SOLINDA

SOLUCIONES INDUSTRIALES DE AGUASCALIENTES

TOOLS & DEVICES

DESIGN & AUTOMATION

WE ARE MADE FOR THE INDUSTRY
WE WERE BORN FOR SOLUTIONS

ISO 9001-2015 EMPRESA CERTIFICADA

2018

REGISTERED FIRM INTERA ISO 9001:2015

REGISTRO DE CERTIFICACION

Sistema de Gestión de Calidad

NMX-CC-9001-IMNC-2015

El presente documento certifica que:

SOLINDA, S.A. DE C.V.
Av. Heroe de Nacozari Norte # 2901
Fracc. Las Hadas. C.P. 20140
Aguascalientes, Ags. México.

Cuenta con el certificado No: 1118449 y opera un Sistema de Gestión de Calidad, que cumple con los requerimientos de la norma ISO 9001:2015 para el siguiente alcance:

EL ALCANCE DEL SISTEMA DE GESTIÓN DE CALIDAD DE SOLINDA SE ESTABLECE EL DESARROLLO DE PRODUCCIÓN BASADO EN MAQUINADO DE PIEZAS A TRAVÉS DE TORNO, FRESADO, CORTE DE PIEZAS POR ELECTROEROSIÓN, MACHUELADO, RECTIFICADO, TRATAMIENTO TÉRMICO, SOLDADURA, PARA EL SECTOR AUTOMOTRIZ. EL ALCANCE ES APLICABLE A LA MATRIZ INSTALADA EN AV. HÉROE DE NACOZARI #2901 COL LAS HADAS CON C.P. 20140

Original de Certificación: 17/08/2015
Fecha de Emisión: 15/08/2018
Fecha de Expiración: 14/08/2021

En nombre de INTERA:

IAF ema ORGANISMO DE CERTIFICACIÓN ACREDITADO 68/09

Luis Eduardo Romero Rodríguez
Director General

REGISTERED FIRM INTERA ISO 9001:2015

*El presente documento de certificación cubre la dirección y alcance antes mencionados. Deberá ser mantenido a través de auditorías de seguimiento y Re Certificación. Para verificar la validez del presente documento favor de enviar un mensaje a: atencionclientes@interamericas.com.mx

INTER AMERICAS STANDARDS SERVICES, S.C.
CORPORATIVO: MONTECRISTO # 113 FRACC. VILLAS DEL CAMPESTRE C.P. 20119, AGUASCALIENTES, AGS.

SOLINDA
SOLUCIONES INDUSTRIALES DE AGUASCALIENTES
TOOLS & DEVICES

MISION

IN SOLINDA WE DESIGN AND SUPPLY AUTOMATED EQUIPMENT, DEVICES AND TOOLS FOR THE AUTOMOTIVE INDUSTRY, ALWAYS KEEPING IN MIND THE PHILOSOPHY OF CONTINUES IMPROVEMENT; THROUGH A QUALITY MANAGEMENT SYSTEM THAT LEAD US TO GUARANTEE THE COMPLETE SATISFACTION OF OUR CUSTOMERS.

QUALITY POLICY

WE HAVE THE COMMITMENT TO OFFER AUTOMATED EQUIPMENT, DEVICES AND TOOLS WITH THE HIGHEST QUALITY TO GUARANTEE THE COMPLETE SATISFACTION OF OUR CUSTOMERS THROUGH CONTINUES IMPROVEMENT PROCESS.

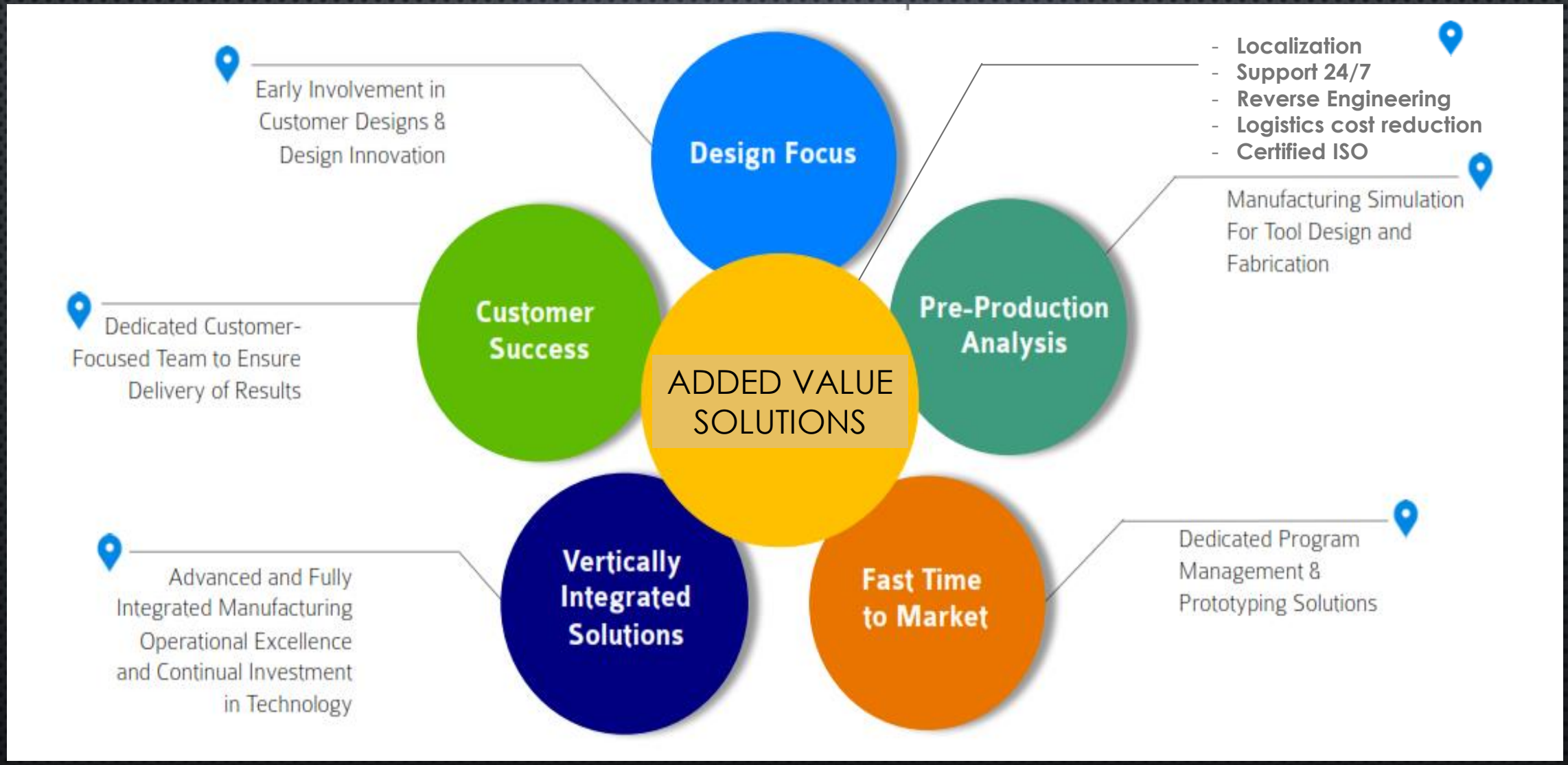
DEVELOPING PERMANENTLY THE HUMAN RESOURCE BASED ON WORKING TEAM AND CONSTANT TRAINING.

