

## Stainless Steel Models

*ROBUR stainless steel models are designed particularly for applications within the food, chemical and pharmaceutical industries where cleanliness is of paramount importance.*

### Composition

Stainless steel is a group of iron-based metals containing at least 10% chromium (alloy metals). The chromium oxide CrO creates an invisible barrier – ‘passive film’ – to oxygen and moisture that protects the iron against most corrosion or red-coloured rust, hence the name **Stainless Steel**. The passive film is too thin to be visible meaning the metal stays shiny but it is impervious to water and air thus protecting the metal beneath.

The ROBUR range of stainless steel trucks is manufactured almost entirely from Type 304 grade stainless steel. This is a T300 series stainless steel austenitic. It has a minimum of 18% chromium and 8% nickel, combined with a maximum of 0.08% carbon. It is defined as a Chromium-Nickel austenitic alloy

### Features and Benefits

The purpose of stainless steel is to provide hard steel materials that are highly resistant to stain, rust and corrosion, and impervious to adverse atmospheric conditions such as CO<sub>2</sub>, sulphur, salt, moisture, electrical fields and chloride compounds, natural and artificially produced chemicals, and extremes of weather & temperature.

Type 304 stainless steel offers the following benefits:

- Ease of fabrication with excellent forming & welding properties
- Corrosion & oxidation resistance due to chromium content
- Deep drawing quality
- Excellent toughness – even down to cryogenic temperatures
- Low temperature properties which respond well to hardening by cold working
- Ease of cleaning & attractive appearance

The equipment can be thoroughly washed without danger of rusting and therefore allows high hygiene conditions to be rigorously maintained.

Some manufacturers make certain key components from mild steel that is then galvanised or chromated; these processes are fine until the component becomes scratched or dented and the mild steel becomes exposed leaving the equipment open to the outside environment, chemicals, temperatures, bacteria etc.

The **ROBUR** range of Stainless Steel equipment includes **Hand Pallet Trucks, Weighing Hand Pallet Trucks, Powered Pallet Trucks, Battery Lift Stackers and Powered Stackers.**

