front and rear rockers, bumper absorber, bumper guides, bumper inserts
- Interior: instrument panels, door trim panels, trunk and liftgate trim, dashboards A, B and C pillar trim (lower and upper)
- Motorcycle components: bodyworks, rear and front mudguards, chain covers, side covers, tails, reflectors, lenses and bases for headlamps, taillamps and signal lamps

Portfolio for other industries

- Coffee cup lids
- Flip top cup lids and dispensers
- Home appliances components (washing and cooling)
- Export basket containers for the agricultural industry
- Plastic pallets
- Bubble wraps
- Extruded slip sheets

- Raw material dehumidifiers
- Ultrasound, vibration and high frequency sealing
- Sheet and bubble wrap extrusion processes
- Assembly lines
- Hot stamping and buffering printing

Development capabilities

- Laser welding, MIG, TIG
- Electrical discharge machining
- Heat treatments
- Ultrasound polishing
- Immersion chemical graining
- Manufacturing workshop, for molds modification and maintenance
- Mold design, manufacture and monitoring services with international suppliers
- Computer Aided Design (CAD)
 - Autodesk PowerShape
 - SOLIDWORKS by Dassault Systèmes
- Computer Aided Manufacturing (CAM)
 - EDGE CAM by Hexagon
 - Autodesk ArtCAM
 - Autodesk PowerMill

Laboratory capabilities

- Metrology lab
- Dimensional, functional and mechanical strength tests
- Photocolorimeter and light chamber
- Brillometer
- Moisture measurement
- Dynamometer

Equipment

- Injection molding machines with 1 g to 18 kg injection capacity and 7 to 4,000 T clamping pressure
- 2-color and/or materials injection mold machine
- Injection systems: sequential, gas-assisted and high-pressure air
- In Mold Labeling (IML)
- 3- to 6-axis robot-assisted parts removal and assembly
- Bridge crane systems with a load capacity from 3 to 50 T
- Feeding of material by vacuum system, gravimetric feeders and dispensers

★ Key strength



RIDUCO



Rinder Riduco S.A.S.

Company founded in 2013 as a joint venture between Riduco S.A. and Rinder Corporation (owned by Uno Minda Group), that seeks the integration with the two and four-wheeler automotive sector, offering development, manufacturing and marketing services of all kinds of lighting devices.

- www.riduco.com
- Carrera 32 # 107 - 17 La Enea
- NIT. 900596298-1
- Manizales, Caldas



1. Vacuum metallizing

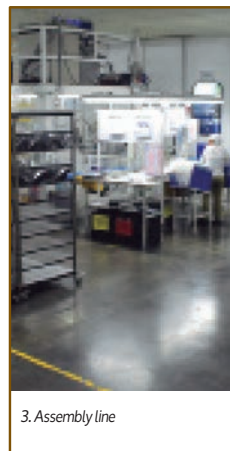
Type of company: TIER 1

Number of employees: 31

Sales per industry: Automotive 100%



2. Finished product



3. Assembly line



4. Quality testing



5. Ultrasound

Main clients



Automotive industry portfolio

- Head lamps
- Stop lights (brake lights)
- Signal lights (turn signals or blinkers)

Equipment

- Vacuum metallizing of all types of shapes and materials (ABS, PC, PA66, PP, etc.) with 600 mm radius metallizing capacity
- Headlight assembly by 6-axis robotic siliconized system.
- Ultrasonic sealing equipment.
- 8 assembly lines that have pneumatic screwdrivers and electrical devices to verify product quality

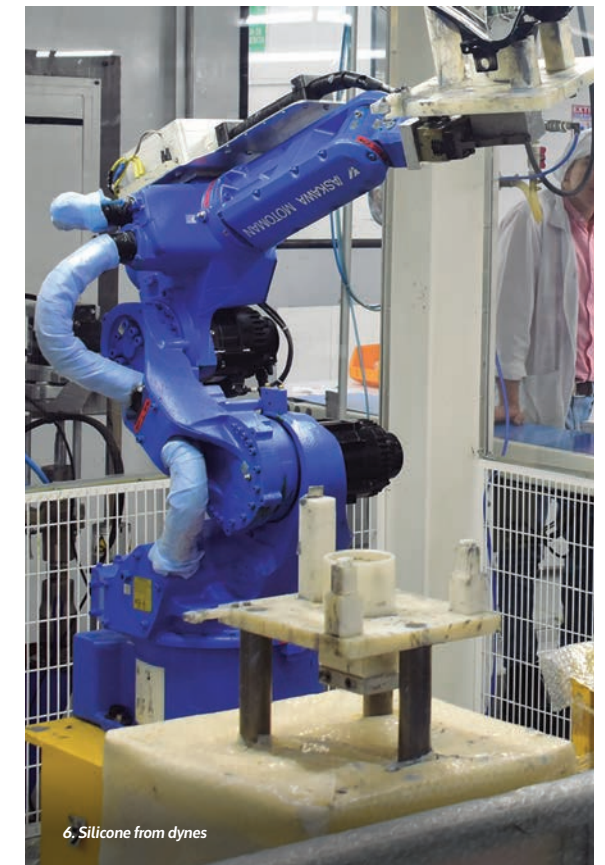
Development capabilities

- Design and development of lighting systems that meet international standards - processes that range from product to tooling manufacturing, according to customer requirements
- Certified laboratory for homologation of parts, photometric and optical test, vibration, climate chamber, dust exposure tests etc

★ Key strength

Laboratory capabilities

- Fugometer tests, electronic tests
- Dimensional, functional and mechanical strength tests
- Release tests for the silicone application and metallizing process
- Moisture measurement
- Dynamometer



6. Silicone from dynes





Rodríguez López Auto S.A.S.

Company founded in 1981, dedicated to the manufacturing, industrialization and homologation of special vehicles. It is also engaged in the marketing, maintenance, innovation, development and homologation of components for special vehicles. It has a production area of 4,200 m². Its products are certified by the main global commercial vehicle manufacturers.

- www.rodriuezlopez.com
- km 6 via Yumbo - Aeropuerto Bodega
- NIT. 901102406-3
- Manzana L.Zona Franca del Pacífico
- Palmira, Valle del Cauca



1. Specialized carpentry handwork

Type of company: Ambulance body builder

Number of employees: 21

International presence: · Spain · Ecuador · Panama · Chile

· Honduras · Peru · Costa Rica · Bolivia

Sales per industry: Automotive 100%



2. RLA electronic control panel



3. Air conditioning systems



4. Double sided door control panel



5. Integral aerodynamic 360° spoiler

Main clients



Certifications

- ISO 9001: 2015

Automotive industry portfolio

- Ambulances
- Riot control vehicles
- Military vehicles
- Tactical vehicles
- Passenger transport vehicles
- Mobile clinics

★ Key strength

Equipment

- Robotic machine or numerical control machines
- Flat sheet and tube-shaped laser cutting *
- CNC milling machine *
- Wood cutting pantograph for Medium Density Fibreboard (MDF) (moisture resistant and fire retardant), polyester, plywood and floor
- Robotic paint center with infrared and ultraviolet drying oven *
- Exterior paint booth
- Interior paint booth with polymerization process
- Machinery for metalworking and manufacturing of fiberglass parts

*Equipment at plant in Spain

Development capabilities

- Dedicated development staff with software
- Computer Aided Design (CAD)
 - SOLIDWORKS by Dassault Systèmes



6. Volkswagen Crafter ambulance



7. Volkswagen Crafter ambulance





Ropim S.A.S

Founded in 1976, Ropim S.A.S has 1,350 m² of production area where comprehensive package flow solutions are developed to help companies solve the most demanding internal logistics challenges.

- www.ropim.com
- materiales@ropim.com
- NIT. 860045210
- Autopista Bogota-Medellin Km 2-5 conjunto industrial AEPI Bodega 13
- Cota, Cundinamarca



1. Product

Type of company: TIER 1

Number of employees: 51

International presence: · Bolivia · Ecuador · Panama · Paraguay · Peru · Venezuela

Sales per industry: · Automotive 19% · Materials handling 52% · Goods trade 29%



2. Air tanks



3. Finished air tanks



4. Dashboard



5. Roller

Main Clients



Certifications

- ISO 9001: 2015

Automotive industry portfolio

- Air and fuel tanks

★ Aspecto destacado

Portfolio for other industries

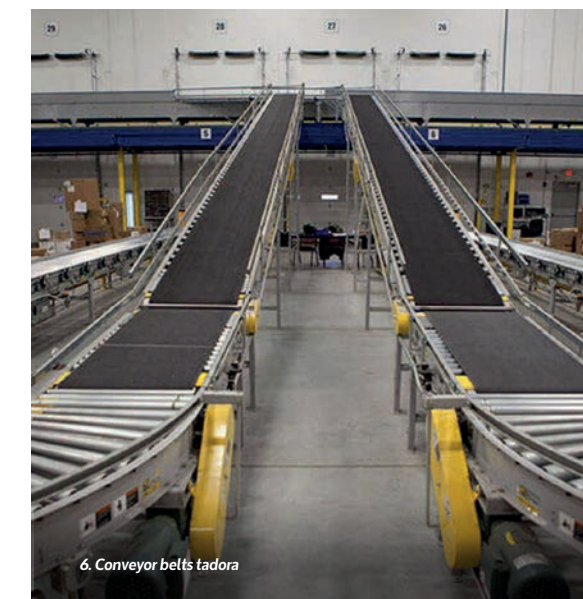
- Conveyors
- Shelves
- Pick to light
- Ramps levelers
- Robotics cells
- Control boards
- Rollers
- Roller conveyors
- Sorting systems
- Order picking systems
- Order classification system
- Truck loading systems

Equipment

- CNC punching machine
- Lathes
- Welding equipment
- NC bending machine
- Hydraulic press
- Rolling machines
- Paint oven

Development capabilities

- Computer Aided Design (CAD)
 - Inventor by Autodesk
 - AutoCAD by Autodesk
- Equipment design and supply engineering
- Project planning and sizing



6. Conveyor belts tadora





SAUTO ANDINA S.A.S
Sauto Andina S.A.S.

