

# Intercomp<sup>®</sup>

advanced weighing technology . . . by any measure



VARIABLE SPEED  
**SHOCK DYNAMOMETERS**



# INTERCOMP VARIABLE SPEED SHOCK DYNAMOMETERS



## 8hp VARIABLE SPEED SHOCK DYNAMOMETER

- 8hp Motor
- 40" Eye-to-Eye Masts
- 8hp Variable Speed: 0.5 to 40 in/sec; 1.27 to 101.6 cm/sec
- Adjustable Stroke: 0.5", 1.0", 1.5" or 2"
- Type K Infrared Thermocouple Sensor
- Three-Phase 220V Power
- Low-Profile Load Cell
- Scotch Yoke System
- USB Connection

Part # 177004 8hp Shock Dyno



## 3hp VARIABLE SPEED SHOCK DYNAMOMETER

- 3hp Motor
- 3hp VARIABLE SPEED: 0.5 to 19 in/sec; 1.27 to 48.26 cm/sec
- 3hp HIGH SPEED: 0.5 to 55 in/sec; 1.27 to 139.7 cm/sec
- Adjustable Stroke: 1.0", 1.5", 2.0" or 2.25"
- 28" or 40" Eye-to-Eye Masts Available
- Compression/Tension Load Cell
- Type K Thermocouple Sensor
- Runs on 220V Power
- Scotch Yoke System
- 2,000 lb Load Cell
- USB Connection

Part # 102093 3hp Shock Dyno, 28" Masts  
 Part # 102093-40 3hp Shock Dyno, 40" Masts  
 Part # 102092 3hp High Speed Shock Dyno, 28" Masts  
 Part # 102092-40 3hp High Speed Shock Dyno, 40" Masts

## INTERCOMP SHOCK ANALYSIS SOFTWARE

User-Friendly, Easy-to-Operate

Load & View Previous Shock Tests

Overlay 20 graphs

Display All Measurement Units Independently

- Force: lb/kg/N
- Distance: in/cm
- Temp: °F/°C
- Pressure: PSI, Bar, kg/cm<sup>2</sup>

Seal Drag & Rod Pressures

Warm Up for Time or Temp

Live Data Display/Live Graphing Option

Real-Time PVP Graphing with CVP Graphs for Each Velocity Interval

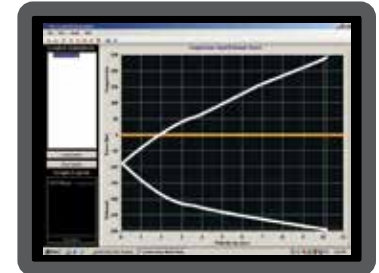
Peak Velocity Pick Off Testing/Graphing (PVP)

Constant Velocity Testing/Graphing (CVP)

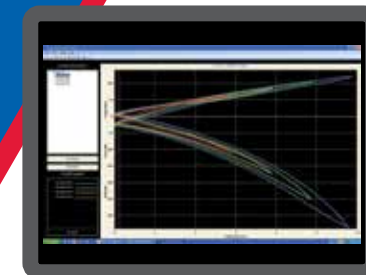
View Data Points in 0.1", 0.5", 1.0" or 2.0" Intervals

