



Micron
WORKS

Let's get
the job
done!



A photograph of three people (two men and one woman) standing in front of a large piece of industrial equipment. The equipment has 'CVG 6' and 'TAIYO KOKI' written on it. The image is dimmed with a blue overlay. A large white number '1' is on the left side of the image.

1

About Us

+ 77 years of combined experience
in the **Mining Industry**



María Fernández

- MAM @ Yale SOM
- + 15 years developing new markets



José Padilla

- MSc @ ITESM
- + 12 years designing processes

Hello!

We're here because we love **challenges**.

Severo Fernández

- + 50 years in Metal Machining Processes





Our experience

- Complex Machining (6 axis lathe, 5 axis milling)
- Gear Manufacturing
 - CNC Grinding
 - GD&T
 - Core Tools
- CMM Inspection
- Reverse Engineering
- Statistical Process Control
- Vertical Integration Processes (IMMEX experience, suppliers developed from all over the world).



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Micron Works

Let's get the job done!

Location

- 6 hrs. from the US border.
- 4 hrs. from Monterrey City
- 4 hrs from Querétaro City
- Next to 57 Federal Highway
- International Logistics Experience (IMMEX Program)

Our Numbers

- **\$ 2.6 M USD** CAPEX
- **\$ 1.36 M USD** 2022 revenue
- **17** employees
- **2,000 m²** (21,500 sq. ft.) brand new facilities

