



eSAS

ergonomic Spool Assembly System

Designed by the TAMS Junior Engineering Technical Society

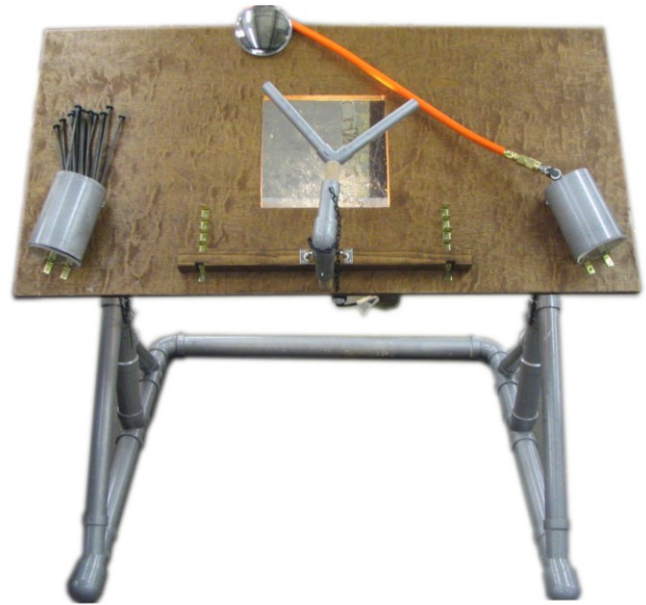


- EXPANCO Incorporated is a non-profit organization in Fort Worth, Texas
- EXPANCO's facility offers jobs including spool assembly
- Those in wheelchairs are unable to access previous workstations for spool assembly

OUR SOLUTION

The ergonomic Spool Assembly System:

- Has an adjustable work surface angle
- fit a range of spool sizes
- enabled persons in wheelchairs to successfully assemble spools



EXTENDING OUR REACH

- eSAS can be used by those not only in wheelchairs
- With modifications, eSAS can be used for numerous other jobs for persons in wheelchairs
- Economical design
 - o low cost <\$150

INVENTEAMS

- a continuation of this year's work for the National Engineering Design Challenge (2nd place)
 - o a full-scale endeavor to optimize the eSAS for its original purpose and possibly other applications
 - o a student-led project that would be completed by both the classes of 2009 and 2010 by May 2009