

**KAMAT**

since 1974



KAMAT HIGH-PRESSURE TECHNOLOGY

# **PRESSURE TESTING OF PRESSURE VESSELS AND PIPELINES**

Burst Test | Load Cycle Test | Pressure Retention Test





## PRESSURE TESTING WITH HIGH-PRESSURE TECHNOLOGY FROM KAMAT

In many industries, pipelines and pressure vessels that contain or transport fluids, sometimes at high-pressure, are an important part of the required infrastructure. Particularly in hydrogen technology, the requirements for flow rates and test pressures are becoming increasingly stringent. In order to ensure their reliability, it is essential that lots are regularly tested for their load capacity, e.g. by pressure testing.

A pressure test is therefore carried out on components that are intended to store or transfer fluids. The aim is to confirm that the components are sufficiently strong, leak and lifetime proven.

**KAMAT provides the perfect solutions.** We develop and produce tried and tested, high-performance complete systems including proven high-pressure pump and valve technology for this area of application. With up to 3500 bar, burst tests, pressure cycling tests and pressure retention tests can be carried out with ease.

As our high-pressure pressure testing technology is used in a wide variety of industries, the design is also variable. These systems can be powered by diesel, electric or petrol engines and can be controlled mechanically, electrically or pneumatically.

KAMAT offers proven pump and valve concepts that are specifically tailored to these applications. This combination of versatile pressure testing units and specially designed pumps ensures that your pressure vessels meet the highest industry standards.

## ABOUT KAMAT

Since 1974, the name KAMAT has stood for experience and expertise in the design and manufacture of high-pressure plunger pumps and systems, made in Germany. Now in the second generation, we develop and manufacture customised high-pressure solutions in Witten, which are used in many industrial applications worldwide.

## DISCOVER THE MANY BENEFITS OF PRESSURE TESTING WITH KAMAT'S HIGH-PRESSURE TECHNOLOGY:

- Various liquids possible
- Simplification of pressure testing through user-friendly processes
- Robustness of the pressure test units ensures durability and reliability
- Capable of performing pressure tests with a pressure of up to 3,500 bar
- Manual valve control option for increased control
- Realise complex automatic controls with software solutions for optimised processes
- Maximising convenience when performing pressure testing through advanced technologies
- Customised unit design to meet specific requirements
- Versatility of the pressure test system with different drive options: electric, hydraulic or internal combustion engine
- Specific valve and control technology adapted to the application
- Completely self-contained units
- Comprehensive consulting for your project
- Testing possible according to ECE R134, ISO 17519:2019 A7 & CGA C-1, among others



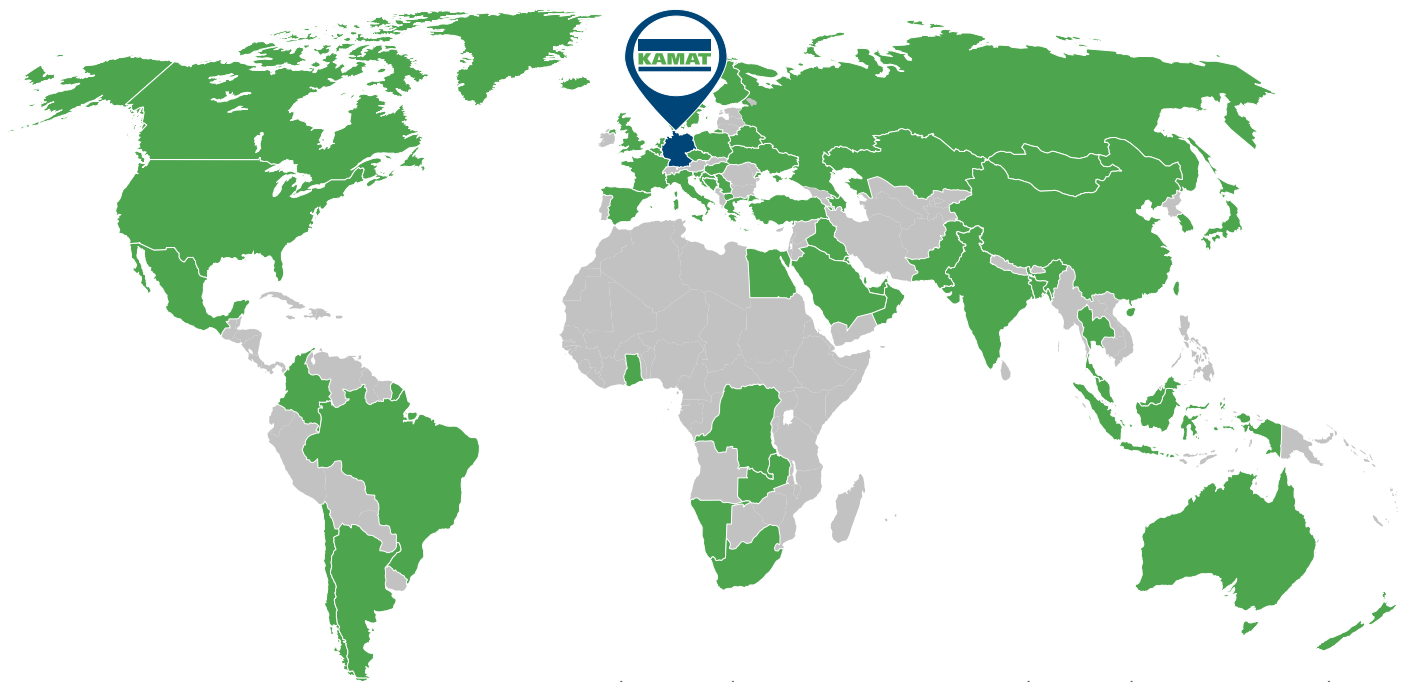
## KAMAT SCOPE OF SUPPLY: COMPLETE SYSTEM OR INDIVIDUAL COMPONENTS

- |                                     |                                |
|-------------------------------------|--------------------------------|
| ■ Fluid tank including cooling unit | ■ Control unit                 |
| ■ Base frame for the pump unit      | ■ Measurement technology       |
| ■ Booster pump if needed            | ■ Hydraulic valves             |
| ■ Inlet filter                      | □ Safety valve                 |
| ■ High-pressure plunger pump        | □ Pressure limiting valve      |
| ■ Drive system                      | □ Shut off valve               |
| ■ Sensors                           | □ Unloader valves              |
| ■ Motor starters or Converters      | □ No return valves             |
|                                     | ■ Manual or automated throttle |

### KAMAT control throttle:

A control throttle specially developed by KAMAT for this application allows the pressure build-up and release of the pressure vessel to be controlled. Special attention is paid to maintaining the required minimum pressures and the precise start of the test pressure. This newly developed control throttle optimises the overall cycle time and energy consumption in pressure testing systems. It also allows pressure test curves to be modulated for special requirements.

# KAMAT WELTWEIT



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**OCEANIA:** Australia | New Zealand

Official partner:



+49 2302 8903 0

info@KAMAT.de

[www.KAMAT.de/en](http://www.KAMAT.de/en)

