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Materials Testing Accessories Newsletter

In This Issue: The NEW 2712-04x Pneumatic Side-Action Grips.

Instron® introduces a new series of pneumatic side-action grips suitable for gripping a wide range of materials, specimens, and components. The grips are the result of close consultation with users during the design phase and are packed with features to enhance usability, safety, productivity, and repeatability of test results. With capacities of 1, 2, 5, and 10 kN, the new family covers a wide range of testing applications including plastics, foil, wire, sheet, textiles, elastomers, components, paper, and many more.



Features

- 1, 2, 5, and 10 kN options
- Robust design
- Dual-action gripping ensures the specimen self-centers. The 5 and 10 kN models feature adjustable offset for lap-shear and other asymmetrical specimens
- Each grip features an air valve to open and close the grips or there is an optional footswitch
- Rotatable air inlet with air flow control improves hose runs and provides adjustable closing speed
- Unique locknut design removes backlash in the loadstring without the need for tools
- Jaw faces can be changed in seconds without the use of tools or pins
- Large space between the jaw faces and the grip body eases specimen insertion and reduces the risk of pinched fingers
- Jaw face shields (patent pending) add another layer of protection for the operator, as well as having markings that help you maintain specimen alignment
- Excellent, repeatable gripping performance is assured by the robust, fully-enclosed, self-centering mechanism
- Enclosed design resists dirt and debris
- High-quality, low-maintenance components provide reliability and low cost of ownership
- Wide opening for thicker specimens
- Variety of jaw face sizes and surfaces
- Specimen Alignment Device ensures accurate specimen placement (optional accessory)

Contact Us

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For eNewsletter subscribers

FREE Jaw Faces...

when you order a set of 2712-04x pneumatic grips before **December 31, 2009**. Choose a set of rubber, serrated, or plain ground jaw faces up to 50 x 50 mm in size. To arrange a quote for the New Pneumatic Side Action Grips and Accessories [click here](#) now, follow the online request links in this newsletter or contact your local Instron representative.

Related Links

- Fourth Edition of the [Accessories Catalog for Materials Testing](#) is now available!



- Missed previous issues of the Accessories Newsletter?

Principle of Operation

Pneumatic side action grips offer a versatile gripping solution for a wide range of materials. The gripping force is controlled by adjusting the inlet air pressure and remains constant even if the specimen thickness changes significantly during the test. The quick and easy operation of the grips improves productivity and usability compared to other types of gripping techniques.

A pneumatic cylinder in the grip body actuates dual-lever arms that move the jaw faces together symmetrically in a self-centering action to clamp the specimen.

Grips are attached to the system by a simple clevis pin. The ergonomically designed locknuts eliminate backlash.

Jaw faces can be changed single-handedly in seconds without the use of tools or pins. The grips can be left on the system and there are no loose items to misplace.



Rotatable air inlet allows tidy hose runs and also features airflow adjustment



Integral air valve allows use without footswitch if desired



Large throat size allows for easy specimen insertion



Unique check-nut design is quick and comfortable to use



Jaw face shields reduce pinch hazard and feature graduations to aid specimen placement



Jaw face changes require no tools or pins

Specimen Alignment Device

Ensuring that each specimen is subjected to the same axial loading has an important influence on the repeatability of the testing system.

The optional specimen alignment device ensures that the specimen is loaded vertically every time. It can be used with rigid and semi-rigid materials where the specimen can be pressed lightly against the backstop for rapid loading, or with flexible materials, such as tapes and foils, where the backstop provides a visual cue. It can be mounted above or below the jaw faces depending on the specimen design.

Repeatable, quick, and simple to adjust.



Jaw face Shields

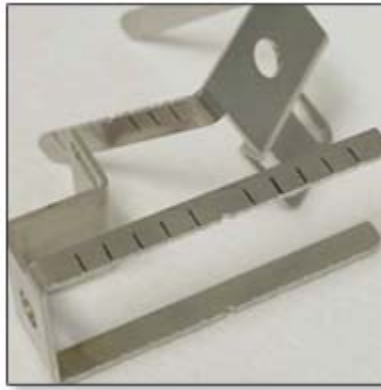
Jaw face shields reduce the possibility of getting fingers pinched during grip closure. They can be adjusted horizontally to suit the specimen thickness, which helps to centralize the specimen prior to grip closure. Each shield has graduations to assist in aligning the specimen vertically and a central notch that can be used to align wires and other small diameter specimens. Each grip is

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Future Events

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supplied with two sizes of jaw face shields.

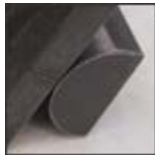


Jaw Face Surfaces

Each jaw face has a center mark on all four sides that helps you easily align your specimen.



Brake Lining
For gripping composite tows and other hard, but easily damaged, materials.



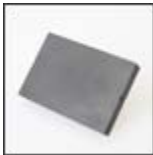
Line Contact
For gripping paper and elasticated fabrics.



Rubber
For gripping threads, fabrics, plastic tapes, and materials where a compliant surface is beneficial.



Serrated
For gripping plastics, metals, fabric, and soft materials, such as elastomers.



Smooth
For gripping films, foils, fine wires, thin sheets, and tapes.



Vee Serrated
For gripping larger diameter rounds, such as thicker metal wires, tubes, and hard plastic.



Wave Profile
For gripping coated fabrics, tough foils and engineering textiles.

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For more information on Accessories, visit us [on the web](#), submit an [online request](#), or call us at +800 564 8378 (US only) or +44 1494 456815 (Europe only)

Are you testing something a little different? Do you think more people should know about it? Would you like to submit an article for possible publication in the Instron accessories newsletter? If so, please [submit your story](#).

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