



*Designers & Manufacturers of Insert-Molded Knobs,
Handles, Industrial Components & Custom Products*

HANDLES



KNOBS



INDUSTRIAL COMPONENTS



CUSTOM



Over **85** years
— of quality —
Since 1933

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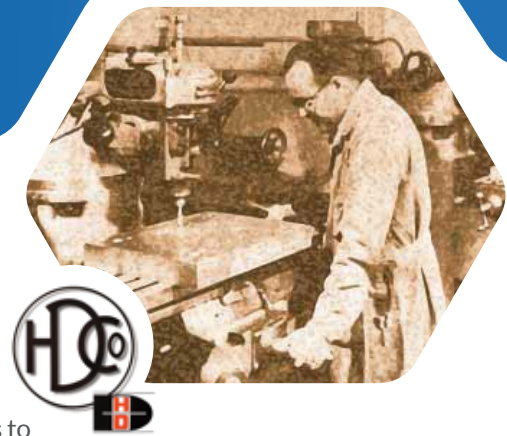
www.daviesmolding.com

OUR MOLDED HISTORY

IN 1933, THE HARRY DAVIES MOLDING COMPANY began with only seven molding presses and three punch presses, located in downtown Chicago. The small, single-room company was started during a time when the economy was depressed, and work was scarce. Yet with hard work and determination, Davies Molding soon established strong roots as a quality plastic molder. During the 1940's, we became a supplier of phenolic plastic components for the World War II war effort.

In the fall of 1991, Davies Molding moved to its current location in Carol Stream, Illinois to further enable its expansion. Our 99,000 square foot facility houses 86 machines including injection molding presses, compression molding presses, CNCs, robots and a laser engraver. Davies has continued to thrive and evolve through innovations with materials such as metal and rubber.

With over 9000 standard parts, our molded components can be seen in a wide range of industries including industrial machinery, food service, lawn & garden, electronics, medical and many more.



INSERT MOLDING EXPERTISE

Davies specializes in loading inserts (threaded fasteners) directly into components as plastic solidifies around the mounting. This process maximizes torque strength for demanding requirements. We stock thousands of different styles of inserts to minimize lead times, including both screw-machined parts and cold-headed studs.



THREADED INSERT

Standard Material:
Brass, Steel, or Zinc-Plated



THREADED INSERT THRU-HOLE

Standard Material:
Brass, Steel, or Zinc-Plated



BUSHING

Standard Material:
Brass, Steel, or Zinc-Plated



PROJECTING STUD

Standard Material:
Steel, Stainless Steel, or Zinc-Plated



HEX NUT

Standard Material:
Steel or Zinc-Plated



SET SCREW (Slotted or Socket)

Standard Material:
Steel, Zinc-Plated, or Black Oxide Finish

CUSTOMIZATION & VALUE-ADDED SERVICES

At Davies, we know that not every application is well-suited for a standard part. That's why we offer "specials" where a different insert may be required or perhaps a secondary operation added. Most of our parts can be customized to meet your specific needs and requirements. Parts can be modified by color, finish, material, size, insert type, and more.

Davies offers the following secondary operations:

- ▶ ASSEMBLY
- ▶ BAGGING
- ▶ BRANDING
- ▶ BUFF & POLISH
- ▶ CHROME PLATING
- ▶ CUSTOM COLOR MATCHING
- ▶ DECORATIVE INLAYS
- ▶ DECORATIVE POINTERS
- ▶ DRILLING
- ▶ HOT STAMPING
- ▶ KITTING
- ▶ LAPPING
- ▶ LASER ENGRAVING
- ▶ MACHINING
- ▶ PACKAGING
- ▶ PAD PRINTING
- ▶ PAINT COATINGS
- ▶ PAINT FILL
- ▶ SAND BLASTING
- ▶ TAPPING
- ▶ TURNING
- ▶ ULTRASONIC WELDING
- ▶ VACUUM METALIZING

KNOBS

Choose from over 300 series and 9,000 variations of injection molded and compression molded knobs.

