



**WE
KNOW
STEEL**



OUR COMPANY

- Mexican company.
- Established In 2004, in Saltillo Coahuila.
- In 2013 the company expanded to San Nicolas de los Garza, Nuevo Leon.
- Vertically integrated:
Metal fabrication + Stamping + Welding + Painting
process (E- Coat / Powder Coat).
- 85% of our sales are for the automotive industry,
15% home appliances.
- Certified with ISO:9001-2015.
- IMMEX Registry.

STRATEGIC LOCATION

In virtue that the north region of the country has a vast industrial tradition, a strong automotive culture has been forged over 30 years of experience in Coahuila fabricating auto parts and assembling vehicles of great quality for the world.

Allowing Metalwork and Stamping to develop a team of highly qualified professionals in a range of disciplines with a high sense of commitment and passion for their work, positioning the company as a reference in the national automotive industry in the production of made to measure products through metal fabrication processes, high volume and complexity metal stamping products.

	SALTILLO	MONTERREY
METAL CUTTING	■	
BLANKING	■	■
STAMPING	■	■
METAL FABRICATION		
Light	■	■
Weight	■	
PAINTING		
Spray	■	
Powder		■
E-Coat		■
TOOLING MAINTENANCE & REPAIR		■

CAPABILITIES BY LOCATION

In response to our Customer's needs, we have developed technological specialties to generate higher value saving on logistic costs while offering a complete range of solutions.

COAHUILA PLANT

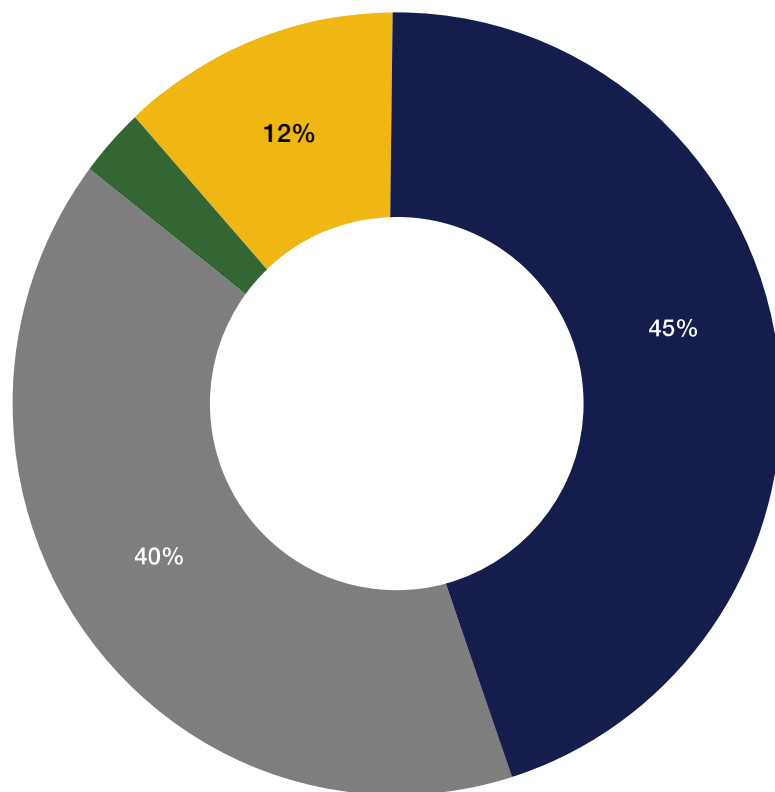
Site: 84,600 m².
Roofed area: 34,562 m².

- Metal cutting.
- Blanking.
- Stamping.
- Metal fabrication (light and heavy duty).
- Spray painting.

NUEVO LEON PLANT

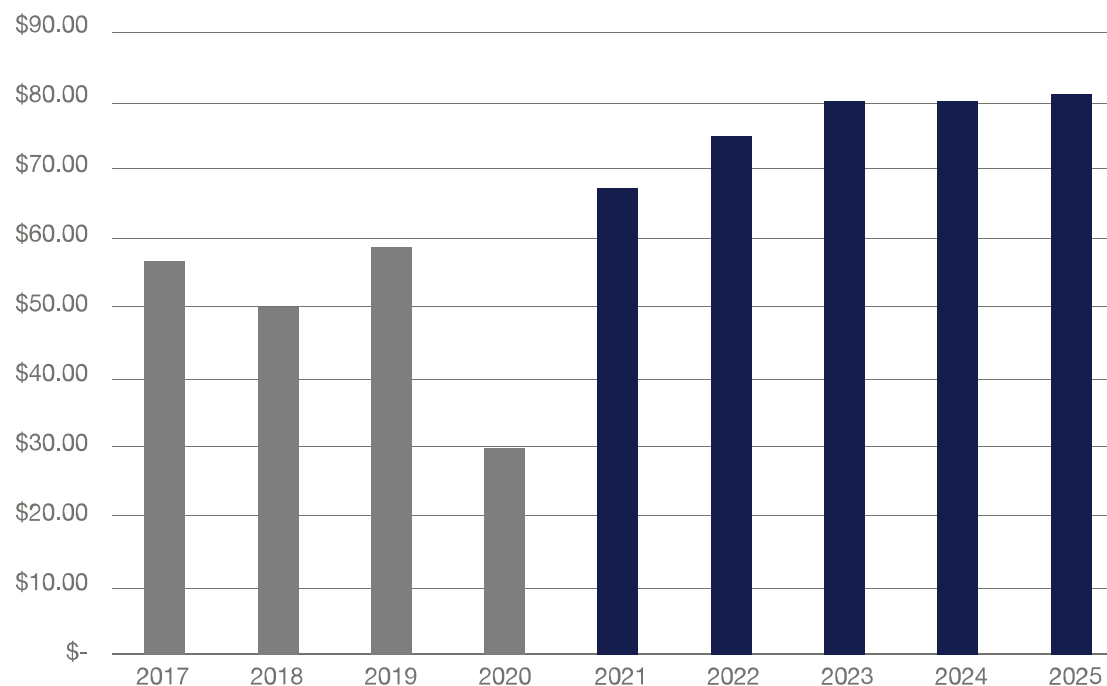
Site: 102,065 m²
Roofed Area: 50,095 m²

- Blanking.
- Stamping.
- Metal fabrication (Light.)
- Powder coat.
- E-Coat.



SALES DISTRIBUTION

- Heavy vehicles.
- Light vehicles.
- Agroindustry and tractors.
- Energy.



2019 total sales: 59.5 MIO USD

STRATEGIC PLANING

OUR VISION: 2025

Increase presence and content with actual clients.

Expand our presence in the sector of tractor vehicles and heavyweight industry.

Increase our participation in the electric industry, with strategic companies of global reference and strong presence in Mexico.

To be recognized for the excellence in our E-Coat and Powder Coat painting processes, the versatility in our lines and vast production capacity.

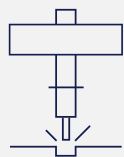
INDUSTRY 4.0

We count with a web platform, where our clients can access in real time, know the location of their products in our warehouse and in transit to their facility.

With this information practical decisions can be taken knowing the status of the delivery compliance, i.e. covering needs presented of potential operative risks, as lack of materials, failures in production programming, visualization of critical materials, lack of containers, transport programming, past due, between others.

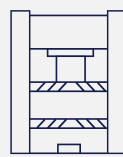
TECHNICAL CORE COMPETENCES

2020



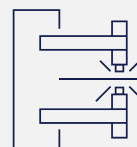
METAL FABRICATION

Complex assemblies great scale and low volume.



STAMPING

Progressive process and manual transfer.



ASSEMBLY

Projection welding, MIG, TIG, and robotic welding.



E-COAT

Capacity 14,000 ft²/hr.



POWDER COAT

Capacity 6,000 ft²/hr.

METAL FABRICATION

TECHNICAL CORE COMPETENCES

Metal Fabrication

METAL FABRICATION

Commonly when production volumes are low, the investment in new tooling is not justified, therefore our clients opt for processes of mechanical metal fabrication that guarantee quality and consistency in the production, saving unnecessary spendings.