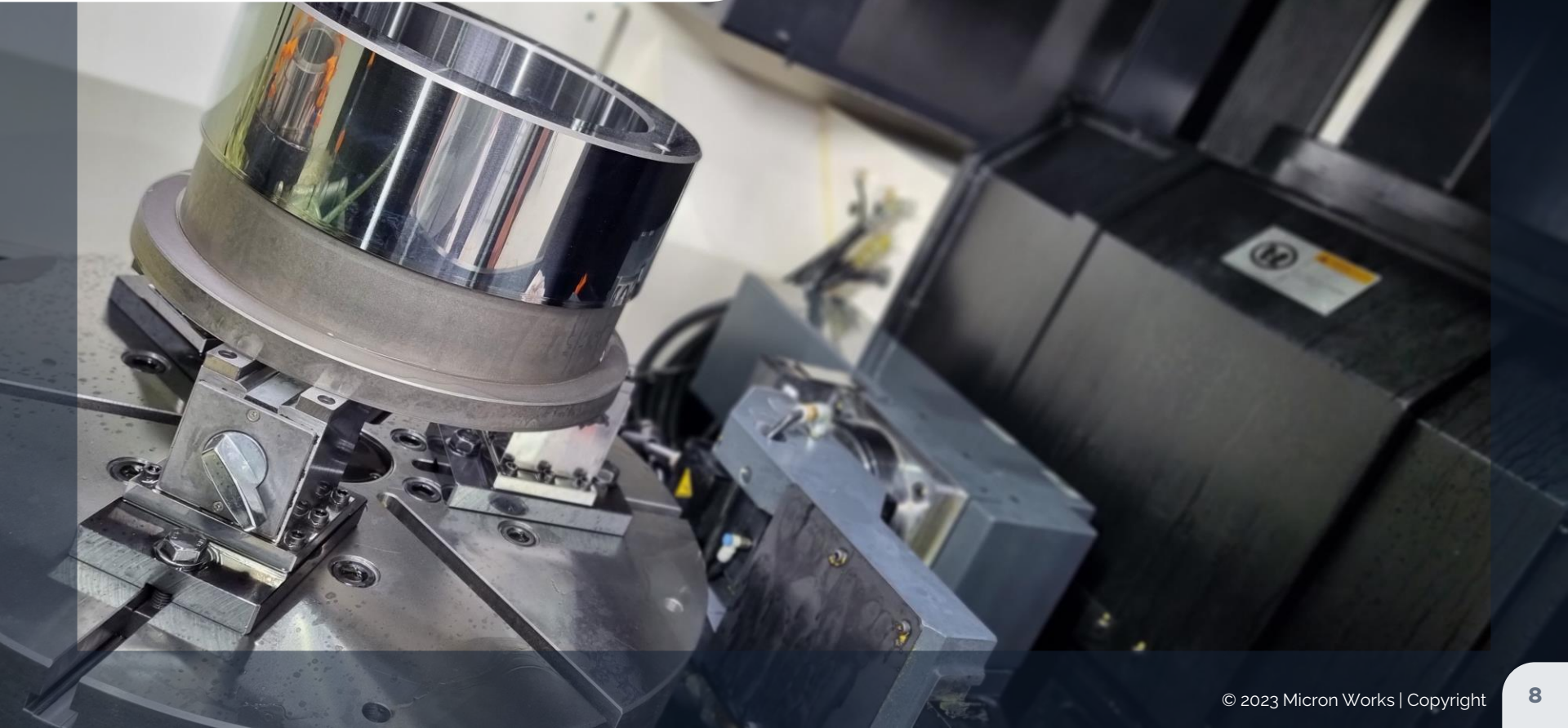


Highly skilled collaborators

- Over **18 years** of experience on Grinding and CNC processes.
- Applications and Quality Engineers
- Core tools knowledge
- CMM, CAD, CNC
- GD&T



Grinding Experts





VM-55

- 400 mm max ID
- 500 mm max OD
- 300 mm length
- 500 kg workpiece

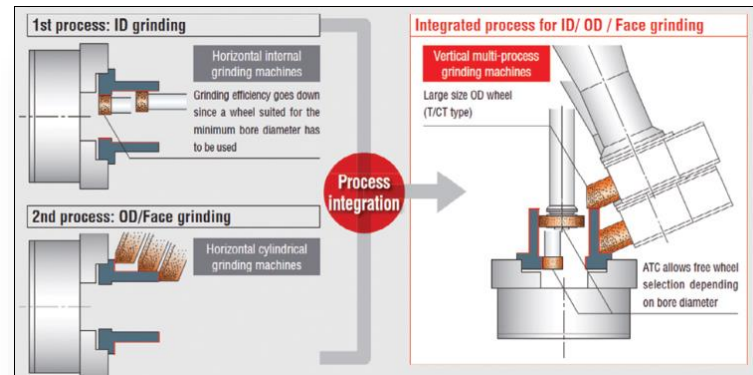


VM-85

- 800 mm max ID
- 800 mm max OD
- 500 mm length
- 700 kg workpiece

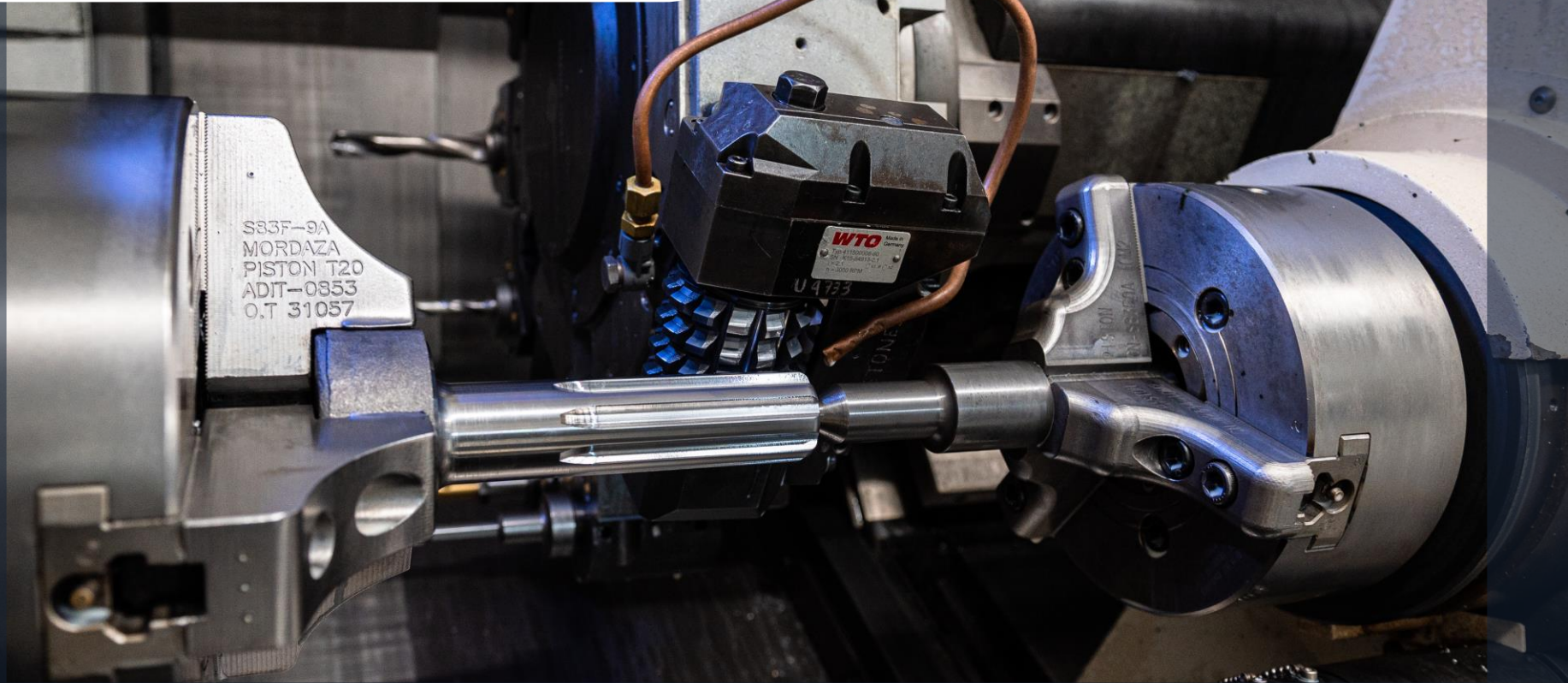
<https://www.aerospacemanufacturinganddesign.com/article/g-advantages-of-cnc-vertical-grinding-machines/>

