



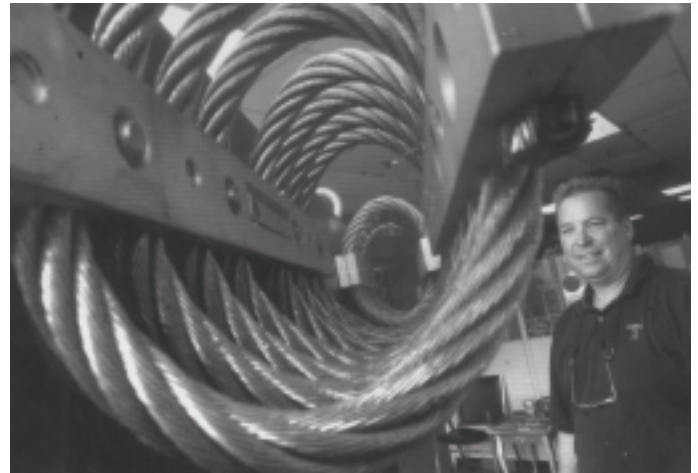
## Case Study

# United States Navy Shock and Vibration Testing

**Synopsis** There are few fields in which protection and durability assume a role of such necessity as the military. The threat of hazardous situations is constant, and as a requirement, military equipment must be prepared to withstand these hazards. The challenge, however, is bulking up this equipment without seeing the associated cost go through the roof. Twenty years ago, Gamlet Inc. rose to this challenge, and found a simpler solution to meet and exceed this requirement.

**Problem** The cost of the heavy-duty electronic equipment they needed (computers and associated parts that could withstand a substantial amount of damage) had become too high. They began a program abbreviated COTS: Commercial Off-The-Shelf Products, wherein standard commercial electronic equipment would replace the heavy-duty material they had been using. To protect this equipment, the Navy decided that a steel housing unit would be adequate. The problem, however, was that no such unit existed; one would need to be designed, built, and thoroughly tested to meet their standards.

**Solution** Within a few short weeks, the engineers at Gamlet had designed and built the very first prototype rack unit. Confident that they had manufactured a quality product, the rack was delivered personally by its designer to a Navy facility in Philadelphia, PA, for mandatory shock and vibration testing. For days, the rack was subjected to violent testing, yet through the beating and the rattling it maintained its structural integrity. Ultimately, Gamlet's rack passed all of the Navy's tests, and became the first of countless more to be built over the next twenty years. To this day, Gamlet Inc. remains one of the Navy's sole sourced providers of these racks.



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