

## EMECO 77 STEPS TO PERFECTION

The 1006 chair is made by hand by skilled craftsmen. Some of our craftsmen have been with us for over 45 years perfecting their skills. Emeco's factory in Hanover Pennsylvania, U.S.A., is one of the few remaining manufacturing plants in the area, and relies on the local heritage of manufacturing expertise brought to the United States by German immigrants over 100 years ago. Emeco looks towards the future by implementing the latest manufacturing techniques and apprenticeship programs. The process of making an Emeco chair requires at least 77 individual steps.

**FORMING, WELDING & GRINDING.** Emeco starts with soft '0' temper aluminum to achieve smooth curves and fluid form. Pieces are then assembled with hundreds of inches of hand welding. Emeco craftsmen grind the welds for a one-piece appearance. Polishers are specially trained to produce a hand-polished finish that is as close to perfection as possible.

**HEAT TREATING.** A proprietary heat treatment has three steps to strengthen the chair. A 959°F / 515°C salt bath takes the aluminum from 0 temper to T4, the chair is squared up to eliminate wobble, and then baked overnight in a special aging oven taking the aluminum up to T6 in hard-ness, which makes the aluminum up to 3 times stronger than steel.

**HAND FINISHING & POLISHING.** Every inch of each brushed-finish chair is hand brushed in the direction of the aluminum grain. This procedure alone takes years to master. It takes 4 man hours to make a brushed Emeco chair and additional 8 hours to polish one. No other aluminum product is hand finished with as much time and skill as an Emeco chair.

**ANODIZING.** Through this electrolytic process, the surface of an aluminum chair transforms from aluminum to aluminum oxide, a very durable finish. Aluminum oxide is next to the hardness of a diamond.