Grupo Sauto Andina SAS was founded in 1981. It has a total area of 8,400 m² production area with four production lines: heavy automotive (stamped parts, fuel tanks, air tanks, motorcycle tanks), seat belts for OEMs and the aftermarket, leather linings for the aftermarket and fireproof and safety doors for home.

- www.sautoandina.com
- Avenida Carrera 50 # 5F - 19
- NIT. 800050088-3
- Bogota, Cundinamarca



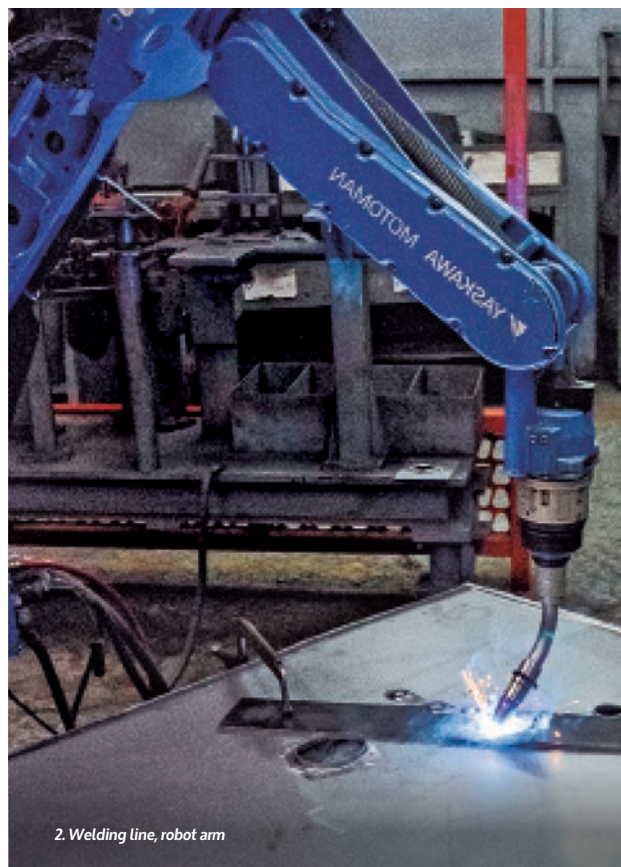
1. Production plant, truck fuel tanks

Type of company: · Aftermarket · TIER 1

Number of employees: 220

International presence: · Ecuador · Mexico

Sales per industry: · Automotive 83% · Construction 17%



2. Welding line, robot arm



3. Assembly line, belt



4. Sewing line, upholstery



5. Sewing line, upholstery

Main clients



Certifications

- IATF 16949: 2016
- BIQS: LEVEL 3 GM
- ISO 9001: 2015
- NTC 1570

Automotive industry portfolio

- Metal mechanical parts
 - Floor panels
 - Fuel tanks for trucks and motorbikes
 - IP support cross beams
 - Hoods
 - Roofs
 - Air tanks
 - Battery boxes
 - Temporary metal seats for bus and truck rolling chassis
- Seat belts
- Leather, fabric and vinyl covers for vehicle chairs

Portfolio for other industries

- Metal doors for social housings
- Veneer metal doors
- Fire doors for commercial use

Equipment

- Steel cutting shears
- Mechanical presses with 35 to 250 T clamping pressure
- Hydraulic presses with 800 T clamping pressure
- Electrostatic paint line
- Laser cutting robots
- Waterjet cutting robots
- Punch press
- MIG welding robot
- Welding equipment
 - TIG
 - MIG
 - Spot
 - Projection
 - Seam

- CNC machining center
- CNC leather cutting machine
- Lining sewing machine for airbag equipped car seats
- Flat sewing machines
- Plastic injector mold machines

★ Key strength

Development capabilities

- Design, development and manufacture of molds and punching dies of up to 2.5 x 2 m of area
- Computer Aided Design (CAD)
 - Autodesk Mechanical Desktop
 - Autodesk Inventor
- Computer Aided Manufacturing (CAM)
 - Mastercam by CNC

Laboratory capabilities

- Dimensional tests
 - Dimensional calibrations and evaluations with 3D measuring arm
- Functional tests
 - Abrasion tests for upholstery materials
 - Flammability tests
 - Stress tests
 - Retractor cycling tests
 - Cycling and durability tests for seat belts
- Salt Spray Chamber
- Inspection light chamber





Servintec S.A.S.

Manufacturing company founded in 1970 dedicated to the metal mechanical, automotive, motorcycle and agricultural industries. Within its production area of 6,000 m², it has the human resources and technology to provide solutions to meet engineering, research, design, development and validation requirements. It has expertise in special materials handling and welding processes.

- www.servintec.com.co
- Carrera 127 # 15 B - 10
- NIT. 860026892-6
- Bogota, Cundinamarca



1. Bending process

Type of company: · Aftermarket · TIER 1 · TIER 2

Number of employees: 75

International precense: · United States · Ecuador

Sales per industry: · Automotive 70% · Agricultural 20% · Other industries 10%



2. FARO Arm measuring



3. Control Jig



4. Press machine



5. 3D Design capabilities

Main clients



Certifications

- IATF 16949: 2016
- BIQS: GM
- ISO 14001: 2015

Automotive industry portfolio

- Exhaust systems
- Metal stamped components

Portfolio for other industries

- Metallic structures
- Chair and table frames
- Stairs, railings, walkways
- Metal doors and louvers

Equipment

- CNC pipe bending machine (up to 3" diameter)
- Semiautomatic pipe bending machine (up to 5" diameter)
- High-speed tube cutter
- Welding
 - MIG
 - TIG
 - Spot
 - Projection
 - Seam
- 100 to 250 T presses
- 30 to 250 T punch press machines

★ Key strength

Development capabilities

- Computer Aided Design (CAD)
 - AutoCAD by Autodesk
 - Autodesk Inventor
- Design and manufacturing from dies and tooling
- Engineering solutions based on client's requirements

Laboratory capabilities

- Metrology laboratory
 - Dimensional calibration and evaluation with 3D measuring arm
 - Dimensional analysis
 - Functional testing
- Welding Laboratory
 - Penetration testing
 - Dye penetrant inspection
- Finite element analysis



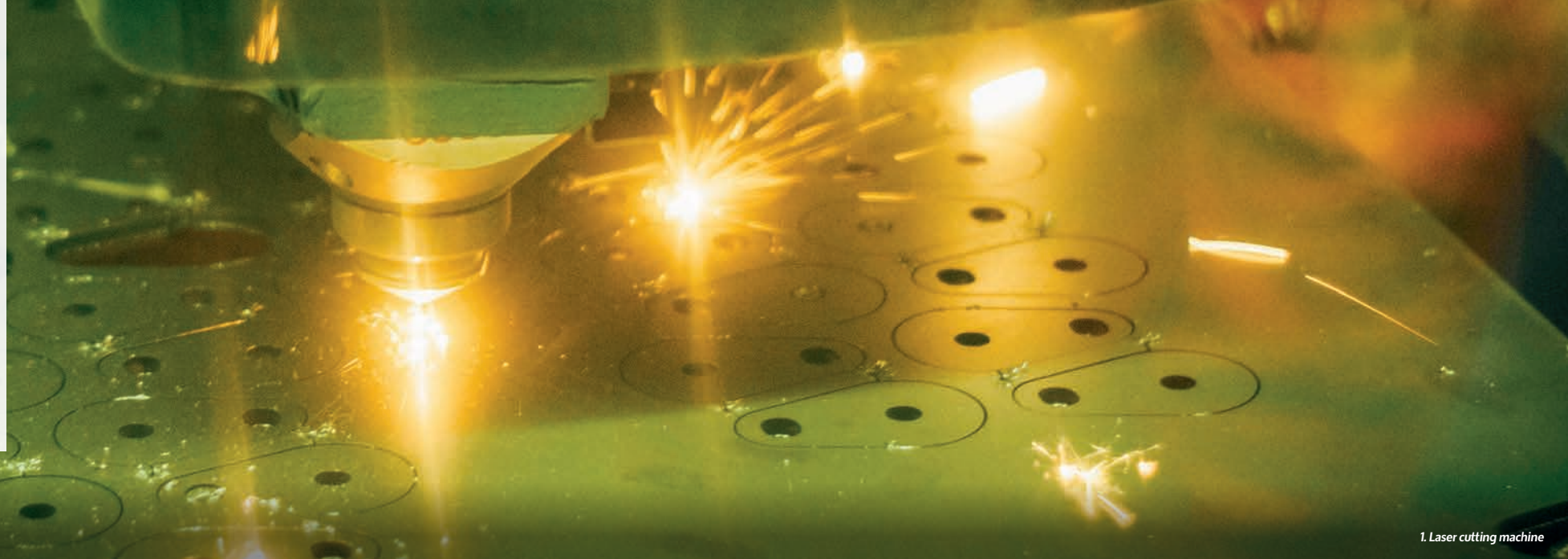


SISTEMAS DE INNOVACIÓN EN INGENIERÍA E INTEGRACIÓN

SI³ - Sistemas de Innovación en Ingeniería e Integración S.A.S.

