

High Impact Velocity Quench

Profile Quality

GRANCO CLARK has been supplying "High Impact Velocity" quenches since 1985. We documented the underlying science two decades ago in a seminar paper at the Extrusion Technology Symposium in 2004 *(ET-04)*.

Cooling rate is determined by quench technology and profile thickness. For most crash box sections our systems can provide cooling rates of more than 200°F per second on enclosed hollows *(that is - quenching only the outside of the profile).*

GRANCO CLARK's High Impact Velocity Quench provides the maximum heat transfer available in a profile quench. Unlike flood quenches, the High Impact Velocity Quench penetrates the steam barrier surrounding the profile and puts water droplets directly on the aluminum. More importantly, the GRANCO CLARK High Impact Velocity Quench provides adjustability unlike any other, for a gain in profile quality.

With the **GRANCO CLARK** High Impact Velocity Quench, the speed of the cooling process is greatly increased—in fact, it can provide more than twice the cooling rate of a flood quench and three times the cooling rate of other spray quenches.

- Unmatched Cooling Rates
- FEA Analyses For Any Shape
- Performance Guarantee
- Eliminate Distortion with Progressive
 Quenching
- All Stainless Construction
- Crash Profiles meet standards for automakers
- Elimination of hydraulics

Introducing Data Locust: The Future of Data Collection. Data Locust is the revolutionary, first-of-its-kind data collection device that connects to an extrusion and travels through the quench. This allows the user to collect precise, real-time quenching data.





Quenching



