

## CWSF 2006 - Saguenay, Québec



### Justin Gerspacher

#### The Hands-Free Vise

**Division:** Health Sciences

**Category:** Senior

**Region:** Carlton Trail

**City:** Watson, SK

**School:** Watson High School

**Abstract:** Hand operated vises present awkward and dangerous situations when clamping objects that require two hands. The Hands-Free Vise allows operators to have both hands free to hold objects. It uses hydraulic force to clamp objects and is operated by foot pedals. I designed, manufactured, and integrated several new components into the system. Tests have proven the vise to be effective, convenient, safe, and marketable.

Awards	Value
Honourable Mention - Automotive - Senior Sponsor: AUTO21	\$100
Total	\$100