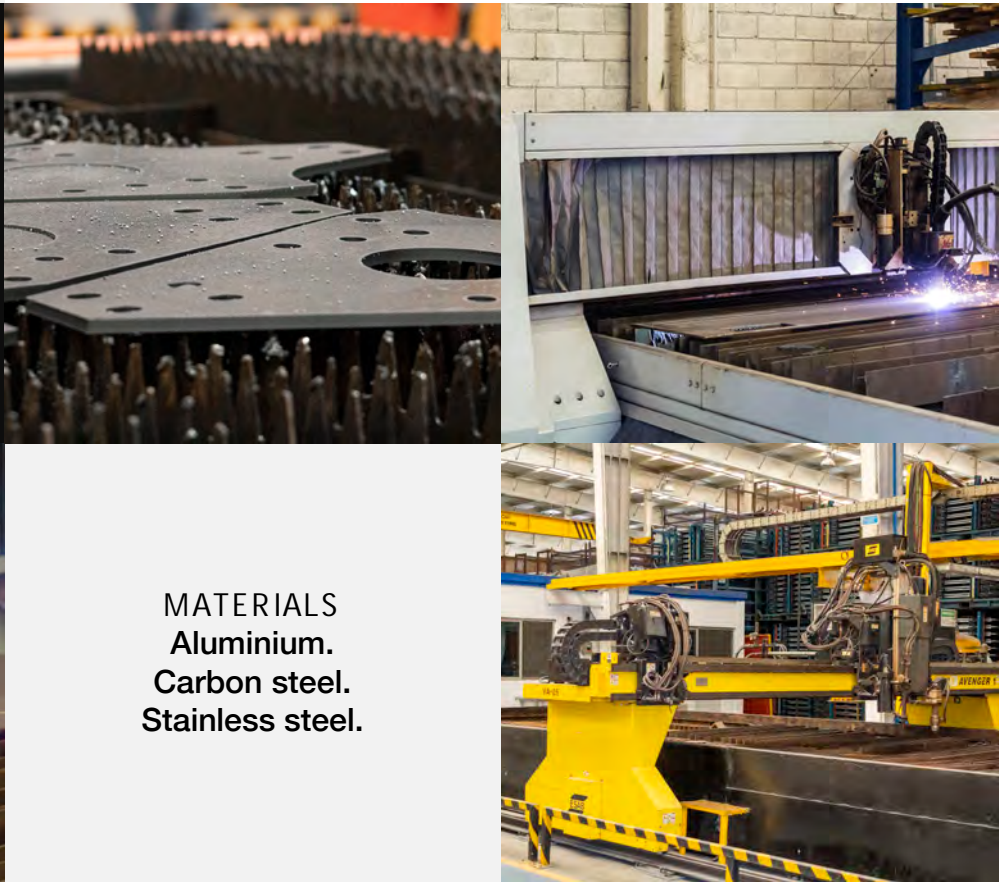
Metalwork has the equipment and technical abilities to create complete processes and turn key projects, according to dimensions, volume and technical specifications required by customers.



TECHNICAL CORE COMPETENCES

Metal Fabrication

DIMENSIONS
Width: 5' - 6.5' ft.
Length: 10' - 13' ft.



MATERIALS
Aluminium.
Carbon steel.
Stainless steel.

CUTTING PROCESS

LASER-PLASMA

■ Laser ■ Plasma

DESCRIPTION	ID	W (ft)	H (ft)	MATERIAL	TH MAX.
Laser Trumatic L3030 (3500 watts)	LA-01	5'	10'	Aluminium , carbon steel,	3/8"CS, 5/16"SS
Laser Bystronic (4000 watts)	LA-02	6.5'	13'	stainless steel.	1/2"CS & SS
Plasma Komatsu	VA-36	6'	20'	Carbon steel,	1"- 3"CS,
Plasma Komatsu	VA-42	6'	12'	stainless steel.	3/4"SS 3/4"CS, 1/2" SS

MACHINE LIST.

TECHNICAL CORE COMPETENCES

Metal Fabrication

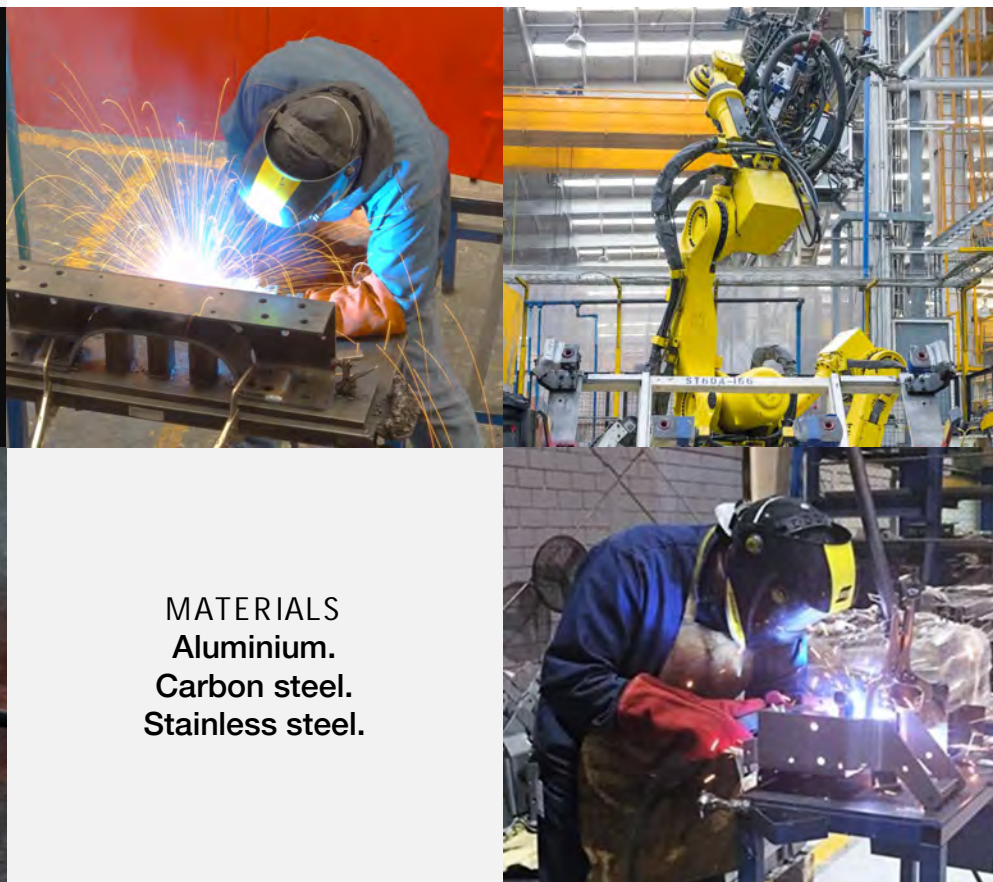
WELDING PROCESS

In constant search for evolving adding value to our products and processes, Metalwork & Stamping has developed the assembly division, where we can offer the following capabilities:

- Manual welding assemblies.
- Assemblies with robotic cells in MIG, TIG and of projection in Carbon steel, stainless steel and aluminium.

CAPACITY
25 cells.

MATERIALS
Aluminium.
Carbon steel.
Stainless steel.



TECHNICAL CORE COMPETENCES

Metal Fabrication

SPRAY PAINTING

We apply spray paint under different systems such as:

- Interthane 990.
- Interzinc 52.
- Intergard 475.
- Intherthem 50 AMERON.
- PSX700FD.

AREA
870 m².



TRAVEL CRANE
15 tons.



TECHNICAL CORE COMPETENCES

Metal Fabrication

STEEL BENDING

DESCRIPTION	ID	CAPACITY (U.S. TON)	LENGTH (ft)	THK,MIN (in)	THK,MAX (in)
Cincinnati	VA-13	230	14´	GA22	3/8"
Cincinnati	VA-18	300	12´	GA22	3/8"
Cincinnati	VA-20	400	16´	GA22	3/8"
Ermaksan	VA-23	320	10´	GA23	3/8"

MACHINE LIST.

BENDERS

4

RANGE
50 - 400 tons.



LENGTH
2´ - 18´ ft.

MAX THICKNESS
up to 3/8".



