Humanufacturing

Once separated from any additives, many metals can be reused and recycled in countless forms. Designer Boris Bally not only embraces metals for their sustainable qualities, he also ensures that their former life is respected in the new forms that he creates. He calls the process of making these aluminum × chairs “Humanufacturing”, as they are handmade from collected scrap, and require only light equipment to form.

**Ingredients**
- 99 percent recycled metals
- Virgin metals
- Steel fasteners
- Aluminum tubes

**Method**
- Bally selects scrap signs for their imagery, condition, material, thickness, and surface
- Blanks are traced with a template and cut to size with a metal bandsaw
- The parts are shaped using a small brake press. Holes are drilled and edges de-burred. The tongue-and-groove pattern in the seats is shaped with a jigsaw and jeweler’s files
- Screws are inserted and the parts aligned. The feet are cut from tube and turned on a small lathe. Champagne corks are slotted in and the tubes are fixed to the legs
- The chairs are taken apart and each component is scrubbed by hand
- Parts are inspected and stamped
- Final de-burring, then spray and seal
- Parts are re-assembled, inspected for fit, then taken apart and packed in a recyclable cardboard box ready for shipping

### Dimensions
- 200mm high × 406mm wide × 533mm deep

### Key Features
- Recycled waste material
- Low-tech production
- Handmade

### More
- [www.borisbally.com](http://www.borisbally.com)
- [www.snagmetalsmith.org](http://www.snagmetalsmith.org)

**Typical Applications**
- Aluminum is recycled in many forms, large amounts of which are melted and reformed

---

*New Transit chairs*
*Designer: Boris Bally*
*Date: 2000*

---

**recycled aluminum**