SCIENTICO INDIA
Manufacturer & Exporter · Ambala, Haryana, India

PRODUCT DATA SHEET
Catalogue reference for product evaluation

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Impact of Jet Apparatus | FluidoSurge-X 124

Category: Fluid Mechanics · **Country of Origin:** India

Product Overview

A CE-certified apparatus for measuring the force exerted by a water jet on flat, hemispherical, and curved vanes, manufactured by Scientico India to ISO 9001:2015 standards. Supplied with calibration certificate, operation manual, and complete export documentation. Designed for Fluid Mechanics laboratories in engineering colleges and technical institutions.

View this product online: https://scienticoindia.com/product/impact-of-jet-apparatus-fluidosurge-x-124/



Request a model-specific quotation
Include quantity and delivery country.

Technical Specifications

Parameter	Specification
Model	FluidoSurge-X 124
Type	Impact of Jet Apparatus
Application	Jet Impact and Momentum Experiments
Operating Chamber Material	Plexiglas
Chamber Diameter	200 mm
Chamber Height	370 mm
Nozzle Diameter	8 mm
Deflectors Supplied	Flat plate, hemisphere, angled plate, cone
Deflection Angles	Flat plate, 180°, 30°, 120°
Impact Force Measurement	Weights and balance scale
Nozzle to Deflector Distance	Adjustable

Key Features

Key Features-

- Experimental setup for studying impact of jet on different surfaces
- Transparent Plexiglas chamber for clear observation of jet behavior

- Four interchangeable deflectors with different deflection angles
- Direct measurement of impact force using calibrated weights
- Adjustable nozzle to deflector distance for varied test conditions
- Compatible with hydraulic bench or laboratory water supply

Applications-

- Verification of impulse momentum principle
- Measurement of force due to jet impact
- Study of effect of flow rate and jet velocity on impact force
- Analysis of jet deflection angle on force magnitude
- Fluid mechanics and hydraulics laboratory experiments

Construction & Design Details-

The apparatus is mounted on a rigid base plate to ensure stability during operation. The cylindrical operating chamber is manufactured from Plexiglas to allow full visibility of the jet and deflector interaction. Interchangeable deflectors are precisely machined to ensure consistent deflection angles. The force measurement system uses a calibrated set of weights to balance the reaction force generated by the jet.

Export & Supply Capability-

SCIENTICO manufactures the Impact of Jet Apparatus FluidoSurge-X 124 for supply to engineering colleges, universities, and technical institutions. The equipment is suitable for domestic distribution and international export. Standard packing, accessories, and documentation are included with each unit.

Ordering & Delivery

- Send the product name, quantity, delivery country and destination with your enquiry.
- Production schedule, freight, payment terms and export documents are confirmed in the written quotation.

Frequently Asked Questions

Q1. What principle is demonstrated using this apparatus?
It demonstrates the impulse momentum principle by measuring the force produced by a water jet striking a surface.

Q2. What deflectors are included with the apparatus?
The apparatus includes a flat plate, hemisphere, angled plate, and cone deflector.

Q3. How is the impact force measured?
The impact force is measured using a balance mechanism loaded with calibrated weights.

Q4. Can the distance between nozzle and deflector be changed?
Yes, the nozzle to deflector distance is adjustable to study different jet conditions.

Q5. What water supply is required for operation?
The apparatus can operate using a hydraulic bench with closed water circuit or a laboratory water connection.

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