STAMPING

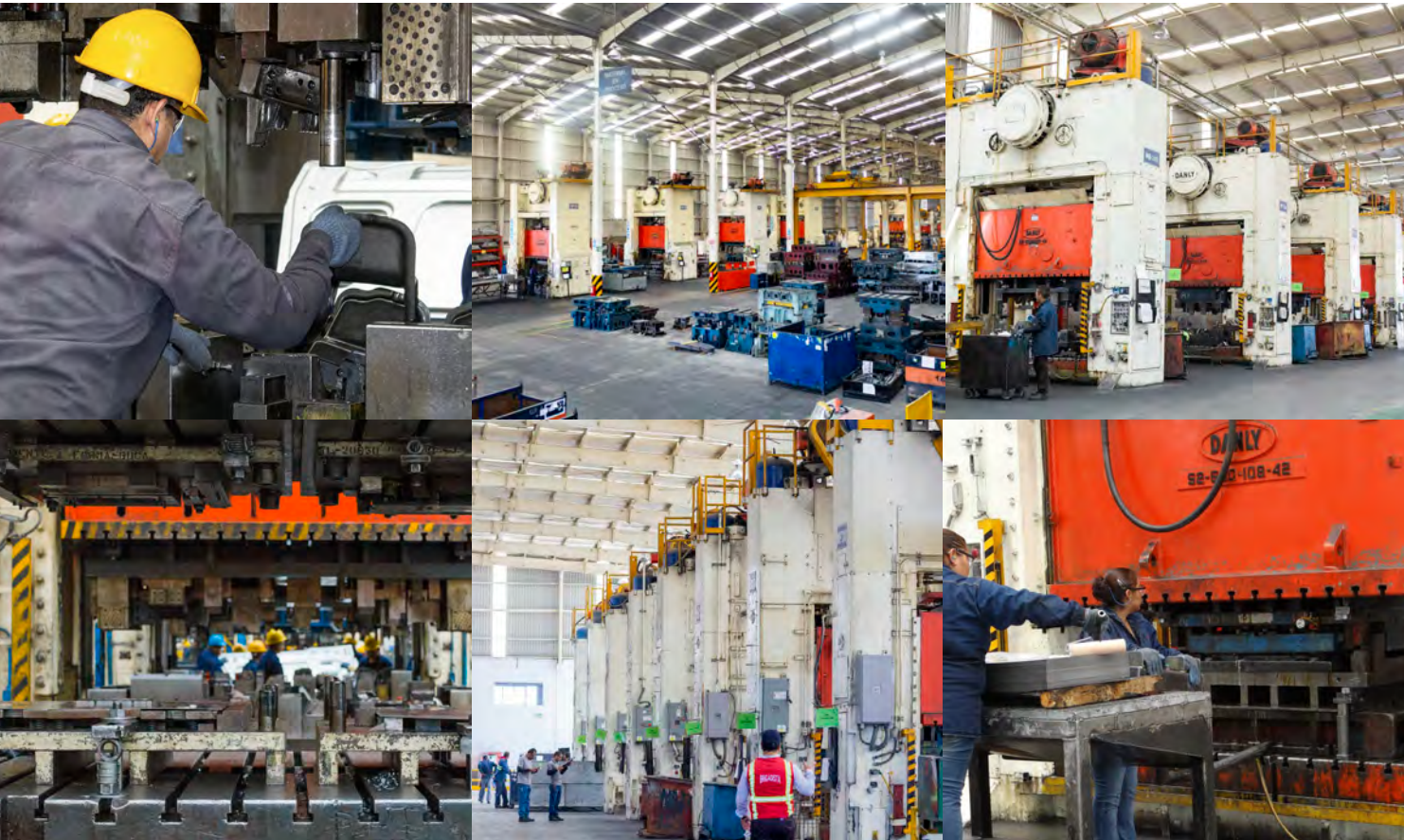


TECHNICAL CORE COMPETENCES

Stamping

STAMPING PROCESS

- We are equipped with 86 presses with a range from 90 to 2000 tons.
- Progressive processes from 90 tons to 2000 tons.
- Manual processes from 400 up to 1500 tons. With a maximum bed size of 108" x 200" in 1000 tons presses, Up to 1500 tons with buffers.
- Blanking presses and progressive with maximum bed capacity of 96" x 144".



QTY.	BRAND	CAPACITY (U.S. TON)	BOLSTER SIZE	ROUTE OF THE CONNECTING ROD	ADJUSTMENT TRAVEL	H. ADJUSTMENT MAX.IN	MIN.IN	OPERATOR MODE SINGLE	PROGR.
2	USI	INTE 800/ EXT 600	84 x 144	30	36	82	46	x	
1	RAVNER	800 US	120*84*8	16	8.25	36	27.5	x	x
1	USI	2000	72 x 144	30	12	44	32	x	
1	USI CLARING	1500	54*60	18	12	35	23	x	
1	USI	1250	60 x 108	30	18	44	26	x	
2	USI	1250	60 x 108	30	18	48	30	x	
4	SCHULER	1100	180 x 108	30	24	60	36	x	
1	SCHULER	1000	108*42*8	20	13	43	30	x	
1	USI CLARING	1000	108*60*8	20	13.25	46.5	34.5	x	
1	VERSION	1000	144*96*10	12	5.75	47.75	42	x	x
1	USI CLEARING	1000	144"x 96"	12.38	6	75.63	69.63	x	x
1	DANLY	1000	180 x 96	30	24	60	36	x	
1	DANLY	1000	180 x 96	30	24	60	36	x	
1	BLISS	850	96 x 144	20	20	50	30	x	
5	BLISS	800	72 x 108	20	20	49	29	x	
2	DANLY	600	108*48*4	24	16	48	32	x	
1	DANLY	600	108*48*4	24	X	48	32	x	
1	DANLY	600	108*48*4	24	11	48	37	x	
1	DANLY	600	132"84*7	28	13	58	45	x	x
1	DANLY	600	132"84*7	28	15	57	42	x	
1	DANLY	600	132"84*7	28	13	55	42	x	
1	DANLY	600	132"84*7	28	15	56	42	x	
3	DANLY	600	108*42*8	18	14	44	30	x	
1	DANLY	600	108*42*8	18	11	44	33	x	
1	DANLY	600	108*42*8	18	14	43.75	30	x	
1	DANLY	600	108*42*8	18	11	42	31	x	
2	DANLY	600	108*42*8	18	14	44	30	x	
1	USI	600	84 x144	30	30	50	20	x	
2	USI	500	60 x 108	30	18	44	26	x	
5	USI	400	8 x 72 x 120	30	30	52	22	x	
1	USI	400	72 x 120	30	30	52	22	x	
1	USI	400	72 x 120	30	30	52	22	x	
1	USI	400	72 x 120	30	30	52	22	x	
1	VERSION	300	96*48*3	17 1/4"	7.75	27.5	19.75	x	x
1	VERSION	300	96*48*3	17 1/4"	7.75	26.375	19	x	x
1	VERSION	250	96*48	20	4	48.25	44.25	x	
1	VERSION	250	96*48	24	10	54	44	x	
1	VERSION	250	96*48	24	9.125	53.25	44.125	x	
1	VERSION	250	96*48	" 20	10	54	44	x	
1	USI CLARING	200	35*54	11 3/4	4.75	19.25	14.5	x	x

MACHINE LIST.

TECHNICAL CORE COMPETENCES

Stamping

STAMPING PROCESS

- We are equipped with travel cranes of 10, 15 and 20 tons.
- Production capacity guaranteed.
- Two manufacturing sites: **Saltillo, Coahuila** and **San Nicolas de los Garza, Nuevo Leon.**
- Toolmakers groups for maintenance and repairing on both sites.

BLANKING PROCESS

- Blanking press MP400.
Capacity 1000 tons.
Bed 144" x 96".
- Blanking Press MP 420
Capacity 1000 tons.
Bed 144" x 96".



ASSEMBLY

TECHNICAL CORE COMPETENCES

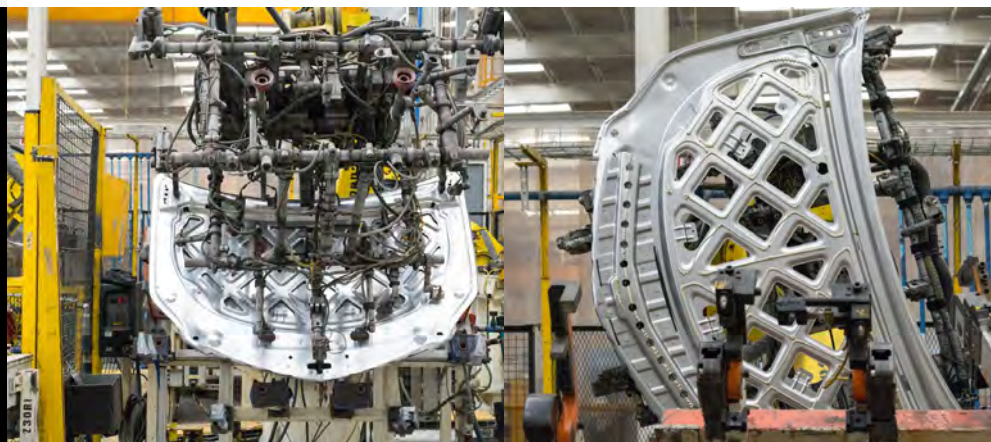
Assembly

ROBOTIC ASSEMBLY

Metalwork has available areas for the installation and development of new automated assembly lines in Coahuila and Nuevo Leon.

Our engineers and automation specialists are available to identify new business opportunities for future outsourcing projects for assembly lines of finished products, offering clients substantial savings, guaranteed supply and quality of the finished product.

DESIGN
Based on volume and
technical specifications
and specific customer
requirements.



ASSEMBLY CELLS
Automated and dedicated
for each project.



TECHNICAL CORE COMPETENCES

Assembly

CAPACITY
25 Cells.



MATERIALS
Carbon steel.
Stainless steel.



MANUAL WELDING

- Semiautomatic welding.
GMAW: Gas metal arc welding.
FCAW: Flux cored welding.
SAW: Shield arc welding.
- Manual welding.
GTAW-TIG: Tungsten inert gas welding.
SMAW: Shield metal arc welding.
- Spot welding.
RSW: Resistance seam welding.