<https://www.aerospacemanufacturinganddesign.com/article/cylindrical-grinding-machine/>





Complex Machining





Puma V8300 M

- 40 Hp Heavy Duty Vertical turning center
- 830 mm turning diameter
- 780 mm Z axis
- 26 Hp Milling Capability



DNM 6700

- High productivity VMC
- 1300mm x 670mm x 625mm (XYZ)
- Cat 40 Big Plus
- 12k RPM

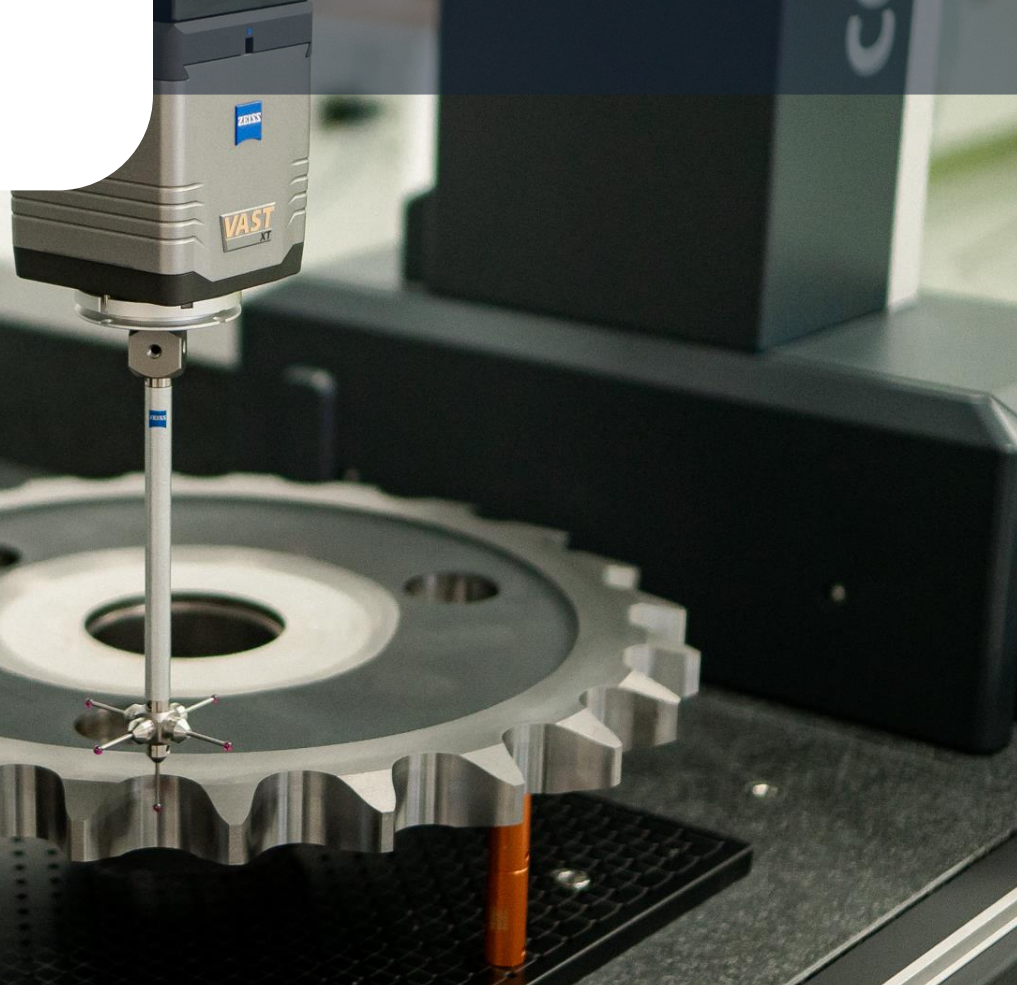


SVM 4100

- Light, high speed cutting
- 770mm x 410mm x 510mm (XYZ)
- Cat 40 Big Plus
- 12k RPM

