

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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