A group of companies created by Colauto as one of its business lines in 2000. Since 2016 it evolved into the SI³ business group. In its area of 14,000 m² it offers process engineering and development services for molds, dies and any kind of devices customized to the specific requests of clients.

- www.si-3.tech
- Carrera 43A # 1- 50 Oficina 805/6 Torre 3 San Fernando Plaza
- NIT. 900981071-6
- Medellín, Antioquia



1. Laser cutting machine

Type of company: · TIER 1 · TIER 2

Number of employees: 425

International presence: Spain

Sales per industry: · Automotive 85% · Other industries 15%



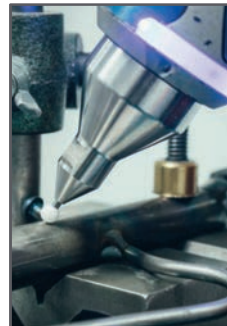
2. Chassis



3. Plastic injection molding machine



4. Welding robot



5. FARO arm

Main clients



Certifications

- ISO 9001: 2015
- ISO 14001: 2015
- IATF 16949: 2016
- ANPQP: RENAULT

Automotive industry portfolio

- Injected plastic parts (150-1100 T)
- Injection of polyurethane foams
- Metalworking parts
- Motorcycle chassis
- Motorcycle seats
- USB charger for motorcycles

Portfolio for other industries

- Assembly process and subassemblies for other industries
- Metalworking parts for appliances and other industries

Equipment

- Plastic injectors from 150 to 1,100 T
- Polyurethane injector
- Laser cutter
- 3D printer
- Cutting line
- Hydraulic shears
- Circular saws for metal
- CNC tube benders
- Presses from 30 to 1,000 MT
- MIG, Robot, Spot and TIG welding equipment
- CNC lathes
- CNC vertical machining centers
- Wire EDM machine
- Drills
- Powder paint application plant

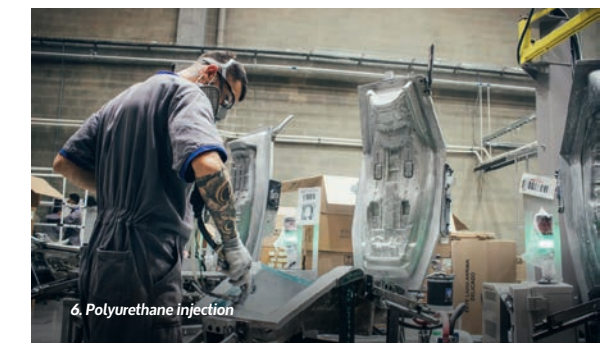
★ Key strength

Development capabilities

- Design and manufacture of molds, punching dies and devices
- Computer Aided Design (CAD)
 - NX by Siemens
 - Solid Edge by Siemens

Laboratory capabilities

- Metrology laboratory
 - Dimensional analysis
- Calibrations and dimensional evaluations
 - Dimensional calibrations and evaluations with 3D measuring arm (FARO)
- Hardness tests



6. Polyurethane injection

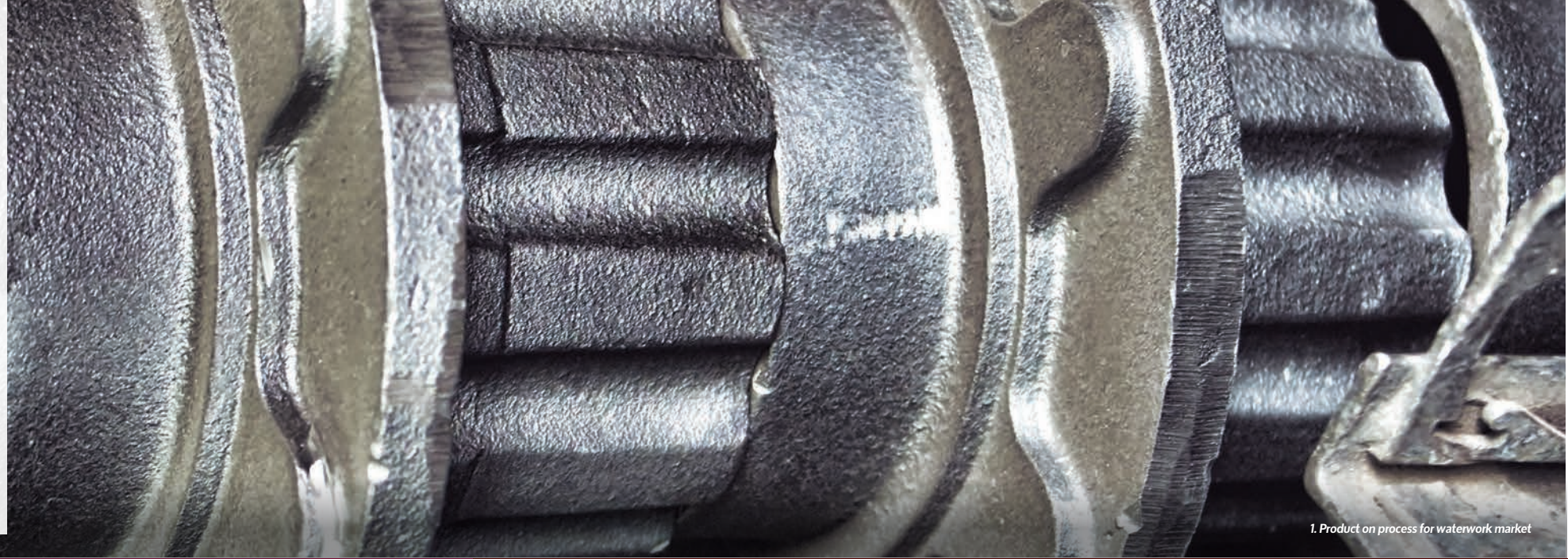




Sicolsa - Siderúrgica Colombiana S.A.

Foundry company of iron and steel with more than 40 years of experience and presence in different countries. Specialized in manufacturing parts for the following markets: Automotive: Suspension and brake systems parts for load and passenger vehicles; Water Work System: Accessories to repair and install water work systems; Agriculture: Parts for agricultural rasts, tillage and planting equipment; Electrical: Accessories to repair and install cable tie for medium and high voltage lines; Industrial: Special parts that are manufactured according to the needs of an industry.

- www.sicolsa.com
- NIT. 890804714-0
- km 9 via la Magdalena
Parque Industrial David Uribe
- Manizales, Caldas



1. Product on process for waterwork market

Type of company: · Aftermarket

Number of employees: 118

International presence: · Argentina · Chile · Ecuador · United States · Peru · Uruguay

Sales per industry: · Automotive 55% · Water supply and distribution industry 29% · Agricultural 8% · Industrial 4% · Electric power industry 4%



2. Pouring carousel of automatic molding machine



3. Finished product hub



4. Finishing process



5. Cores process elaboration

Certifications

- ISO 9001: 2015

★ Key strength

Automotive industry portfolio

- Catalogue with more than 500 references developed for the aftermarket for vehicles Ford, Chevrolet, Kenworth, International, Freightliner, Mack, Hino, Mitsubishi, Mercedes, Volkswagen, etc.
- Types of Parts:
 - Wheel hubs
 - Hangers for suspension systems

Portfolio for other industries

- Custom made components

Equipment

- Induction heating furnace
- Automatic molding machine SINTO FBO IV
- Squeezers for mechanical molding process
- Machining centers
- Paint shop

Development capabilities

- Tooling design supported by CNC and specialized software.
- Development of parts based on samples, plans and models.

Laboratory capabilities

- Chemical composition via spectrometer
- Metallography
- Hardness test
- Mechanical properties (tensile strength, sedation and elongation %)
- Dimensional control
- Paint thickness and adherence



6. Pouring area





SIMONIZ S.A.

Our Brand SIMONIZ® was born in London (England) and arrived to Colombia in the 1940s to establish as Norwich de Colombia. It started with the manufacturing of waxes and other cosmetics products for the domestic automotive industry and was later established as SIMONIZ S.A.. It currently has a production area of 6,000 m² as well as 10,000 m² of storage area.

