ENGINEERING IS OUR EXPERTISE.

PASSIONATE • LOYAL • HONEST • INNOVATIVE • ADAPTABLE

# CORE VALUES

We exist to enhance the lives of all our stakeholders by proving legendary and innovative solutions.

We react quickly to solve the problems through engineering solutions that others can’t or won’t.

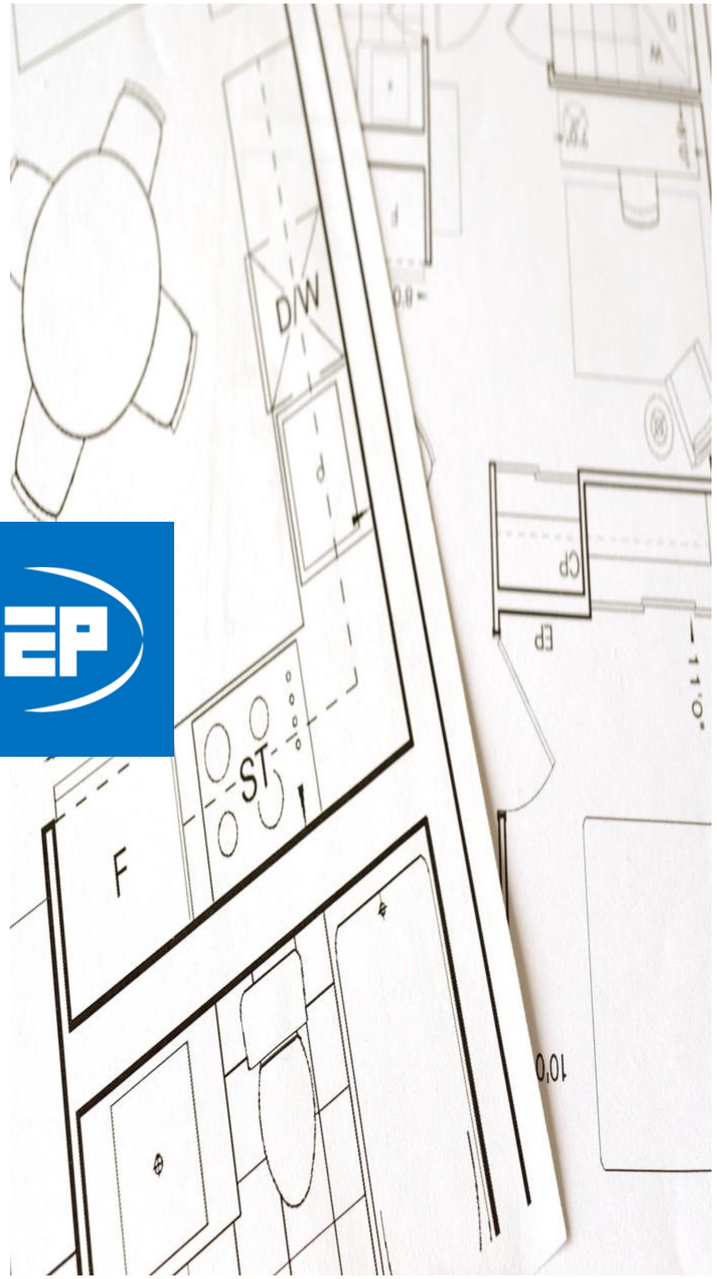
# ABOUT DEP

DEP Engineering is a minority, woman owned engineering and manufacturing operation in Jackson, MI. Founded in 1972.

DEP’s market diversity includes automotive, medical, and consumer markets.

Leader in innovative designs and development of technical thermoplastic products.

Passionate team of engineers that create start to finish solutions for our customers.




# ENGINEERING SERVICES

From concept and design, to prototype and launch, DEP Engineering can see your ideas through from start to finish.

