

**Karl H. Schultz**

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## **Some Schultz Associates Consulting Projects:**

### **Electric Motor, Gear, and Drive Manufacturing**

- Electric motor electrical efficiencies regarding manufacturing practices and product design with cost variables for a major integral electric motor manufacturer.
- Evaluated varnish trickle and bondable wire applications and cost considerations for motor generators involving worldwide equipment suppliers.
- Plant rearrangement for a 200,000 square foot facility to increase capacity, reduce cost and shorten cycle time for a major generator manufacturer. Included major process changes.
- Evaluate Mexico manufacturing advantages and disadvantages with cost variables for one of the top electric motor manufacturers.
- Benchmark Direct Current electric motor operations including an international facility.
- Conducted Value Analysis/Cost Reduction session for a worm gear manufacturer.
- Evaluated various assembly line techniques and processes for a fractional horsepower motor manufacturer.
- Contributor to McGraw-Hill book, "Handbook Of Small Electric Motors."
- Complete manufacturing system (\$17M) for air conditioning motors in international market.
- Evaluated the cost differences between bondable wire and varnish systems of electric motors for a major magnet wire producer.
- Benchmarked electric motor fractional horsepower facilities, processes and operations.
- Evaluated a China electric motor manufacturer for a possible joint venture. Included a "green field" site facility evaluation with processes, equipment, and manning and production output.
- Assisted an electric motor component manufacturer in site selection in the Monterrey, Mexico area.
- Developed and conducted for the *Small Motor and Motion Association (SMMA)* a one and a half day class on "Motor Manufacturing 101." Conducted in cooperation with the *EMCWA* annual conferences.
- Provided manufacturing processes and product design practices for worm gear rolling.
- Five Appropriation Requests including Request For Quotes and quote matrix for a major manufacturer of motor generators.
- Complete manufacturing system (\$4M) for US small pump manufacturer. Manufacturing in US.
- Conduct "Lean Manufacturing" workshop for EMCWA.