- www.simonizauto.com
- Carrera 127 # 15B - 60 Bodegas 3,4,5
- Bogota, Cundinamarca



1. Injection and blow molding plant

Type of company: Aftermarket

Number of employees: 700

International presence: · South America · Costa Rica · Nicaragua

· Honduras · Guatemala

Sales per industry: · Automotive 60% · White line 40%



2. Production floor, filling and packaging line



3. Production floor, sprays production line



4. Production floor, filling and packaging line



5. Production floor, filling and packaging line

★ Key strength

Automotive industry portfolio

- Automotive exterior cleaning products: car washing products, shampoo, ecological washing, waxes (liquid, paste and spray), polishers, restorers, windshield washer fluid and tire cleaners
- Car interior cleaning products: silicones, air fresheners, odor removers, upholstery and leather cleaners
- Vehicle maintenance products: fuel additives, oil additives, coolants and lubricants
- Premium line of products for high performance car cleaning and care: waxes, shampoo, air fresheners and protectors for leather, wheels, windows and plastics
- Vehicle accessories: Trunk organizers and carpet, rubber and rubber-carpet mats
- Radiator, fuel and windshield washer bottle caps
- Automotive clamps

Portfolio for other industries

- Binner brand products for home cleaning and care
- Cleaning and care products for all types of floors, furniture, carpets and upholstery, walls and glasses, bathrooms, showers and kitchens

Equipment

- Manufacturing plant for aerosol products
- Injection molding machines with 60 to 900 T clamping force
- Blow molding machines with 60 ml to 5 L capacity
- PET blow molding machines
- Thermoforming machine
- Continuous die cutting presses of up to 100 T capacity
- Product fillers from 1 to 12 nozzles
- Production plant for car interior mats (PVC, carpet and rubber carpet) and car roadside emergency kit bags
- CNC machining centers

Development capabilities

- Manufacturing engineering, development capacity of new production lines
- Design and manufacture of molds and dies
- Computer Aided Design (CAD)
 - SOLIDWORKS by Dassault Systèmes
 - AutoCAD by Autodesk
 - Autodesk Inventor

Laboratory capabilities

- Profile projector
- 3D printer for packaging modeling and simulation
- Hardness testers
- Refractometers
- Metrology laboratory
- Dimensional and functional tests
- Physicochemical testing laboratory
- Metrology equipment for aerosol processes
- Product pilot plant reactor



Company founded in 2000 with the purpose of providing solutions for the industry, through the design and manufacture of products that increase the operational efficiency and enhance the competitiveness of the automotive, white line, electronics, tools, agricultural, naval and aeronautical sectors, among others. It has 720 m² and 6 production areas: plastics, rubbers, thermoforming, metal mechanical, nosag springs and R&D&I.

- www.solocauchos.com
- Parque industrial El Rodeo Bodega #2 Via Sena - TCC
- Manizales, Caldas
- NIT. 810003515-3

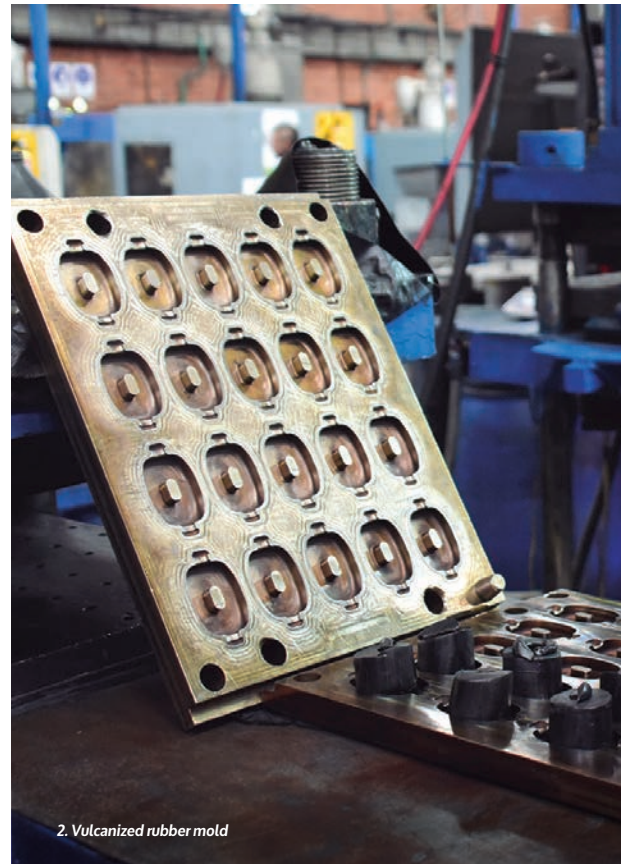


1. Injection area

Type of company: TIER 2

Number of employees: 44

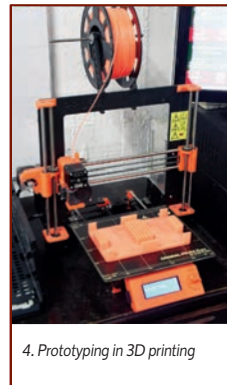
Sales per industry: · Rubber 20% · Plastics 60% · Metal 20%



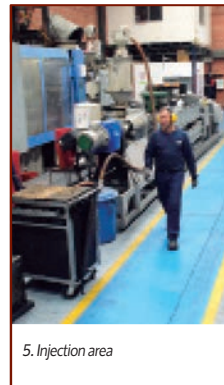
2. Vulcanized rubber mold



3. Vulcanized rubber parts



4. Prototyping in 3D printing



5. Injection area

Main clients



Certifications

- ISO 9001: 2015

Automotive industry portfolio

- Special screws
- Machining
- Rubber, silicone and plastic components

Portfolio for other industries

- Special screws
- Rubber, silicone and plastic components

Equipment

- 80 to 780 T injection molding machines
- Rubber vulcanizing presses
- CNC machining centers
- CNC lathe
- Conventional lathe
- Rotary lathe
- Electrical discharge machine
- Milling machine
- Punching presses with 12 to 25 T capacity
- Die punching press with 20 T capacity
- Threading die
- Rolling mill
- 50 T metal gathering machine
- Thermoforming machine

★ Key strength

Development capabilities

- Development of molds and plastic, rubber and metal components

Laboratory capabilities

- Rheology
- Universal testing machine
- Calibrations
- Hardness testing



6. Injection machine 780 T





SOLOMOFLEX S.A.S.

Company founded in 1983, dedicated to the manufacturing and marketing of metal mechanical as well as vulcanized and injected rubber components. The company has the capability to design and develop production and inspection JIGs.

- www.solomoflex.com
- NIT. 900809220-2
- Calle 9 # 2 - 245 Zona Industrial La Badea
- Dosquebradas, Risaralda

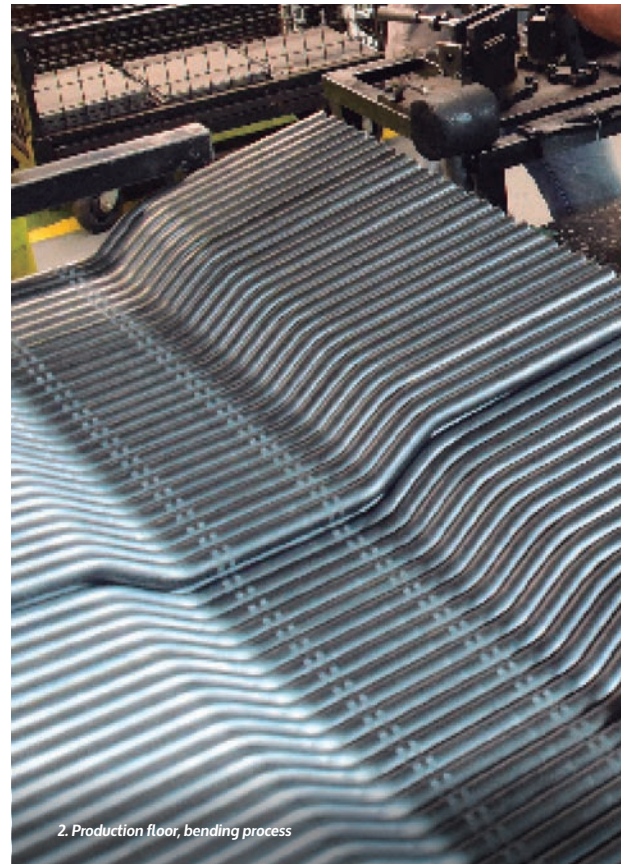


1. Production floor, welding process

Type of company: TIER 1

Number of employees: 180

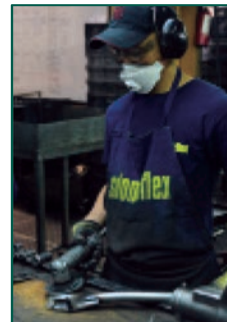
Sales per industry: · Automotive 95% · Other industries 5%



2. Production floor, bending process



3. Production floor, hydraulic press



4. Production floor, finishing process



5. Die cutting process

Main Clients



Certifications

- ISO 9001: 2015

★ Key strength

Automotive industry portfolio

- Metal mechanical
 - Swing arms
 - Chassis
 - Sidestands
 - Centerstands
 - Crashbars
 - Handlebars
 - Cargo trays
- Rubber
 - Plugs
 - Footrests
 - Retaining rings

Portfolio for other industries

- Chairs
- Metallic structures for toys
- "Three Wheeler" Tricycle

Equipment

- CNC machining centers (bench size of up to 890 x 500 mm and load capacity of up to 300 kg)
- Wire eroding machine
- Surface grinding
- CNC tube bending machine (up to 80mm radius)
- Die cutting machines (maximum capacity of 200 T)
- Hydraulic presses
- Hydraulic press with draw cushion
- Sheet metal trimming machines

- MIG welding equipment
- TIG welding equipment
- Knitted welding equipment
- Projection welding equipment
- Robotic arm for welding
- Rubber and polyurethane injection machine (maximum volume of 150 g)
- Boring machine
- Coordinate measuring arm - FARO
- Automatic threading machine
- CNC plasma cutting machine
- Laser cutter for sheet and tube

Development capabilities

- Computer Aided Design (CAD)
 - SOLIDWORKS by Dassault Systèmes
- Cutting (progressive and coaxial), forming and stamping dies
- Vulcanized rubber injection molds
- Welding and inspection JIGs
- Drawing-based development of parts

Laboratory capabilities

- Dye penetrant testing
- Weld penetration destructive test
- Verification and dimensional confirmation of inspection and manufacturing JIGs using CMM with articulated arm
- Calibration of measuring equipment (vernier caliper, outside micrometer screw gauge, perpendicularity square, scales and internal diameter pattern rings)
- Rockwell, Superficial Rockwell and Brinell hardness tests



Company founded in 2017, dedicated to the manufacturing and marketing of metal mechanical components, plastics and rubbers for the automotive, industrial, hydrocarbons and construction industries. It has a total area of 1,200 m² and highly trained personnel pursuing a continuous improvement approach.