PLANT LOCATIONS:

AGUASCALIENTES & TOLUCA, MEXICO

SOLUCIONES INDUSTRIALES DE AGUASCALIENTES
TOOLS & DEVICES

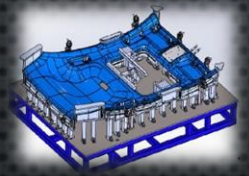
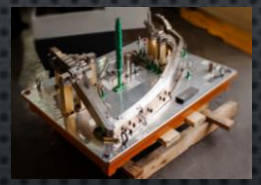
Service Oriented – Added Value

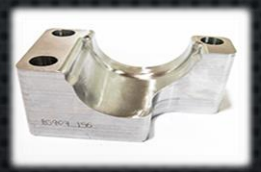


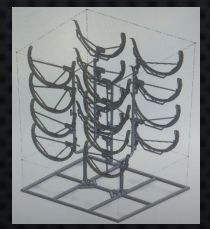
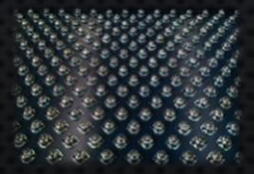
SOLUCIONES INDUSTRIALES DE AGUASCALIENTES
TOOLS & DEVICES

MAIN PRODUCTS

- CNC Machining: Checking Fixtures, Gauges, Pallets, Assy, body and Painting Jigs, Matrix, Water Jet Nest.
- Automation, Robot Integration & Programming.
- Automatic special equipment such as Conveyors, Assembly Lines for specific applications.
- Booths for painting, assembly, body or any other application (mixroom)
- Certified CMM Lab including 3.5 meters length Romer Hexagon Laser Arm (2 PIECES)
- Reverse engineering.
- Spare parts and service 24/7



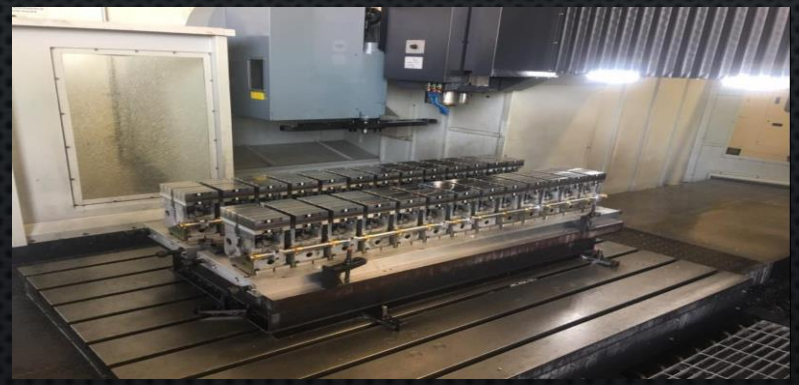



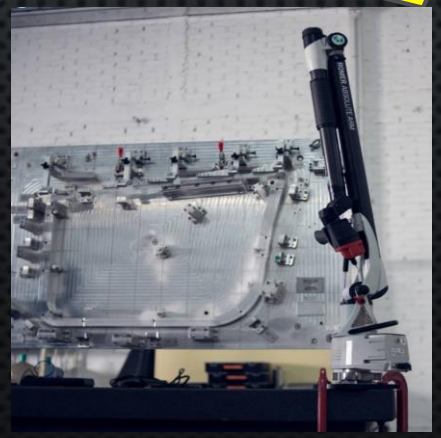
SOLUCIONES INDUSTRIALES DE AGUASCALIENTES
TOOLS & DEVICES

NEW ACQUISITIONS 2018

- CNC BRIDGEPORT 2000 mm x 1570 x 700 (X, Y, Z)
- CNC BRIDGEPORT 3000 mm x 1800 x 700 (X, Y, Z)
- 3.5 meters length Romer Hexagon Laser Arm (2 PIECES)

SUPPORT TO PRODUCTION OF CHECKING FIXTURES AND INJECTION/STAMPING MOLDS





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TOOLS & DEVICES

ASSEMBLY LINES

* WE DESIGN AND BUILD ASSEMBLY LINES DEPENDING ON THE CUSTOMER NEEDS

* ENGINE FULLY AUTOMATED ASSEMBLY LINE 2018

* HEADLINER AUTOMATED ASSEMBLY LINE 2018

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TOOLS & DEVICES

ROBOT PROGRAMMING AND BOOTHS

- Integration, Programming, Modification in articulated systems of 6 axes (robots) brands **FANUC, KUKA, ABB, YASKAWA AND DURR.**
- Booths for painting, assembly, body or any other application (mixroom)
- High experience in routes development, program modification for any application, even for painting, welding area and special treatments, such as application of sealant, flame & adhesive treatment, among others.

ROUTES, PAINT AND BOOTH + MIXROOM UPGRADE

ROUTES, PAINT BOOTH AND MIXROOM INTEGRATION IN AUDI

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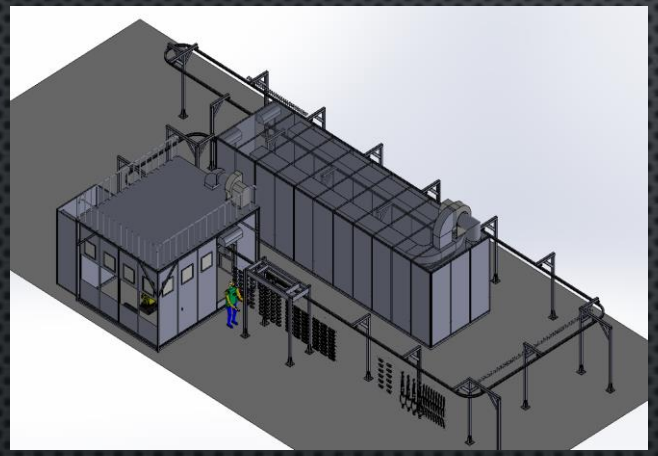
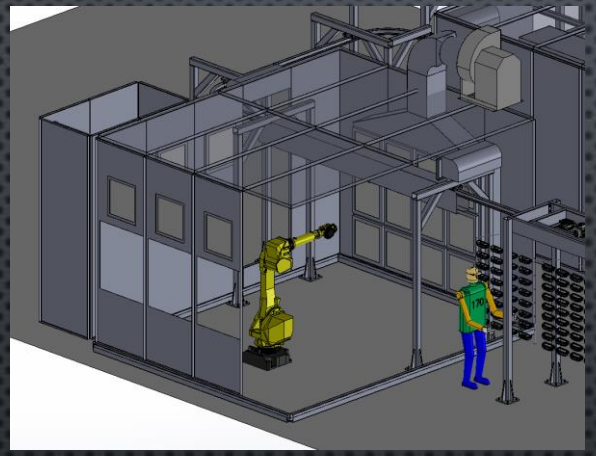
TOOLS & DEVICES

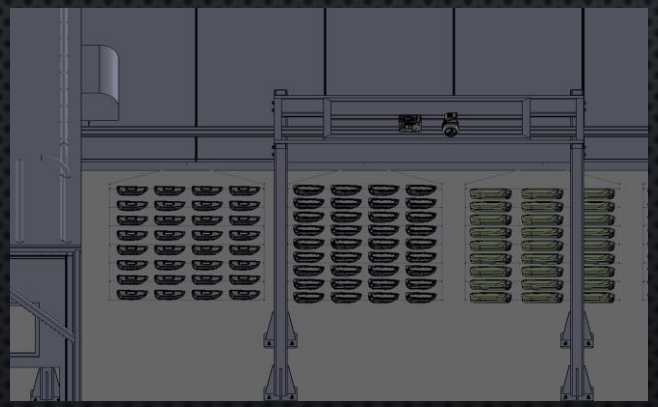
FLAME TREATMENT & ADHESIVE SPRAY BOOTH

(INDLUDES DESIGN & MFG OF BOOTH, CONVEYOR, DRY OVEN, FLAME AND JIGS)

