



Precision Beyond Machining

**PRECISION
MANUFACTURING
SOLUTIONS**

About Us

ISA Solutions is a Mexican company with more than 26 years of experience in the manufacturing of precision components and assemblies for customers in Mexico, the United States, and Canada. Certified under ISO 9001, we have a solid track record in international operations and serve a wide range of industrial sectors.

We provide comprehensive precision machining solutions and manage all required services to deliver the final product: material sourcing and traceability, integration of third-party parts and components, heat treatments, coatings, assembly, and specialized packaging.

We specialize in low- to medium-volume production with high product mix, offering agile response times and reliable delivery performance.

Industries We Serve

We support customers in Mexico, the U.S., and Canada across key industries such as:

- *Commercial Vehicles & Heavy Duty*
- *Energy and Oil & Gas*
- *Electronics & Instrumentation*
- *Medical Devices & Precision Technologies*
- *Industrial Machinery & General Manufacturing*



Our Customers

WESTLOCK
CONTROLS

 **CHESTERTON**
Global Solutions, Local Service.

maximatecc.

Barksdale
CONTROL PRODUCTS


HOFFMAN

 **PENTAIR**

XOMOX®

 **Weasler**®

 **PROESA**
Producción y Especialización en Aluminio S.A. de C.V.

SIEMENS
energy

 GE Healthcare

 **Littelfuse**®

 **TE**
connectivity

Mold Masters®

 **CIRCOR**
Instrumentation and
Sampling Business
CRANE

 **A&P** Acoustic & Plastic
SOLUTIONS
driven by innovation

Baker Hughes™

Manufacturing Model

Prototyping and Initial Development

Manufacturing of single parts or first production runs for design and process validation.

Low–Medium Volume / High-Mix Production

Small and medium batches with high flexibility, ideal for customers with multiple product variants.

High-Volume Production

Use of Swiss-type lathes and other highly automated CNC equipment for high-precision parts.



Core Processes

1. **CNC Precision Machining**
Vertical machining centers with 4th axis.
2. **Multi-Axis CNC Turning**
Multi-tasking turning centers with live tooling and dual-spindle capability.
3. **Swiss-Type Turning**
5-axis Swiss-type CNC machines.
4. **Mechanical Assemblies & Integration of External Processes**



CNC Precision Machining

- *Technology: CNC Vertical Machining Centers with Rotary 4th Axis.*
- *Machining of prismatic components or 4-axis geometries.*
- *Maximum Travels:*

X=1100 mm (43.3")

Y=560 mm (22")

Z=635 mm (20.5")

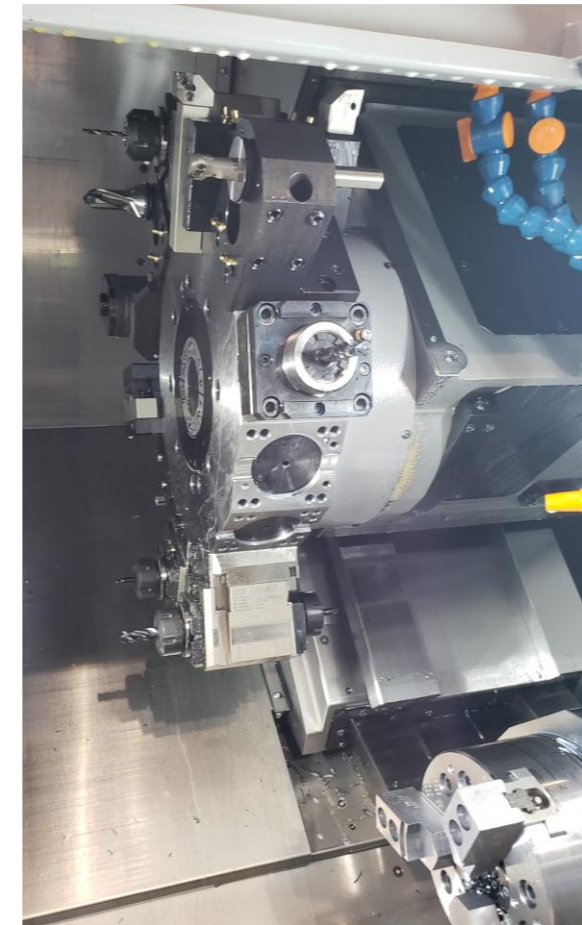


Multi-Axis CNC Turning

- *Technology: CNC multi-tasking lathes with Y-axis, dual spindles, and live tooling.*
- *Capability: Parts that combine turning and milling operations in a single setup.*
- *Maximum Capacity:*