## Prototyping

- On site 3D printer
- 3D modeling software including CAD, Solid Works and Cosmo FEA
- On site, fully staffed and equipped maintenance and tooling facilities

## Design

- Total product design, including packaging and marketing
- Patent product design and application

## Robotics

- Complete in house robotic design, programming and repair
- In house end of arm robot design, build and repair
- Full time manufacturing engineer on site

## Automation

- Complete concept and design of assembly cell

# COMPLETE SUB-SYSTEM DESIGN

“ Using innovative design solutions to reduce part complexity, improve durability and reduce customer assembly labor .”

- MUD Bases (Master Die Unit)
- Part Testing Capabilities
- Metal/Wood conversion to Plastic
- In mold film decorative molding, Bio-plastics
- Variotherm temperature control for injection molds
- Innovative tool designs

# IN-HOUSE QUALITY LAB & TOOL ROOM

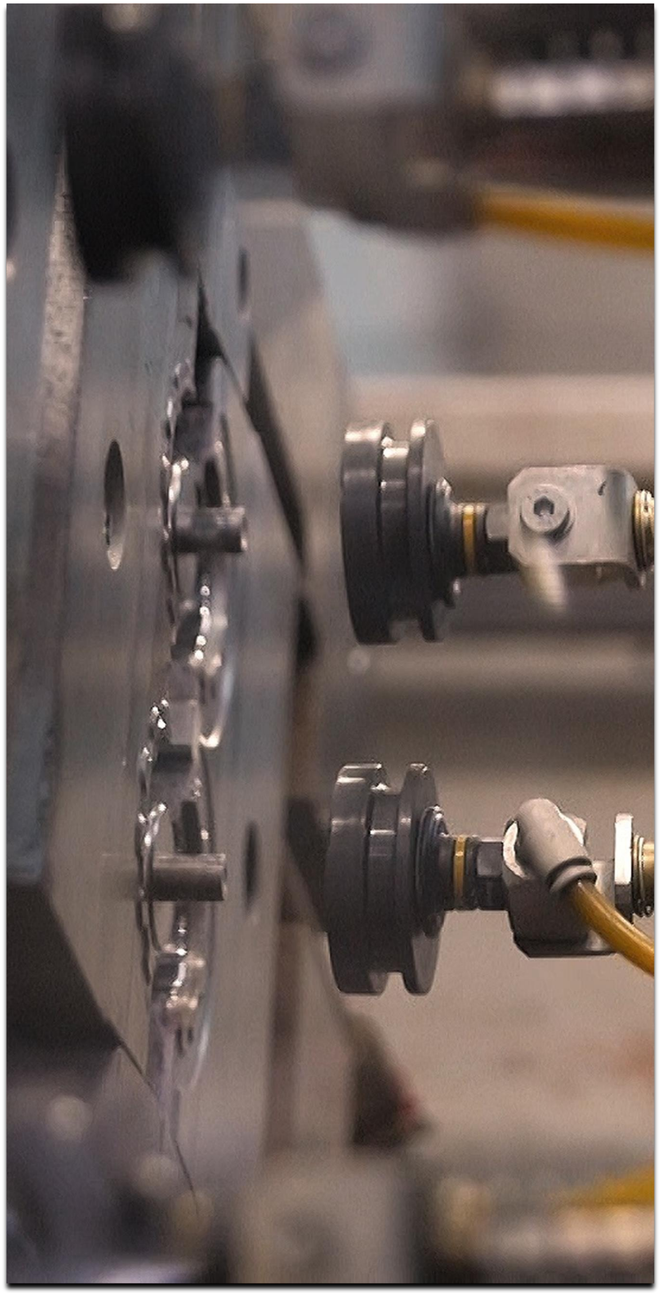
“Our commitment to quality is unmatched. We have an in-house maintenance, tooling and quality lab that is able to ensure our customers have their product on time.”

# QUALITY

Quality is everything. From the initial stages of engineering to the minute it leaves our doors, we stand behind what we do.

***Recently named Top 100 Quality Supplier-Ford Motor Co.***

Engineering is our expertise.