Pieces: Arm Rest, Upper and Cockpit for Spanish Tier1



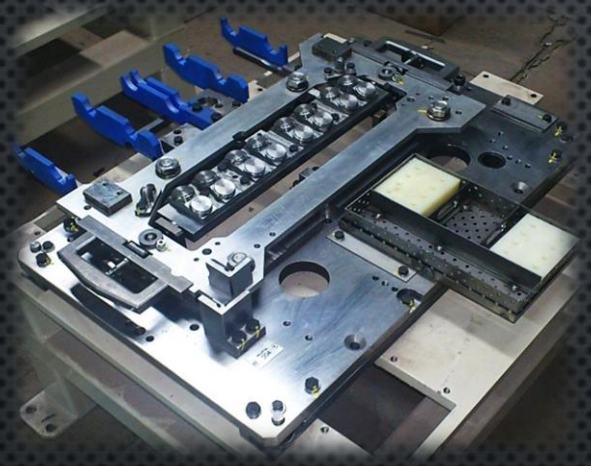


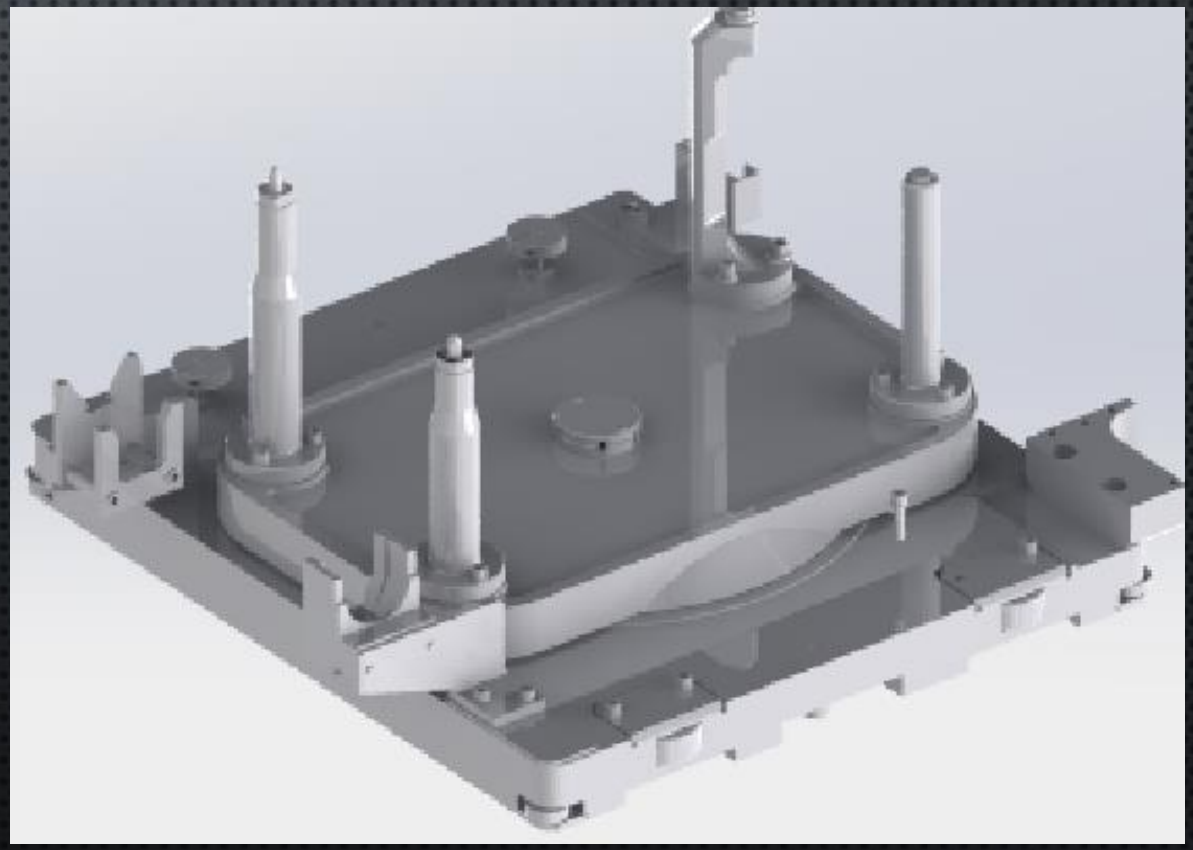


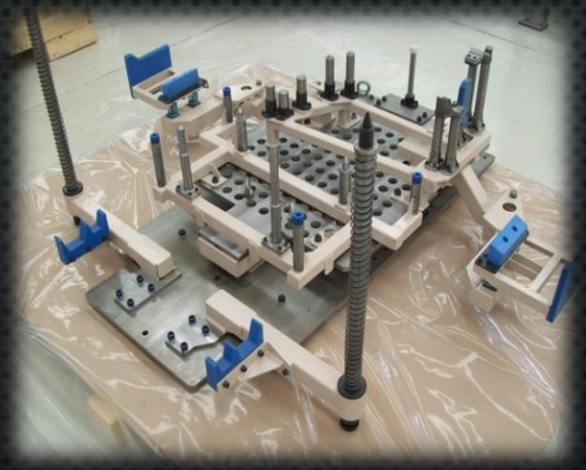
SOLUCIONES INDUSTRIALES DE AGUASCALIENTES
TOOLS & DEVICES

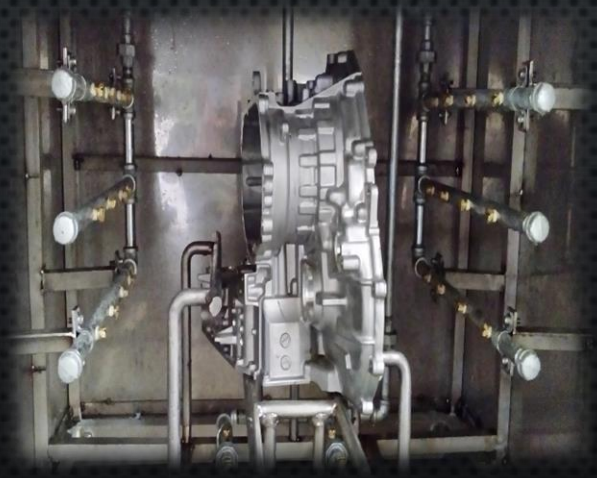
PALLET´S

* THE PALLET'S ARE OUR SPECIALTY, THESE ARE PLATFORMS THAT CARRY THE PRODUCT ALL A LONG THE CONVEYOR, ALSO THEY CAN BE USED FOR STORAGE .





