

MOLDING

INTEGRATED

SOLUTIONS

EQUIPMENT

TOOLING



Limitless Solutions, Single Source

WHO WE ARE

- Corporate Headquarters in Germantown, WI
- Operations began in 1982
- Revenue over \$300MM
 - Molding 70% – Tooling 20% – Equipment 10%
- Markets Served
 - Healthcare 50% Automotive 20%
 - Electronics 15% Consumer 15%
- Global Footprint

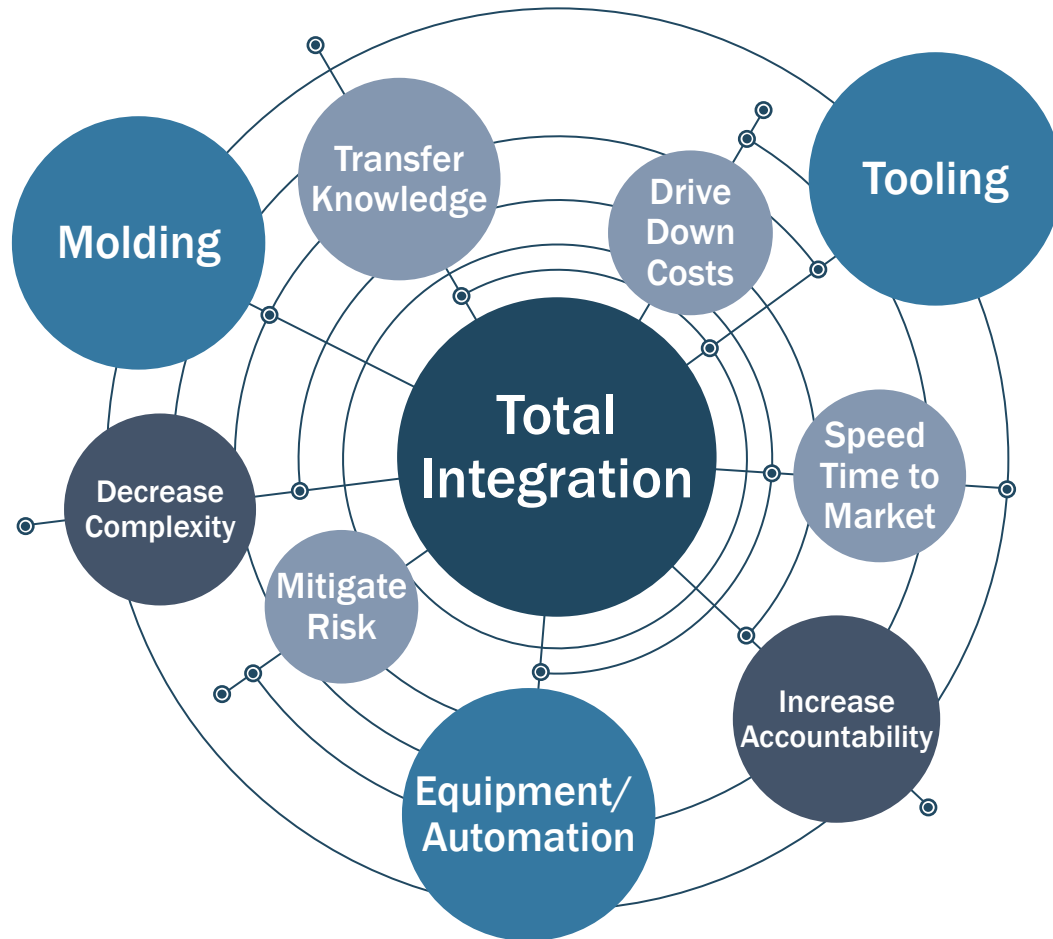


Maintaining the vision and values that MGS was founded upon, the company's leadership team personifies our core values of teamwork, integrity, passion, and safety. Meanwhile, their 360-degree perspective across tooling, molding, and equipment technology continue to drive the company's growth and success. Focusing on "One MGS," they help provide the singular answer to customers' wide range of complex manufacturing challenges.



| Three Businesses – One Complete Solution

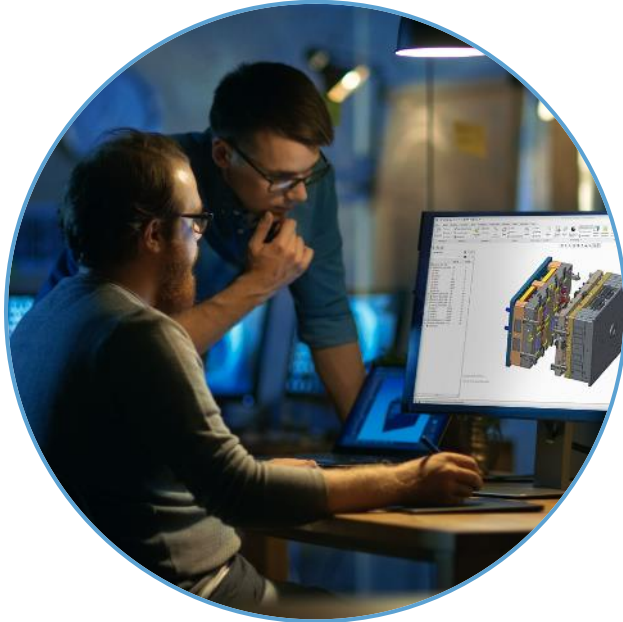
Being world-class in tooling, molding, or equipment / automation technology is challenging enough. At MGS, we pride ourselves in combining excellence in integration across all three.



