



# MPS-350 - Data Sheet

**NCHRP350 COMPLIANT**

*Truck Mounted Attenuator*

## Specification

- Product supplied by Ingal Civil Products
- NCHRP 350 Test Level 3 compliant
- Electric hoist to raise frame to travelling position
- Swivel jacks for easy removal
- Weight: 727 kg
- Length: 4.3 m
- Width (with plastic): 1.8 m
- Width (without plastic): 1.2 m
- Height lowered (at hoist): 1.1 m
- Height lowered (at nose): 0.8 m
- Height raised: 3.8 m



## Applications

The MPS-350 Truck Mounted Attenuator is designed for application on either moving or stationary vehicles. The unit protects work crews from errant vehicles, and it protects motorists from shadow vehicles.

## Maintenance

The open design of all steel construction makes routine inspection quick, reliable and simple. The system is designed for simple owner repair after nuisance impacts.

## Functionality

A power hoist quickly raises the steel frame for travelling. The hoist can be cabin fitted to enable mobile control. In the upright position, the open design of the MPS-350 provides little wind drag. Connecting or disconnecting from a truck takes approximately 10 minutes.



- Brisbane (07) 3387 3000 • Melbourne (03) 9358 4100
- Perth (08) 9249 3155 • Sydney (02) 9827 3333 • Adelaide (08) 8169 2300
- Newcastle 0400 235 883 • Orange 0427 779 588

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“The open design of the MPS-350 provides little wind drag”

## How the MPS-350 Works

The MPS-350 provides a controlled stop for an impacting vehicle through a progressive sequence of events. As a vehicle collides with the system, load is transferred to the bracket. Struts that support the bracket in its 45o position release when the 3/8” bolts shear. Upon release, the bumper assembly connected to the frame of the vehicle support. At this point the rip plates begin to pass over the cutter blades as the frame pushes under the support vehicle.

The length of the frame that passes over the cutter depends on the weight and speed of the impacting vehicle.

During the stroke of the MPS-350 the rip plate provide a progressive stopping force for the errant vehicle. The first portion of the stroke cuts very thin metal plates that provide a soft ride down deceleration for small vehicles. As the stroke progresses, additional layers of thicker riip plates provide appropriate arresting force for larger vehicles.



## Application Benefits

- Repairs and replacement progression that matches impact severity
- Soft ride down acceleration for small vehicles
- No sagging problem with adjustable support chains
- No moisture adsorption problem with all-steel structure
- No hydraulic fluid leaks with electric hoist
- Easily repaired after nuisance impacts

## Support Vehicle Requirements

- Gross weight of 9,000 kg or more
- Fuel tanks on supprot vehicle must be more than 3.25 m from the rear of the vehicle.



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