

Innovative solutions for Compression Molding

Macrodyne is North America's premier supplier of compression molding presses and press-line automation to the plastics industry. Our presses can be found in the plants of most of the world's notable companies, producing a wide variety of automotive, aerospace, industrial, and consumer products.



Macrodyne Advantages

Presses are designed for the high-volume production of molded components ranging from small thin precision parts to large thick parts featuring a myriad of intricate shapes.

PRECISE CONTROL: Industry-leading control of platen motion is achieved using proprietary hydraulic circuits and press control systems. For applications where enhanced platen parallelism is required (such as in-mold coating), Macrodyne supplies an intelligent parallel leveling package complete with servo-proportional controlled leveling cylinders, powered leveling spindles, and associated electronic control package.

RELIABILITY: Designed and manufactured with ease of maintenance in mind. Macrodyne presses have the reliability, versatility & flexibility necessary for complex forming processes.

TECHNOLOGY: Our mechanical, hydraulic, and electrical control systems offer superior operational flexibility and extensive functionality.

CAPABILITY: Custom design solutions and manufacturing of heavy-duty presses more than 15,000 tons and die-handling systems for dies weighing up to 80 tons.

Compression Molding Solutions

Examples of Compression Molding Presses

- Sheet molding compound (SMC)
- Bulk molding compound (BMC)
- Multi-component molding (MCM)
- Glass mat thermoplastics (GMT)
- Transfer molding
- Long fiber reinforced thermoplastics (LFRT)
- Low-pressure molding compound (LPMC)
- Rubber and carbon fiber

Additional Features

- Full Turnkey Solutions, including tooling, program management and plant layouts
- Press-Line Automation
- Mold Carts and Quick-change solutions
- Die Storage & Retrieval Systems
- Temperature-compensated adjustable guiding
- Core/ejector packages
- Mold and platen heating packages
- Direct or accumulator hydraulic drives
- Intelligent platen parallelism packages
- Vacuum packages IMC packages

In addition to supplying new custom hydraulic compression molding presses, Macrodyne provides comprehensive service, rebuild and upgrade options for existing compression molding presses of all makes and models.