

# MEXICONOW SAMKWANG



Samkwang. Globally Local



*Welcome to the world of*

**SAMKWANG** 

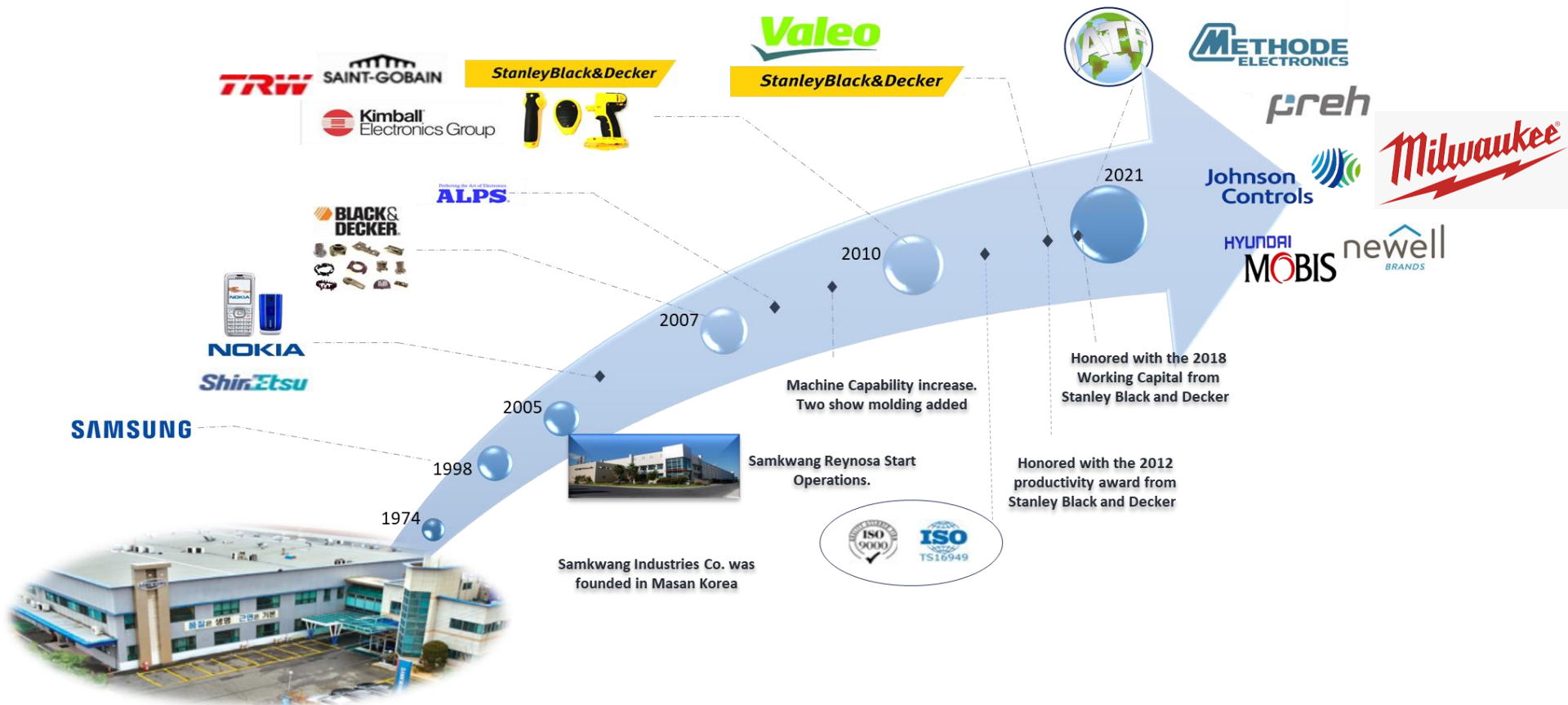
*Continuously striving to anticipate, meet and exceed all customer requirements.*



Samkwang has been established at Reynosa Mexico since 2005 with a clear mission to be focus 100% Customer providing services from top quality facilities, technological know-how, and competent human talent.

Through incessant creation and innovation, we are intent on becoming one of the top ranking technology companies of the world.