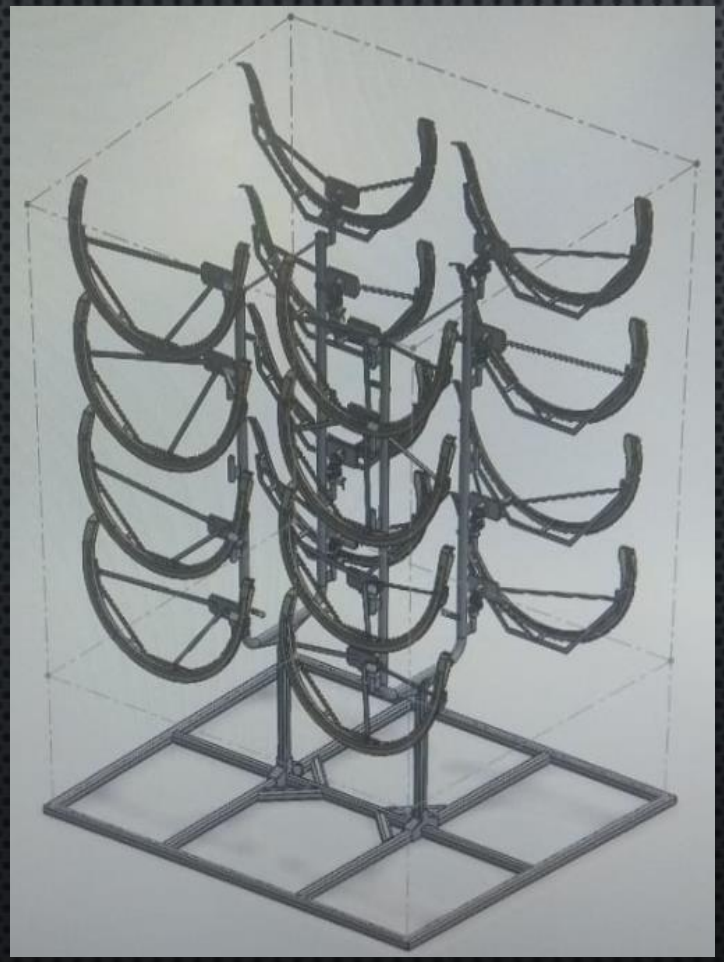


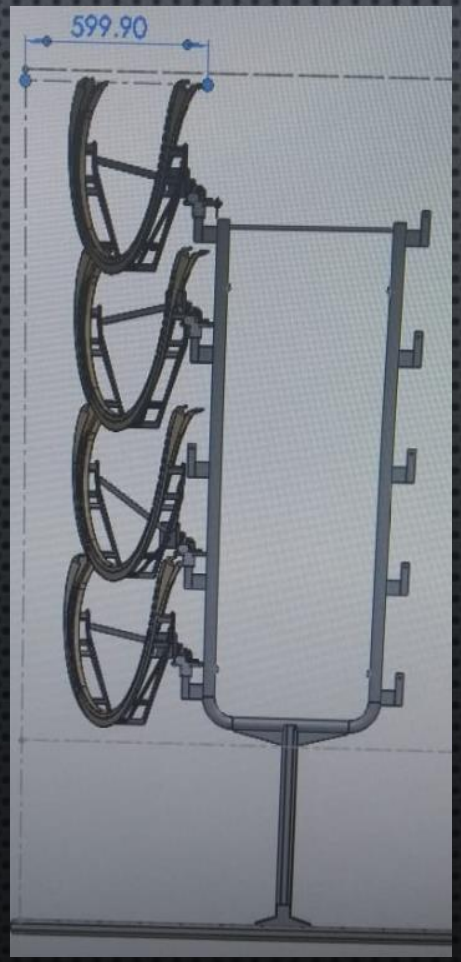


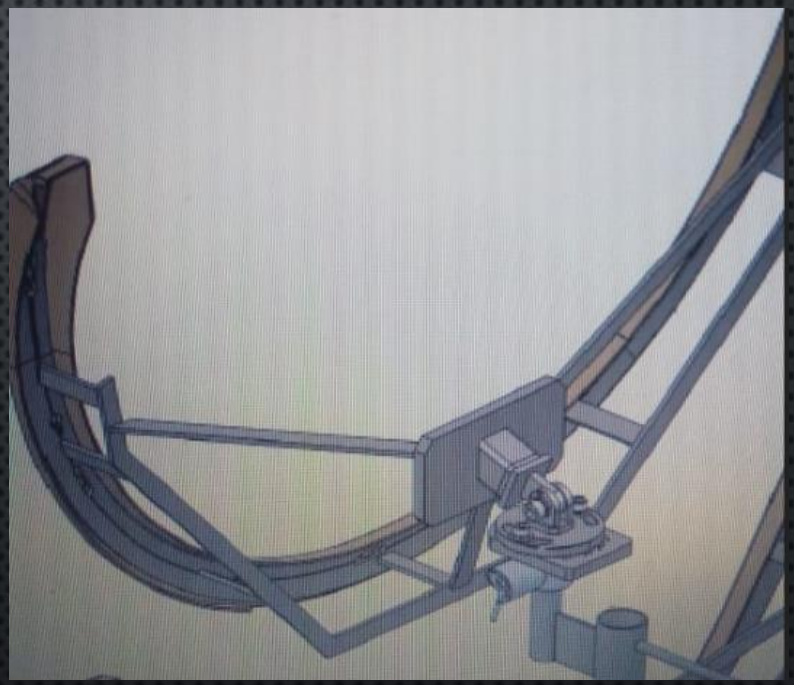
SOLUCIONES INDUSTRIALES DE AGUASCALIENTES
TOOLS & DEVICES

JIGS

* DESIGN & SUPPLY OF JIGS FOR PAINTING, ASSEMBLY AND BODY LINES.



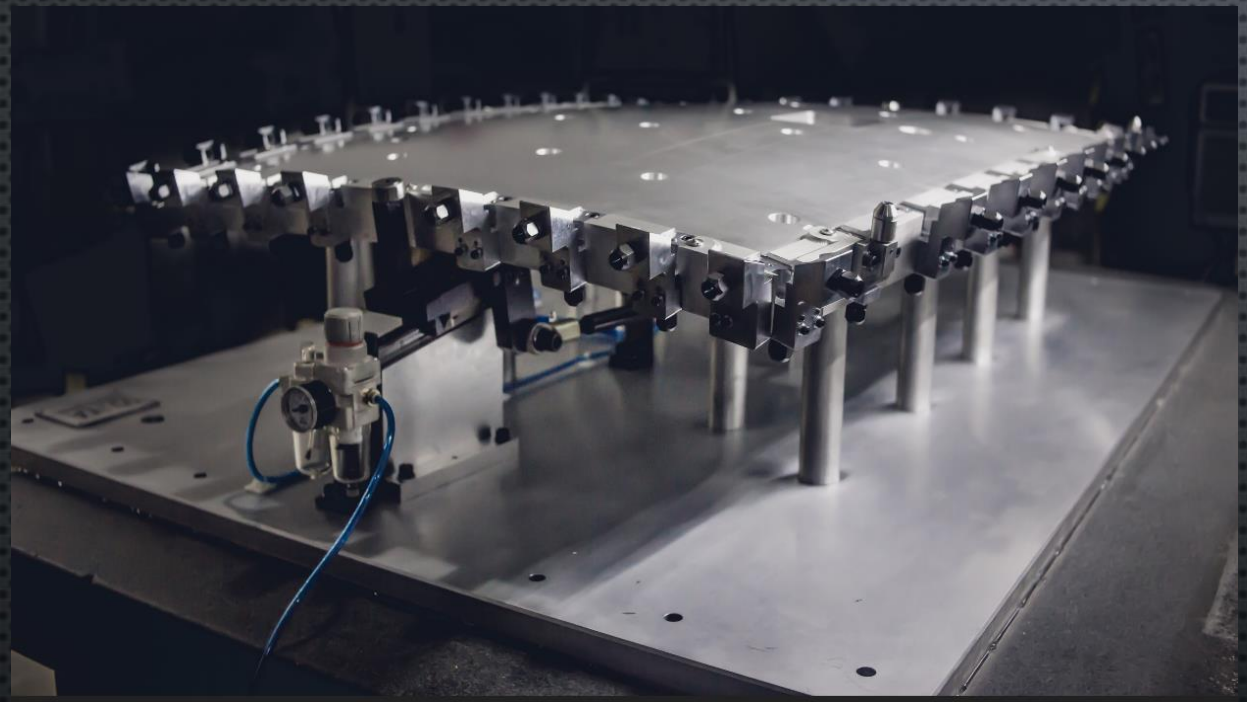


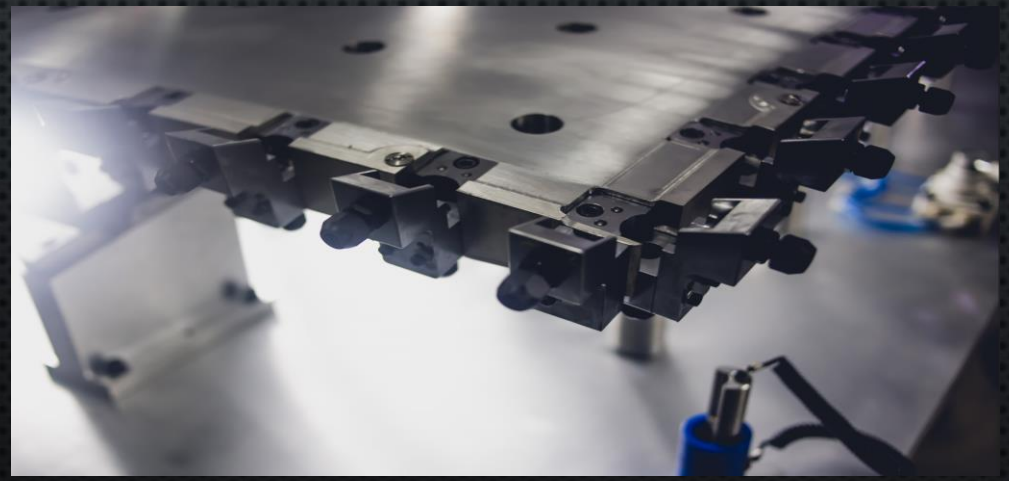


SOLUCIONES INDUSTRIALES DE AGUASCALIENTES
TOOLS & DEVICES

PRECISION CHECKING FIXTURES

- DESIGN AND MANUFACTURING OF PRECISION CHECKING FIXTURES AND HOLDING ONES IN AUTO POSITION AND SIMULATIONS.