- www.sumiparts.com
- Calle 9 # 34 - 94
- NIT. 901059573-1
- Bogota, Cundinamarca



1. Laser cutting service

Type of company: TIER 1

Number of employees: 50

Sales per industry: - Automotive 40% - Construction 30% - Other industries 30%



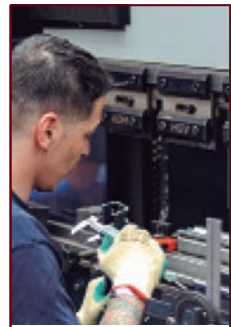
2. Fabrications and special welds



3. Infrastructure and capacity for its developments



4. Quality and compliance in your projects



5. Folding and bending sheet

Main Clients



Automotive industry portfolio

- Ball joints
- Metallic supports
- Plastic supports
- Rubber and plastic seals
- Seat belts

Portfolio for other industries

- Machined in stainless steels
- Special welding
- Rubber floors
- Road signs
- Extrusion of plastics and rubbers

Equipment

- Vertical machining center
- CNC lathes
- Conventional milling machines
- Parallel lathes
- Rotary lathes
- Automatic threading machine
- CNC sheet metal bending machine
- Roller machine
- Welding equipment
 - MIG
 - TIG
- Electro polishing equipment
- Punching presses
- Sheet metal cutting machine up to 3/4" in 5 x 10 m format
- CNC sheet metal punching machine
- Plastic extruder
- Plastic injection molding machines

- Rubber mixing mill
- Rubber banbury mixer
- Vulcanizing presses
- Rubber extruder

★ Key strength

Development capabilities

- Development and manufacture of molds and dies
- Development and manufacture of (CAD)/(CAM) models
- Reverse engineering
- 3D print

Laboratory capabilities

- Dimensional analysis
- Hardness analysis



6. Vulcanized floor manufacturing





SUPERPOLO

SUPERPOLO S.A.S.

Company founded in 2001 after the merge of Superbus (Colombia) and Marcopolo (Brasil). Today it is a company dedicated to the transport and metal mechanical sectors. It has a total area of 77,200 m² where equipment for ground transportation of passengers is designed, produced and commercialized.

- www.superpolo.com.co
- NIT. 830092963-2
- km 1,6 - via Siberia - Cota - Finca San Gregorio
- Cota, Cundinamarca



1. Structures assembly line



Type of company: Bus body manufacturer

Number of employees: 1,780

International presence: · South America

· Central America and the Caribbean · Japan

Sales per industry: Automotive 100%



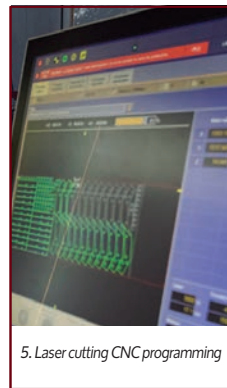
2. Leak testing



3. Paint spray booth



4. Fiber assembly line



5. Laser cutting CNC programming

Certifications

- ISO 9001: 2015

Automotive industry portfolio

- Bus bodies for passenger transport
 - Urban buses
 - Intermunicipal buses
 - Luxury intermunicipal buses
 - Special buses
 - School buses
 - Massive transport buses

Equipment

- Cutting process
 - 2 CNC Trulaser laser cutting machines
 - Cutting thickness: 0.7 – 20 mm
 - Work area: 3,000 mm x 1,500 mm x 115 mm
 - Plasma cutting robot
 - Maximum cutting thickness: up to 6.4 mm
 - EMT CNC cutting saw
 - Maximum cutting thickness: 80 x 80 x 8 mm
- Bending process
 - 3 CNC sheet metal bending machines
 - Folding capacity: 175-160-100 T respectively
 - EMT 3D pipe bending machine
 - Maximum bending thickness: up to 3.5 mm
 - 2D curving machines
 - Maximum bending thickness: up to 3.5 mm
- Welding process
 - More than 100 MIG welding stations
 - More than 10 welding positions specialized in aluminium
- Paint process
 - Paint booth and drying oven

- Primer booth
- Fiber manufacturing process
- Spray Up booth
- Curing oven

★ Key strength

Development capabilities

- Innovation and development engineering for new products
- Computer Aided Design (CAD) for 3D modeling of products and tools
 - SOLIDWORKS by Dassault Systèmes
 - AutoCAD by Autodesk
- Manufacturing of Devices for assembling, welding and validation
- Fiberglass molds for automotive components

Laboratory capabilities

- Quality laboratory
 - Mechanical testing
 - Thermal testing
 - Lighting and sound testing
 - Electric testing
 - Dimensional tests
 - Internal use calibration equipment



Metal mechanical company founded in 2005, dedicated to the design and manufacturing of industrial parts, machines, tools and other special application equipment, as well as the assembly of grids and metal structures for companies of different sectors.

- NIT. 900055948-8
- Parque Industrial Los Pinos - La Enea, bodega #3
- Manizales, Caldas



1. Plant - Machining process

Type of company: · TIER 2 · TIER 3

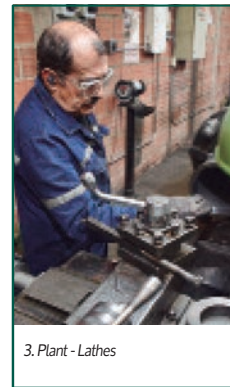
Number of employees: 23

Sales per industry: · Automotive 40% · Food 40%

· Other industries 20%



2. Mechanized products



3. Plant - Lathes



4. Plant - Milling machines



5. Mechanized and welded products

Main clients



Automotive industry portfolio

- Molds
- Structures
- Machined components
- Maintenance services

Portfolio for other industries

- Industrial heating pot
- Tanks
- Industrial cyclone separator
- Diverse structures

Equipment

- CNC parallel lathe
- Lathe
- Milling machine
- MIG, TIG and high frequency welding equipment

★ Key strength

Development capabilities

- Design and development of products and industrial applications
- Machining of different types of materials and dimensions
- Reengineering of machines, equipment and industrial processes



6. Plant - Lathes





TGS - Transport Global Suppliers S.A.S.

Company founded in 2012, dedicated to the manufacturing of friction material of brake systems for heavy vehicles. It has a total area of 7,500 m². Supply brake linings for aftermarket customers around the world and the OE customers in North America.

- www.somosgrupo-a.com
- NIT. 900447550-3
- km 9 via Mamonal Zona Franca de la Candelaria F. 40 - 43
- Cartagena de Indias, Bolivar



1. Production facility

Type of company: · Aftermarket · TIER1 · Truck body manufacturers

Number of employees: 221

International presence: · Canada · Mexico

· Guatemala · Panama · Peru · Venezuela · Chile · Ecuador · China · United States

Sales per industry: Automotive 100%



2. Automated production line



3. Packing process



4. Quality control



5. Product

Main clients



Certifications

- ISO 9001: 2015
- BASC V5 2017

★ Key strength

Automotive industry portfolio

- Brake lining (friction material) for heavy-duty vehicles (drum brakes)

Equipment

- Automated raw material dosing equipment
- Curing presses with up to 1,000 T capacity
- Continuous convection ovens
- Machining equipments
 - Cutting machines
 - Drills
 - Hole punching machines
 - Grinding machines
 - Convection furnaces

Development capabilities

- Computer Aided Design (CAD)
 - Solid Edge by Siemens
- Reverse Engineering
- Engineering design optimization meeting international standards (APQP)

Laboratory capabilities

- Destructive tests for friction materials
 - Functional Analysis Screening Tool (FAST)
 - Swell, growth and dimensional stability
 - Shear strength
 - Particle size analysis
 - Specific gravity