Ball



MATERIALS

Thermoplastic
Soft Touch
Thermoset

SIZES

0.67" to 4"
25mm to 50 mm

EXTRA

- ▶ Rubber and phenolic materials available in thermoset
- ▶ Popular applications include heavy equipment, industrial machinery, lawn & garden

Bar/T



MATERIALS

Thermoplastic
Thermoset

SIZES

1.03" to 3.5"
28mm to 57mm

EXTRA

- ▶ Color matching available in thermoplastic options
- ▶ Over 20 different shapes

Clamping



MATERIALS

Thermoplastic
Soft Touch
Thermoset

SIZES

0.44" to 3.72"
19mm to 80 mm

EXTRA

- ▶ Provide a strong grip or secure control through the use of texturizing, knurling or lobes
- ▶ Styles include round fluted, knurled, scalloped, rotary, mini and lobes ranging from 3 to 9

Control



MATERIALS

Thermoplastic
Soft Touch
Thermoset

SIZES

0.39" to 3"
11mm to 41 mm

EXTRA

- ▶ Color options available
- ▶ Styles include slide, instrument, pointer and skirted
- ▶ Popular industries include food equipment, audio, medical, etc.

Lever



MATERIALS

Thermoplastic
Thermoset

SIZES

0.97" to 2.125"
28mm to 50 mm

EXTRA

- ▶ Optimal for up-down and left-right applications
- ▶ Part design is ideal for customizations such as hot stamping, laser engraving, inlays and more

Push/Pull



MATERIALS

Thermoset

SIZES

0.66" to 2.25"
17mm to 38 mm

EXTRA

- ▶ Heat-resistant phenolic material ideal for cookware, pot/pan lids, and other high heat applications

HANDLES

Davies Molding offers a variety of a handle styles, sizes, materials and load ratings to suit a wide range of applications.

Pull



MATERIALS

Thermoplastic
Soft Touch
Thermoset
Metal
Metal/ Plastic
Hybrid

SIZES

2.75" to 9.19"
25mm to 650 mm
(Center to center)

EXTRA

- ▶ Variety of mountings, materials and finishes available to suit your application or grip preference
- ▶ Adjustable size options

Tapered



MATERIALS

Thermoplastic
Thermoset

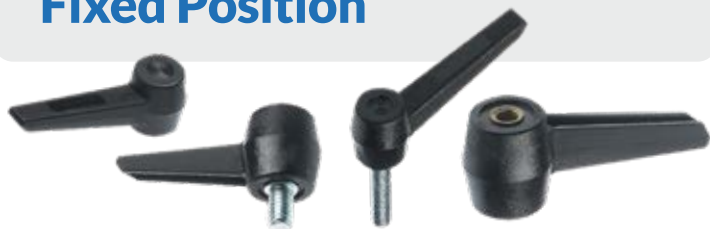
SIZES

0.75" to 1.375"
19mm to 35mm
(Handle Diameter)

EXTRA

- ▶ Heavy duty design featuring a secure, comfortable grip
- ▶ Popular applications include food & beverage equipment and industrial machinery controls

Fixed Position



MATERIALS

Thermoplastic

SIZES

2.06" to 3.16"

EXTRA

- ▶ Ideal for multi-position clamping jobs and limited space applications
- ▶ Good leverage for tightening of equipment, doors, tools, etc.

Pocket



MATERIALS

Thermoplastic
Metal

SIZES

93.5mm to 130mm
(Length)

EXTRA

- ▶ Easily-installed rotary and recessed handles that sit flush to minimize protrusions

Functional



MATERIALS

Thermoplastic
Metal/Plastic
Hybrid

FEATURES

- ▶ Colored LED Ledges
- ▶ Push Buttons
- ▶ Labeled Buttons
- ▶ Emergency Stop
- ▶ Ring Light

EXTRA

- ▶ Part specifications for series include varying combinations of functional features
- ▶ Parts can be customized to meet your specific needs

INDUSTRIAL COMPONENTS

Electronic Enclosures



Ideal for industrial and electronic applications, Davies plastic enclosures are the economical choice while remaining portable and durable.

Material: Phenolic, ABS

- ▶ Phenolic electronic enclosures are resistant to most chemicals and heat resistant to 475°
- ▶ ABS electronic enclosures are mar and scratch resistant and can be easily machined

Hex Hybrid Standoffs



Commonly used for mounting electronic hardware (PCBs). The standoff provides support, spacing and insulation for components in electronic enclosures, circuit board assemblies, panels, etc.

