

## Our products

Since its founding more than 100 years ago Parr Instrument is engaged in the manufacture and sales of reactors and pressure vessels specifically developed for laboratory use, calorimeters, sample preparation vessels and hydrogen apparatus and has a leading position on the world wide market.

Parr offers a wide selection of stirred reactors with volumes ranging from 25ml to near 20 Lit. for operating pressures up to 350 bar and temperature up to 500°C, non-stirred pressure vessels for even higher conditions. Standard material is stainless steel, optionally available are 10 different other alloys. As specialities are to be mentioned: High pressure reactors, compact reactors, glass reactors, multi-reaction-systems, parallel reactors, tube-reactors and bio-reactors.

Main applications are high temperature high pressure studies in stirred and non-stirred vessels

- |           |  |
|-----------|--|
| for       | - research, quality assurance, production, teaching  |
| locations | - laboratory, pilot plant and small scale manufacturing facilities   |
| fields    | - chemical, petrochemical, polymerization, pharmaceutical and metallurgical industries   |
| reactions | - 1-, 2- or 3-phase studies of acid and alkalai digestion, biological processes, catalyst evaluation and synthesis, corrosion testing, crystal growth, electrochemistry, hydrometallurgy, material analysis, organic synthesis, pressure leaching, refining processes, supercritical extraction, high-throughput testing, ionic liquids and hydrogenation. |

For the last mentioned application we offer special hydrogenation apparatus, too.

Bomb calorimetry - a procedure which determines the heat of combustion or calorific value of materials which are burned as fuels - is a fundamental test of great significance to anyone concerned with

- Production and/or utilization of solid and liquid fuels.
- Disposal of combustible wastes.
- Study of foods and feeds.

Parr offers a complete line of bomb calorimeters and accessories for these measurements, calorimeters which carry a proven reputation. The user can select an instrument well matched to the laboratory's requirements for precision, testing load, automation sample size and specialty preferences. These calorimeters provide a wide selection of equipment for all types of calorimetric service, whether for routine fuel tests, for precise research measurements, for occasional calorific tests, or for student instruction. Uses for Parr calorimeters extend into any chemical, physical or physiological process in which heat generation or burning is an important factor. Principal applications include calorific measurements for coal and coke, fuel oil, gasoline, jet fuels, combustible wastes and refuse disposal, foodstuffs and supplements for human and animal nutrition, building materials, explosives and heat powders, rocket fuels and related propellants, thermodynamic studies of combustible materials and energy balance studies in ecology.

The Parr sample preparation vessels (often called Parr-bombs) are available for oxygen combustion, acid digestion (including microwave bombs) and cell disruption by rapid nitrogen decompression.

Parr offers both specialty reactors and custom modifications. Do not hesitate to contact us for special requirements and applications.

This page belongs to the homepage of Parr Instrument (Deutschland) GmbH. We are the German sales subsidiary of our US-American parent company. In case you prefer English information please change to the US-homepage [www.parrinst.com](http://www.parrinst.com) .

For further information, questions and quotations please contact us by e-mail [info@parrinst.de](mailto:info@parrinst.de) or use the "Kontakt" on this page and fill in the questionnaire. We will reply soon, if applicable by a distributor in your country.

**Parr Instrument (Deutschland) GmbH**

Zeilweg 15, D – 60439 Frankfurt am Main, Germany

Phone: +49 69 57 10 58 - Fax: +49 69 587 03 00

Internet: <http://www.parrinst.de>

E-Mail: [info@parrinst.de](mailto:info@parrinst.de)