Diameter: 280 mm (11.02")

Length: 380 mm (14.96")



Swiss-Type Turning

- *Technology: 5-axis CNC turning centers with Y-axis and live tooling.*
- *Capability: High-precision production of complex parts in long-run series.*
- *Maximum Turning Capacity:*

Diameter: 32 mm (1.26")

Length: 320 mm (12.59")



Mechanical Assemblies

- *We integrate machined components and standard hardware into ready-to-install subassemblies.*
- *Complex assemblies and lightweight, functional, high-precision subassemblies.*
- *Low-complexity mechanical and pneumatic assemblies, delivered ready for immediate use.*



Integration of External Processes

Coatings & Surface Finishes

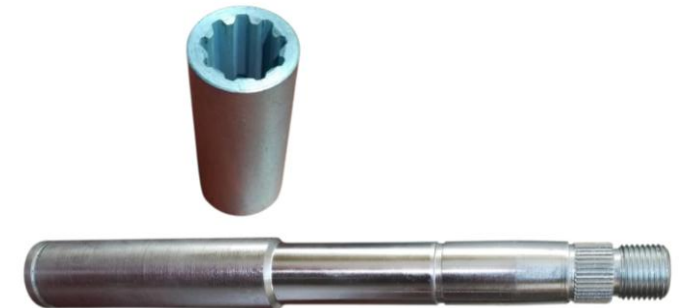
- *Anodizing (clear, hard, colored)*
- *Zinc Plating and Galvanizing*
- *Electroless or Electrolytic Nickel Plating*
- *Hard Chrome Plating*
- *Stainless Steel Passivation*
- *Black Oxide*
- *Powder Coating*

Heat Treatments

- *Quenching and Tempering*
- *Nitriding*
- *Carburizing*
- *Normalizing and Annealing*
- *Induction*
- *Hardening*
- *Vacuum Heat Treatment*

Special Processes

- *Broaching (internal profiles and special keyways)*
- *Custom Special Operations according to customer requirements*

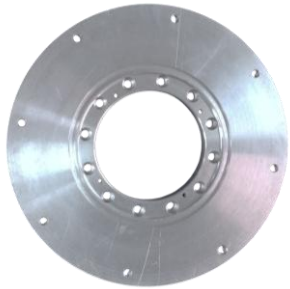


Materials

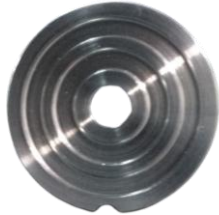
Carbon Steel	Stainless Steel	Non-Ferrous Metals	Engineering Plastics
1008 1010 1018 1026 1045 1117 12L14 4140 4320 8620	303 304 316 420 431 17-4 PH	Aluminum (Extruded) 6061 T6 6063 T52 6082 Aluminum (Casting) 356 Copper/Bronze/Brass C11000 C17200 C17500 C93200 C360	Acetal (Delrin) Nylon Phenolic HDPE UHMW-PE PEEK
			Others
			H13 Monel Inconel

Note: We comply with international standards according to customer requirements, including ASTM, AISI, ASME, and SAE.

Portfolio of Machined Components



Ø410 x 35 mm
Ø16 x 1.380"
356 Al Casting



Ø32 x 9 mm
Ø1.250 x .304"
H13 Steel



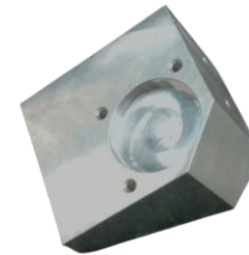
Ø50 x 34 mm
Ø1.970 x 1.338"
6061T6 Al
Anodized



