



Series 1999  
**Gemco®**  
 Semelex®II Safetimeter Test Set

**OSHA Uses Our Safetimeter...  
 Shouldn't You?**

Our Semelex II Safetimeter Test Set is field proven to accurately measure press stop time and safety distance to verify compliance with federal and state requirements. Designed for harsh industrial environments, the unit is portable, light weight, easy to use and incorporates new and improved features.

- **Ruggedized Auto-Hand**  
 Built for pressrooms, it will release a run button or push an E-Stop button to initiate press stop when signaled by the position/velocity transducer.
- **Redesigned Auto-Flag**  
 Connects to the Auto-Hand and is positioned outside the sensing field of personnel safety devices. It initiates press stop by interrupting the sensing zone at a preset point in the stroke to check stop time.
- **Heavy-Duty Position/Velocity Transducer**  
 Industrial grade magnets for secure mounting to base and upper bolster. It provides accurate direction, position and velocity signals to the meter for testing press strokes up to 49".
- **Quick-Charge Battery**  
 The unit's built-in battery can be fully recharged in eight hours, or can run off AC power. The battery cannot be over charged. A charge indicator also signals when the battery is low.
- **Two Safetimeters in One**  
 The same unit can be used to check full or part revolution clutch presses.



Specifications	
Stop Time (Ts)	9.999 Seconds, Max.
Safety Distance (Ds)	999.9 Inches, Max
Press Stroke	49 Inches, Max.
Operating	Between Charges 3-5 Days Typical On/Off
Charge Time	8 Hours
Accuracy	+/- 1% of Reading
Power Supply	115VAC 50/60 Hz Supply/Charger 6VDC Rechargeable Battery
Options	Manual Start Push buttons Remote Tachometer with Magnetic Base Accurately Measures Rotary Stop Times Applications Include: Indexing Tables, Fillers, Conveyors and Blow Molding Wheel Machines
Specifications are subject to change without notice.	

**A complete Series 1999 Semelex II Safetimeter Test Set includes: Meter, Position/Velocity Transducer with Cable Extension Set, Auto-Hand with Auto-Flag, Legs, Plunger Extension and Operations Manual.**

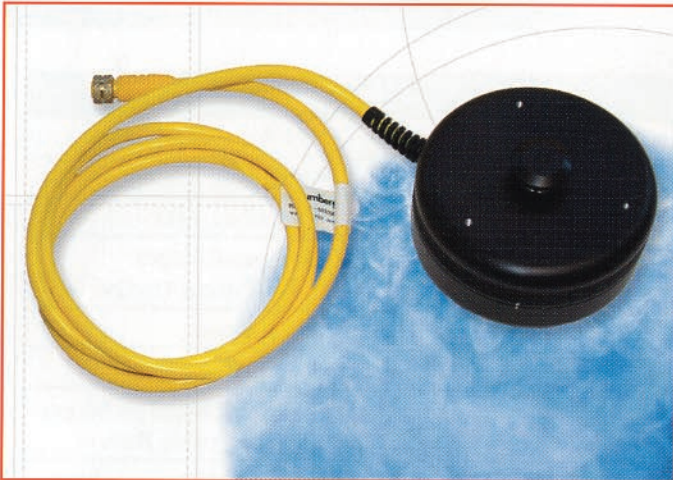
## Semelex II Safetimeter Checks Stop Time, Safety Distance and More...

### Stop Time (Ts)

Stop Time is the time interval from the initiation of the stop signal to the complete stop of the press. Stop time can change as a result of wear, speed, machine use, solenoid valve response, die weight and other factors. State and Federal guidelines require periodic checking of stop time.

### Safety Distance (Ds)

Safety Distance is the distance between the location of two-hand control or personnel safety devices and the pinch point closest to the operator. OSHA regulation 1910.217 (c)(3)(iii)(e) expresses Safety Distance using the following formula:  $Ds = T_s \times 63$  inches/sec. When selected, the Semelex II Safetimeter will display the minimum safety distance per the OSHA formula.



### Counterbalance

Counterbalance can be easily checked by measuring the *down-stroke* and *up-stroke* stop time. When these two times are the same, counter-balance is properly set.

### Personnel Safety Devices

Personnel Safety Devices like light curtains or safety mats can be tested using the Auto-Hand and Auto-Flag to verify reaction time per the OSHA formula. The overall response time of the safety device, press control E-Stop circuit and the clutch brake mechanism are checked when the Auto-Hand or Auto-Flag accessories are used.

### Optional Remote Tachometer Set

The Remote Tachometer Set consists of a tachometer on a magnetic base, two drive wheels and one drive cone. This sensor assembly is used to monitor the stopping time of conveyors or robots that cannot be monitored by the standard position/velocity sensor.

### Optional Manual Start Switch

The Manual Start Switch is used to simultaneously initiate an E-Stop condition and the stop time calculation in the Safetimeter. The switch can be placed upon a safety mat used for machine guarding. Stepping on the switch synchronizes the stop time calculation with the safety mats E-Stop output signal.



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