| One Source to 'De-Risk' Your Supply Chain

With our internal expertise and extensive investment in machinery, we provide a single point of accountability to deliver your entire project on-time, within budget, using state-of-the-art innovation at each phase.

MGS INTEGRATED SOLUTIONS



Design/Development

Tooling

Molding
(multishot expertise)

Equipment /
Automation

One Source, One Process, One Contact

As a top healthcare manufacturer, we are ISO 13485 certified and are FDA registered when required. All of our facilities also practice Good Manufacturing Practices (GMPs), and our robust capabilities can be operated on our over 300 injection molding machines (28 – 1400 ton).



Germantown

180,000 Sq. Ft.
ISO 13485
IATF 16949
ISO 9001
FDA Registered



Ireland

80,000 Sq. Ft.
ISO 13485



Chihuahua

130,000 Sq. Ft.
IATF 16949
ISO 14001
C-TPAT



Juarez

125,000 Sq. Ft.
ISO 13485
IATF 16949
ISO 9001
C-TPAT



**Corporate
Headquarters**

Tooling Technology Center
Engineering & Design
Administration



**Equipment
Group**

Multishot Technologies
Portable Injection Units
Rotary Platens
Rotary Stack Frames
Specialty Molding Equipment
Automation Systems –
Engineering, Design, Build,
Validation

