

## Designing and Manufacturing Seals and Sealing Solutions

While relatively small in cost, seals are often the most important components in a product, system or assembly. Our engineering team understands that seals must be carefully designed and manufactured to ensure optimal performance in their application.

Sealing applications generally fall into one of three groups:

- Static - no movement
- Reciprocating - linear motion
- Rotary - high speed rotation

*Robin Industries will recommend a design solution to meet or surpass the requirements for the specific type of application.*

Molding Technologies:

- Injection Molding (HCR)
- Liquid Injection Molding (LIM)
- Rubber Overmolding
- Low Waste and Flashless Tooling
- Transfer Molding
- Compression Molding



*The variety of our molding technologies allows Robin the flexibility to produce seals using the most efficient method possible.*

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### wise words

“The best way to make your dreams come true is to wake up.”

– Paul Valéry

## Looking Back

### It Happened in 1977...

- Jimmy Carter succeeds Gerald Ford as the 39th president of the United States.
- Tenor Luciano Pavarotti makes his American television debut.
- Star Wars opens in cinemas.
- The first oil through the Trans-Alaska Pipeline System reaches Valdez, Alaska.
- Roots begins its phenomenally successful run on ABC.
- The modern Food Stamp Program begins.
- The world's first personal computer, the Commodore PET, is demonstrated at the Consumer Electronics Show in Chicago.
- Gummo and Groucho Marx die just four months apart.
- Fleetwood Mac's Grammy-winning album Rumours is released.
- The first Apple II computers go on sale.



### Did You Know?

Over 87% of Americans have access to curbside or drop-off paper recycling programs.

## { terrific trivia }

1. What is the most common last name in the U.S.?
2. Individuals who own what pet fall asleep the easiest?
3. How many times does each newly produced U.S. dollar bill have to go through the printing press?



1. Smith  
2. Fish  
3. Three times

## { top 10 list }



### Top 10 Gold-Producing Countries

- |                 |                |
|-----------------|----------------|
| 1. China        | 6. Peru        |
| 2. Australia    | 7. Indonesia   |
| 3. South Africa | 8. Canada      |
| 4. USA          | 9. Ghana       |
| 5. Russia       | 10. Uzbekistan |

Source: Gold Fields Mineral Services, Ltd, Gold Survey 2010

## Did You Know?

- Robert Lincoln, son of President Lincoln, was saved from a nasty railroad accident by Edwin Booth. Edwin was the brother of Abraham Lincoln's assassin, John Wilkes Booth.
- The world's largest exporter of beef is Australia.
- Pope John Paul II was the first papal Harlem Globetrotter. The team made him an honorary member in 2000 during a visit to the Vatican.

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### Design Engineering & Capabilities – Full Service:

- Design Assistance
- Design for Manufacturability
- Versatility to work at any stage from concept through seal validation
- Complete project management
- Expertise in polymer technology as well as plastics, metals and other materials



- Finite Element Analysis (FEA) to drastically reduce design and development cycle time
- Prototyping techniques to provide quick test samples
- Product Testing
- Customer Validation
- Production – fully integrated manufacturing facilities

*Robin engineers are completely involved at all stages from design and material development through full scale production to ensure customer satisfaction.*

## Upcoming Events 2016 TRADE SHOWS

### MD&M West Show

Anaheim Convention Center  
February 9, 10 & 11, 2016  
Booth #1820  
800 W. Katella Avenue | Anaheim, CA 92802



### MD&M East Show

Jacob K. Javits Convention Center  
June 14, 15 & 16, 2016  
655 West 34th Street | New York, NY 10001



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