# Company History





## Vision

- A strong foundation of Core Competences, serving a Global Market, with World Class Performance in Delivering Value-added Services

## Mission

- Ownership
- Persistency to achieve goals

## Values

- Human Talent
- Emphasis on Fundamental
- On-site Oriented
- Technology First
- Differentiation



VISION



MISSION



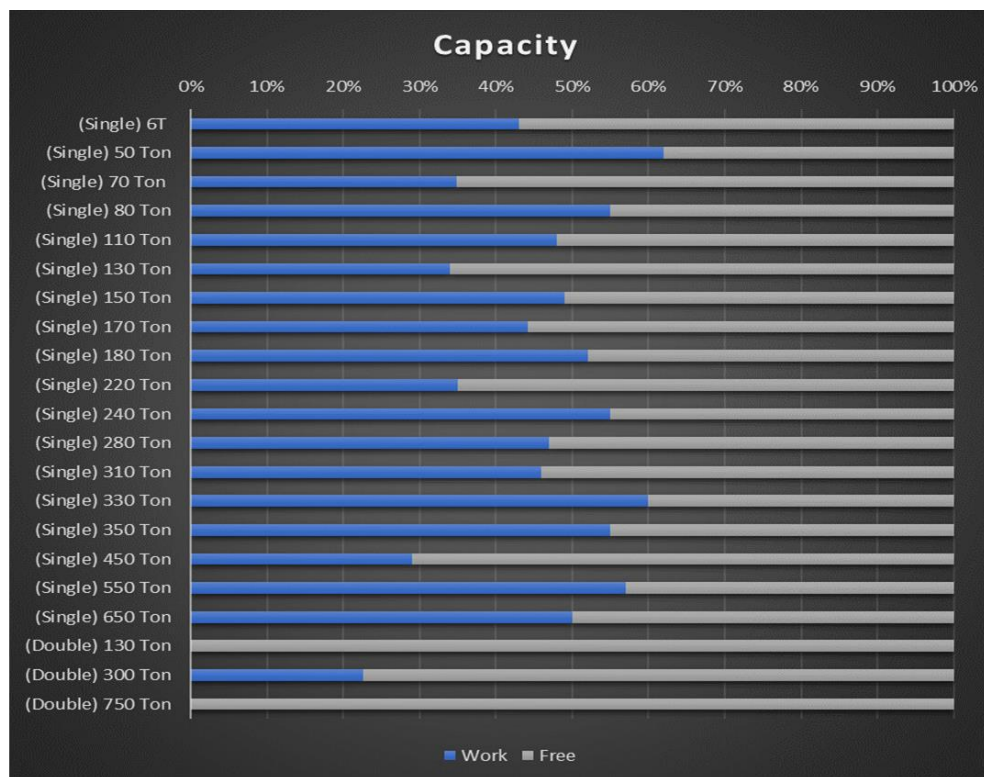
VALUES

- Long term partnership (+15 years with Stanley Black & Decker).
- Be Honest and Transparent.
- Communicate clearly and regularly.
- Compromise.
- Actively seek opportunities to collaborate.
- Bring a cheerful attitude to the (partnership) table.
- Be respectful with your partners



# Capacity

Qty	Ton
6	(Single) 6T
2	(Single) 50 Ton
1	(Single) 70 Ton
1	(Single) 80 Ton
1	(Single) 110 Ton
1	(Single) 130 Ton
6	(Single) 150 Ton
3	(Single) 170 Ton
8	(Single) 180 Ton
3	(Single) 220 Ton
1	(Single) 240 Ton
1	(Single) 280 Ton
1	(Single) 310 Ton
1	(Single) 330 Ton
4	(Single) 350 Ton
1	(Single) 450 Ton
3	(Single) 550 Ton
1	(Single) 650 Ton
1	(Double) 130 Ton
3	(Double) 300 Ton
2	(Double) 750 Ton
1	(Vertical) 120 Ton
52	



# Investment 2021: \$2M USD

LS 350T (Qty 4)



LS 280T (Qty 1)



SUMITOMO 180T (Qty 5)



LS 220T (Qty 1)



Haitian 130T (Qty 1)



# New Investment 2022: \$2M USD



## Babyplast 6T/12T (Qty 2)

- Mould with few cavities.
- Easier to balance cavity layout.
- Homogeneous mould temperature.
- Plastification of materials without frictional stress.
- The residence time is reduced in the injection unit.