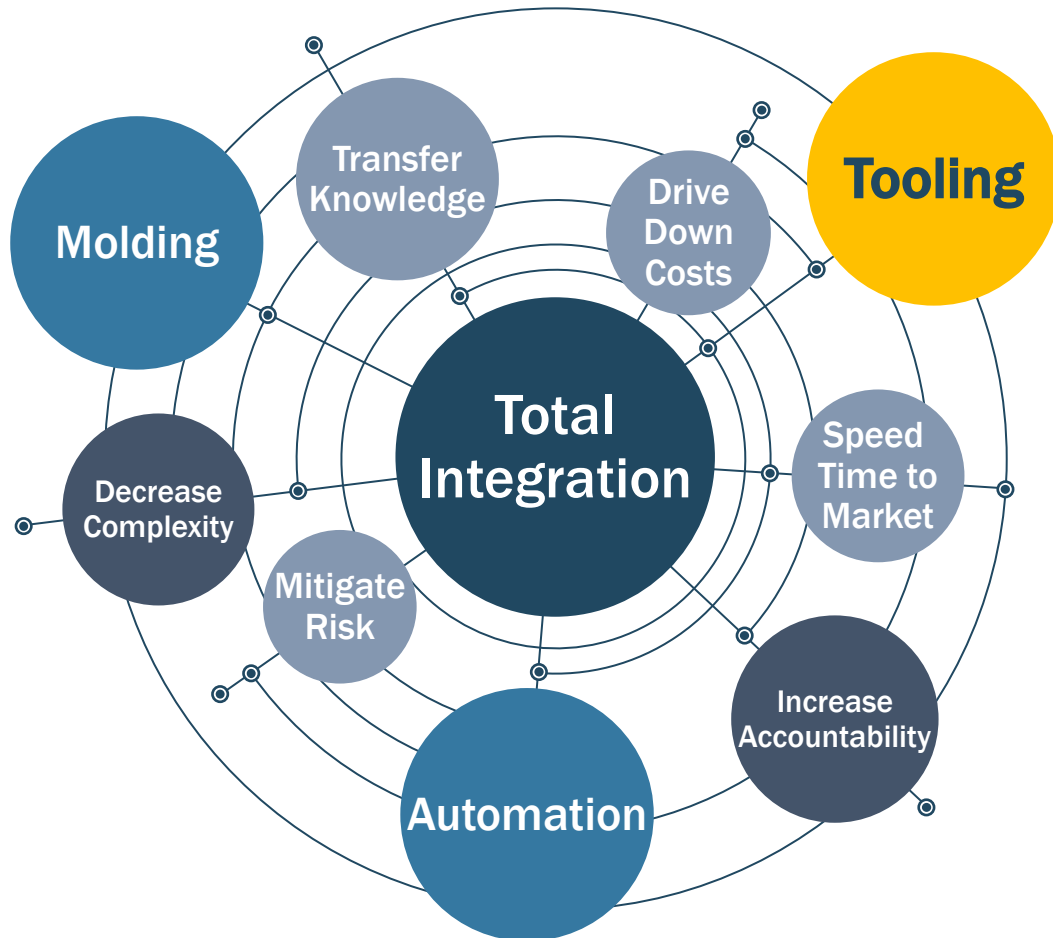


**Sampling
Facility**

Engineering & Design
Tooling
Sampling
Turnkey Manufacturing
System Development

| Tooling – Extensive and Capable

Our state-of-the-art tooling technology center is one of the 10 largest custom tool shops in North America. Our investments in capital infrastructure and engaging the highest caliber toolmakers set us apart.



Global Tooling Group

200+ Tooling employees (30% Engineering)
300+ Molds annually
166,000 ft² Dedicated space



USA, Germantown (Wisconsin)
• 80,000 ft² Mfg. space

Germany, Dortmund
• 2,200 ft² Mfg. space

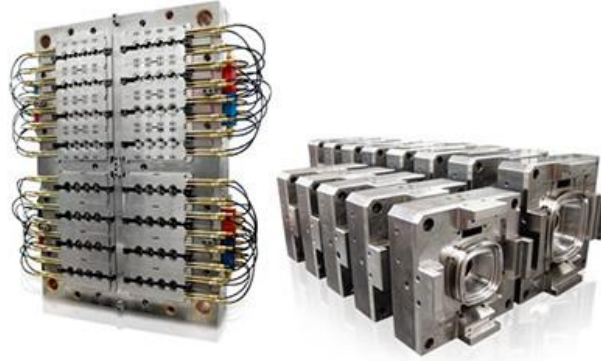


Sweden, Anderstorp
• 52,000 ft² Mfg. space

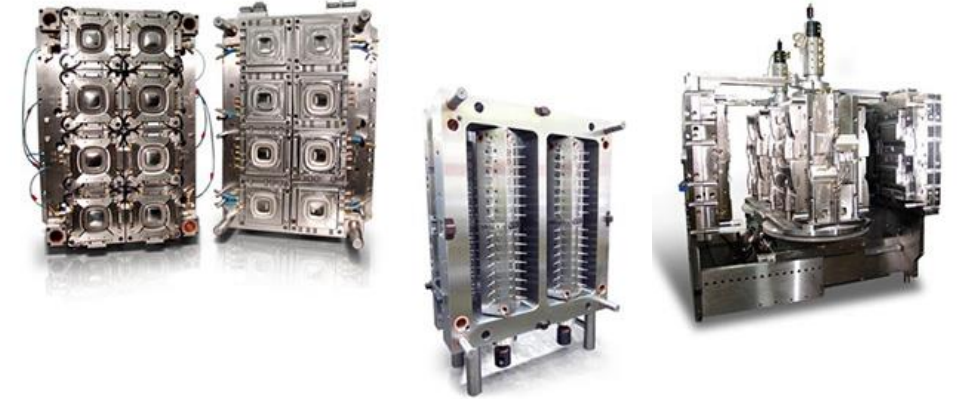
Denmark, Roskilde
• 32,000 ft² Mfg. Space



PROTOTYPE



PRODUCTION MOLDS



MULTISHOT (multiple material)



