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Precision Systems and Instrumentation, LLC

A contusion device specifically designed for
medical research using rats and mice.

model IH-0400



IH-0400 Impactor

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This system provides medical researchers specializing in spinal injury with a unique tool to evaluate the mechanisms underlying injury to spinal cord structures. This instrument enables the application of standard-force injuries to the spinal cords of small rodents. Force levels are user-selectable between 30 and 300 kdyn. The probe can also be halted at specific force levels to model extended compression injuries. Probe force and displacement curves, as a function of time, are displayed using PC software and recorded to an experiment log file. Data can be recalled at any time to review an experiment. The system is ready to use out of the box with a **user-supplied computer.**

Precision Systems and Instrumentation, LLC

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Specifications

Impactor

- Maximum height: 19" (483mm)
- Desk top foot print X and Y: 24" (610mm) by 16" (407mm)
Base 12" (305mm) by 12" (305mm)
- Weight: 31 lbs (14kg)
- Power train, position and force sensors and control unit included.
- Standard 6' (1.8m) cable between impactor and PC
- 3 Axis manual position control.

Range X	8.0" (228mm)
Range Y	3.0" (76mm)
Range Z	3.0" (76mm)
- Z Axis auto range: 0.63" (16mm)
- Removable fixation plate: 12" (305mm) x 12" (305mm)
- Micro- Adson forceps
- 12" (305mm) x 12" (305mm) base

Control Cabinet

- Cabinet: 19" (483mm) x 8-3/4" (222mm) x 15" (380mm)
- Weight: 35 lbs (16kg)
- Power requirements: Specify with order.
120VAC 10 amp or 240VAC 5 amp, 50/60Hz

System Software

- Windows XP or 7 compatible. (Vista is not recommended).
- Programmable force levels 30 to 300 kdyn
(Default = 100 kdyn).
- Programmable dwell time 0-60 sec (Default = 0).
- Display: Peak force, displacement, impact velocity, force and displacement versus time.
- Comprehensive experiment logging.

Interface

- Standard 9 pin serial port. A PSI recommended USB adaptor is available for purchase.