TECHNICAL CORE COMPETENCES

Assembly

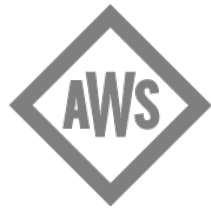


BRAND	ID	WELDING PROCESS	SPECIFICATIONS
Miller Dimension 452	SO: 01,02, 03,04,05,07, 17,25,27,84, 86,87	GMAW,SMAW, FCAW,SAW, GTAW,CAC-A	INPUT: VOLTS 230/460 /575 AMP 90/45/36 KW 22.3 HZ 60 OUTPUT: VOLTS 38 AMP 450
Miller DeltaWeld 452	SO: 28,34, 35,59	GMAW,FCAW, SAW,CAC-A	INPUT: VOLTS 230/460 /575 AMP 63/32/25 KW 21.1 HZ 60 OUTPUT: VOLTS 32 AMP 450
Miller Dimension 652	SO: 75,76, 77,78	GMAW,SMAW, FCAW,SAW, CAC-A	INPUT: VOLTS 230/460 /575 AMP 126/62/50.4 KW 34.8 HZ 60 OUTPUT: VOLTS 63 AMP 650
Miller DeltaWeld 302	SO: 93,97, 98,101, 102,103	GMAW,GMAW, PFCaw,SAW, CAC-A	INPUT: VOLTS 230/460 /575 VCA AMP 42/21/17 KW 12.7 60 HZ OUTPUT: RANGO VOLTS 10-32 AMP 300

SEMI-AUTOMATIC WELDING / WELDING EQUIPMENT.



The American
Society for
Nondestructive
Testing



American Welding Society®



CERTIFIED WELDING

We work and comply with the norms and codes of:

- AWS (American Welding Society).
- ASME (American Society of Mechanical Engineers).
- WPS (Welding Procedure Specification).
- WPQ (Welder Procedure Qualification).
- The American Society for Nondestructive Testing.

PAINING



WORK WINDOW
Width 3 ft.
Height 6 ft.
Length 9 ft.



AREA
2,000 m².

CAPACITY
6,000 ft²/hr.



POWDER COAT PAINTING

- 11 station process.
- Application according to customer's specifications.
- Heated at 180° C for 20 minutes metal temp.
- Line speed 10ft/min.
- Load capacity 6,000 ft²/hr.

TECHNICAL CORE COMPETENCES

Painting

WORK WINDOW
Width 3 ft.
Height 6 ft.
Length 9 ft.



AREA
3,000 m².

CAPACITY
14,000 ft²/hr.



ELECTROPHORETIC PAINTING

BY IMMERSION

- 11 station process.
- E-Coat application Powercron 6100 HE PPG.
- Heated at 180° C for 20 minutes metal temp.
- Line speed 18 ft/min.
- Load capacity 14,000 ft²/hr.



9984120, 9986165
GM14671TYPE A&H



MPAPS-G9009



DBL 7381.22
DBL 7391.0/10/54/60



MS PB 60-25
MS PB 60 2H



WSS-M2P177-A,B,C
WSS-M64139-A
WSS-M64140-A



GS90011
(VDA621-415)



MPAPS-G9009



TL260;OfL-X630, X634

MILITARY

MIL-DTL-53084B

E-COAT SPECIFICATIONS

14,000 ft²/hr

■ Advice, support and certified by PPG.



QUALITY

QUALITY AND CONSISTENCY

QUALITY POLICY

Metalwork is committed in satisfying and meeting the regulatory requirements and technical specifications of the products, as well as establishing an approach of continuous improvement, guaranteeing stable processes that offer competitive advantages for our commercial partners, that generate more sustainable projects to guarantee quality and consistency in the operation and the assurance of future businesses.

MONITORING
Daily and
every shift.



REACTION
Immediate to the customer
and alert following.



METROLOGY LABORATORY

We are equipped with measuring by coordinates machines MMC and CMM on both plants.

- MMC mobile arm.
- MMC portable arm.
- CMM column.
- Checking fixtures.



**PERRY JOHNSON
REGISTRARS, INC.**

Certificado de Registro

Perry Johnson Registrars, Inc., certifica el Sistema de Gestión de la Calidad de

Metalwork & Stamping S.A. de C.V.

***Av. Universidad # 1011 Nte., Col. Casa Bella, San Nicolás de los Garza, Nuevo León,
C.P.66400, México***

***Blvd. Jesús Valdés Sánchez núm. 2271, Colonia Los Zacatonos, Congregación San Jose de los
Cerritos, Coahuila, México, C.P.25298, México***

*De ahora en adelante denominada la organización, declara por este medio
que está en conformidad con:*

ISO 9001:2015

Este registro incluye el siguiente alcance de certificación

***Manufactura y Pintura de Componentes y Ensamblajes Metálicos para el Sector Metal Mecánico,
Industrial y Automotriz***

*Este Certificado es concedido de acuerdo a las reglas que rigen el Sistema de Registro anteriormente mencionado,
comprometiéndose la Organización, con la Entidad que la certifica, a observar y mantenerse conforme la regulación
establecida y cumplir con los requisitos indicados.*



Perry Boboige

Perry Boboige, Presidente

Perry Johnson Registrars, Inc. (PJR)
755 West Big Beaver Road, Suite 1340
Troy, Michigan 48064
(248) 358-3388

La validez de este certificado es administrada por medio de vigilancia continua.