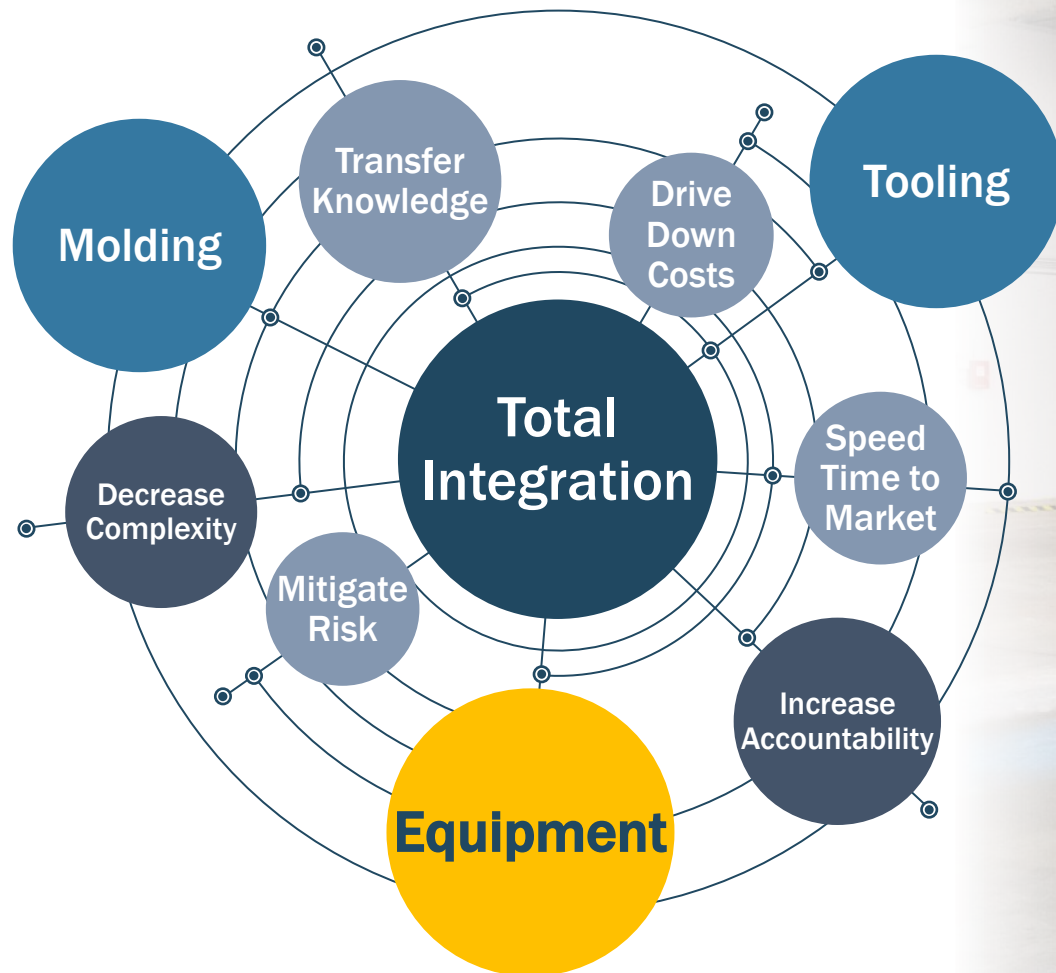
Multicavity
Auto-Unscrewing
In-Mold Closing
Thin Wall
Insert
Hot Runner
Collapsible Core

Robotic Transfer
Core Back
Rotary Platen
Indexing Plate
Rotary Cube
Rotary Stack
Rotary Spindle

Able to handle your toughest applications, we can hold repeatability of tolerances daily at $\pm .0005$, and when the project and budget can support it, our shop can hold $\pm .0001$.

| EQUIPMENT / AUTOMATION – Specialized Customer Solutions

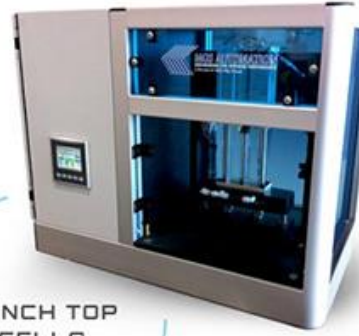
Our 40,000 Square Foot dedicated Equipment/Automation Technology Center and team delivers assembly automation, testing, and automated packaging systems so that you have the choice of buying equipment should you prefer to manufacture on your own.



| Automation Capabilities



END OF
ARM TOOLING
(EOAT)



BENCH TOP
CELLS



CONTINUOUS
MOTION

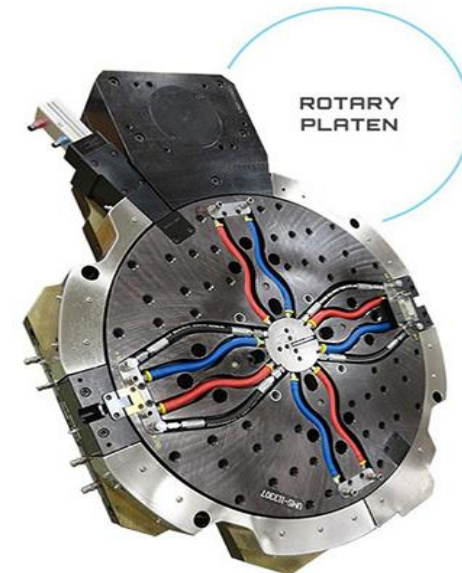


PRESS SIDE



INDEXING
ROTARY &
LINEAR

| Equipment / Multishot Capabilities



MGS JUAREZ OVERVIEW

- Strategically located at the border with Texas and New Mexico
- Key geographical position to access North American markets
- Employees: 343 (Juarez)