## Sumitomo 50T (Qty 2)

- Reduced water and grease use
- Faster start-up
- Reduced scrap
- Faster cycle times
- Reduced downtime
- Quick mold change
- Minimized preventive.



## Haitian 750T 2-Shot (Qty 2)

- Two independent servo motor systems controlling the respective movements of two injection units to save energy, protect environment, reduce noise and achieve high repeatable precision.



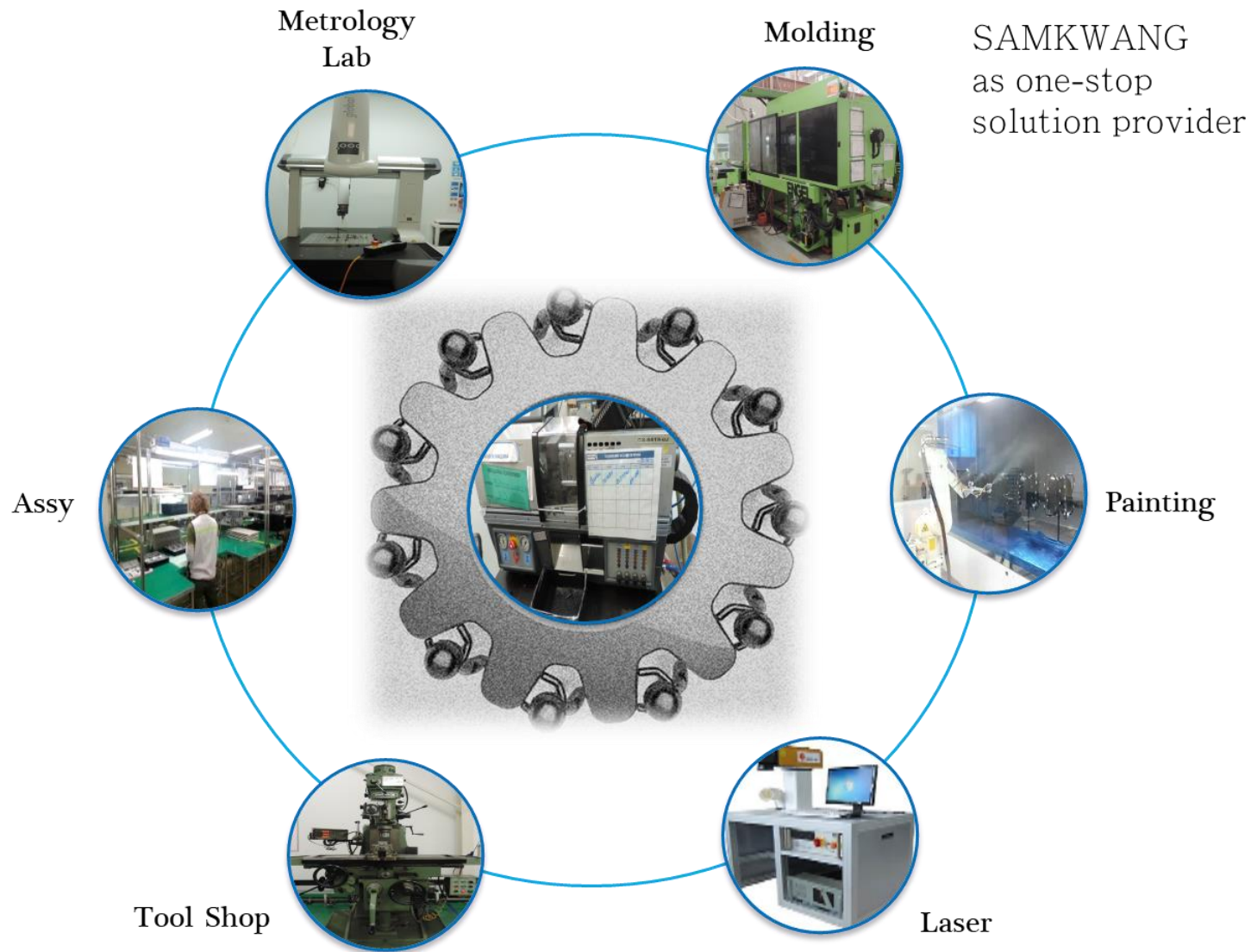
## Woojin 130T 2-Shot (Qty 1)