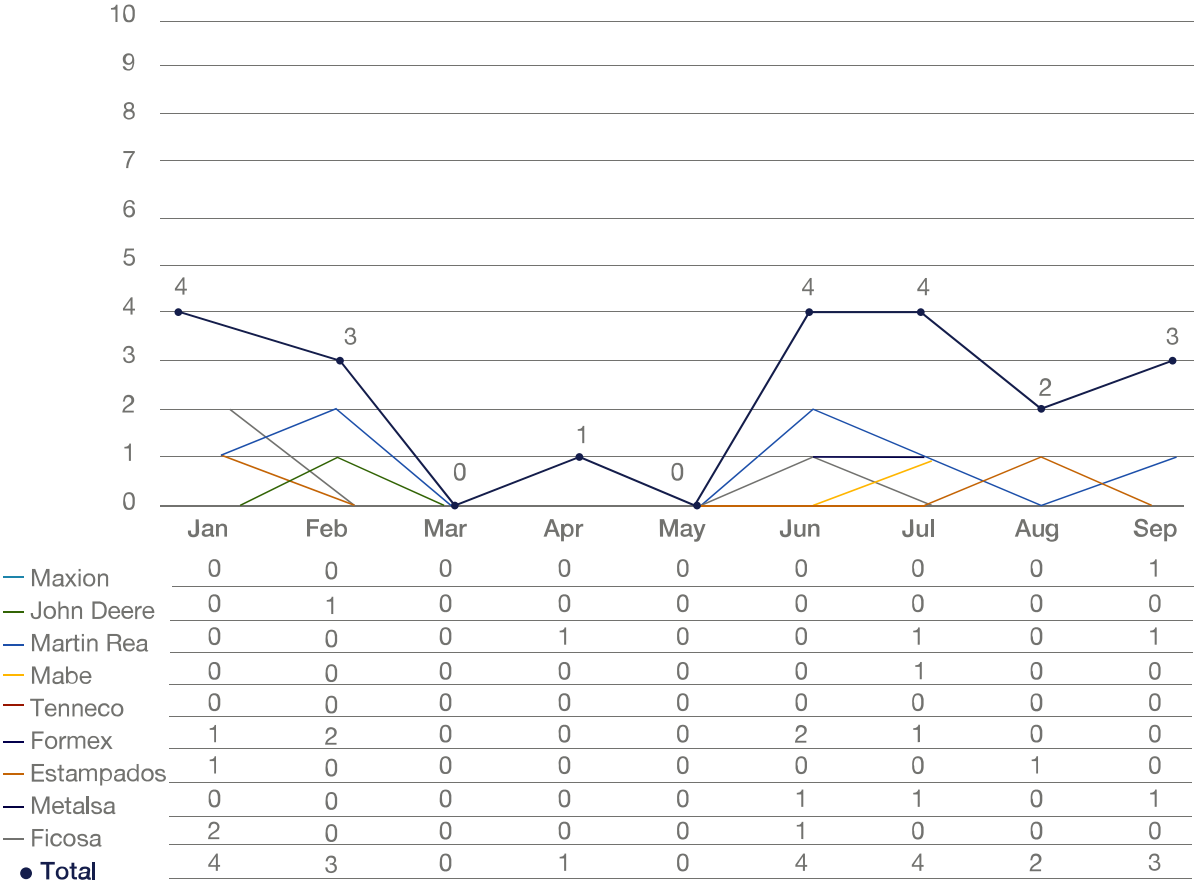
Fecha efectiva:
17 Noviembre 2018

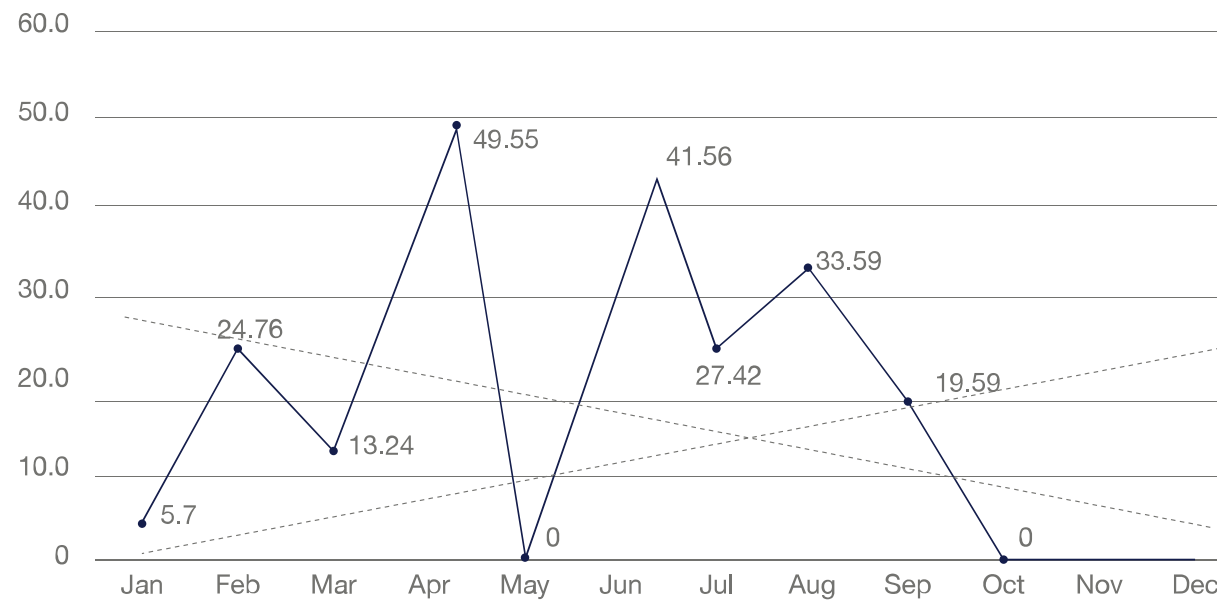
Fecha de Vencimiento:
16 Noviembre 2021

Nº. del Certificado:
C2018-04437

**CERTIFICATION
ISO-9001:2015**

EXTERNAL ALERTS

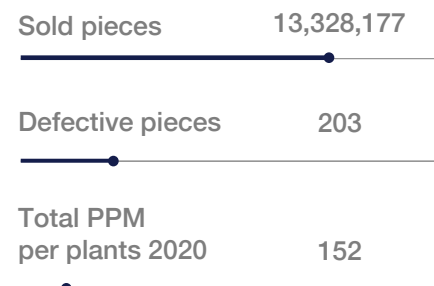




PPMs BEHAVIOR

- Constant monitoring.
- Permanent auto-evaluation.
- Corrective actions.

CUSTOMER	SOLD PIECES	DEFECTIVE PIECES	TOTAL PPM	SALES % PARTICIPATION
Navistar	1,060,797	0	-	7.96
Formex	8,437,860	7	0.8	63.31
Emm	1,586,862	6	3.8	11.91
Metalsa	1,207,430	11	9.1	9.06
Gestamp	213,813	2	9.4	1.60
Mabe	146,017	0	-	1.10
John Deere	7,228	2	276.7	0.05
Martin Rea	231,876	129	556.3	1.74
Ficosa	436,294	46	105.4	3.27
Total	13,328,177	203	15.2	100.00



QUALITY
IS PRODUCED
EVERYDAY

■ Total defective pieces
0.152 %.

TOOL ROOM

A black and white photograph of a worker in a hard hat and safety glasses using a pneumatic tool on a large metal part in a tool room. The worker is wearing gloves and is focused on the task. The background shows various metal parts and tools scattered around, indicating a busy workshop environment.

MAINTENANCE
Scheduled with
SMS Software.



INFRASTRUCTURE
Technicians and equipment
available in both Coahuila
and Nuevo Leon.



SPECIALIZED TOOL MAINTENANCE

We guarantee productivity and the integrity of the tools complying with proactive measures, preventive and corrective maintenance by highly qualified personnel.

- CNC Haas.
- Surface grinder.
- Boring machine.
- Lathe and milling machines.
- MasterCam and SolidWorks.

SPECIALISTS				
Coordinators	TPM planner	Die makers	Supervisors	Maching supervisor
2	2	27	3	1

OPERATORS			
Machining operators	Die maker assistants	Fine tuning die makers	General assistants
10	3	7	4

QUALIFIED STAFF

We have the experience and mediums to ensure the correct functioning of the tools.

■ Total technicians in Tool Room: **59**

■ Total tools: **387**

■ Average tools: **14**

OUR VISION

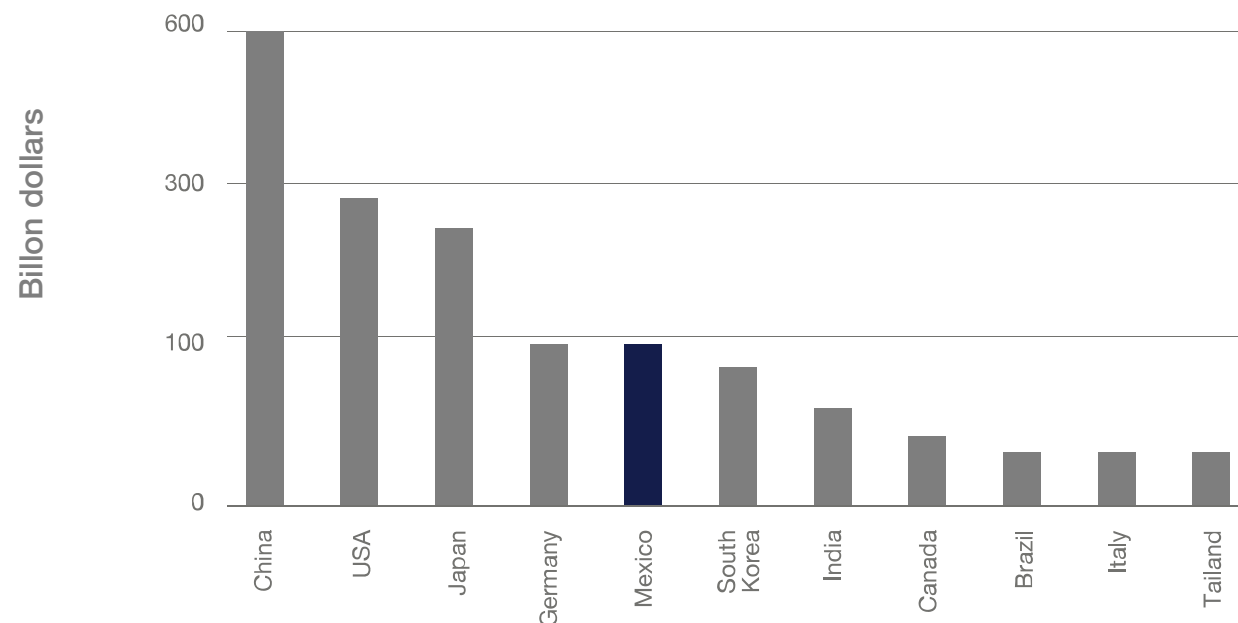
GLOBAL PERSPECTIVE

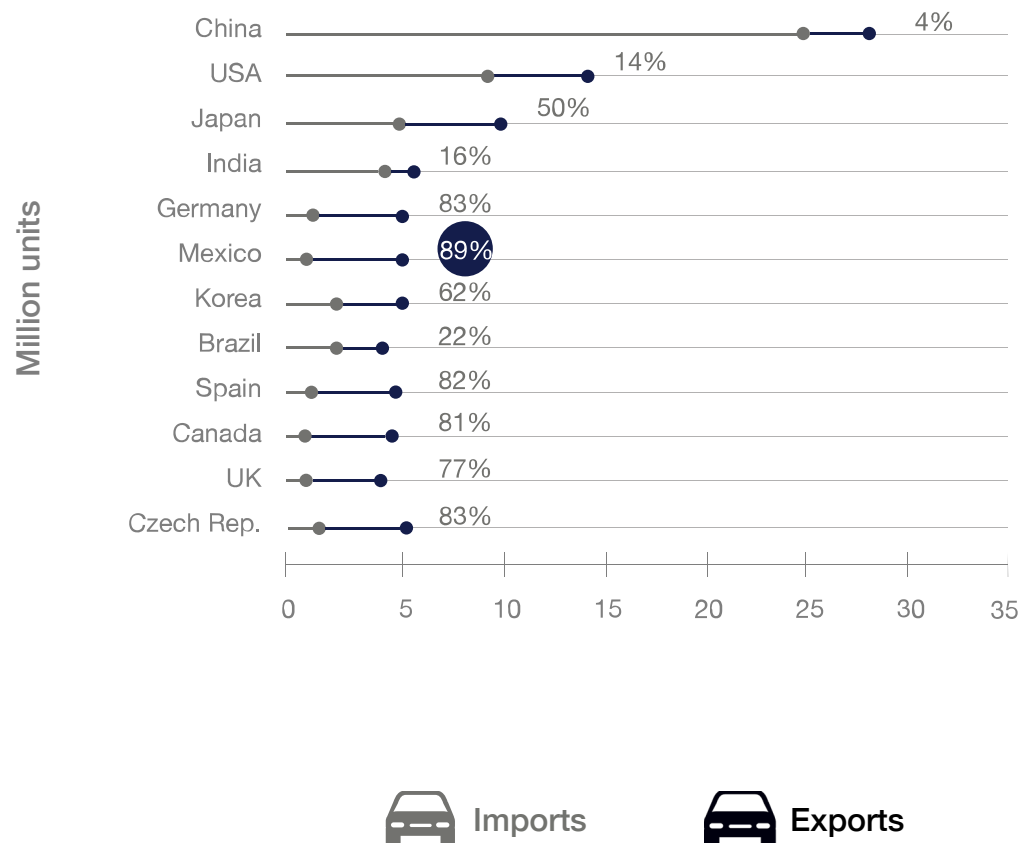
Mexico is the 5th producer of auto parts globally with 97 billion dollars, at the closing of December 2019.