MGS Juarez

Across from El Paso TX



Markets Served

Consumer
& Telcom

Automotive

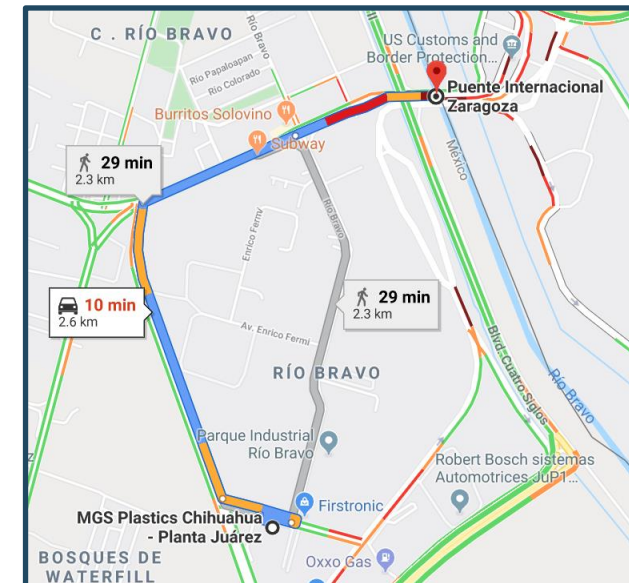
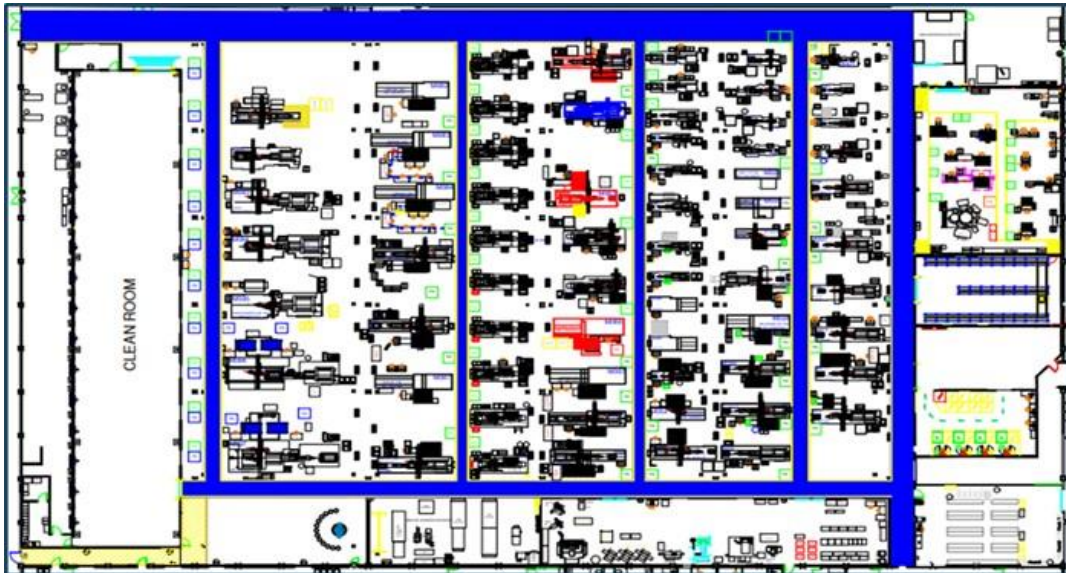
Industrial

Medical



MGS JUAREZ

- 67 Injection Molding Machines, 50 – 1400T
- 125,000 sq. ft. of manufacturing space
- ISO Class 8 Cleanroom
- Single shot & multi-shot molding
- Value-added operations
- IATF 16949 Certified
- ISO 9001 Certified
- ISO13485 Certified
- C-TPAT Certified
- UL Certified
- GMP Compliant



MOLDING CAPACITY

	Machines	Available Hours	Make
Small < 200 Ton	32	23,040	Roboshot Krauss Maffei Milacron
Medium 200 Ton – 450 Ton	23	16,560	Krauss Maffei JSW Milacron 2-shot
Large 450 Ton - 1400	12	8,640	Krauss Maffei JSW 2-shot
Total	67	48,240	



MGS JUAREZ CAPABILITIES

PROGRAM MANAGEMENT & ENGINEERING

VALIDATION

(Scientific Injection Molding)

**VALUE-ADDED
SECONDARY
OPERATIONS &
ASSEMBLY**

HIGH-SPEED AUTOMATION

TOOLING DEVELOPMENT & SAMPLING

QUALITY LAB

24/7 ONSITE TOOL SHOP

*(tool & insert maintenance,
refurbishment & repair)*



MGS Juarez offers a robust one-stop solution for all of your needs. From program management & engineering to our 24/7 onsite tool shop, our integrated teams are here to ensure your programs run smoothly and efficiently from start to finish.



REGULATED ENVIRONMENT

(ISO Class 8 Cleanroom)



| Molding – Juárez ISO Class 8 Cleanroom

Capacity for 13-14 molding machines



Advanced Testing And Certification

www.atcces.com
PO Box 12545 Scottsdale, AZ 85267
(o) 480-359-7444 (f) 480-383-6569



Cleanroom Certification

Report

MGS

Cleanroom

Manuel Sandoval Vallarta No. 420, Parque Río Bravo
Juárez, Chihuahua CP 32557
Mexico

12/21/2022

ATC-00001310 /WO-00009025

ISO 9001:2015
CERTIFIED COMPANY



© 2023 Advanced Testing and Certification. All rights reserved.

| Molding – Juarez Tool Room

Our robust mold maintenance process ensures your tools are performing optimally at all times. Our onsite toolmakers use a maintenance schedule with the timing & checklist based on your mold maker's recommendations.

