

Tinius Olsen

Gripping Systems





Tinius Olsen is the world's leading manufacturer of tension/compression materials testing machines with an extensive product range covering low and high force testing of raw materials and finished components.



Tinius Olsen machines are suitable for use in manufacturing industries, as an integral part of quality control and product performance analysis, research, and education.

A typical testing system is comprised of a testing machine/test frame, control, and analysis software, and critically, the parts and devices used to hold and support the test specimen. These parts are referred to as the "Gripping System" and are typically comprised of two components — an upper and a lower grip, which together hold the material under test and accurately transmit the forces being applied.

The Gripping System is an integral part of a successful test and credible repeatable test data. The process of setting up a test should be fast and easy to achieve. The specimen must be held firmly and consistently for every test, and the system should be

safe. Tinius Olsen's standard range of Gripping Systems meet all these criteria and are designed to test materials such as sheet metal, rebar, concrete, composites, wood, paper, board, rubber, textiles, non-wovens, and filter materials, insulation, leather, adhesives, and many more, as well as finished components as diverse as bearings, automotive clutch plates, fasteners, keyboards, electronic devices and printed circuit boards,

zips, contact lenses, and even food stuffs such as ice cream, fruit, and vegetables.

Using Tinius Olsen Gripping Systems it is possible to apply forces in tension, shear, compression,

flexure (bend), puncture (burst), friction, insertion, and extraction. Beyond the standard gripping range, a specialist engineering team at Tinius Olsen works closely with international standards organizations such as ISO, ASTM, EN, and industrial standards bodies, to continually develop new gripping solutions in support of customer development of tests for new materials and components. The Tinius Olsen team is proud of never having been seriously challenged by a material or component that could not be held and supported for a successful test.

The other data sheets in this package document a selection of Tinius Olsen's standard range of gripping solutions and technology; if you require a Gripping System not profiled here, please share your needs with Tinius Olsen as we are developing new products every day.



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