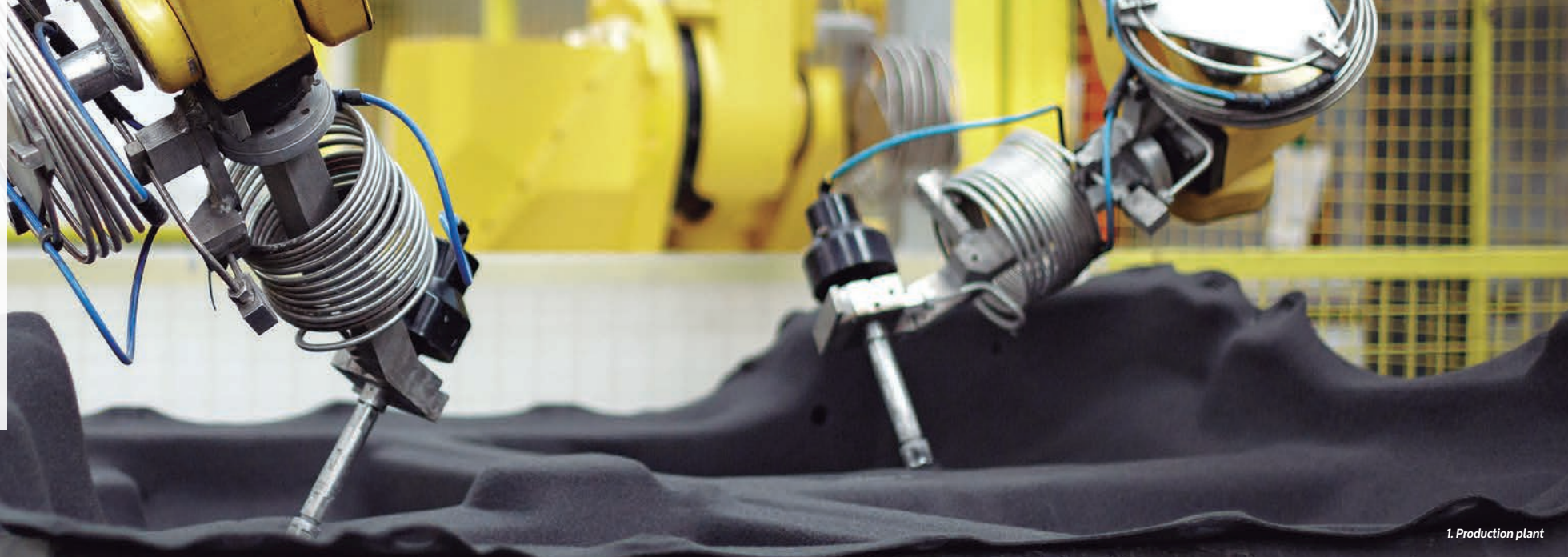


6. Preforming process



TIER 1 supplier for the major automotive manufacturers in Colombia, Venezuela and Ecuador. Founded in 1977, with a thrive to pursue excellence in all aspects and delivering original equipment components with world class quality standards, exceeding our customers expectations.

- www.thermoform.com.co
- km 4 via Cajica - Zipaquirá
- NIT. 860053716-2
- Cajica, Cundinamarca



1. Production plant

Type of company: · Aftermarket · TIER 1

Number of employees: 97

International Presence: · Ecuador · Peru · Chile · United States

Sales per industry: · Automotive 88% · Portable toilets and other industries 10% · Agroindustrial 2%



2. High gauge and definition thermofoming



3. Skid plate Nissan Kicks



4. Trunk protector



5. Trunk protector

Main clients



Certifications

- IATF 16949: 2016
- ISO 14001: 2015
- BIQS LEVEL 5.0
- ISO 9001: 2015
- ASES: B

★ Key strength

Automotive industry portfolio

- Floor carpets
- Trunk trim
- Bumpers
- Thermoformed components
- Carter protectors
- Interior and exterior plastic components for cars and motorbikes
- Motorcycle seats

Portfolio for other industries

- Portable Toilets
 - Recirculating and latrine type portable toilets
- Material handling appliances
 - Trays
- Construction
 - Thermoformed plastic laundry sinks
- Agricultural industry
 - Stackable containers for handling and transportation of perishables

Equipment

- Heavy gauge sheet extrusion
- Vacuum-forming
- Compression thermoforming
- Waterjet robotic cutting

Development capabilities

- Design and development of prototypes
- Customized thermoforming
- Design and manufacturing of molds and thermoformed parts
- Computer Aided Design (CAD)
 - Product Design & Manufacturing Suite by Autodesk
 - Solid Edge 2021 by Siemens

Laboratory capabilities

- Dimensional tests
- Functional tests



6. Production floor





TNK - Terminales Automotrices S.A.

Company created in 1986, manufacturer of automotive steering and suspension components with a total area of 4,200 m². The quality of TNK has allowed it to be OEM supplier to the main assembly plants in the region and also to be an aftermarket producer for the leading vehicle brands in the world.

- www.tnk.com.co
- NIT. 830021100-1
- km 1,5 via Funza - Siberia Parque Industrial San Diego Bodega 4 F
- Funza, Cundinamarca



1. Automated powder coating process

Type of company: · Aftermarket · TIER 1

Number of employees: 100

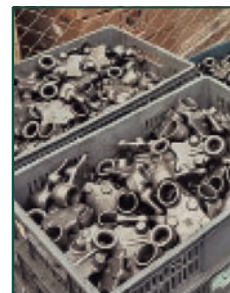
International presence: · United States · Central America · Mexico

· Ecuador · Chile · Peru · Bolivia · Venezuela

Sales per industry: Automotive 100%



2. Ball joints, tie rods and tie rod ends



3. Production plant, raw materials, cold and hot forging



4. Production plant, device design and manufacturing



5. Production plant, CNC machining process

Main clients



Certifications

- ISO 9001: 2015
- IATF 16949: 2015
- ISO 14001: 2015

★ Key strength

Automotive industry portfolio

- Suspension components for automotive applications
 - Ball joints
 - Axial joints
 - Tie rod ends
 - Stabilizer link
 - Wheel hubs
 - Hydraulic and assisted gear
 - Control arm

Portfolio for other industries

- Powder coating processes
- Machining processes

Equipment

- Machining center
- CNC machines
- Shear cutting machines
- Drills multi spindle
- Milling machines
- Sheet metal rolling machines
- Hydraulic presses from 30 to 100 T
- Link resistance welding machine
- Punching presses
- Impact marker
- Powder coating tunel
- Broaching machines
- Magnaflux cracks control system

Development capabilities

- Research and design team
- Tooling workshop for
 - Punching dies design and manufacturing
 - Design and manufacturing of assembly and verification jigs
- Computer Aided Design (CAD)
 - Autodesk Inventor
- Computer Aided Engineering (CAE)
- Reverse engineering
- 3D scanner

Laboratory capabilities

- Coordinate Measuring Machine (CMM)
- Dimensional calibrations
 - Roughness tester
- Functional testing
 - Impact testing
 - Magnetic-particle testing
- Test laboratory
 - Ball joint, tie rod ends and inner tie rods fatigue testing
 - Dust seals fatigue testing
- Saline chamber test
- Optical comparator
- Metrology laboratory





Tornillos y grapas industriales TGI S.A.S.

Tomillos y Grapas Industriales TGI S.A.S.

Company founded in 2012, dedicated to the production of fasteners for the metal mechanical industry, with a focus on a special products niche in which high quality levels are required. Manufactured in its 600 m² plant, their product range includes products from 1/4" to 1 1/2" in diameter and from 1/2" to 12" in length all available in grade 2, grade 5 and grade 8 quality.

- www.tgi-industrial.com
- Carrera 86 # 14 - 26
- NIT. 90052561-2
- Bogota, Cundinamarca



1. Packaging area, clamps

Type of company: · Aftermarket · TIER 2 · TIER 3

Number of employees: 11

International presence: Panama · Ecuador

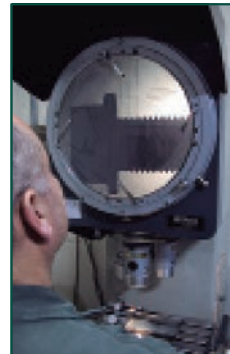
Sales per industry: · Automotive 40% · Other industries 60%



2. Production plant - pointing machine DESC - 02



3. Hydraulic press for U-bolt clamps straightening



4. Laboratory area - profile projector



5. Threading machine RFA - 2

Main clients



Automotive industry portfolio

- Special screws
- Standard screws
 - Medium-carbon steel
 - Alloy steel
- Bolts
- U-bolt clamps
- Rivets

Portfolio for other industries

- Screws for the railway industries
- Screws for metal structural studs

Equipment

- NAT-S3 progressive stamping machine from 1/4 "to 1/2" in diameter and lengths from 3/4 "to 5" and equivalence in mm
- NAT-56 progressive stamping machine from 1/4 "to 3/8" in diameter and lengths from 10 mm to 40 mm
- NAT-S2 progressive stamping machine from 1/4 "to 7/16" in diameter and lengths from 1 "to 2 1/2 "

Development capabilities

- Development of fastening elements development based on specific client requirements

★ Key strength

Laboratory capabilities

- Hardness test
- Tensile test
- Torque test
- Saline chamber test



6. Finished product



Tornillos y grapas industriales TGI S.A.S.





TRACTEC

Tractec S.A.S.

Company founded in 2002, dedicated to the manufacturing of transport and metal mechanical equipment. It has a production area of 18,000 m² where it manufactures flatbeds, dry bulks, lowboys and electric cargo vehicles.