Material: Steel zinc-plated male studs
Brass female inserts
Nylon UL94 V-2 hexagon spacer body

- ▶ Operating Temperature of 130°C
- ▶ Insulation Resistance >10000 MΩ @ 500 V DC
- ▶ Dielectric Strength: 11 kV DC

Cable Glands



Designed to protect enclosures from elements such as water, dust, and debris while simultaneously protecting cabling, wiring, and tubing from abrasion. Davies cable glands provide excellent impact resistance, durability in harsh conditions, and wire strain relief.

Material: Polyamide (Nylon) UL94 V-2

- ▶ Seal Rating: IP 67
- ▶ Operating temperature: -30°C to 120°C Dynamic
- ▶ RoHS and REACH complaint
- ▶ Available in Metric, PG and NPT Sizes

Rubber Grommets



Manufactured with durable yet flexible thermoset NBR, used for its resistance to oils, fuels, and other chemicals, these rubber grommets are designed to be pressed into panel holes to protect wires and cables from abrasion.

Material: NBR Material

- ▶ Perfect for electrical insulation and mechanical damping
- ▶ Protects wires and cables against abrasion damage
- ▶ Better cut and tear resistance compared to thermoplastic rubber grommets

Vibration Mounts



Expertly designed to protect your equipment, Davies vibration mounts control unwanted vibration and reduce noise in machinery. With molded-in metal inserts, the rubber acts as a damper and prevents damage from shock.

Material: Natural Rubber Body with Mild Steel Studs

- ▶ Insert sizes ranging from M4 to M12
- ▶ Male-female, female-female, and male-male variations
- ▶ Temperature resistant up to 180°F
- ▶ Hardness: 55 ± 5 Shore A

Frac Balls



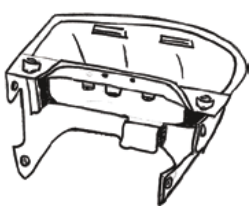
Davies composite frac balls provide excellent compressive strength and offer great heat, chemical and oil resistance to optimize high-pressure sealing. Designed and tested to meet your precise application needs.

Material: BMC
Two-Stage Phenolic

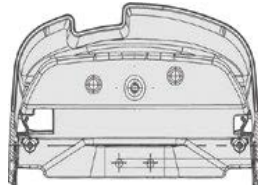
- ▶ High compressive strength 30,000-50,000 PSI
- ▶ Excellent heat resistance 400°F-500°F
- ▶ Specific gravity 1.7 (other options available upon request)
- ▶ Diameter range from 1 3/8" - 2 7/8"

CUSTOM MOLDING

In addition to our standard product line, we mold custom plastic components for a variety of industries. Our compression, injection, transfer and two-shot molding capabilities provide tremendous flexibility in part design and production. Whether you are looking for cost savings on an existing part or have a new product idea, we are committed to being your true partner, ensuring that your product is made with the highest quality and current design-for-manufacturing techniques from design to production.



CONCEPT



DESIGN



PROTOTYPE



PRODUCTION

THERMOPLASTIC

Thermoplastics are materials that will repeatedly soften and melt under the application of heat and will solidify upon cooling. This process can be repeated a number of times without chemically altering the material.

MATERIALS

Nylons
ABS
Polypropylene
Acetals
Polycarbonates
Polytherimide
Ultem
Peek/Torlon

BENEFITS

- ▶ Ability to design with more complicated part geometry
- ▶ Excellent impact resistance
- ▶ Capability to design thin walls
- ▶ Can be recycled and reused

OR

THERMOSET

Thermoset plastics are materials that undergo an irreversible cross-linking reaction during molding which causes them to harden into an infusible state.

MATERIALS

Phenolic
Melamines
BMC's
SMC's
Silicone Rubber
Polyesters
Ureas
Epoxyes

BENEFITS

- ▶ Outstanding dimensional stability, heat and chemical resistance
- ▶ High mechanical and dielectric strength
- ▶ Design flexibility in molding from thin to thick sections

MACHINES

MOLDING PRESSES (25 - 500 tons)

- ▶ 45 Thermoset Compression Machines
- ▶ 7 Thermoset Injection Machines
- ▶ 25 Thermoplastic Injection Machines
- (2) Two-Shot Arburg Machines

CNCs & SECONDARY OPERATIONS

- ▶ 6 CNC Systems

LASER ENGRAVING

- ▶ EPILOG CO2 Laser Engraver

ROBOTS

- ▶ Yushin
- ▶ Fanuc



PORTFOLIO