Our state-of-the-art equipment includes:

- CNC Machining Center
- CNC Lathe
- TIG & Laser Welder
- EDM
- Grinders, Mills
- Wire EDM
- Ultrasonic Cleaner
- Dry Ice Blaster



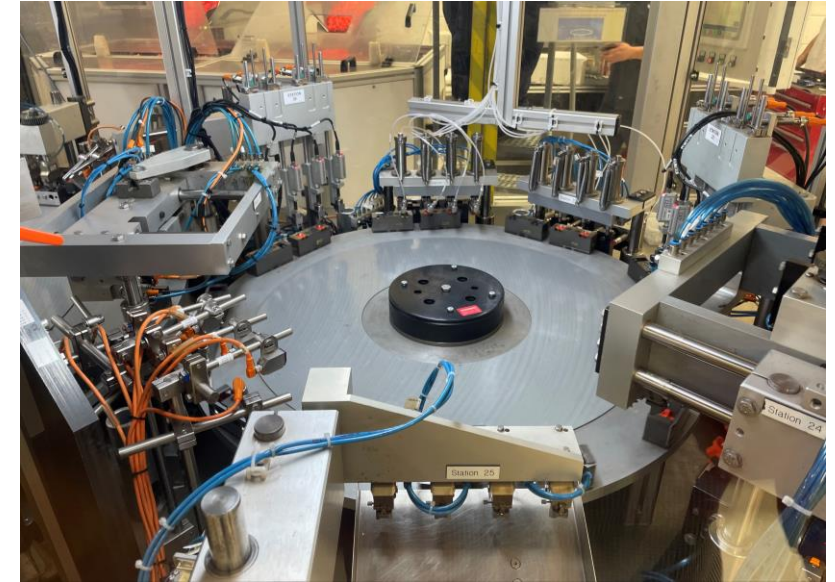
| Molding – Juárez Quality Lab

- 5S Metrology Lab
- PDCA Processes
- SPC, Statistics, Calibration & Document Control software and procedures
- 2 CMM
- 1 OGP Vision System
- 1 Keyence Optical Comparator
- Force Tests / Oven / Calipers
- Spectrophotometer
- Zeiss CT scanner/X-ray machine available at GMT and soon to be in Ireland



VALUE-ADDED SECONDARY OPERATIONS

- Dedicated area for assembly & final packaging
- Fully integrated assembly areas & testing capabilities
- Direct shipping to retailers/distribution centers
- Flexible production lines to meet customer process requirements
- Heat Transfer/Hot Stamping
- Ultrasonic Welding
- Manual & Automated Assembly Operations
- RJG Cavity Pressure Transducer for Process Monitoring
- Packaging
- Pad Printing
- Screen Printing