2020 forecast:
76,421 billion dollars.

Source: INA with informations from INEGI, includes autoparts sales that are considered in different branches of the SCIAN code are not included

*Forecast 2019

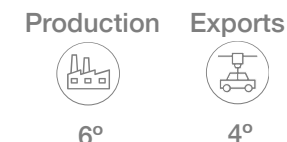




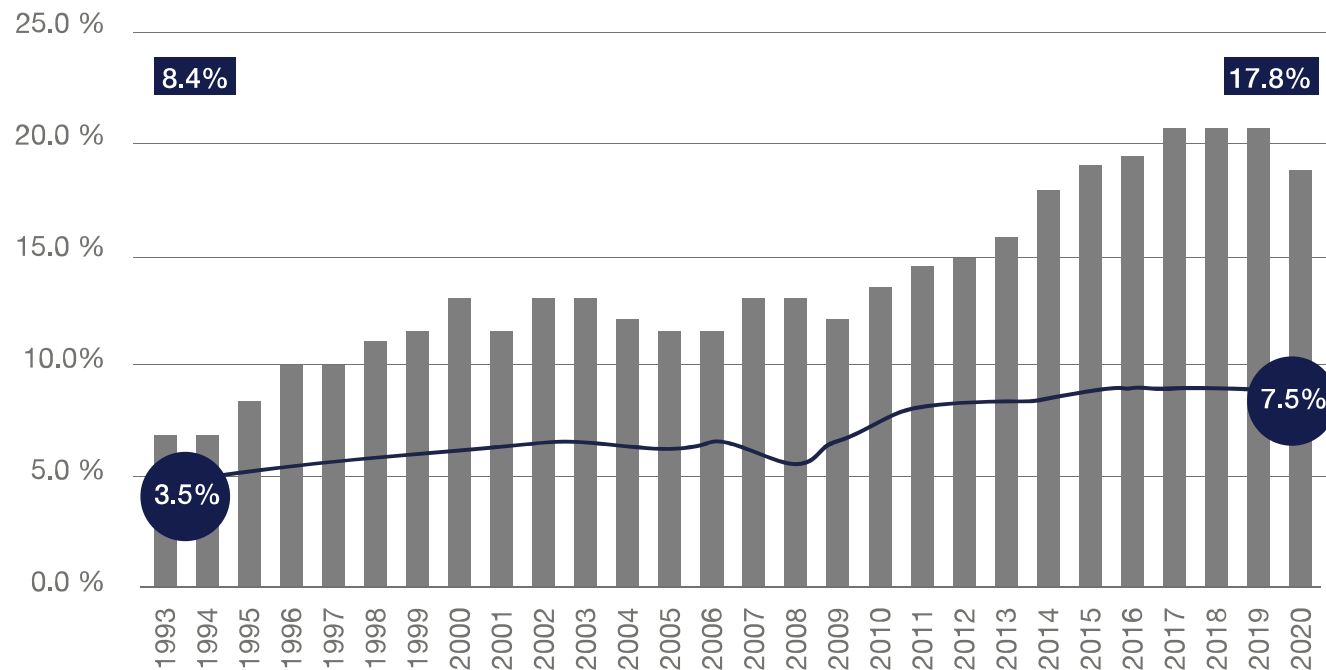
MEXICO IN THE WORLD

Our country has 13 trade agreements with 52 countries where exports are above 3.3 million automobiles thanks to the high quality of materials, labour skills and our geographic location.

WORLD RAKING



Source: INA with information of Automotive News, Marklines



Automotive and autoparts GDP, 1993-2020.

■ Automotive GDP.

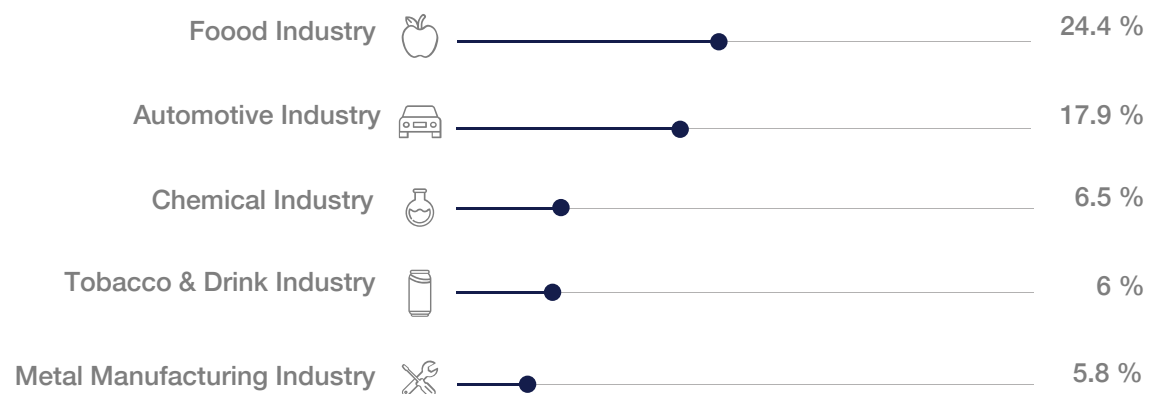
● Autoparts GDP.

SUSTAINED GROWTH

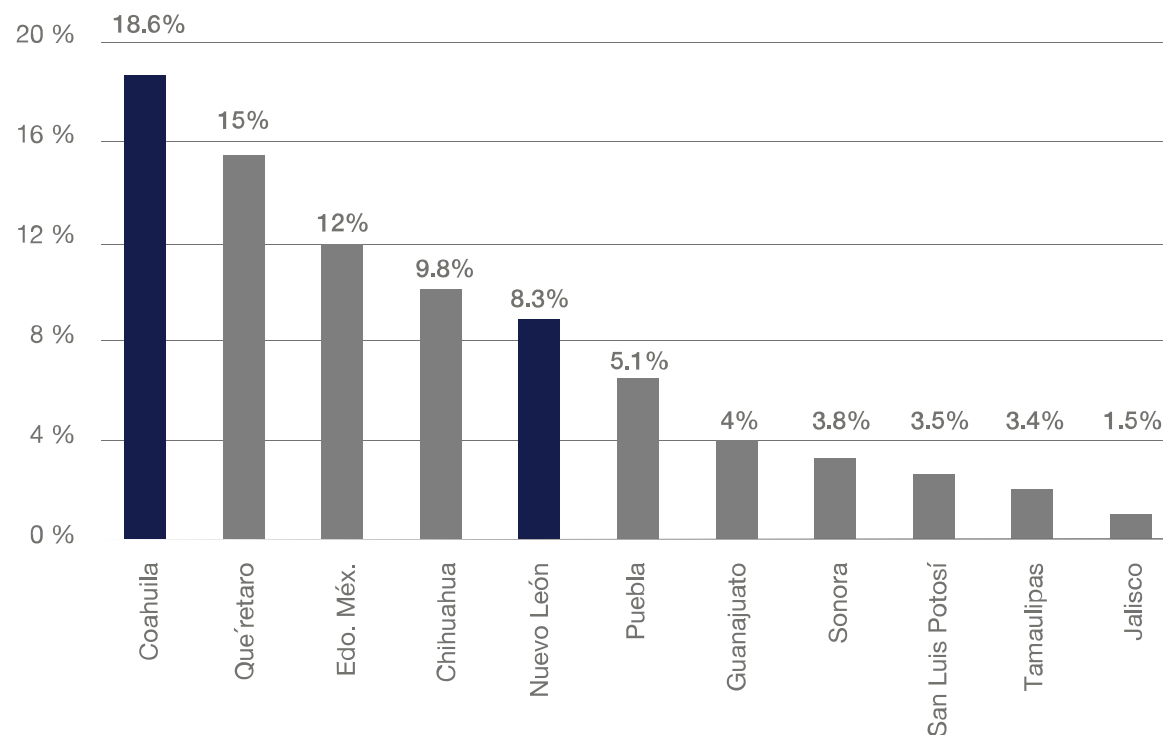
Mexico is the 5th producer of auto parts globally with 97 billion dollars, at the closing of December 2019.

*2020 Forecast.

THE INDUSTRY IN MEXICO



Source: INA with informations from INEGI, includes autoparts sales that are considered in different branches of the SCIAN code are not included. *2019 Forecast



PRODUCTION BY STATE

We have presence in the highest productive state of the automotive sector. Coahuila with 18.6% and Nuevo Leon, that generates the 8.3% nationally.