Software Compatible with Windows®7, Windows® 8 & Windows® 10

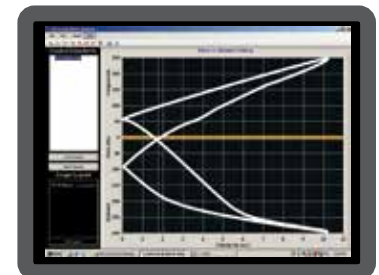
## SHOCK ANALYSIS SOFTWARE



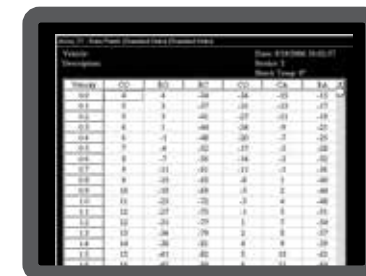
Compression Open/Rebound Closed



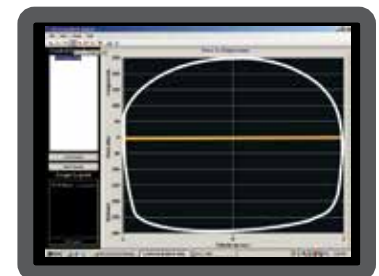
Compare Shocks



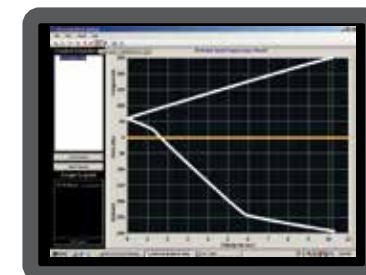
Force vs Absolute Velocity



Data Points



Force vs Displacement



Compression Closed/Rebound Open



Live CVP



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## Proven Components & Construction

The 8hp Shock Dyno builds on the reliable design of our 3hp dyno. Technicians experienced in assembly of our 3hp model will also construct this new member of the Shock Dyno product line in our Medina, Minnesota Facility. Crossover with some components and hardware ensures consistent performance and proven quality with similar assembly practices and parts sourcing, including the use of a Scotch Yoke System.

## Plug & Play

Intercomp's Shock Analysis software is pre-loaded on a dedicated laptop PC included with each dyno. This minimizes the chance of frustrating compatibility issues that may require multiple tech support calls.

## Long Service Life

Each Intercomp racing product is constructed with many years of problem-free use in mind. Regardless of the forces needed to properly test high-performance shock absorbers, manufacturers, tuners and racers can trust in the long-term accuracy of our measuring products when recommended maintenance schedules listed in the user's manual are followed.

## Brand Dependability

Intercomp is one of the longest running and most trusted names in motorsports measurement. With 40 years of experience in the weights and measurements industry, our products are in the toolboxes of top-tier professional race teams and amateur racers alike. Intercomp products offer the precision and accuracy needed to win world championships, while fitting into the budget of many Saturday night feature first-time winners.

## Specifications

	3hp Shock Dynamometer	8hp Shock Dynamometer
<b>Load Cell Capacity</b>	2,000 lb	12,500 lb
<b>Force Sensor Capacity</b>	<i>Variable Speed:</i> 2,000 lb (1,000kg) @ 10 in/sec (25cm/sec) <i>High Speed:</i> 600 lb (300 kg) @ 40 in/sec (100 cm/sec)	1,200 lb (540 kg) @ 40 in/sec (100 cm/sec)
<b>Load Cell Type</b>	Compression/Tension Load Cell	Compression/Tension Low-Profile Load Cell
<b>Rod Velocity</b>	Software Calculated, Based on Signals Received from Dyno	
<b>Speed Control</b>	Automatically Controlled, Based on Software-Controlled Testing Options	
<b>Dimensions / Weight</b>	55" x 24" x 17" (138 x 60 x 43 cm) / 160 lb (73 kg)	78" x 31" x 24" (198 x 78.75 x 61 cm) / 500 lb (267 kg)
<b>Displacement Sensor</b>	Yes	Yes
<b>Temperature Sensor</b>	Type K Thermocouple	Infrared Type k Thermocouple
<b>Data Export</b>	Export to CSV	Export to CSV
<b>Compatible Shocks</b>	Standard, Piggy-Back and Remote-Reservoir Shocks -MacPherson Struts, Motorcycle Forks or Mountain Bike Fork Possible ( <i>Adapters not Intercomp-supplied</i> )	
<b>Bearings</b>	Low-Friction Bearings	
<b>Mounting Pin Diameter</b>	1/2"	1/2"
<b>Shock Mount Clevis Width</b>	5/8"	5/8"
<b>Clevis Mount Thread Size</b>	3/4"-16 UNF	3/4"-16 UNF

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Specifications subject to change without notice.



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