PARXWAY



Parkway Overview

Company Overview



Leading North American supplier of molded product technologies Founded 1946 in Cincinnati, OH

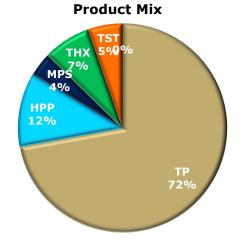
(9) North American Plants, Headquartered in Greenville, SC

2022 Projected Revenue: \$129M

Diversified Product Technologies

High Performance Polymer Molding
Machined Plastic Solutions
Magnesium Thixomolding
Thermoset Molding
Thermoplastic Injection Molding

Tooling, Assembly, Product Design, Supply Chain Management



Targeted End Market Focus Aerospace & Agriculture, Heavy Truck, & Electronics Off-Road
Healthcare Industrial

Automotive Infrastructure

Focused-Factory
Operating
Footprint

Asheville, NC Saltillo, COA, MX Atlanta, GA
Ft. Collins, CO Seneca, SC Loveland, CO
Greeneville, TN Westminster, SC Rockford, IL

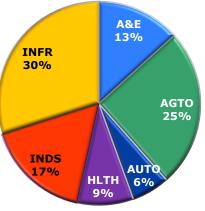
(825+) Non-Union Employee Associates

A Stable, Trusted Supplier Over 200 Active Customers with (31) \$1M+ Relationships in 2019

Consistent Long-Term Supply Relationships with Fortune 500 OEM clients

Adequate cash flow and financing for capital upgrades, growth and acquisitions





Company History



Chapter 1 1946-1985

Founding Family 40 Years







- Founded April 1946 by Edward Willig
- Joined by his sons Donald & Edgar and later their sons Gary & John, David, Ed, and Joe respectively
- · Single Plant in Cincinnati, OH
- 1985 Revenue: \$7M, 40-yr AAGR \$175K/yr

Chapter 2 1986-2005

Footprint and Product Line Expansion







- Executive Leadership and Ownership transitioned to Non-Family Managers
- · Aerospace market presence acquired
- Commercial Product Technology portfolio assembled organically and through acquisition
- · Nine operations in 6 US states and Mexico
- 2005 Revenue: \$52M, 20-yr AAGR \$2.2M/yr

Chapter 3 2006-2014

MBO, Divisions Formalized, Aerospace Divestiture



- · Operated as two independent Divisions
- · Recapitalized with Oxford Financial Group
- Each Division surpassed \$70M in 2013 revenue
- Aerospace & Defense divested July 2013
- 2013 Revenue: \$148M, 7-yr AAGR \$13.7M/yr

End Markets

Chapter 4 2015 - Today



Operations





Infrastructure



Healthcare



Aerospace & Electronics



Automotive



Industrial

Product Technologies & Services



HIGH PERFORMANCE POLYMERS (HPP)



Wear, Chemical Resistance, Strength and High Heat Specialty Applications

Custom Injection Molding, Stock Shapes & Machined Prototypes

Torlon® PAI, PEEK, Ultem® PEI, PPS, PSU

THERMOPLASTIC MOLDING (TP)



192 Injection Molding Machines in NAFTA region, 17-1760T size

Insert Molding, Multi-shot, Overmolding and Structural Foam

All TP's & Compounds, 4 Operating Sites

MACHINED PLASTIC SOLUTIONS (MPS)



Precision High Performance Polymer Machining

Metal-to-Polymer Conversion, Low Friction, High Heat, Wear and Strength Applications

Torlon® PAI, PEEK, Ultem® PEI, Ryton®, ABS, Lexan

THERMOSET MOLDING (TST)



Compression, Transfer and Injection Molding 40 Machines, 50-500T size

Electrical, Structural, High Hardness and Flame Resistant Applications

Largest Custom Thermoset Molder in Mexico

MAGNESIUM THIXOMOLDING (THX)



Semi-solid Magnesium Injection Molding

Thin Wall, Light Weight, Fine Detail, EMI Shielded, Thermally Conductive, & Durable

Precision & economics of injection molding with properties of lightest structural metal

ASSEMBLY, FINISHING & FULFILLMENT



Low Labor Cost Country Assembly

Automated & Semi Automated, Pad Printing, Sonic & Vibration Welding

Extensive Program Transfer & LCC Repositioning Experience

TOOLING (IN-HOUSE & CONTRACTED)



Turnkey Design & Build, experience in 1 - 128 cavity construction

On-site Repair & Maintenance

Material & Process Technology Specialists at Focused-Factory Sites







Infrastructure



Automotive



Industrial



Healthcare



Aerospace & Electronics

ATV,
Construction,
Farm
Equipment,
Heavy Truck,
Lawn Care,
Personal
Watercraft,
Portable Power,
Snowmobile