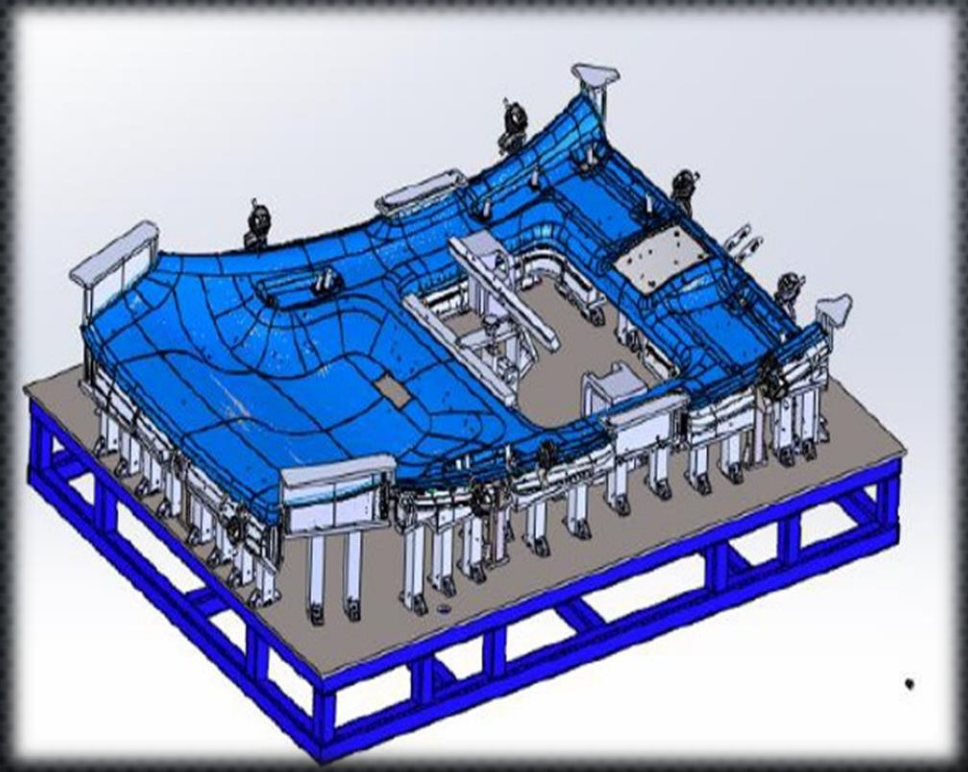


*CHECKING DESIGNED AND MANUFACTURED IN 8 WEEKS FOR **TESLA** #3 SUNVISOR PART IN SEP 2018.*

SOLUCIONES INDUSTRIALES DE AGUASCALIENTES
TOOLS & DEVICES

HEADLINER'S CHECKING FIXTURE

-DESIGN AND MANUFACTURING OF HEADLINER CHECKING FIXTURES, FOR PRECISION MEASURING OR INSPECTION ON PRODUCTION LINE.



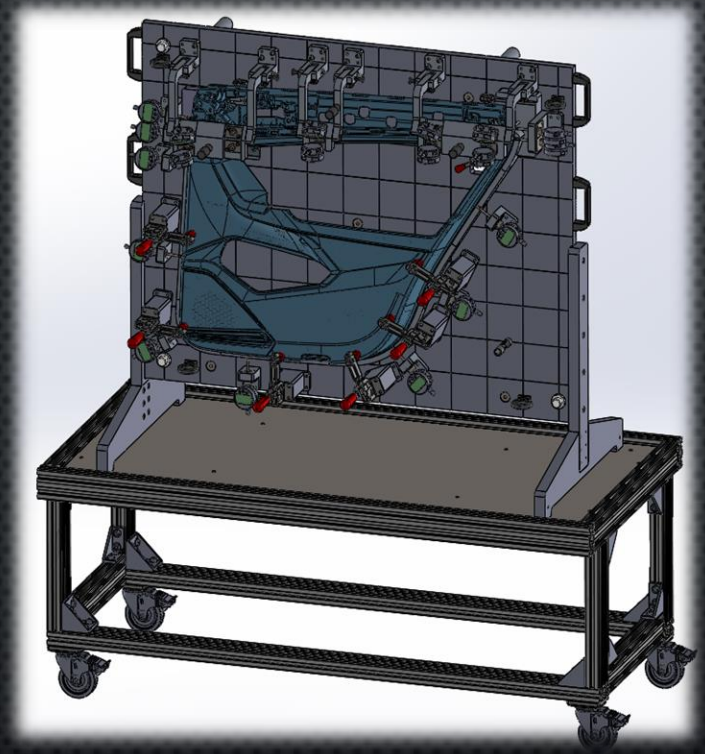
FORD HEADLINER C519 (2017)

SOLUCIONES INDUSTRIALES DE AGUASCALIENTES
TOOLS & DEVICES

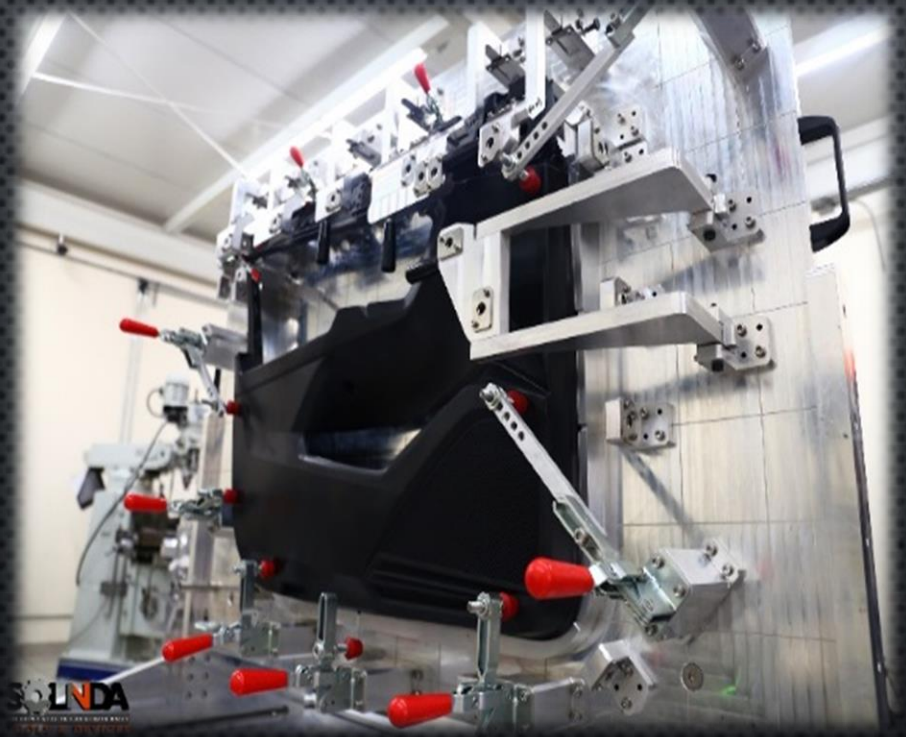
CHECKING FIXTURE VOLKSWAGEN "DOORS"