- www.tractecsa.com
- km 1 via Paipa - Tunja
- NIT. 826003190-1
- Paipa, Boyaca



1. Flatbed production line

Type of company: Truck body and trailer manufacturer

Number of employees: 90

International presence: · Dominican Republic · Ecuador

· Guatemala · Honduras · Mexico · Venezuela

Sales per industry: · Automotriz 90% · Electric vehicles 5% · Petroleum 5%



2. Electric vehicle & Hardox dump trailer



3. Plasma CNC cutting machine



4. Electric vehicle line



5. CNC 4-axle Roller

Main clients



Certifications

- My Inner Strenx
- Hardox in my body

★ Key strength

Automotive industry portfolio

- Flatbed trailers
- Detachable gooseneck trailers
- Dry bulks
- Dump bodies
- Tanks (steel – stainless steel)
- Vans
- Ambulances
- Unidades de cementación
- Cement/concrete mixer
- Oil & gas equipment
- Trailer air suspension
- Trailer suspensions
- Cargo electric vehicles

Portfolio for other industries

- Naval industry components

Equipment

- Plasma water table of 15 x 3 m
- 4-axis CNC sheet bending machine with capacity for up to 0.5" in thickness
- Sheet roller machine with a capacity of 1" in thickness

Development capabilities

- Development of logistics solutions for freight transport
- Development of electric cargo vehicle prototypes
- Computer Aided Design (CAD)
 - Solid Edge by Siemens

Laboratory capabilities

- Dimensional analyses
- Functional tests
- Non-destructive welding tests
 - Penetrating dyes



6. Dry bulk production line





Tratamientos Ferrotérmicos S.A.S

Company founded in 1988, specialized in heat treatment services and engineering of metallic materials. The company offers heat treatment of aluminum under aeronautical standard specifications. It has specialized equipment for performing laboratory tests on metals to characterize them in order to evaluate the reliability of parts and components used in different sectors of the industry.

- www.ferrotermicos.com
- Calle 18 A sur # 29 A – 10
- NIT. 800037983
- Bogota, Cundinamarca



1. Mechanical laboratory of materials



Type of company: TIER 2

Number of employees: 33

International presence: · Ecuador · Nicaragua

Sales per industry: · Automotive 10% · White line 6% · Electric 17% · Construction 6% · Hydrocarbon sector 12% · Other industries 49%



2. Execution of chemical composition



3. Durometer (Quality Inspection Laboratory)



4. Tool parts for heat treatment



5. Heat treatment for cementing (Gcv2 furnace)

Main clients



Certifications

- ISO 9001: 2015
- ISO/IEC 17025: 2017

★ Key strength

Automotive industry portfolio

- Heat treatment
 - Temper
 - Tempered
 - Cementation
 - Carbonitriding
 - Nitriding
 - Annealing
 - PVD coating
 - Subtempering
 - Stress relief

Portfolio for other industries

- Heat treatment
 - Temper
 - Tempered
 - Cementation
 - Carbonitriding
 - Nitriding
 - Annealing
 - PVD coating
 - Subtempering
 - Stress relief

Equipment

- Controlled atmosphere furnaces
- Vacuum furnaces
- Spectrometer
- Metallographic microscope
- Durometers
- Stereoscope
- Universal testing machine

Development capabilities

- Development of projects that include metallic materials, mainly steel

Laboratory capabilities

- Chemical composition
- Metallography
- Hardness test
- Tensile test
- X-ray diffraction
- Fractography
- Saline chamber
- Scanning Electron Microscopy - SEM
- Failure Analysis



6. Stereo microscope - Microdurometer



TRIMCO

Seating & Comfort

Trimco S.A.

Colombian company founded in 1970, Tier 1 OEM supplier to the automotive industry, with a 12,000 m² production area. It offers automatic cutting processes, sewing capabilities, seating systems assembly, compression molding and high frequency and ultrasound welding.

- www.trimco.com.co
- Avenida calle 17 # 62 - 53
- NIT. 860028171-3
- Bogota, Cundinamarca



Type of company: · Aftermarket · TIER 1

Number of employees: 300

International presence: · United States · El Salvador · Ecuador · Peru

· Venezuela

Sales per industry: · Automotive 90% · Aeronautical 4% · Auditorium seat systems and collectivity furniture 6%



1. Automated processes



2. Seating systems



3. Seating systems

Main clients



Certifications

- AS 9100
- IATF 16949: 2016
- ISO 9001: 2015
- ISO 14001: 2015
- ASE: B
- BIQS LEVEL 5.0

★ Key strength

Automotive industry portfolio

- Seating systems
- Leather, synthetic leather and fabric seat covers
- Package shelves
- Interior door panels
- Trunk flooring

Portfolio for other industries

- Aircraft products
 - Fabric, natural leather and synthetic leather covers for aircraft seats
 - Aircraft carpets
 - Aircraft curtains
- Galleys upholstery
- Overnight kit
- Auditoriums seating systems and covers

Equipment

- Automatic textile cutting robot
- Industrial sewing machines
- 150 to 200 T presses
- Ultrasound sealing machine
- Ultrasound welding equipment
- High-frequency welding equipment
- Cell assembly line system

Development capabilities

- Computer Aided Design (CAD)
 - Product Design & Manufacturing Suite by Autodesk
 - Solid Edge 2021 by Siemens
- Computer Aided Engineering (CAE)
 - Nastran by Fortran
- Computer Aided Manufacturing (CAM)
 - AccuMark by Gerber Technology





TROMEC S.A.
Soluciones de ingeniería

Tromec S.A.S. - Troquelados Metálicos Técnicos S.A.S.

Metal mechanical company founded in 1979 with a 1,500 m² production plant. It focuses on the automotive metal mechanical sector supplies original equipment: carpet covers, car covers and road kits.

- www.tromec.co
- Calle 11 # 60 - 69
- NIT. 860061594-4
- Bogota, Cundinamarca



1. Production floor - CNC sheet metal cutting machine

Type of company: · Aftermarket · TIER 1

Number of employees: 60

Sales per industry: Automotive 100%



2. Sewing and embroidery plant



3. Mats cutting table



4. Production - Machines for metal mechanical processes



5. CNC lathe

Main clients



Certifications

- ISO 9001: 2015

Automotive industry portfolio

- Metal components for motorcycles
 - Engine mounts
 - Headlight mounts
 - Fuel tank mounts
 - Brake handles
 - Side stands
- Car covers
- Car floor mats
- Emergency roadside assistance kits
- Security films

Portfolio for other industries

- Furniture frames
- Fire extinguishers
- Metallic packaging accessories

Equipment

- 25 to 160 T punch presses
- CNC lathes
- Linear and circular MIG welding line
- Metal cutting shears for up to 10 mm thickness
- Milling machines
- Drills
- Carpet cutting machines
- Flat and open sewing machines
- Overlock sewing machines

★ Key strength

Development capabilities

- Design and manufacturing of punching dies and devices for productive development
- Computer Aided Design (CAD)
 - SOLIDWORKS by Dassault Systèmes

Laboratory capabilities

- Functional testing
- Dimensional analysis



6. Filling and finishing line for fire extinguishers





UMO S.A.

Manufacturing company founded in 1968, dedicated to the metal mechanical, polyurethane and coatings sectors in the automotive industry. It has a total area of 5,600 m², where it manufactures exhaust systems for vehicles and motorcycle seats.

- www.umo.com.co
- Carrera 48 # 14 - 86
- NIT. 890906197-0
- Medellín, Antioquia



1. Manufacturing plant - Guame

Type of company: TIER 1

Number of employees: 350

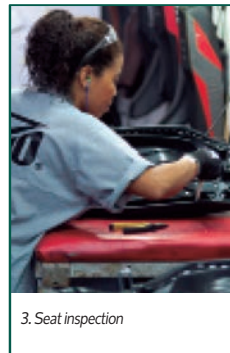
International presence: · United States · Mexico · Dominican Republic

· Costa Rica

Sales per industry: Automotive 100%



2. Seat assembly



3. Seat inspection



4. Sewing process



5. Waterproofing process

Main clients



Certifications

- IATF 16949: 2016
- BIQS: GM
- ASES: RENAULT

Automotive industry portfolio

- Exhaust systems for vehicles
- Exhaust systems for motorcycles
- Motorcycle seats
- High-performance exhaust systems for motorcycles
- Electric bikes

Portfolio for other industries

- High temperature paint

★ Key strength

Equipment

- CNC tube bending machine for 1" to 5" diameter
- Sheet metal cutting machines for up to 1/4" thickness
- Tube cutters for up to 4" diameter
- Mechanical assemblies
- Automatic welding
 - TIG
 - MIG
 - Robotic
- High temperature robotic liquid paint line
- Robotic foam mold injection machine
- Polyurethane mold injection machine
- High-frequency stamper for vinyl fabrics

Development capabilities

- Computer Aided Design (CAD)
 - Autodesk Inventor
 - SOLIDWORKS by Dassault Systèmes
 - CATIA by Dassault Systèmes
 - Creo Elements/Pro by PTC Corporation

Laboratory capabilities

- DMAT-Brazil certified laboratory in macrographs
- 3D measuring arm
- Dimensional control with checking fixtures
- Dynamometer for motorcycles



6. Welding



Company dedicated to the design and injection molding of plastic products since 1971. It can incorporate complementary processes such as thermo-sealing, printing and ultrasound gluing, among others. Its plant of 4,100 m² has been validated by Hero, Honda India and Honda Japan.