# MATERIAL KNOWLEDGE & EXPERTISE

Polyurethane

Acetyl (homo & Co-polymers)

Nylon (4/6, 6/6, 6/12, type 6,11,12)

Polypropylene

PVC

Filled and Unfilled Grades

Long and Short Glass Grades

Flame Retardant Grades

Impact Modified Grades

PEEK

ABS

Acrylic

Polyester Elastomers

Polycarbonate

Polycarbonate Alloys

Polyester

Polyphenylene Oxide

Polyphenylene Sulfide

Bio-Plastics Grades

PPA(HTN/Amodel)

# PROCESS & PRODUCT DIVERSITY

## Automotive

- Patented anti-rotation Valve Lifter Guide, Ford Scorpion
- Manifold system components
- Timing chain system components
- Patented parts featuring molded seals, Class A finishes & 2-Shot over molds
- Shock retention straps and components
- Insert molding technology developed in-house
- Electrical over molded wire harnesses

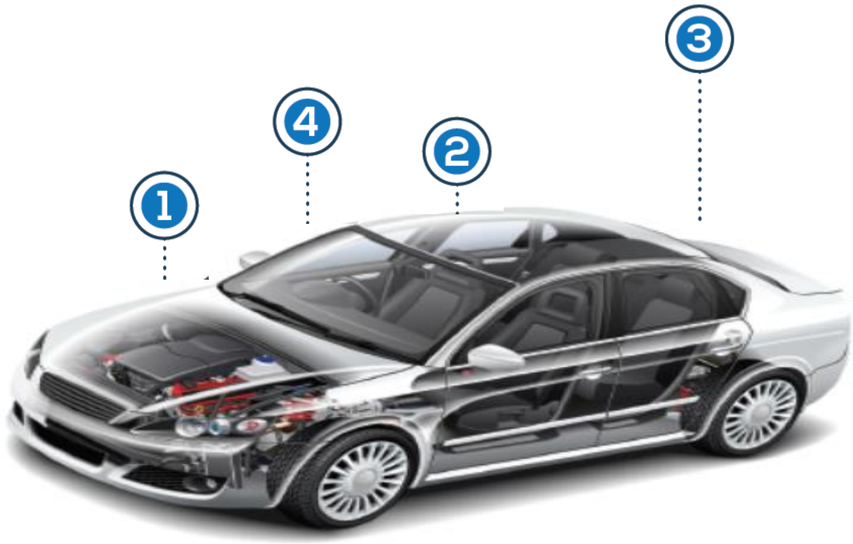
## Non-Automotive

- Mobile Sanitization Unit
- Multi-purpose Garden Tool
- FDA Approved Consumer Products

# OUR CAPABILITIES

## AUTOMOTIVE SOLUTIONS

1. **ENGINE -** Patented Valve Lifter Guide, Intake Manifold, Timing Chain Guide, Powertrain Components
2. **EXTERIOR-** Modual Window Frames, Mirrors, Mirror Brackets, Mirror Shells
3. **TRIM -** Class A Finish Products, Exterior Trim Inserts
4. **INTERIOR -** Shifter Handle & Bezels, Interior Internal Panel System




### CONCEPT
Solidworks CAD solutions, 3D modeling & printing

### PROTOTYPE
Product design for manufacturing, schedule & value

### PRODUCTION
On-site quality, maintenance& tool room

### DESIGN
Patent product design & application

### PPAP PROCESS
Consistent quality, from start to finish

### LOGISTICS
Supply chain management, warehousing & more

# POWERTRAIN CAPABILITIES

## WE CREATE SOLUTIONS

1. **SOLUTIONS -** Our team innovates and creates world-class solutions including multiple patented products.

2. **PROCEDURES -** We are committed to creating defect-free products as well as prompt, on-time delivery.

3. **SUPPORT -** We are here to innovate and support your product from start to finish.