2017

FRAME FRONT LHD/RDH LEFT/RIGHT WITHOUT HDF



LH / RH



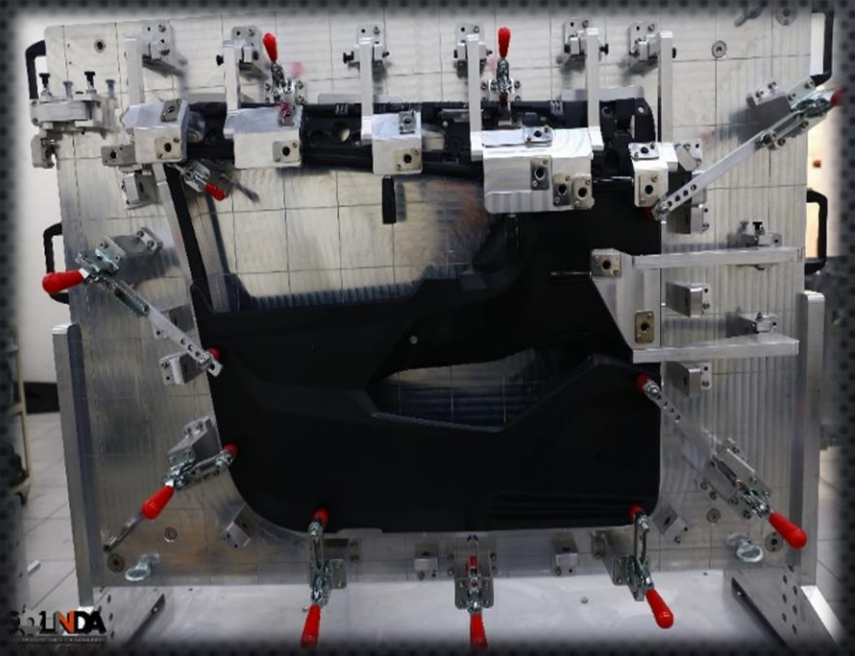
LH / RH

FRAME REAR LHD/RHD LEFT/RIGHT WITHOUT HDF

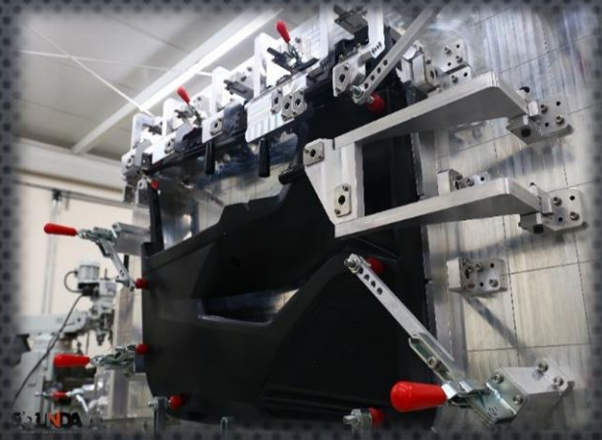
SOLUCIONES INDUSTRIALES DE AGUASCALIENTES
TOOLS & DEVICES

CHECKING FIXTURE VOLKSWAGEN "DOORS"

FRAME FRONT LHD/RDH LEFT/RIGHT WITHOUT HDF

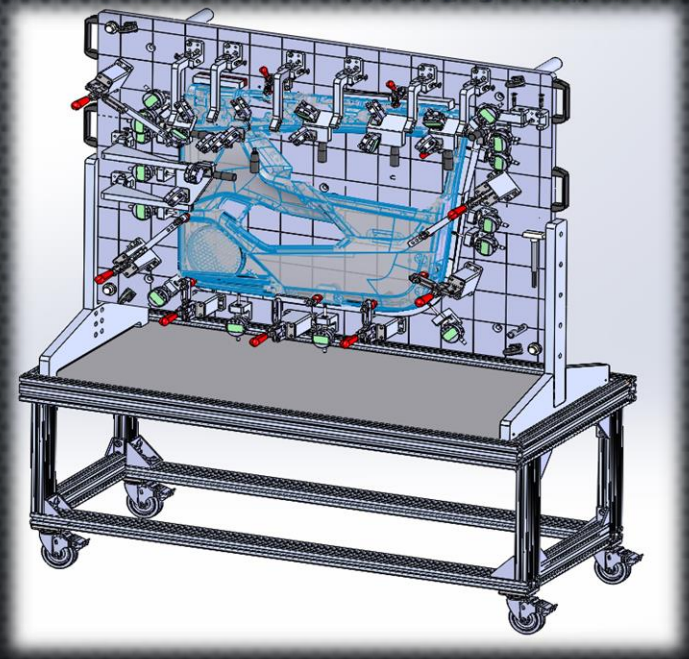


LH / RH



2017

FRAME REAR LHD/RHD LEFT/RIGHT WITHOUT HDF



LH / RH

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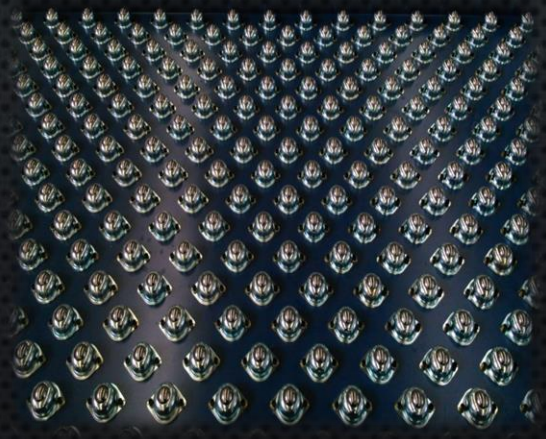
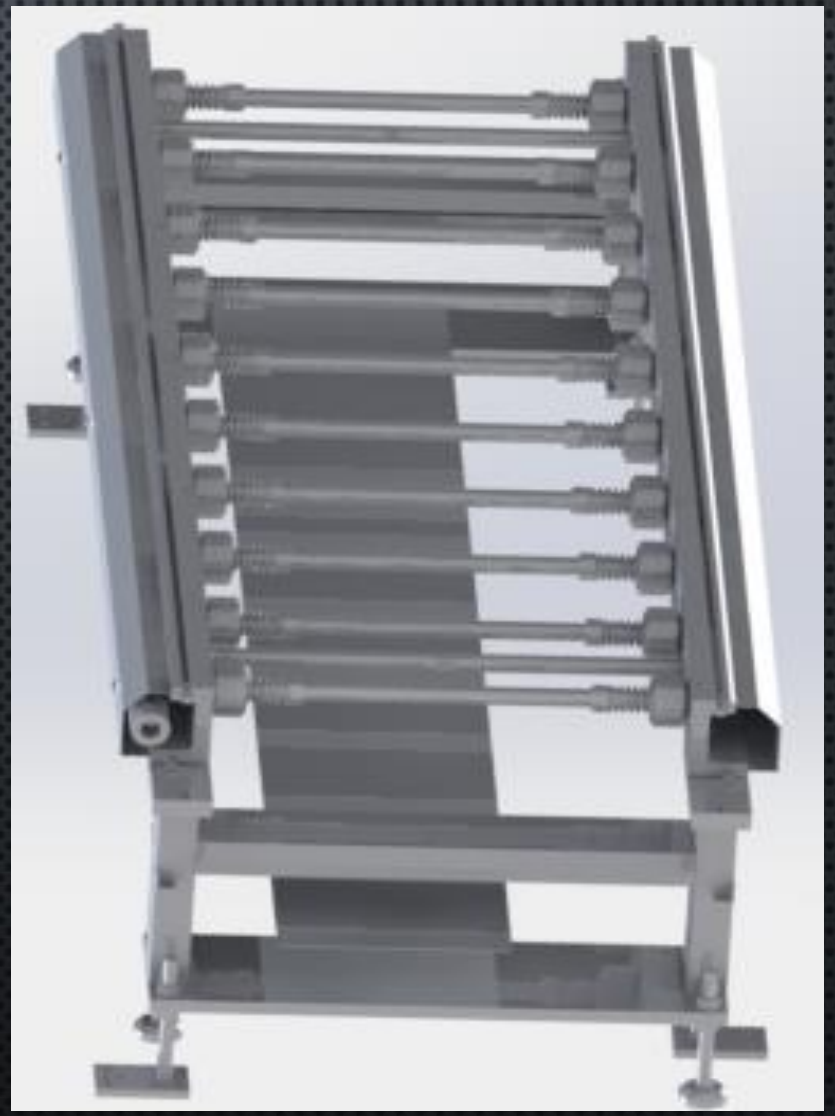
TOOLS & DEVICES

CONVEYORS

* DESIGN AND MANUFACTURING OF CONVEYORS OF ANY TYPE AND FOR ANY APPLICATION.