- Intuitive handling, easy to learn, with modern gesture control
- Precise and extensive process documentation
- Stable and safe process structure thanks
- Easy integration of periphery
- Open data interfaces OPC-UA, SQL, CSV
- Comprehensive remote maintenance and networking possibilities.



## Woojin 170T (Qty 3)

- Platen structure
- Durability increased
- Cycle time reduction
- Precise positioning
- Stabilized mold opening and closing motion
- Back pressure closed loop control
- PID temperature control and Synchronous Heater temperature control
- Saving energy and cooling water consumption.



# Injection Molding

With state-of-the-art injection facility, we have technological capability for injection control and superb reproducibility as well as quality and cost competitiveness through unmanned automation system. We can meet specifications desired by our clients using plastic injections for prompt production with the capacity for reproducibility and mass-production capacity. On the strength of on-going R&D and specialized know-how for injection of mobile phones, we have competitiveness in productivity and cost thanks to our unmanned automation system. We ensure quality products with bold investments in injection clean-room and optimum work environment.



- ❖ Primarily based on Engel machine
- ❖ Expansion availability
- ❖ 52 Machines

**New equipment 2021**

On the basis of accumulated processing technology and know-how from general-use to precision facility, Samkwang realizes processing of quality precision products and implements diverse molding injection and patterns.

We provide solutions that can solve problems as they occur in injection process through accumulated knowledge, from the design stage to stable mass production.

## Equipment Status

- ❖ EDMs
  - ❖ Conventional EDM
  - ❖ Die Posting Machine
  - ❖ EDM Drill
  - ❖ Mig, Tig& Laser Weld Machine
  - ❖ CNC Milling Machine
  - ❖ Conventional Milling Machine
  - ❖ NC Wire EDM
  - ❖ Lathe
- ❖ Grande Machine
  - ❖ Height Gauge
  - ❖ Eng. Change / Repairing
  - ❖ Go-No Go gages, Poka-yokes
  - ❖ New Tool capability via Korean partnerships.



Wire machine



Regular lathe



Regular milling machine



Manual EDM



We are in possession of world-class technology and unmanned automation system that can implement diverse coating patterns.

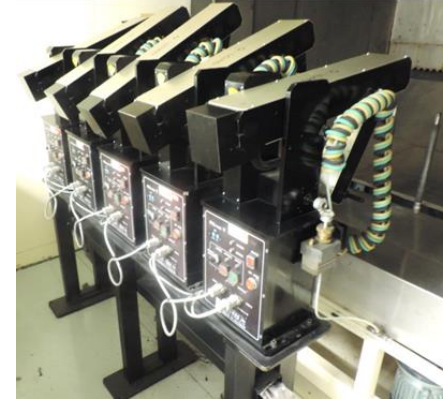
We can implement both spindle method and X-Y method of coating to go with our auto process system that can minimize defects in coating process.

- ❖ Flat Surface Painting (X-Y Paint Lines)
- ❖ Irregular Surface Painting (Spindle Paint Lines)
- ❖ Piano Black
- ❖ Top UV coating

