



5ME CRYOGENIC MACHINING

Profitable Manufacturing is rooted in the 5Ms of Efficiency: Manpower, Materials, Machines, Methods, and Money. The 5Ms can be used to evaluate each process or problem in manufacturing to determine the root causes of, well, inefficiency. Explore below to learn how our patented cryogenic technology and the 5Ms can help you RUN faster, greener, and more profitably.



LEARN MORE

5me.com/the-5ms-of-efficiency



MANPOWER

Since liquid nitrogen evaporates into a non-toxic, non-greenhouse gas, your workforce is even safer. There's no slipping and falling due to accumulation of oils on machine surfaces, and reduced dermatological and respiratory issues due to the elimination of coolant mist. PLUS, less waste = less cleanup!



MATERIALS

Perfect for difficult-to-machine materials, LN2-based cryogenics offers an amazing -321°F cooling advantage over traditional coolants. Even works on:

- **Titanium**
- **Hardened / Stainless Steels**
- **Diesel Iron**
- **CGI**
- **Carbon Fiber Composites**



MACHINES

With 5ME's patented technology, almost any machine can be retrofit to include state-of-the-art cryogenic cooling technology. Even in these market segments:

- **Aerospace**
- **Automotive / Truck**
- **Energy**
- **Specialty Equipment**



METHODS

Between the dramatic difference in cooling temperature, environmentally friendly chemistry, and its money-saving potential, cryogenic machining is the ultimate lean manufacturing method. Run up to **5X faster!**



MONEY

Cryogenic machining will dramatically increase throughput, improve tool life, and create cost savings you can easily measure.

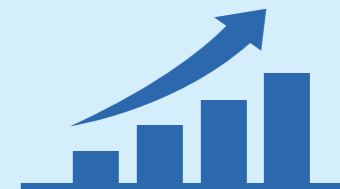


WASTE **CLEANUP**

**COOLING AT
-321°F**



**5x
FASTER**



SAVINGS