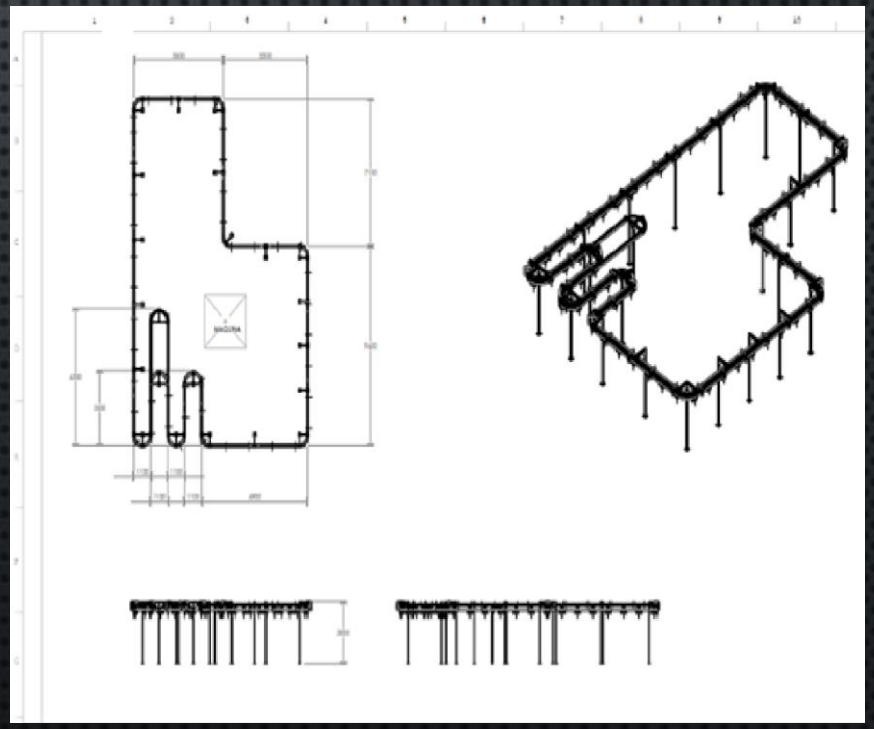




SOLUCIONES INDUSTRIALES DE AGUASCALIENTES
TOOLS & DEVICES

POWER & FREE CONVEYOR

- AIR CONVEYOR TO HANDLE "DOORS" AND "UPPER" TERMOFORMING PIECES AT ANTOLIN GROUP IN TOLUCA .
- FULLY POWER & FREE AUTOMATED ¡¡¡
- 80 METERS LONG.



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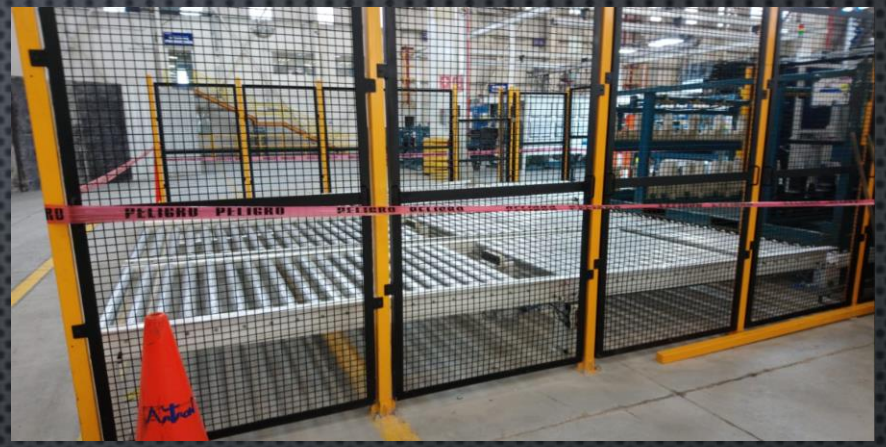
TOOLS & DEVICES

TRANSFER CONVEYOR FOR HANDLING EQUIPMENT

- SUPPLIED TO FLEX & GATE, GUANAJUATO.
- FULLY AUTOMATED IN 2018
- 4 METERS FRONT AND 8 METERS LENGHT.



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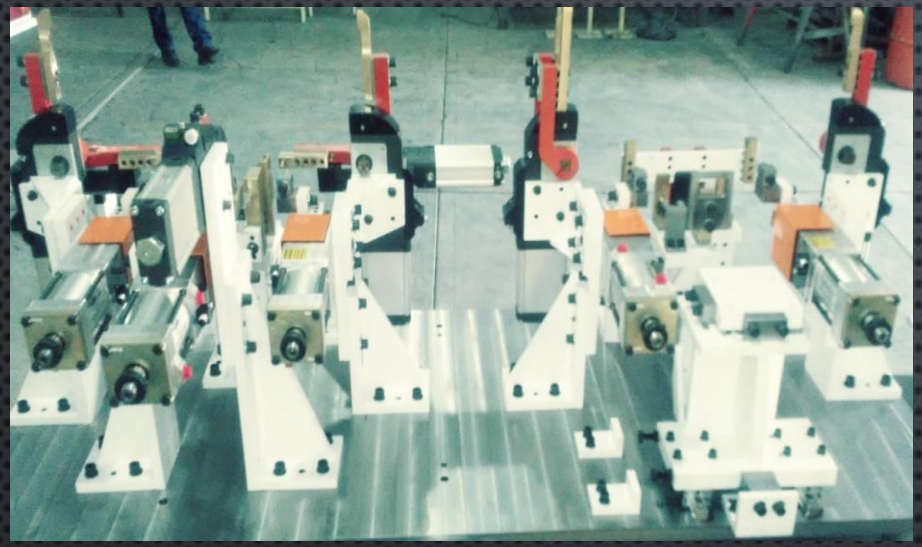
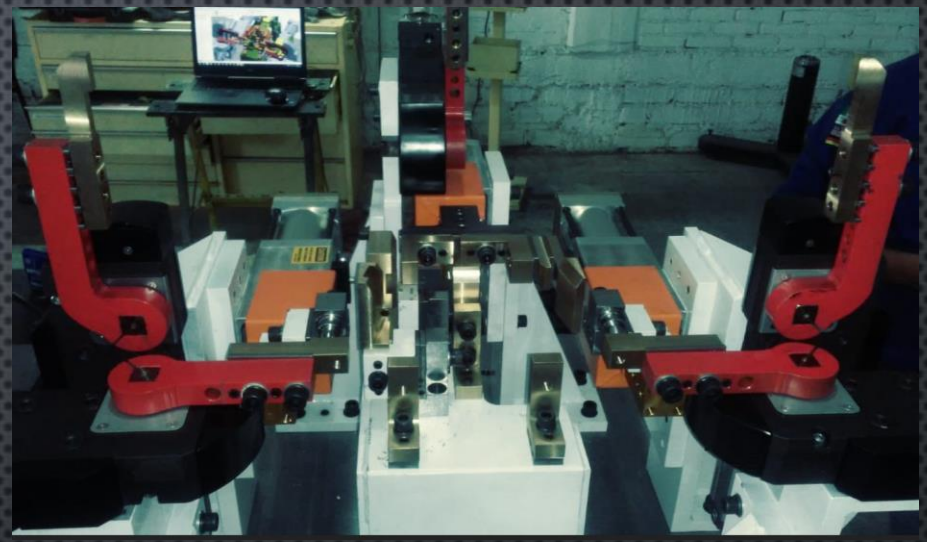
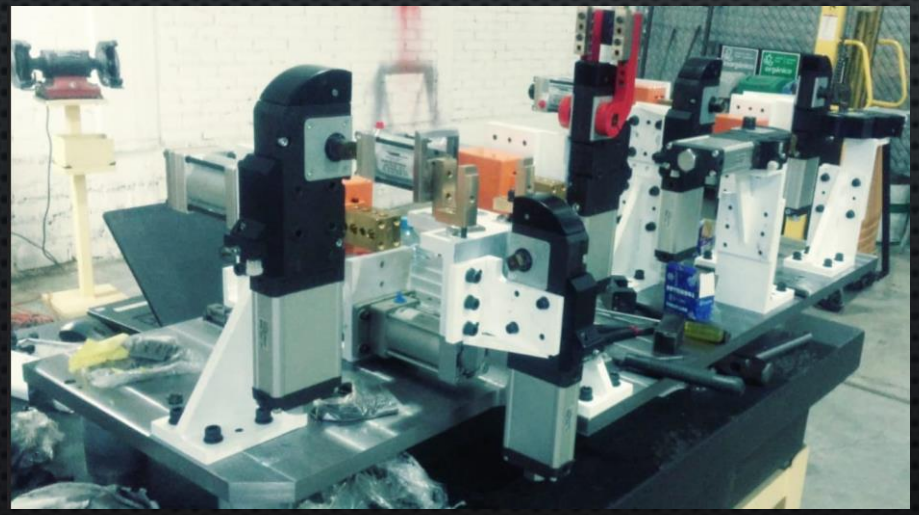
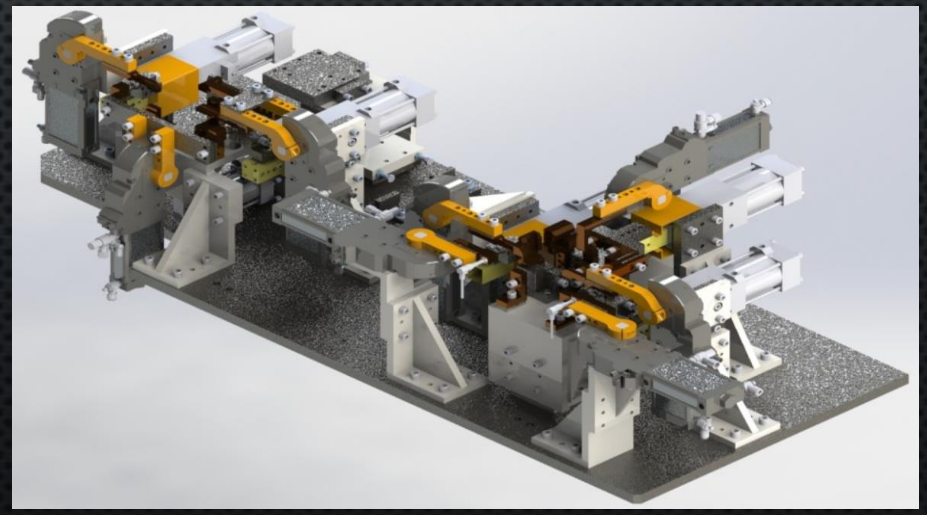
TOOLS & DEVICES