### INTAKE SYSTEM
Tight tolerance over molding assembly process with strict surface finish requirements.

### PATENTED VALVE LIFTER GUIDE
DEP has been awarded numerous patents since the 1990's.

### TIMING CHAIN GUIDE
Class A surface plastic, designed to withstand the rigorous internal engine environment.

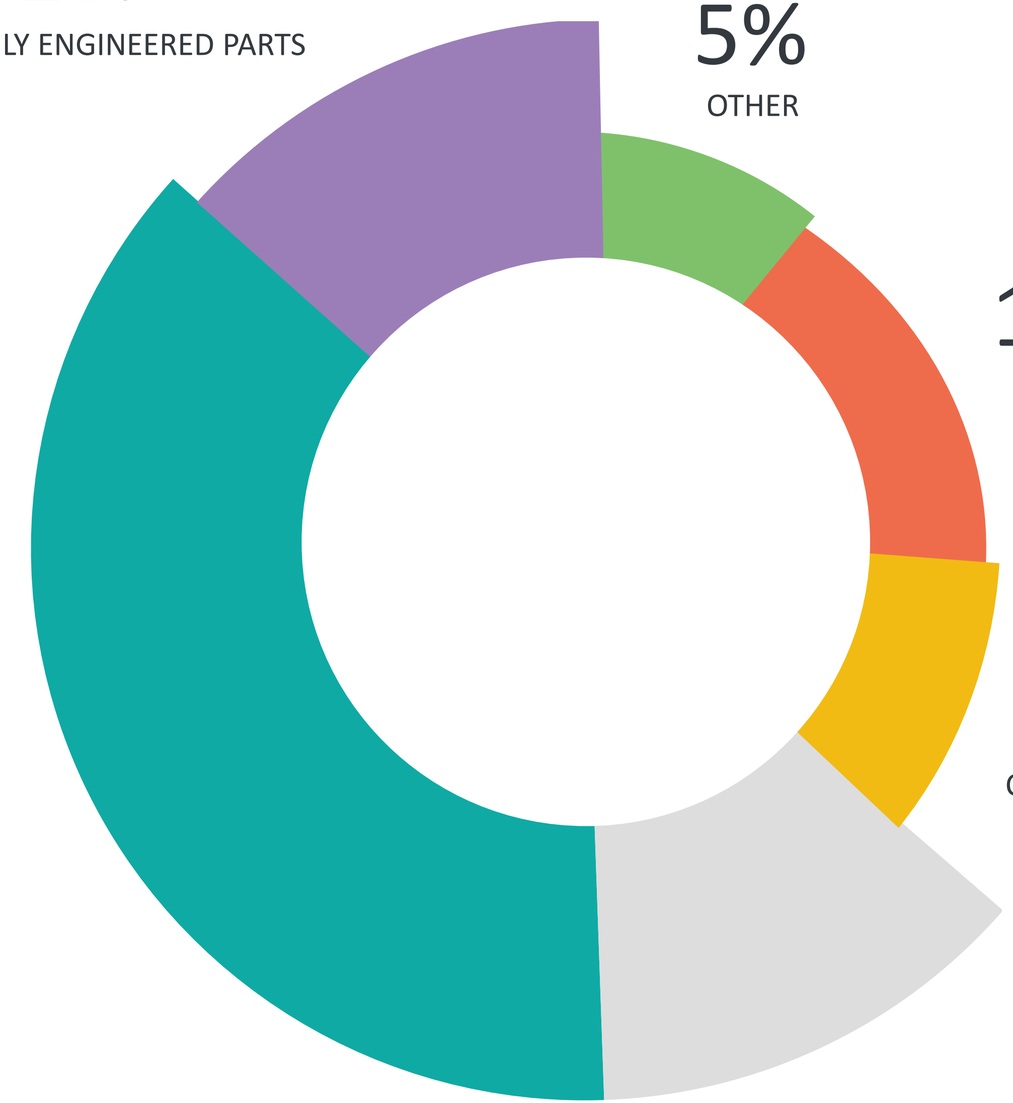
### CONCEPT
In the 1970's we had the vision to convert metal to plastic

### PATENTED
DEP has over 25 years of patented success

### DESIGN
We created a valve lifter guide engineered for multiple platforms.

### PRODUCTION
We are proud to have an 96% customer overall rating

# PRODUCT DIVERSITY



20%
HIGHLY ENGINEERED PARTS

5%
OTHER

13%
TIER 2

10%
CLASS A FINISH

21%
FUNCTIONAL PARTS

31%
PATENT PARTS
TIER 1

“We strive for quality product, on time delivery and supplier performance while increasing our overall effectiveness and continually improving our Quality System Management.”

