Ni$_3$Al Enables Improvement in Forging Dies

- Longer Life - demonstrated 10X improvement under production conditions

Cast Ni$_3$Al Die

- Process Improvement - more efficient; less down time
- Product Quality Improvement - better dimensional tolerance
- Dies Commercially Available - through licensing of Oak Ridge National Laboratory (ORNL) developed technology

Superior Ni$_3$Al Strength Compared to Convention Forging Dies - Alloys

Research and Development Sponsored by
Ni$_3$Al Enables Improvement in Forging Dies

Forging dies of cast nickel-aluminide alloy IC-221M have been used to successfully forge 100,000 pieces of a part known as a "brake spider." This is a factor of ten improvements over the commercially used die material.

For more information, please contact:

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