Equipment Status and Technology

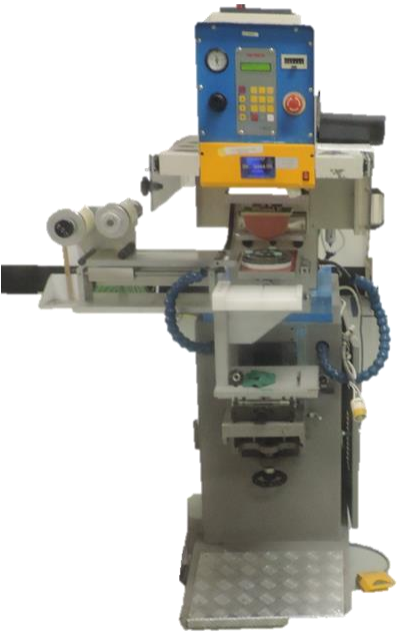


XY methode



# Heat Transfer / Pad Print / Laser / Ultrasonic Welding

We are in possession of world-class technology and unmanned automation system that can implement diverse coating patterns.



Pad printing



Heat transfer



Laser etching

## Equipment Status

- ❖ 3D Visual Measuring Machine (.0001" Tolerance) 2 set
- ❖ CMM from "Brown & Sharpe"
- ❖ CMM\_Scan from "Wenzel"
- ❖ Push and Pull Tester
- ❖ Spectrophotometer
- ❖ Rubbing Tester
- ❖ Salt Spray Tester
- ❖ Thermal Shock chamber
- ❖ KEYENCE IM-8000
- ❖ Tumbler Tester
- ❖ Vibrator Tester
- ❖ Light Booth
- ❖ MFI Tester
- ❖ Moisture Analyzer
- ❖ Temperature and Humidity chambers



(Thermal Hygrostat)



SALT SPRAY TESTER



SPECTROPHOTO  
METER

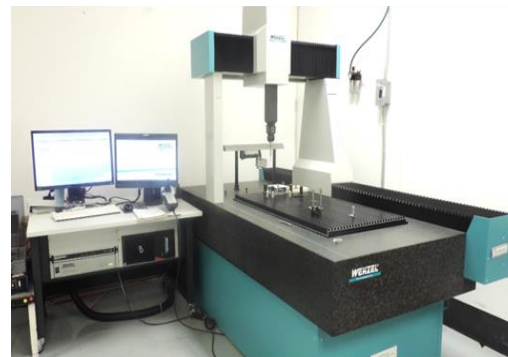


MELTFLOW TESTER



GLOSS METER

## Measuring Equipment



CMM-Wenzel LH65



KEYENCE IM-8000



(Thermal Shock  
Test Chamber)



CMM-BROWN  
SHARPE

# Quality Control

By maximizing customer satisfaction, stabilizing development quality, and 100% achievement of standard perfection ratio through process control, we are concentrating all our efforts on realizing customer satisfaction through world-class quality and services.

## Quality Assurance Process (IPO System)

Quality assurance process consists of 3 stages of IPO, and competitiveness is reinforced by repetitive implementation of IPO. \* IPO: IN-PUT QUALITY, PROCESS QUALITY, OUT-PUT QUALITY



## State of Quality Assurance

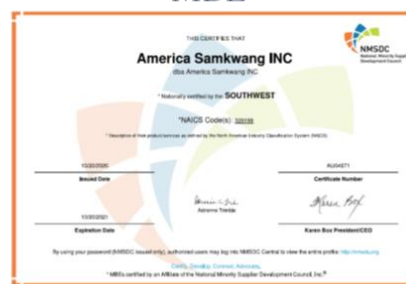
Emphasis is placed on enhancing quality competitiveness through quality compliance by stage and thorough verification from the design stage to manufacture and quality innovation. An integrated management and analysis system is being constructed that covers systematic process control, continuous process monitoring, statistical techniques, and company-wide proposals.