HPP MPS THX TP Building
Networking
& Systems,
Electrical
Metering,
Electrical
Switching,
Gas
Metering,
Smart Grid,
Telecom,
Water
Purification

TP MPS TST Electronics,
Vision Systems,
Fluid Handling,
Fuel Systems,
Interior
Controls,
Powertrain,
Suspension

THX HPP TP Air-filtration,
Appliance,
Compressor,
Food
Processing &
Service,
Friction &
Wear, HVAC,
Textile,
Welding

HPP MPS THX TST TP Biotech/Lab
Equipment,
Diagnostic
Devices, Drug
Delivery,
Eyewear,
Imagery,
Robotics,
Surgical

HPP MPS THX TST TP Airframe,
Engines
Combat Gear,
Connectors,
Fuel Tanks,
Interiors,
Propulsion,
Missile,
Precision
Optical Gear,
Semiconductor
Equipment,
Weaponry

HPP MPS THX

Production Operations Platform





Production Operations Platform











Plant	ATL	LOV	ROC	SAL	SAL	GRN	SEN	FTC	ASH	WES
Tech	НРР	тнх	HPP/MPS	тѕт	TP	ТР	TP	TP	TP	TP
Sq. Ft. (K)	50	32	30	65	45	175	90	24	35	60
# of Machines	14 + 10 CNC Centers	8 + 10 CNC Centers	11 + 33 CNC Centers	43	23	37	46	13	25	21
Range	17-300T	220-450T	40-360T	75-500T	60-500T	55-1760T	50-720T	35-400T	60-500T	90-1650T
<100T	5	0	6	8	2	2	3	2	5	1
100-250T	4	3	4	26	12	16	26	9	10	2
250-500T	5	5	1	9	7	10	13	2	10	7
>500T	0	0	N/A	0	2	9	4	0	0	11
ISO9001: 2015	×	x	x	x	x	x	×	x	x	x
UL	x			x	x		x	x		
IATF16949: 2015	x									
ISO14001	x									
Other Certifications	Q1, AS9100		AS9100					FDA, ISO13485		











High Performance Polymer Molding



Benefits of HPP

- High heat resistance
- Excellent wear and friction resistance characteristics
- High stiffness & strength
- Strong chemical resistance
- Ideal for metal to plastic conversion







- 100+ years of HPP molding & tooling experience on staff
- Material selection & design support
- High production molding applications
- Stock & near net shapes
- Unmatched capacity of specialized material drying, mold heating, molding & post-curing equipment



NAFTA Market Leader in the injection molding of:

- Torlon® PAI
- PEEK
- Ultem® PEI
- PPA
- PPS
- Polysulfone

Machined Plastic Solutions





Benefits of MPS

- Wide range of high performance & engineering grade materials
- Complex part geometry and nonmoldable part features
- Close tolerance requirements
- Low volume production and assemblies
- Cradle to grave program production





- Onsite Markforged X7 3D printer for design concept validation and custom fixturing
- In process Keyence Measuring Systems for optical measurements
- Automated machining cells for high volume machined plastic production
- AS9100 certified for Aerospace components and assemblies



Latest Inspection Techniques:

- Real-time SPC data collection
- Cpk Tracking
- CT Scanning

Magnesium Thixomolding Technologies









 Comparable process to plastic injection molding using semi-solid magnesium alloy

Thixo vs. Cast Metals

- Thinner walls (0.020"/0.5mm)
- 34% lighter than aluminum, 76% lighter than steel
- Cosmetic quality surface finish
- Lower porosity
- Tighter, more repeatable process
- Less energy consumed, no by-products

Thixo vs. Engineering Thermoplastics

- Thermally & electrically conductive
- · Higher stiffness & strength
- EMI/RFI shielded without secondary plating
- Stability at higher temperatures
- Metallic aesthetics & end-user perception



Thermoset Molding Technologies



Materials

- Polyester Compounds
- Epoxy Compounds
- Phenolic Compounds
- Melamine Compounds

Forms

- Bulk Molding Compound (BMC)
- Sheet Molding Compound (SMC)
- · Granular / Pelletized
- Heavily Filled BMC Grades
 Dough/Thick Molding Compound (TMC/DMC)

Processes

- Injection Molding (150-500T)
- Compression Molding (75-500T)
- Transfer Molding (75-250T)







- Injection/ compression/ transfer capabilities,
 40+ presses under one roof
- Integrated thermoplastic, thermoset & assembly operation
- Mexico low cost country advantage



Thermoplastic Molding Technologies







Processes

- Injection Molding
- Vertical Insert Molding
- Structural Foam Molding
- 2-Shot Molding

Capacity

- 100+ Molding Machines
- 17-1760 Ton Single Shot Injection Molding Machines
- 80-160 Ton 2-Shot Injection Molding Machines
- In-house engineering & tooling repair















What questions do you have for us?