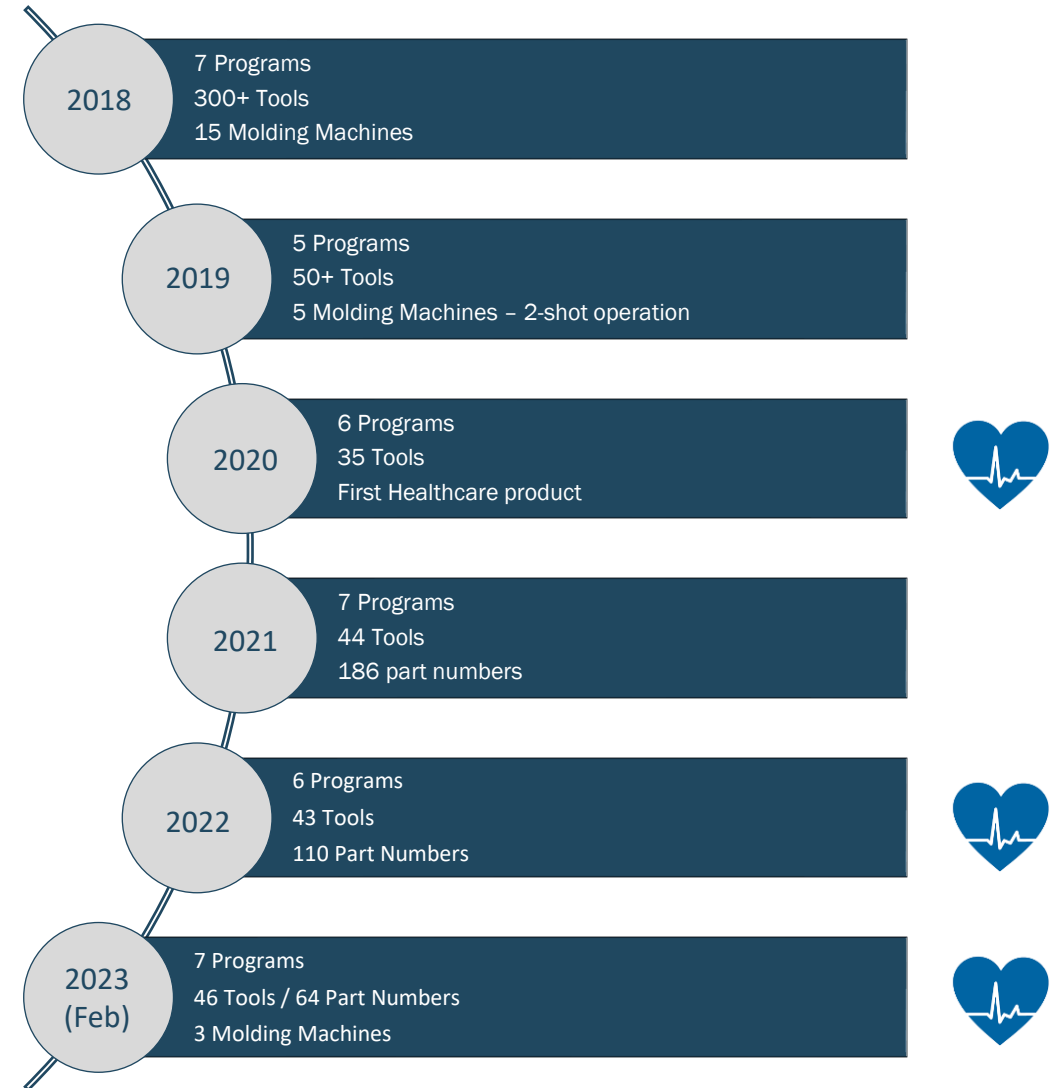
Ink cartridge component assembly
up to 20 part numbers

TRANSFER PROGRAMS

MGS Juarez has excellent depth and breadth of knowledge when it comes to transfer experience. We're willing to invest to do whatever it takes to work with OEMs to help consolidate and streamline operations.

Our dedicated team of project engineers and program managers are focused on the complex needs of each program.