ISO9001:2015

IATF16949

MBE

UL



## Current

## Potential

### Consumer



### IT /Aerospace



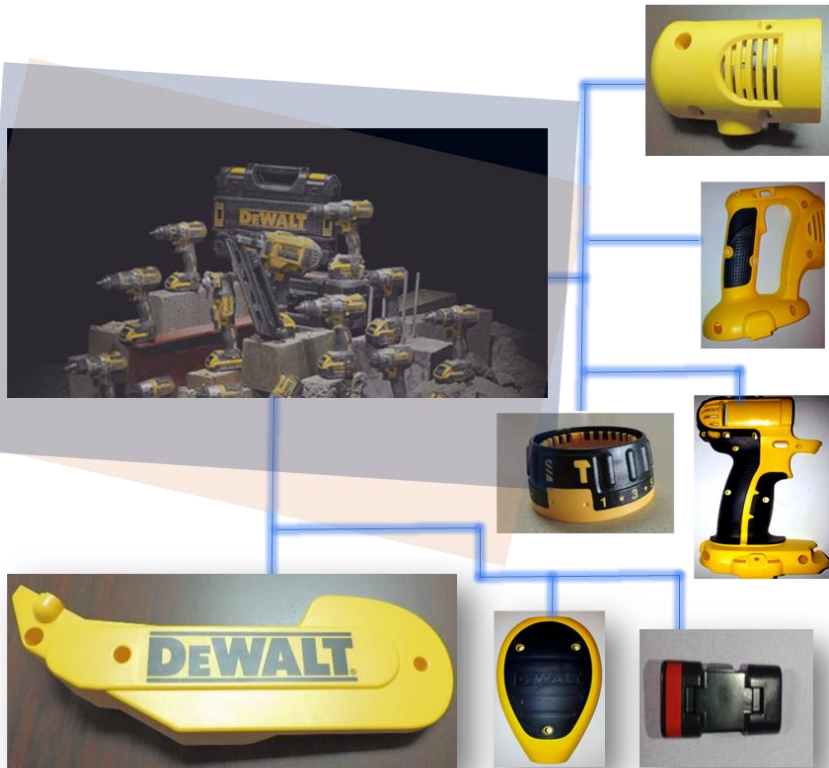
### Power Tools



### Automotive



## Current Products

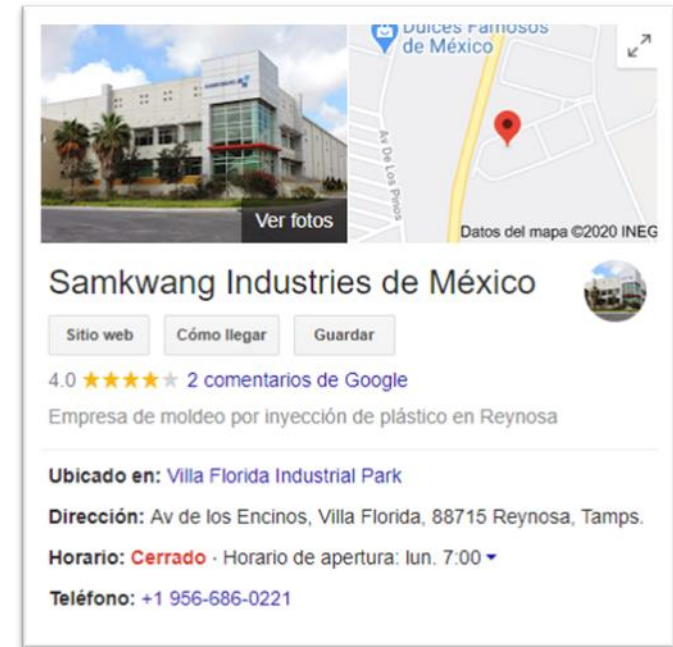


## Automotive



# Advantages of Samkwang in Reynosa

- ❖ Low cost manufacturing site
- ❖ USMCA Benefit
- ❖ Mix high and low projects
- ❖ Consignment agreements
- ❖ Maquiladora (IMMEX) certified
- ❖ Collaboration with local Colleges, Universities (for 3D Print and soft tools)



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## Resin

- ❖ Sabic
- ❖ BASF
- ❖ Avient
- ❖ A. Schulman
- ❖ Advanced Polymer Solutions
- ❖ Nexeo
- ❖ Boiln Plastics
- ❖ Atlas Polymer Inc
- ❖ Lotte Chemical
- ❖ INABATA
- ❖ KINGFA SCI & TECH (USA) INC

## Rubber, Die casting, Blow Molding, other

- ❖ Korea Keeper
- ❖ Castop



Plastic Technology In Digital World

Ver. 8.0