

IJF

Intelli-Jack with frame



Adapted for testing all types of materials and products, the Intelli-Jac range offers a unique solution for generating, filing and displaying quality data. It is built around a specially designed testing machine for a wide range of test modes: Tension, Compression, Bending, Punching, Peeling, Delamination, etc., and it offers the user a fast and effective way of generating and presenting a quality report. Additionally it offers a data filing and retrieving system giving the user instant access to reports on any previously tested samples. It is ideally suited to quality assurance and process control as well as research and development. It is capable of performing a wide range of complex testing procedures and can be set-up for relevant international or national standards.

The machine is compact, bench mounted, and built with a frame size to match the application, making the positioning and removing of samples very easy - no studs or frames to avoid. The special machine design provides optimum stiffness resulting in accurate deformation measurements. Testing is controlled from the computer after keying in sample identification. During testing the load-deformation curve is simultaneously generated on the monitor.

The machine can be supplied with bending jigs, compression plates, tension grips etc. as required. The automatic positioning of the loading beam after each test virtually eliminates waiting time between tests.



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Specification

| Model | IJF 6/200 | IJF 6/500 | IJF 6/700 |
|--------------------------|---|-----------|-----------|
| Loadcell Capacity | 6000 N | 6000 N | 6000 N |
| Max stroke length | 200 mm | 500 mm | 700 mm |
| Daylight between columns | 500 mm | | |
| Frame stiffness | 5 kN/mm | | |
| Resolution | 0.06 N | 0.06 N | 0.06 N |
| Supply Voltage | 230V 50Hz or 115V 60Hz | | |
| Speed Range | 0.001-500 mm/min | | |
| Height | 890 mm | | |
| Width | 660 mm | | |
| Depth | 310 mm | | |
| Force measuring error | Less than 1% of actual value from max. force down to 1/1000 of max. force | | |
| Deformation resolution | 0.0010 mm | | |
| Control system | USB-connection to PC. The TRAM QA software makes the testing, filing and analysing of data extremely versatile - refer to the separate brochure for the software. | | |

Standards

| | |
|------------|---|
| ASTM C473 | Standard Test Methods for Physical Testing of Gypsum Panel Products |
| ISO 1924-2 | Paper and board - Determination of tensile properties |
| EN 310 | Wood-based panels. Determination of modulus of elasticity in bending and of bending strength |
| EN 520 | Gypsum plasterboards - Definitions, requirements and test methods |
| EN 12089 | Thermal insulating products for building applications - Determination of bending behaviour |
| ISO 8336 | Fibre-cement flat sheets -- Product specification and test methods |
| ISO 9125 | Fibre-cement slates and fittings -- Product specification and test methods |
| EN 13279-2 | Gypsum binders and gypsum plasters - Test methods |
| ASTM D3330 | Standard Test Method for Peel Adhesion of Pressure-Sensitive Tape |
| EN 1939 | Self adhesive tapes. Measurement of peel adhesion from stainless steel or from its own backing |
| ISO 29862 | Self adhesive tapes -- Determination of peel adhesion properties |
| EN 15283-2 | Gypsum boards with fibrous reinforcement - Definitions, requirements and test methods - Part 2: Gypsum fibre boards |
| EN 15283-1 | Gypsum boards with fibrous reinforcement - Definitions, requirements and test methods - Part 1: Mat reinforcement |
| TRAM 1001 | Gypsum boards - Hardness longedge Ø8-cone method |
| DIN 55440 | Packaging test, compression test, test with a constant conveyance-speed |
| ISO 6383-1 | Film and sheeting - Determination of tear resistance - Trouser tear method |
| EN 320 | Particleboards and fibreboards - Determination of resistance to axial withdrawal of screws |



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A stiff frame construction, loading via a sealed ball-screw system and an accurate measure of the loading beam travel are the basis of the Intelli-Jac-system. A computer with TRAM-QAWindows software makes the machine a powerful "automatic" system for generating, filing and displaying quality data for any production.

Simple to use software will enable the operator to grow familiar with the test machine after a very short time even if he has no experience at all in operating a computer. The software is supplied in national languages as required.

Comprehensive electronic protection prevents the machine from overloading damage or driving out of limits. A simple calibration procedure is included in the software. For operation in dusty environments the system can be supplied with the computer and printer in a sealed tower arrangement.

The equipment offers a great opportunity to improve quality management through instantaneous data generation. In spite of the highly advanced and automatic testing procedure operation is easy.

Due to the modular design of the equipment and the versatility of the software, tailored systems can be offered at a moderate price. Systems specially set up for board, sheet, and slab manufacturing industries can also be supplied.



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