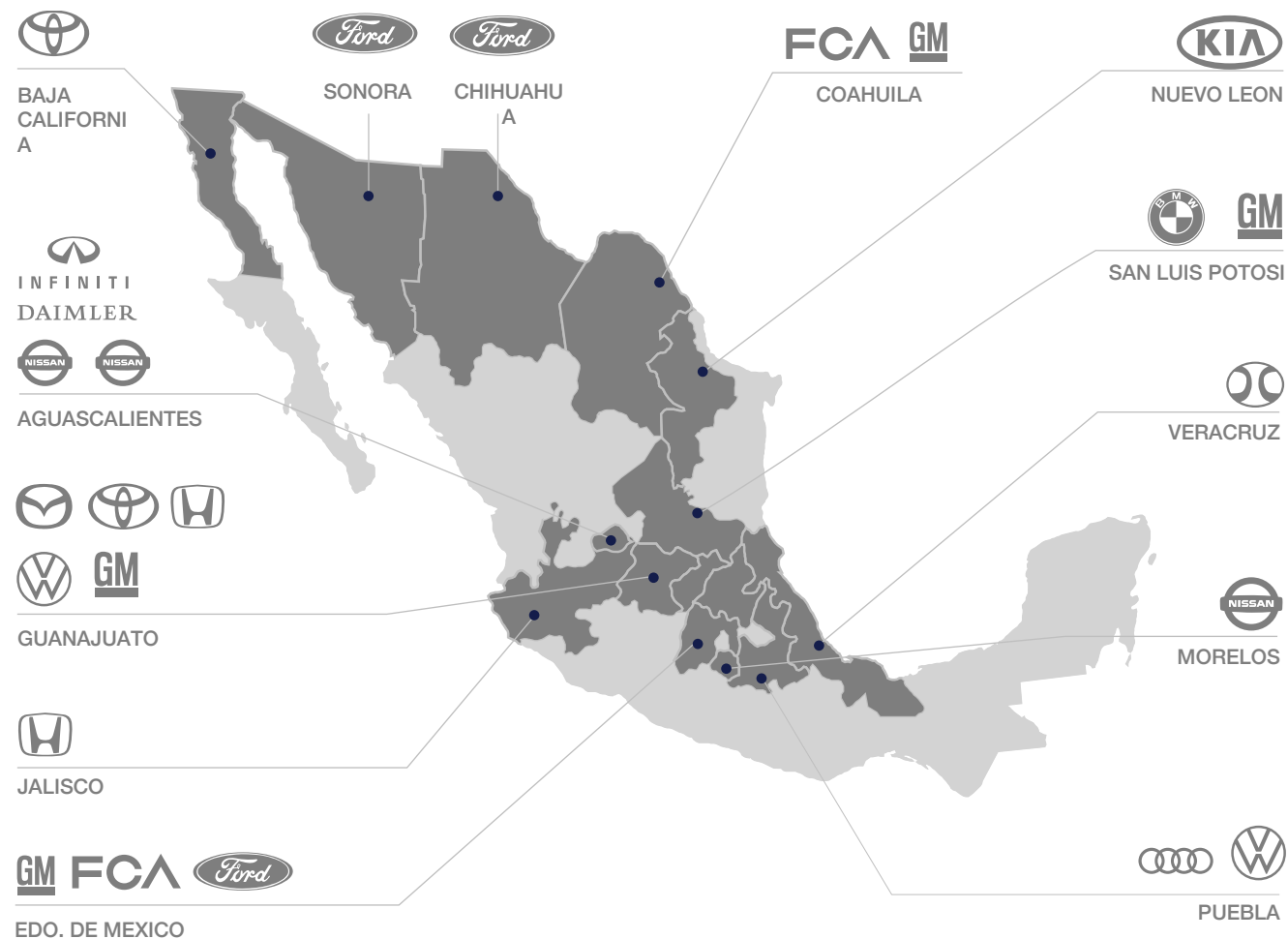
Source: INA with information from INEGI and SE

