

Fusion Coolant Systems (FCS) has developed a cutting-edge carbon dioxide (CO₂) dry metal working coolant and lubrication system that increases production rates and tool life while reducing manufacturing costs. Our patented **Composite High Pressure Lubrication (CHiP Lube)** system is an advanced breakthrough in dry metalworking coolant technology and the only metalworking gas that both cools and lubricates in one environmentally friendly spray.

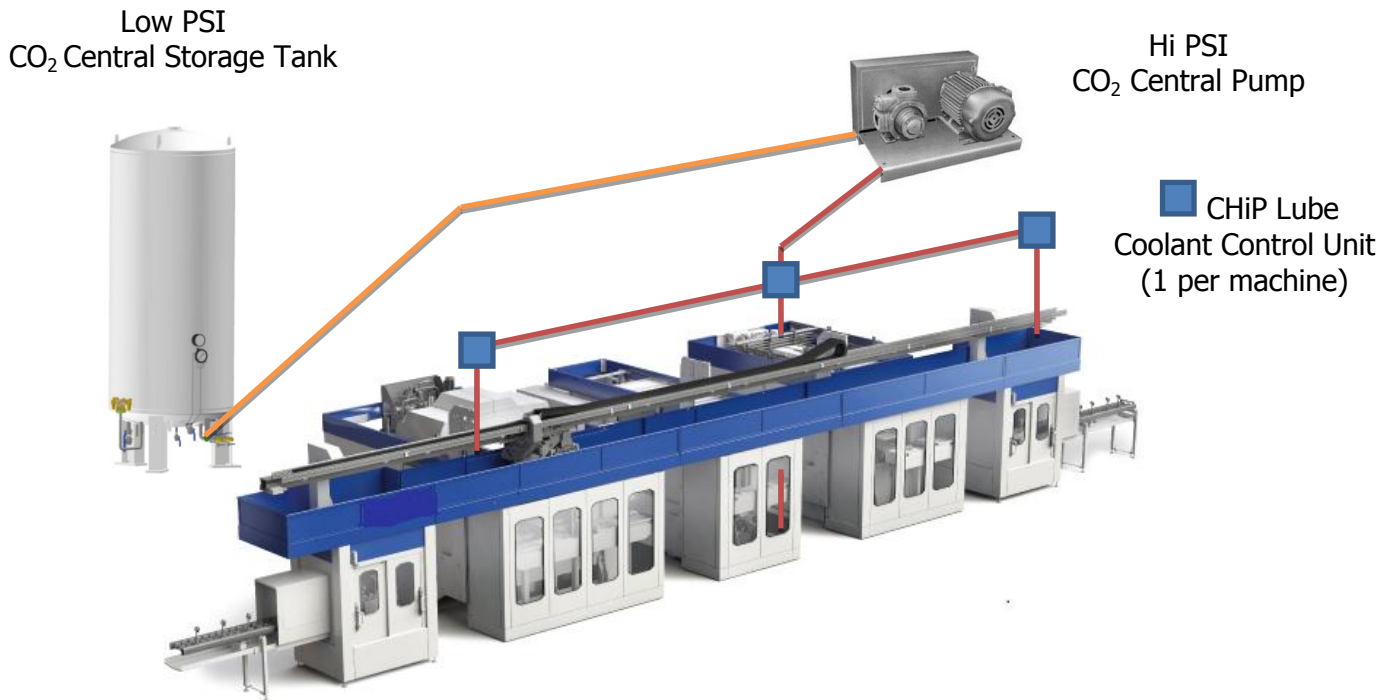
Chip Lube Cost Advantage

- + **Direct Labor Reduced** - higher MRR equates to less labor cost
- + **Indirect Labor Reduced** - less maintenance staff for waste water systems
- + **Extended Tool Life** - less tool cost per machine hour
- + **Energy Savings** - less high psi pumps, exhaust fans and electric motors
- + **Coolant Oil Eliminated** - dry system and dry chips
- + **Filter Media Eliminated** - dry system and dry chips
- + **Compressed Air Reduced** - CO₂ provides a kinetic energy spray
- + **Emissions Reduced** - less misting from high psi spray
- + **Floor Space Reduced** - no filtration systems, centrifuge, water treatment, tanks, etc.

Chip Lube Technical Advantage

	Hi-PSI Coolant	MQL	N ₂	CHiP Lube
Cooling	✓	⊖	✓	✓
Lubrication	✓	✓	⊖	✓
Single Pass (Dry)	⊖	✓	✓	✓
Tool Life/MRR	✓	⊖	✓	✓
Reduced Energy	⊖	⊖	⊖	✓
Lower Mfg. Cost	⊖	✓	⊖	✓
Health & Safety	⊖	✓	⊖	✓
Clean & Green	⊖	✓	⊖	✓
Instant On/Off	✓	✓	⊖	✓
Hi Kinetic Energy Spray	✓	⊖	⊖	✓

OEM Machine Tool Integration & Aftermarket Retrofit (Available Now!)



CHiP Lube Products

*Coolant Control
Unit (CCU)*

*CHiP Lube
Lubricants*

*CHiP Lube
CO₂ Cutting Tools*

*CHiP Lube
CO₂ Tool Holders*



Application Opportunities

- ✚ Hard to machine materials
 - Titanium alloys
 - Hardened and high strength steels
 - High nickel & stainless alloys
 - CGI and abrasive non-ferrous alloys
- ✚ Metal forming, rolling, cut off & grinding

Contact

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