16x47mm
.625 x 1.850"
4140T Steel



14 x 12 x 10 mm
.550 x .470 x .390"
4140T Steel



71 x 66 x 52 mm
2.800 x 2.600 x 2.050"
6061T6 Al



Ø102 x 38 mm
Ø4" X 1.500"
12L14 Steel
Phosphated



Ø 25 x 29 mm
Ø1 x 1.140"
304SS



Ø76 x 33 mm
Ø3" x 1.300"
12L14 Steel
Phosphated



Ø16 x 54 mm
Ø.625 x 2.125"
C360 Brass



28 x 47x 54 mm
1.102 x 1.850 x 2.125"
316SS Casting



Ø29 x 92 mm
Ø1.140 x 3.622"
1117 Steel
Black Oxide



94 x 80 x 69mm
3.700 x 3.150 x 2.700"
304SS



130 x 51 x 6 mm
Ø5.250 x 2 x .250"
316L SS

Certification

Quality management system
certified to the ISO 9001:2015
International Standard.



ID: A303QA18-SGC-I101

Grant date: November 28, 2018

Renovation date: January 02, 2025

Effective date: November 27, 2027



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ORGANISMO DE CERTIFICACIÓN
ACREDITADO 109/16



Q-ALLIANCE
Certification ISO 9001

www.qalliance.org

Calle Pilares, No. 1022 Col. Letrán Valle, C.P. 03650, Alcaldía Benito Juárez, Ciudad de México, México. Tels. (55) 7045 5600, (800) 9990 484.
The validity of this document can be verified on the page www.qalliance.org

CERTIFICATE

ISO 9001:2015

NMX-CC-9001-IMNC-2015

The Certification Body
"The Quality Alliance S.A. de C.V."
CERTIFY that:

**INGENIERÍA SERVICIOS Y APLICACIONES
S.A. DE C.V.**

Has a satisfactory management system with a scope
applicable to:

“Manufacturing of Precision Machined Parts”

On-site located at:

Calle Everardo Márquez 101, Pachuquilla, Mineral de la
Reforma, C.P. 42180, Hidalgo



Lic. Edgar Ortiz Monreal
CEO

SG.QALLIANCE.03.07

Quality & Regulatory Compliance



Quality Core Tools (APQP, PPAP, MSA, SPC, FMEA)

We apply the fundamental automotive quality tools for process control and product validation.



*Compliance with European **REACH** and **RoHS** regulations for materials and processes free of restricted substances.*



International Material Data System

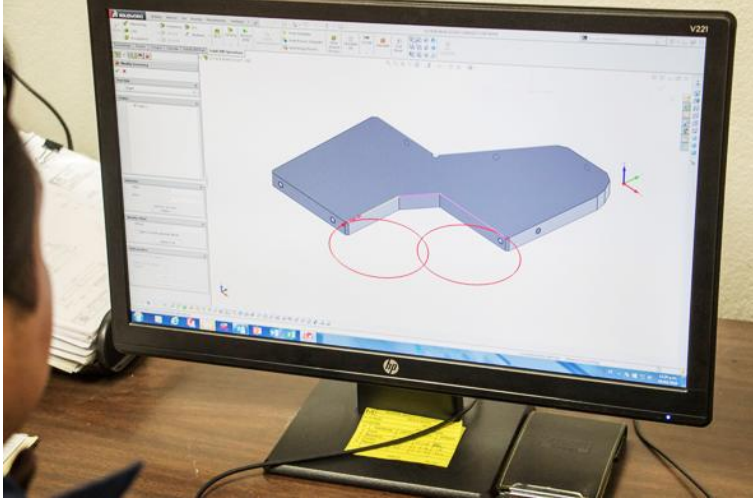
Material record and traceability in accordance with the IMDS system, used by the global automotive industry.

Metrology & Quality Control

- Coordinate Measuring Machine (CMM).
- Optical Comparator.
- Surface Roughness Tester.
- Thread Gauges.
- Various Dimensional Inspection Instruments.
- Proficiency in GD&T (Geometric Dimensioning and Tolerancing) for interpreting and validating complex drawings.



Software & Digital Tools



ERP & MRP



CAD/CAM



SPC & MSA



SolidCAM
The Ecosystem for Digital Manufacturing



Contact Us



Calle Everardo Márquez #101.
Col. Pachuquilla, Mineral de la Reforma,
C.P. 42180 Hidalgo, México.



+52 771-7162040
+52 771-7162041



afaddul@isasolutions.com.mx
logistica@isasolutions.com.mx



www.isasolutions.com.mx