MGS has transferred over 518 tools for 38 programs since 2018





04

LONG TERM
REVIEWS

ANNUAL STRATEGIC PLANNING,
MANAGEMENT REVIEWS, TIER 4



03

MID TERM
REVIEWS

TIER 3 MEETINGS, NPI STATUS,
FINANCIALS, POLICY, A3S, 5WHY



02

DAILY
REVIEWS

TIER 2 MEETINGS, QUALITY FR,
OPERATION MEETINGS



01

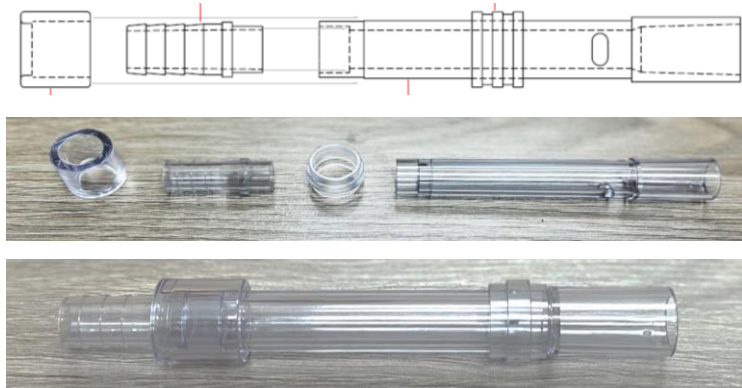
SHIFT
REVIEWS

TIER 1 MEETINGS,
PRODUCTION HUDDLES

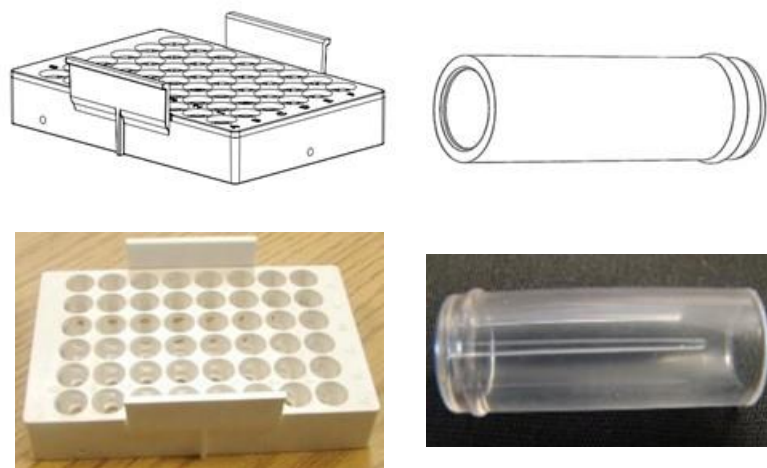


| Healthcare Parts

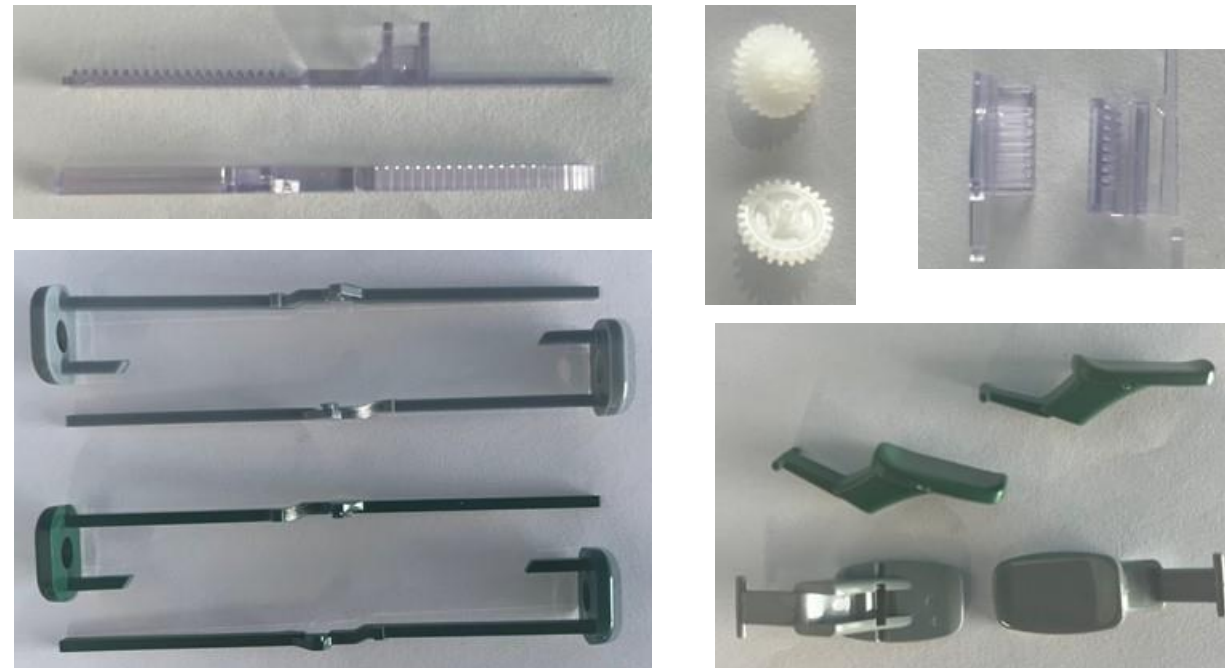
Intended Use: D&C procedure.



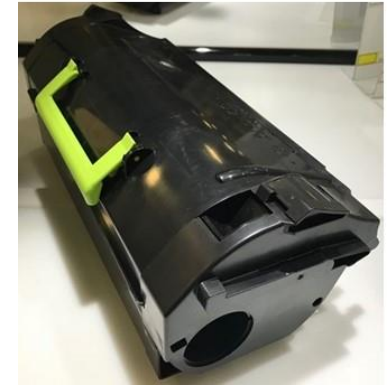
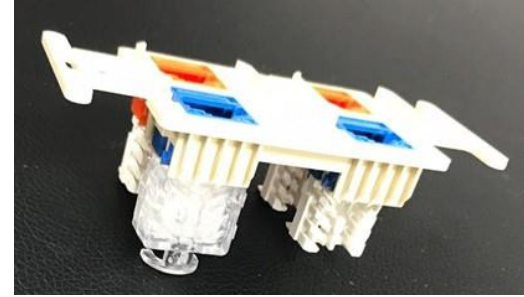
Intended Use: Diagnostics



Intended Use: Vascular closure.



| SOME OF OUR PRODUCTS



SECONDARY OPERATIONS

Ultrasonic Welding



Hot foil



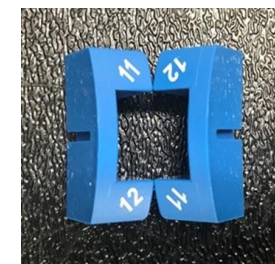
Laser engraving



Component assembly and Hi-Pot testing



Heat Transfer / Hot Stamping / Pad Printing



KITTING / AUTOMATED ASSEMBLY OPERATIONS

Manual assembly, kitting and package sealing



Fuel valve automated assembly and test



Product Kitting



| Our T.I.P.S. for Success



Moises Fajardo
Strategic Account Manager
O: +52-656-892-5142
M: +52-656-626-2519
E: moises.fajardo@mgsmf.com