OUR VISION

Automotive Sector Perspective

AUTOMOTIVE MAKERS

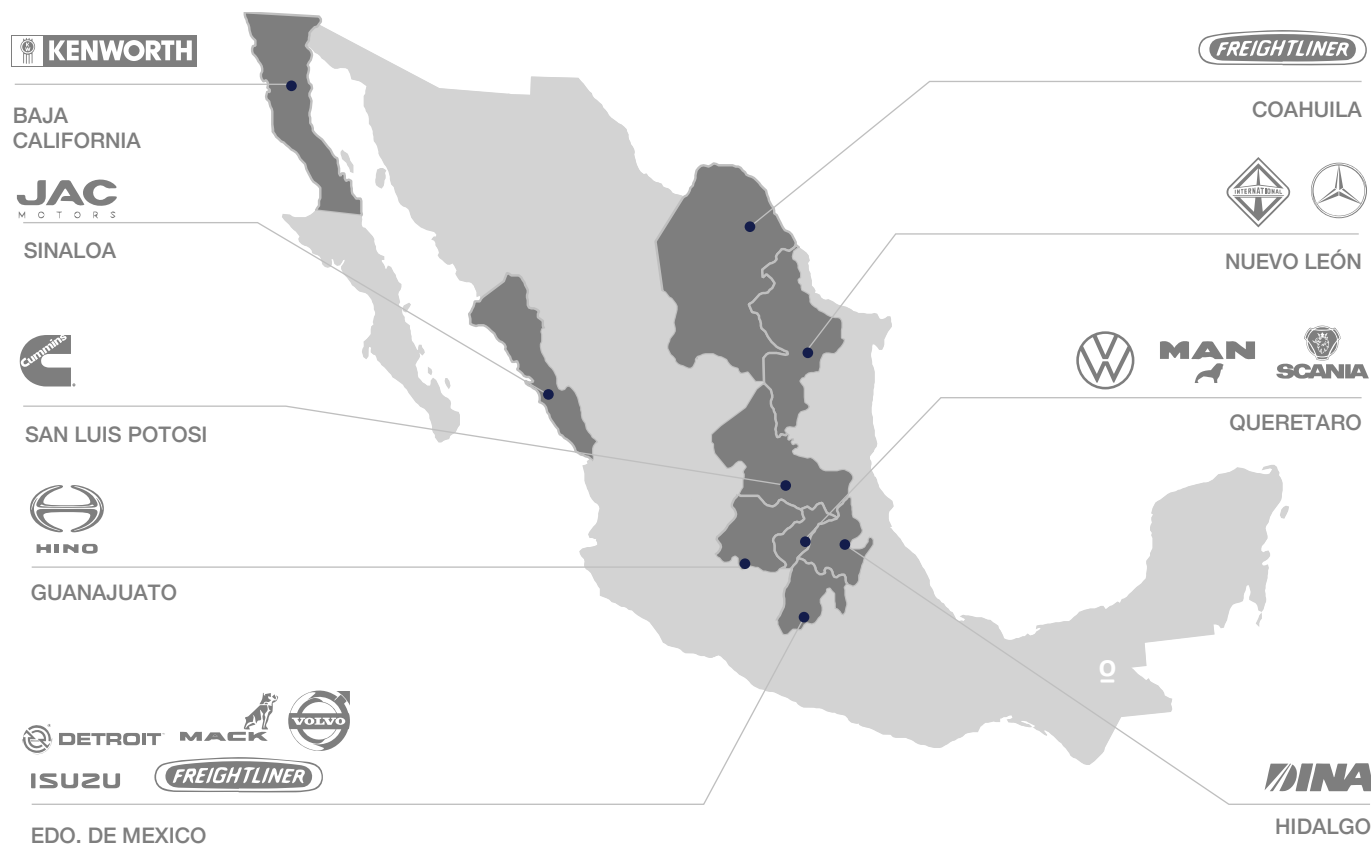
LIGHTWEIGHT AND MOTORS



Source: INA with information from INEGI and SE

OUR VISION

Automotive sector perspective



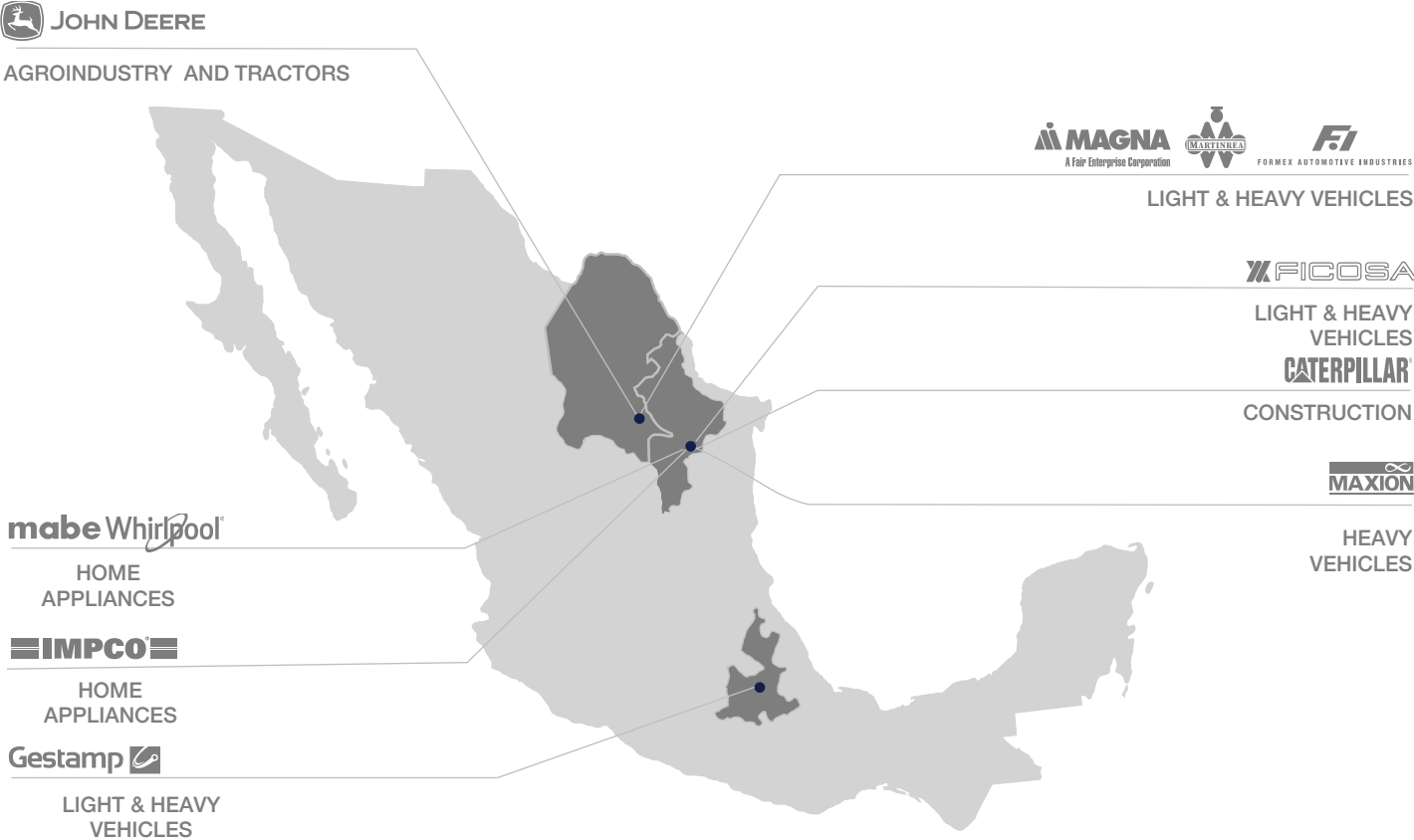
AUTOMOTIVE MAKERS

HEAVYWEIGHT AND MOTORS

Source: INA with information from INEGI and SE

CURRENT CUSTOMERS

MÉXICO 2020



CURRENT CUSTOMERS

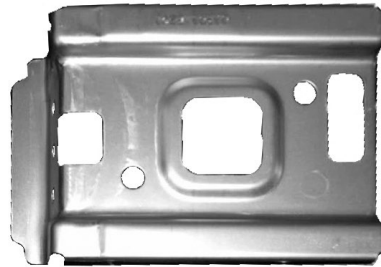
WORLDWIDE 2020



GALLERY

GALLERY

Automotive Industry



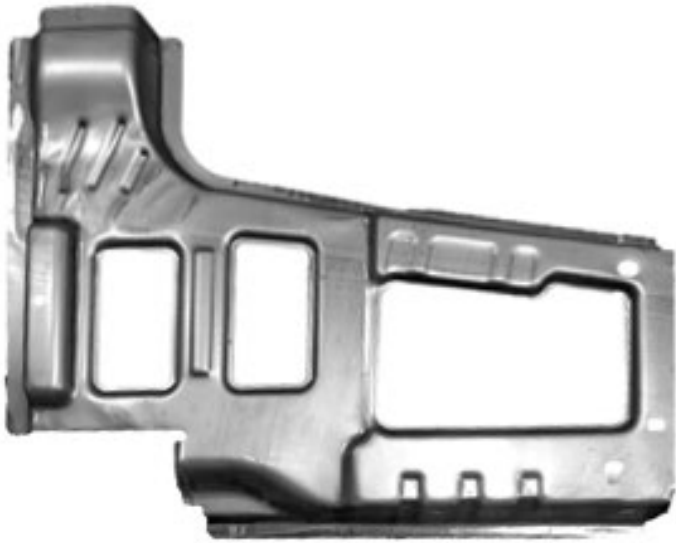
GALLERY

Automotive Industry



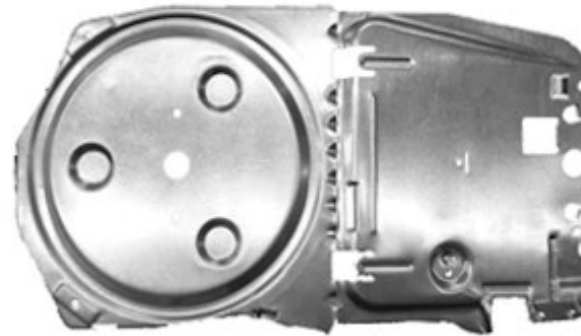
GALLERY

Automotive Industry



GALLERY

Home Appliances



GALLERY

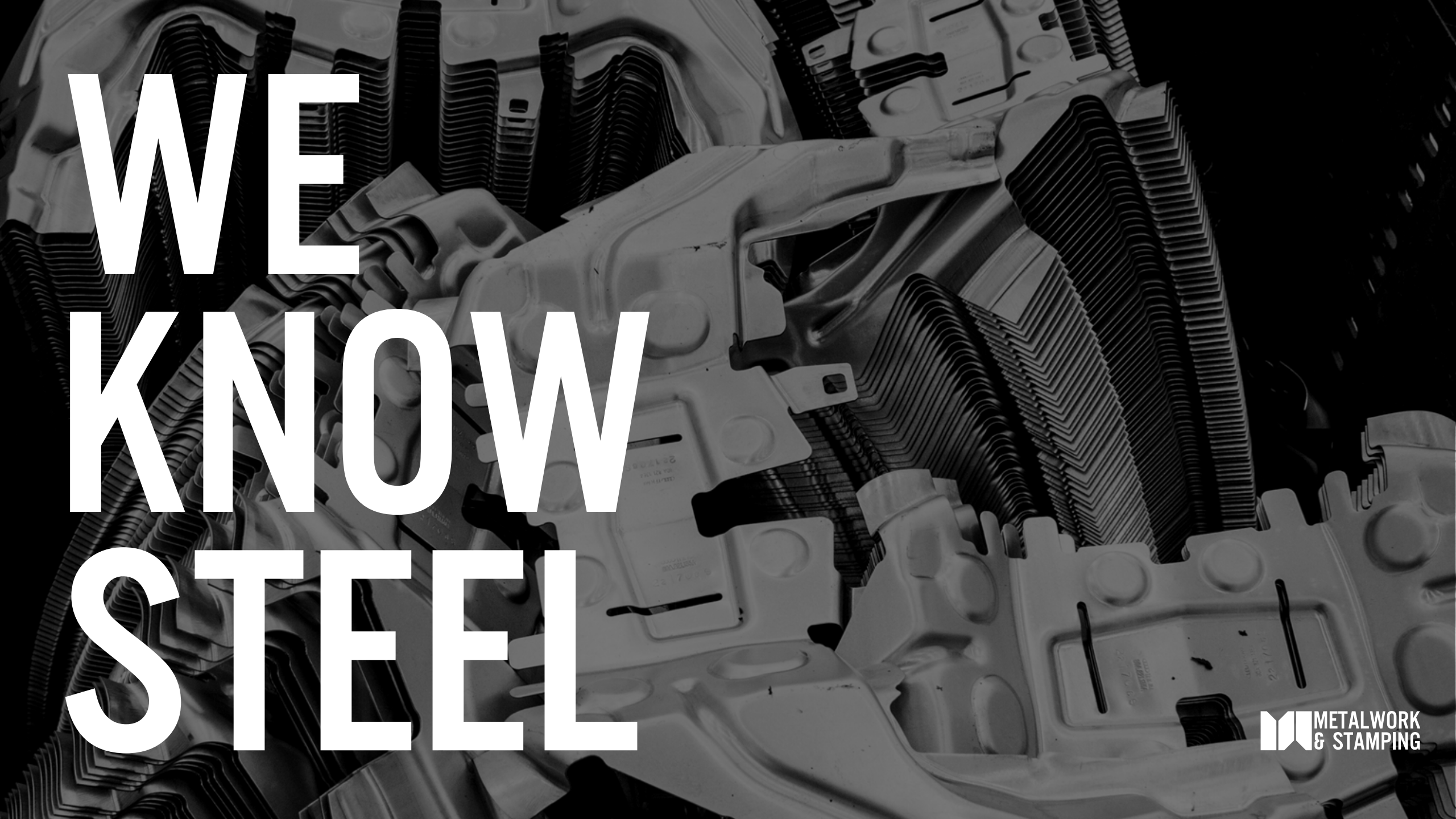
Farming Industry



GALLERY

Farming Industry





WE KNOW STEEL