GRANCO CLARK has been supplying “high impact velocity” quenches since 1985. We documented the underlying science more than a dozen years 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.

Profile Quality:
- Uniform
- Efficient cooling

High-Pressure Spray:
- Unmatched heat transfer in a profile quench

- Highest pressure
- Maximum heat transfer available in a profile quench
- Nozzles arranged in adjustable rings, divided into 8 zones (more for larger press sizes)
- High pressure, in-line filtration system removes particles from water
- Scrap preventing dead cycle sequence is available
- Air knives at each quench opening minimize water running down the profile length and water spray entering work area
- All stainless steel construction
- Nozzles are protected from impact
- Penetrates steam barrier, thereby dramatically increasing cooling speeds
- Maximum extrusion speed with minimum space requirements
- Precise cooling control appropriate to profile
- Distortion control
- Recipe system
- Pressure and flow feedback per zone
- Reproducibility of spray patterns
- First billet pull through capability

Profile Quality:
- Uniform
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High-Pressure Spray:
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Extrusion Expertise
That’s Always Within Reach

GRANCO CLARK’s commitment to ensuring maximum equipment performance has earned us a record of more successful extrusion installations than any other company in North America.

First, we work with you to recommend the right equipment for your particular needs, then we ensure a smooth acquisition from purchase order to manufacturing. Once the equipment is installed, we adjust it, train your personnel for operation and get it into production.

After installation, we follow up to make sure your equipment is performing at peak efficiency and that you’re completely satisfied. We back all of your equipment with the industry’s best warranty.

With GRANCO CLARK, you have peace of mind that your extrusion line is delivering the highest possible performance and productivity. You can count on us for continued service and support over the full life of your equipment.

24-Hour Parts Hot-line
Round-the-clock support just a phone call away

When you need replacement parts you can order them any day of the week, at any time, using GRANCO CLARK’s 24-hour parts hotline or e-mailing us at parts@grancoclark.com. Over 80% of component replacement parts are available for delivery the next day or sooner.

Simply call +1 (616) 794-0001 between 8 am and 4:40 pm EST, Monday through Friday, or +1-855-GRANCO1 (+1-855-473-2601) after business hours or on weekends. Our parts specialists will key your order into our inventory computer system, answer questions about parts availability and shipping times, then ship your part(s) immediately when available.

If your equipment goes down, help is available immediately with GRANCO CLARK’s broadband support. Diagnosis assistance is free during standard business hours with additional assistance available 24/7. We’ll run diagnostics on your system via broadband and step you through any repairs.

Extrusion expertise that’s always within reach