WELDING ASSEMBLY DEVICE IN ROBOTIC CELL (GESTAMP 2018)









SOLUCIONES INDUSTRIALES DE AGUASCALIENTES
TOOLS & DEVICES

EQUIPMENT AUTOMATION

- DESIGN
- MANUFACTURING
- INTEGRATION
- PROGRAMMING
- MODIFICATION

PROGRAMMING & INTEGRATION

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- High experience, programming in ladder language, in brands like :
  - Mitsubishi- Serie A, Q, FX.
  - Omron- Serie CP, CS, CJ1, CJ2, NJ
  - Allen Bradley Serie Micrologix, SLC5, Compact Logix, Control Logix
  - Siemens Serie S7
  - Delta Serie DVP

- High programming experience in human interface systems - computer (HMI screens) with mastery in brands such as:
- Mitsubishi- GOT1000, GOT2000.
  - Omron- Serie NB, NA, NS, NT
  - Allen Bradley Serie Component 800, Pannel View.
  - Siemens Serie Basic
  - Delta Serie DOP
  - Proface Serie GP

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TOOLS & DEVICES

ALSO:

- Experience in vision systems such as Keyence, Omron, Geva, Cognex.
- Industrial Communications as CC-Link, CC-Link IE, DeviceNet, ProfiNet, ProfiBus, Ethercat, Ethernet IP, Modbus, RS-485, RS-232, among others.
- Configuration and Programming of Servos as well as electric actuators linear (robocilinders) of brands like, Mitsubishi, Omron, Allen Bradley, IAI, SMC, Baldor among others.

SOLUCIONES INDUSTRIALES DE AGUASCALIENTES
TOOLS & DEVICES

OTHER SPECIAL EQUIPMENTS MFG

- WASHER MACHINES
  - Washer machine for crankshaft and camshaft
- SEAL APPLY MACHINES
- PRESSES

- Piston heater.

- Mass torque.

- Laser marker.

- Flatness meter machine.

- Front suspensión torque machine.

MACHINERY & EQUIPMENTS 2018

SOLUCIONES INDUSTRIALES DE AGUASCALIENTES
TOOLS & DEVICES

ITEM	CANTIDAD	NOMBRE	MARCA	CARACTERISTICAS
1	2	BRAZO ARTICULADO	HEXAGON	Volumen 3 Metros – Base 1.5 Metros
2	1	MAQUINA POR COORDENADAS CMM	MITUTOYO	700 x 1000 x 600 mm
3	1	SISTEMA DE MEDICIÓN POR VIDEO	VISION ENGINEERING	150 x 100 mm
4	1	LINEAR HEIGHT LH 600	MITUTOYO	Altura 600 mm
4	1	ELECTROEROSIONADORA VG500	EXCETEK	850 x 600 x 255 mm
5	1	ELECTROEROSIONADORA MOLIBDENO	TITANIUM	630 x 800 mm
6	1	ELECTROEROSIONADORA POR PENETRACIÓN	ZPNC-408	400x300 mm
7	1	ELECTROEROSIONADORA POR BARRENACIÓN	TITANIUM	200 x 300 mm
8	1	CENTRO DE MAQUINADO CNC PUENTE	HISION	2000 X 1750 x 760 mm
9	1	CENTRO DE MAQUINADO CNC	MILTRONICS	50 x 30 x 24 Pulgadas
10	1	CENTRO DE MAQUINADO 5 EJES	CHEVALIER	Mesa Rotativa 58 mm a 405 mm
11	1	CENTRO DE MAQUINADO 3 EJES	HISION	2000 X 1750 x 760 mm
12	1	CENTRO DE MAQUINADO 3 EJES	DAEWOO	762 X 406.5 X 508 mm
13	1	CENTRO DE MAQUINADO 4 EJES	CHEVALIER	1020 x 530 x 510 mm
14	2	CENTRO DE MAQUINADO 3 EJES	CHEVALIER	1020 x 530 x 510 mm
15	1	CENTRO DE MAQUINADO	HARDINGE	40 x 20 x 20 Pulgadas
16	1	TORNO CNC DOBLE HUSILLO	TSUGAMI	Diametro 280 mm, 260 mm, 51 mm
17	1	TORNO CNC	MORISEIKI	400 x 600 mm
18	1	TORNO CNC	BOOHI	Φ400mm / Φ350mm
19	1	TORNCO BANCADA INCLINADA	TITANIUM	175 x 420 mm
20	1	TORNO BANCADA INCLINADA	DAEWOO	160 x 330 mm
21	1	RECTIFICADORA CILINDRICA	SATURNO	320 x 1000 mm
22	1	RECTIFICADORA PLANA	MC LANE	12 “X 30”
23	1	RECTIFICADORA PLANA	G	370 mm –700 mm
24	1	RECTIFICADORA PLANA	CHEVALIER	305 X 610 mm
25	2	FRESADORA CONVENCIONAL	SATURNO	406 x 914 x 127 mm
26	2	FRESADORA CONVENCIONAL	TITANIUM	406 x 914 x 127 mm
27	1	TORNO CONVENCIONAL	BOOHI	1000 / 1500 mm
28	1	TORNO CONVENCIONAL	MORISEIKI	12 “x 32”

BRAND NEW ACQUISITIONS (2 PCS)
ROMER LASER ARM 3.5 M LENGTH
2 CNC MACHINES

THANKS FOR YOUR ATTENTION

SOLINDA
SOLUCIONES INDUSTRIALES DE AGUASCALIENTES
TOOLS & DEVICES

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