

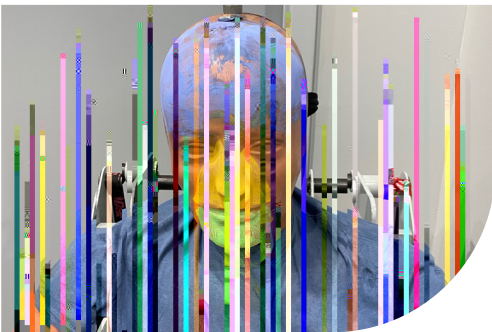
## ABOUT US

The Crash Dynamics Lab is a premier dynamic testing facility for the nation's aircraft and aircraft component manufacturers and provides research HII 50th Percentile ATDs



## HYDROPULS® CSA ADVANCED CRASH SIMULATOR

| Performance Data<br>Basic System CSAadvanced                    | Frontal Sled (1-piece design)<br>Dimensions: 1.8 m x 4.1 m<br>Weight: 920 kg |
|---|--|
| Peak Accel with 500 kg on top of sled                           | 90 g   |
| Peak Accel with 1000 kg on top of sled                          | 80 g   |
| Peak Accel with 1500 kg on top of sled                          | 75 g   |
| Peak Accel with 2000 kg on top of sled                          | 60 g   |
| Peak Accel with 3000 kg on top of sled                          | 49 g   |
| Maximum Velocity  | 90 km/h up to 1500 kg on top of sled   |
| Max Accel Gradient (Jerk)                                       | 14 g/ms<br>(up to 20 g/ms under certain conditions)                          |
| Frequency Response  | 150 Hz   |
| Reproduction Accuracy - Acceleration<br>(predicted to achieved) |  |
|   |  |



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- 4 HIII FAA 50th Percentile ATDs
- 2 HIII 50th Percentile ATDs
- 1 HIII 95th Percentile ATD
- 1 HIII 5th Percentile ATD
- 3 ES-2 re Side Impact ATDs
- 1 DOT SID Side Impact ATD
- 3-yr-old child ATD
- 6-yr-old child ATD
- 12-month-old child ATD