



Multiple Operations Research Presses

Macrodyne's Research Presses are optimized for multiple Research & Development Applications, providing high quality and long life even in the most demanding research environments.



Macrodyne Advantages

North America's Largest Hydraulic Press Manufacturer

Heavy-duty presses up to 20,000 tons, Automation, and Die Handling Equipment for dies weighing more than 100 tons.

RELIABLE

The industry leader in designing and manufacturing high-quality hydraulic presses with superior operational flexibility and extensive functionality to perform for decades.

CUSTOMIZABLE

Standard or custom-designed solutions for any application.

COST-EFFECTIVE

The right press and automation for your application within your budget.

Innovative Research Solutions

Macrodyne hydraulic Research & Development presses are currently used in some of the world's most advanced academic, government, and private-sector research facilities for many unique R&D applications.

All of our R&D presses are custom designed for their specific research application and can incorporate any desired level of functionality and process automation.

Macrodyne hydraulic presses are used in the research & development of many advanced manufacturing processes including:

- Hot gas forming
- Sheet hydroforming
- Tube hydroforming
- Metal formability testing
- Hot stamping
- Warm forming
- Squeeze casting
- Burst testing

Numerous Options are Available to Enhance Research & Development Programs

- High speed data acquisition systems
- Closed loop motion control on all axes
- Furnaces or ovens
- High speed imaging systems
- Process automation
- Test tools including LDR, Marciniak, bulge test, and more

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