# CUSTOMER DIVERSITY

We pride ourselves in delivering world-class engineering and production services to our customers across the world.

* No one customer holds above 20%

96% CUSTOMER SATISFACTION RATING

20+ YEARS FORD MOTOR CO. SUPPLIER

# USA DISTRIBUTION

## Michigan

Grand Haven

Grand Rapids

Detroit

## Wisconsin

Menomonee Falls

## Missouri

Kansas City

## Texas

El Paso

## Arizona

Nogales

Paragould

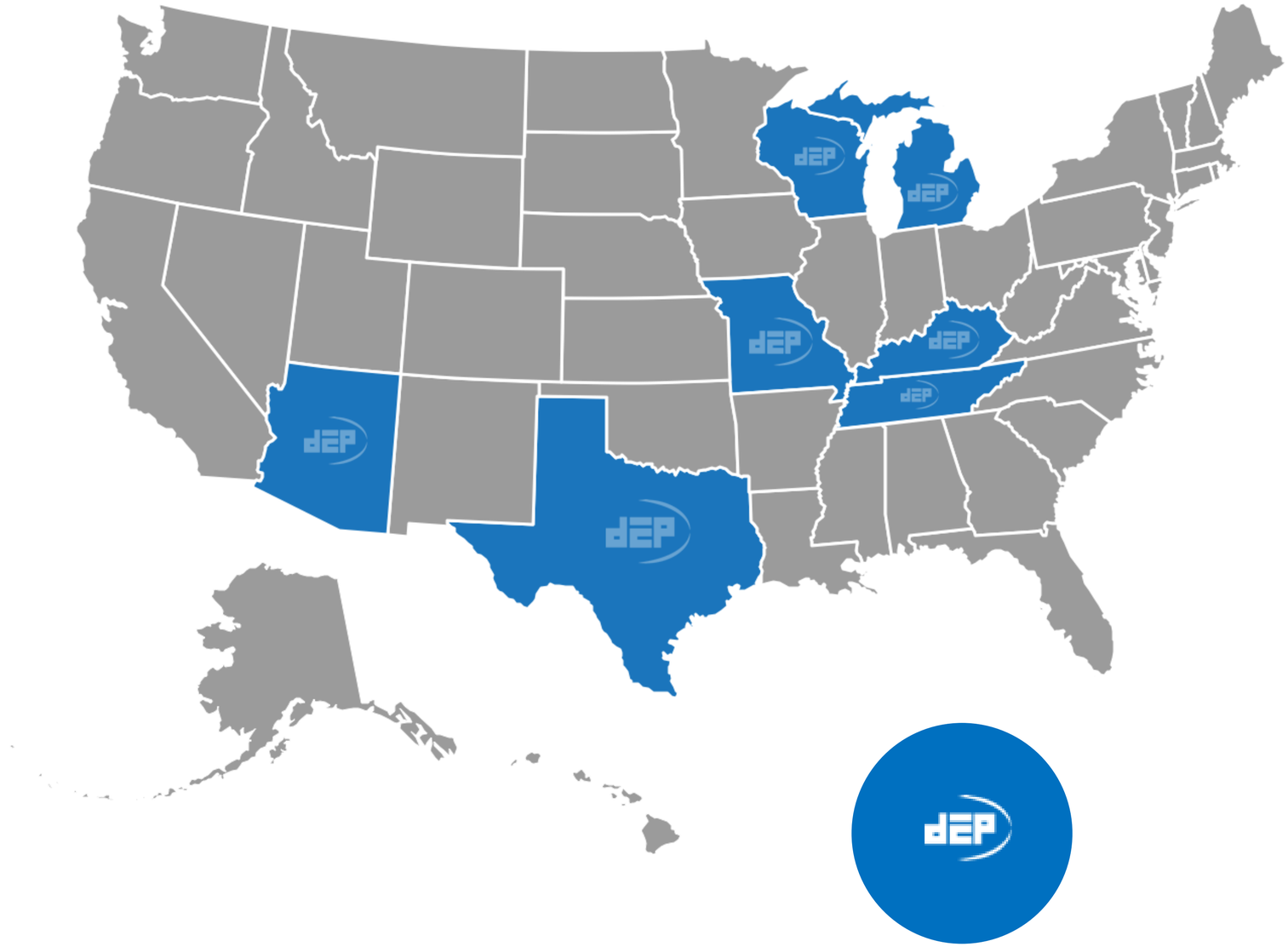
## Kentucky

Hebron

Morehead

## Tennessee

Portland



PROUDLY SHIPPING

# GLOBAL REACH

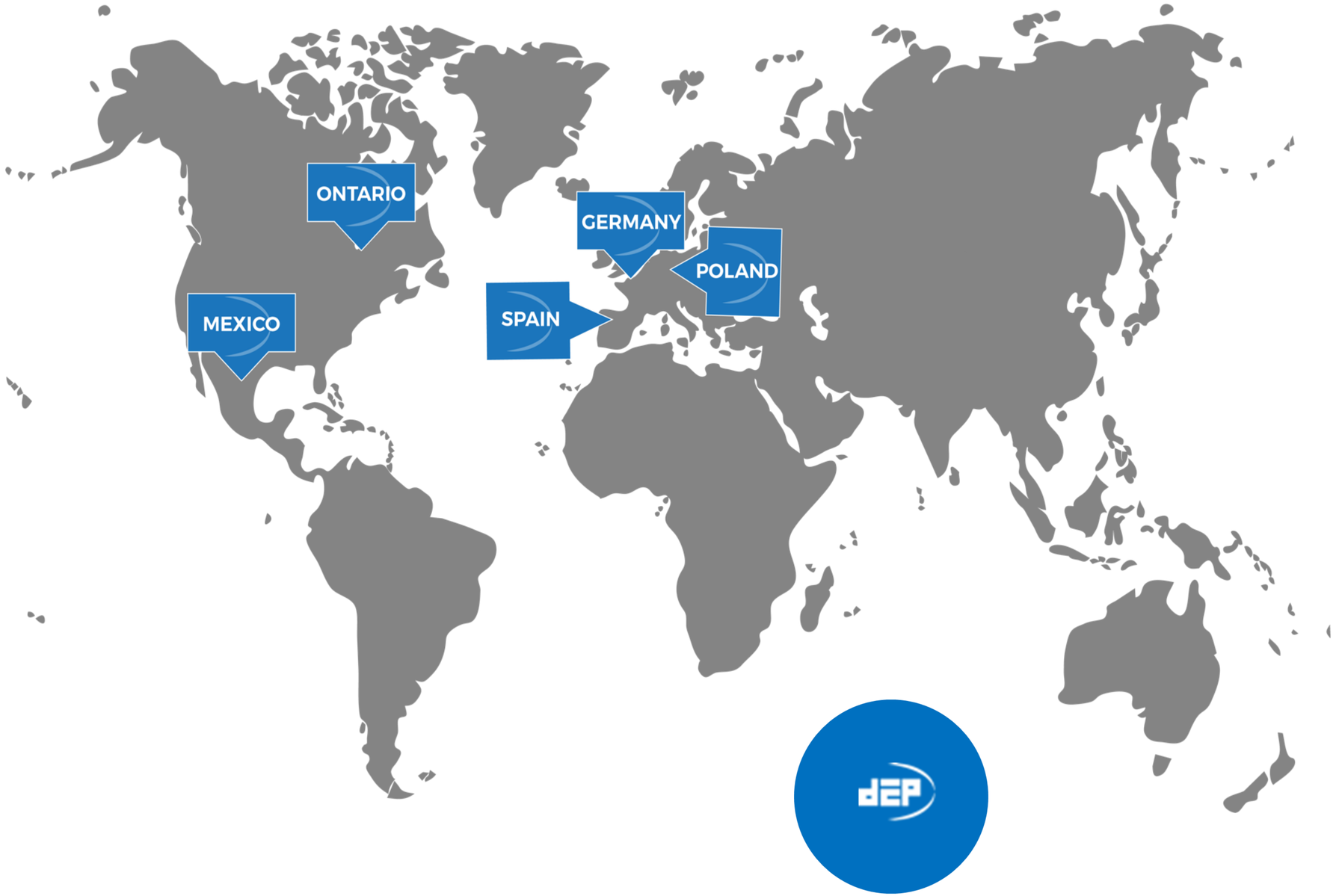
Ontario

Mexico

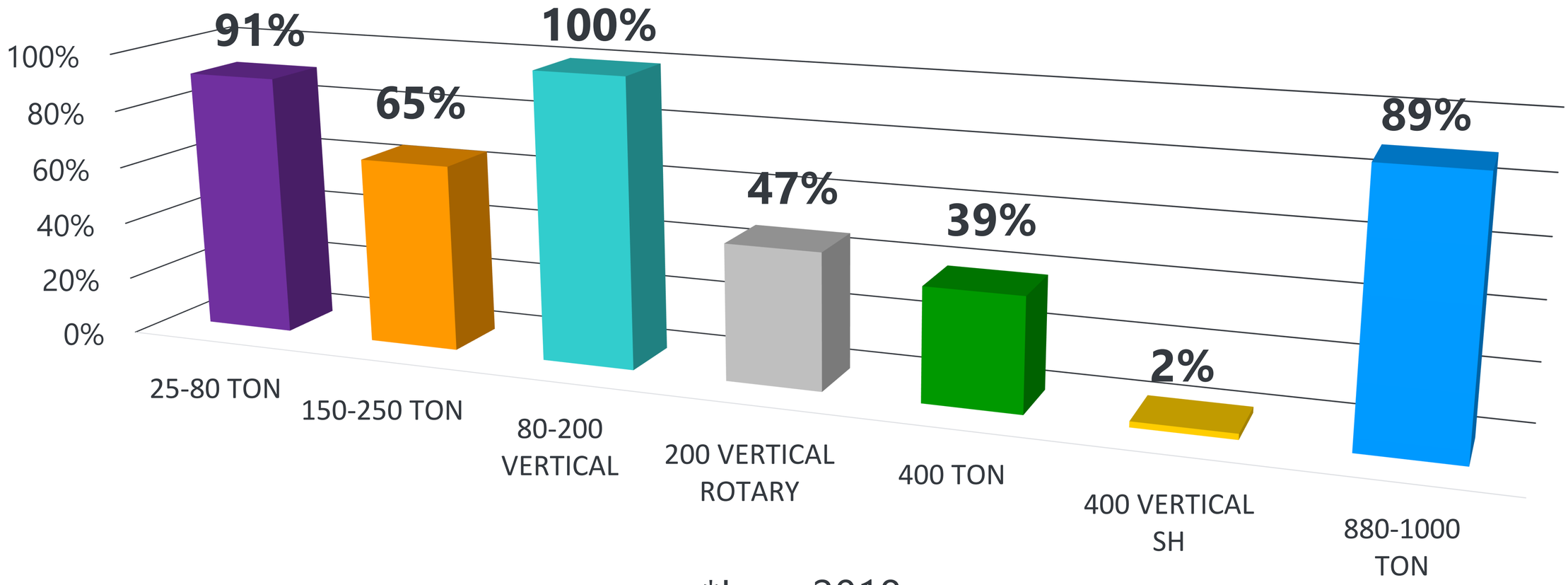
Spain

Germany

Poland



# OPEN CAPACITY




*June 2018

# OUR CERTIFICATIONS

- **Certified Woman Owned Business Enterprise**
- **IQMS Certified Software**
- **Federal Department of Defense Cage Code 7744**
- **Federal Foreign Trade Zone Registration FTZ No. 275**
- **TS16949 Certified**
- **Accreditation from the Michigan Minority Supplier**
- **Development Council DC**
- **ISO14001  Certified**

THANK YOU!