- www.unionplastica.com
- Carrera 39 # 12 A – 151 Acopi
- NIT. 890306499-5
- Yumbo, Valle del Cauca



1. Production floor

Type of company: TIER 2

Number of employees: 149

International presence: · Peru · Ecuador · Panama · Costa Rica · Mexico · Guatemala

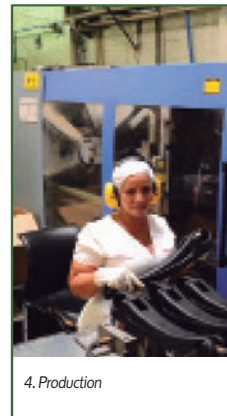
Sales per industry: · Automotive 50% · Other industries 50%



2. Production floor



3. Production floor



4. Production



5. Products

Main clients



Certifications

- ISO 14001: 2015
- ISO 9001: 2015

Automotive industry portfolio

- Plastic components for automotive batteries
- Motorcycle plastic parts
- Plastic components for vehicle interiors

Portfolio for other industries

- Plastic products for the agricultural industry
- Plastic caps for the food industry

Equipment

- Plastic injection molding machines with 40 to 856 T clamping force
- Dehumidifier/dryers
- Desuperheaters
- Gravimetric blenders
- CNC - Electric discharge machine
- Flat surface grinding
- Cylindrical grinding

★ Key strength

Development capabilities

- Computer Aided Design (CAD)
 - AutoCAD by Autodesk
 - SOLIDWORKS by Dassault Systèmes
- Computer Aided Engineering (CAE)
 - Autodesk Moldflow
- Computer Aided Manufacturing (CAM)
 - Mastercam by CNC

Laboratory capabilities

- Dimensional analysis
- Functional testing



6. Production floor



Company belonging to the European VALVER GROUP. It was founded in 2015 and the group has existed since 1986. It has more than 600m² of production plant, 10% of the area of the production buildings of the entire group. Its production activities are focused on the manufacture of products for the decoration, marking and protection of articles from different industries, based on screen printing processes, adhesive and different materials and long-lasting inks.

- www.valver.es
- Calle 78 A Sur #52 A 46
- NIT. 900800050
- La Estrella, Antioquia



1. Screen printing booth

Type of company: TIER 1

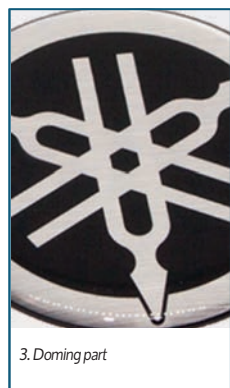
Number of employees: 61

International presence: Mexico

Sales per industry: · Automotive 95% · Other industries 5%



2. Automatic printing



3. Doming part



4. Kromex part



5. Metal part

Main clients



★ Key strength

Automotive industry portfolio

- Decals
- Emblems
- Doming
- Logos
- Kromex
- Decorative and protective panels
- IML

Portfolio for other industries

- Decals
- Emblems
- Doming
- Logos
- Kromex
- Decorative and protective covers and panels
- IML

Equipment

- Serigraphy
- Cut
- Conformed
- Laser
- Thermal conformed
- Plotter
- Resin application
- Laminate
- Adhesived

Development capabilities

- Computer Aided Design (CAD)
 - Rhinoceros 3D by Robert Mcneel & Associates

Laboratory capabilities

- Basic tests are carried out in the Colombian plant and in Portugal's own laboratory
- Saline chamber
- Humidity
- Uv
- Surface tension



6. Semi-automatic printing



Vitro Colombia S.A.S.

The company produces high quality tempered and laminated automotive glass since 1996. Their experience as glass manufacturer have made them the most trusted choice among distributors, insurance companies and installers.

- www.vitro.com.co
- Carrera 3 este # 6B-41
- NIT. 860031699
- Chia, Cundinamarca



1. Laminating line – Autoclaves

Type of company: · Aftermarket · TIER 1

Number of employees: 273

International presence: · United States · Mexico · Ecuador

Sales per industry: Automotive 100%



2. Laminating line – Furnaces area



3. Production plant – Cutting area



4. Laminating line – Storage furnaces area



5. Laminating line – Assembly area

Main clients



Certifications

- ISO 9001: 2015
- ISO/IEC 17025: 2017

Automotive industry portfolio

- Laminated windshields
- Tempered glass for side windows and backlites

Equipment

- Bavelloni cutting machines
- Bavelloni griding machines
- TAC-Progress drillers
- Glaston bending furnaces
- Glaston tempering Furnaces
- Autoclaves

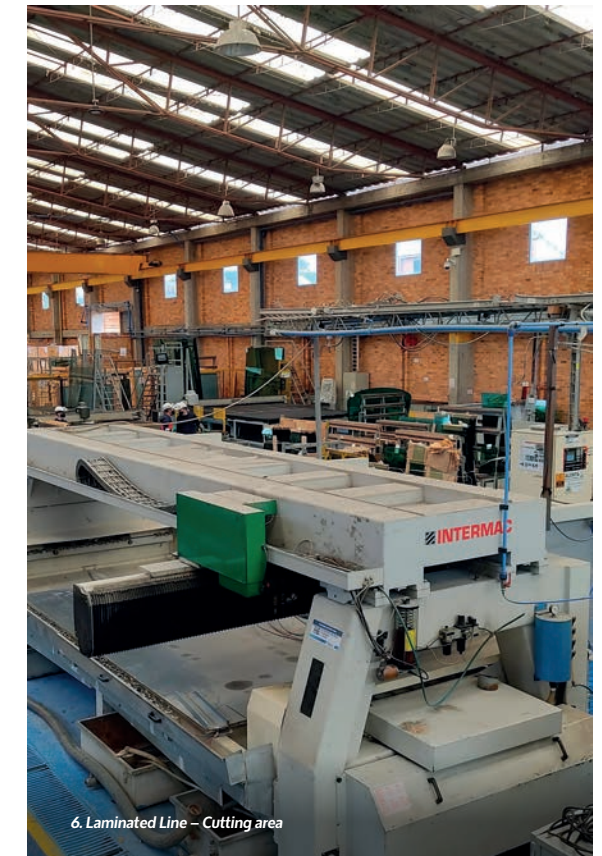
Development capabilities

- FARO measurement arm
- CAD softwares for reverse engineering, process capable of developing any piece of glass for the automotive market

★ Key strength

Laboratory capabilities

- Laboratory accredited under ISO 17025, with the capacity to test crystals under ANZI Z26 standards; INEN1669 and NTC1467



6. Laminated Line – Cutting area





Yazaki Ciemel S.A.

Company founded in 1968 that joined with the Japanese-origin Yazaki Corporation in 1995. It has a production area of 11,000 m² where it manufactures electric harnesses for the automotive industry (trucks, cars and motorcycles).

- www.yazaki.com.co
- Autopista Norte km 21
- NIT. 832000402-6
- Chia, Cundinamarca



1. Circuit preparation

Type of company: TIER 1

Number of employees: 1,400

International presence: · United States · Ecuador

Sales per industry: Automotive 100%



2. Wire harness assembly



3. Automatic cutting and crimping



4. Battery wire process



5. Final electrical test

Main clients



Certifications

- ISO 9001: 2015
- IATF 16949: 2016
- ISO 14001: 2015

Automotive industry portfolio

- Electric harnesses for cars, trucks and motorcycles

Equipment

- Automatic cutting and cable crimping machines with capacity of up to 1,100,000 circuits per day
- Ultrasonic welding machines
- Bonder type welding machines
- Twist machines
- Automatic taping machine
- Hot melt machines
- Intermediate cable stripping and cable stripping machines of up to 35 mm thickness
- Wiring assembly boards
- Electrical verification boards
- Vision based quality control systems
- Production line conveyors
- Numeric control machining center
- Wire electrical discharge machining
- Tool workshop
- Assembly boards workshop



6. Final assembly

★ Key strength

Development capabilities

- Tooling Development
- Computer Aided Design (CAD)
 - AutoCAD by Autodesk
- Computer Aided Manufacturing (CAM)
 - Mastercam by CNC

Laboratory capabilities

- Micrograph
- Cables functional testing
 - Resistivity
 - Crimp joint testing
 - Mechanical resistance
 - Water tightness
- Product aging oven



7. Laboratory testing





GRUPO RACE DAYCA COLOMBIA S.A.S

Member of the RACE DAYCA group, which has an international trajectory of 30 years. The company began operations in Colombia in 2008 and is dedicated to the assembling and commercialization for national and international market with more than 200 references of ignition systems for gas and gasoline vehicles.

- www.yukkazo.com
- Calle 48 No. 44-43
- NIT. 900211338
- Barranquilla, Atlantico



1. Spark plug wires

Type of company: Aftermarket

Number of employees: 9

International presence: · Chile · United States · Costa Rica · Venezuela

Sales per industry: Automotive 100%



2. Raw materials center



3. Peeling and trimming process



4. Assembly process



5. Packaging process

Main clients



★ Aspecto destacado

Portafolio industria automotriz

- Wire sets for spark plugs
- Ignition coils
- Connectors
- OEM series cable sets

Equipment

- Electronic cable cut and strip machine
- Riveting machines
- Electric sealers

Development capabilities

- Reverse engineering

Laboratory capabilities

- Dimensional analysis
- Functional tests
 - Resistance tests
 - Conductivity tests
 - Leakage current tests
 - Dielectric withstand tests



6. Product portfolio



PROCOLOMBIA IN THE WORLD



*PROCOLOMBIA'S COVERAGE IN OTHER COUNTRIES

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