CMM

Fully automated inspection



Specs

- 700 x 1,000 x 600 mm (XYZ)
- Highest precision stylus
- 1.2 μm repeatability range
- 730 kg. max. workpiece weight



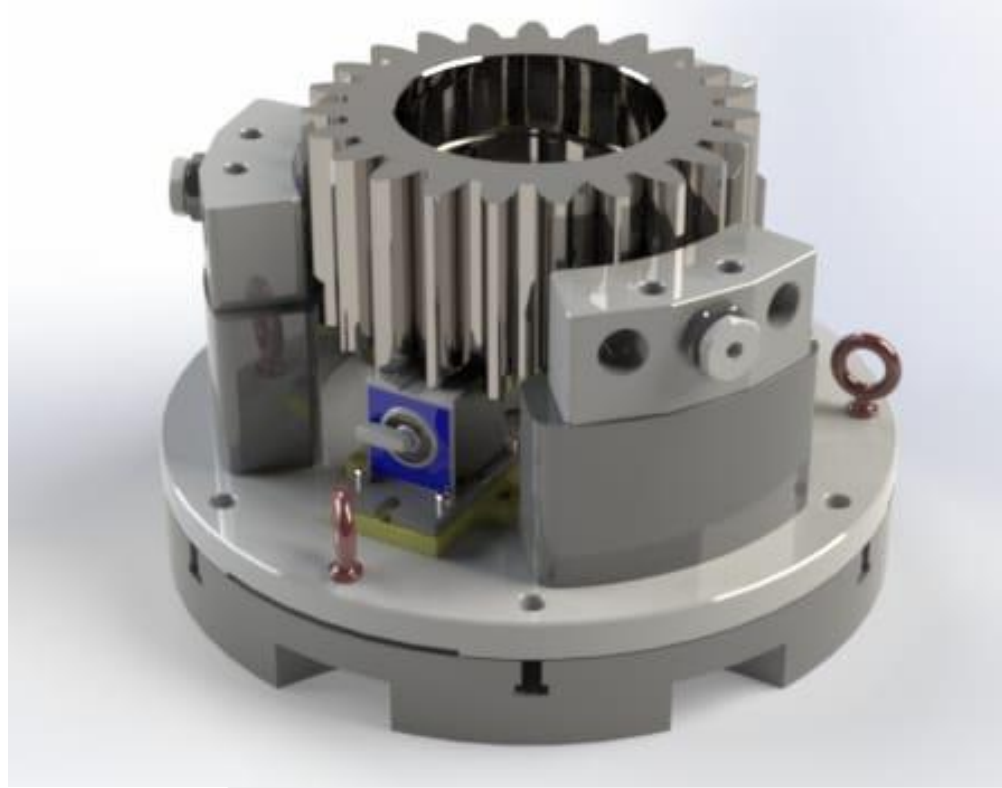
Inspection

Nital Acid Etching



From the idea

- All of our **fixtures** are **designed, machined, heat treated and ground** by our engineering team.
- **CAD** (Solid Works) modeling of our fixtures.



To the finished product



Our **process** is easy

Feasibility

We like to be sure that we can make what you need.

Quoting & Contract

Terms and conditions of the new commercial relationship.

Testing

Developing NC program and running trials at our facilities on similar material, with standard cutting tools. Getting a good estimate on C/T will be provided



Prototyping

Making a few parts on the real materials with standard cutting tools. Dimensional report will be provided.



PPAP

Running a Production Parts Approval Process on site with the actual machines and special tools. Dimensional and statistical report will be provided.

+ 6,100 ground gears

In less than a year



Supplier

0.4 % NC parts

We care how we do things

3 μ m straightness tolerance

Total success!

16 approved PN's

PPAP is our best friend



Supplier

6 projects

Currently developing new solutions

100% on time delivery

We're always on a rush!



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ISO Certifications

- **ISO 9001:2015** Work in Process, Certification by August 2023
- **ISO AS 9100** Starts February 2024



Your New Team

**We
want
to ...**

**THANK
YOU
FOR
YOUR
TIME**

