

# TO4 Medium Duty Radar Tower

Jaggard provide a wide range of self-supporting towers and guyed masts for various applications. Jaggard are able to offer developed or bespoke-design structures to suit the customer's requirements.

The TO4 is a medium, square tower, of galvanised H steel beams construction.

It is principally designed for supporting large radar antenna systems. The tower's design allows for maximum height of 30m and the addition of turning gear/motor cabins and protective radomes as required.

## Specification

### Design

Jaggard will design & analyse all masts & towers in accordance with the tower design code/standard applicable to the country in which the tower is to be erected.

For European airspace radar towers, Jaggard can also design & analyse for compliance with the relevant EuroControl performance requirements.

### Wind loading

Jaggard holds extensive data on basic wind-speeds and ice-thicknesses worldwide, and can advise on suitable basic wind-speeds & ice-thicknesses to be applied for your tower location.

Jaggard will always seek to apply site-specific adjustments to account for altitude, tower height, ground profile & roughness and design life.

### Deflection

Towers can be analysed against specific deflection criteria (tilt & twist) as required by the client or as suited to the application.

### Construction & materials

Open-section hot-rolled steel angles, channels & beams, using steel grades & ductilities as determined by analysis.

Fabrication in accordance with the Jaggard Fabrication Specification.

Hot dip-galvanising in accordance with relevant European or US codes.

### Foundations & Geotechnical

Jaggard can undertake geotechnical investigation, or use a full & sufficient report contracted by the tower customer.

Jaggard can design & construct the foundations, or provide design & drawings sufficient for construction by the tower customer's civils contractor.

### Installation

Jaggard can undertake tower erection, or provide assembly drawings for erection by the tower customer's construction contractor (Jaggard can also provide a supervisor if required).

### Accessories

Towers can be provided with a full range of accessories including:

**Aircraft warning lighting systems**

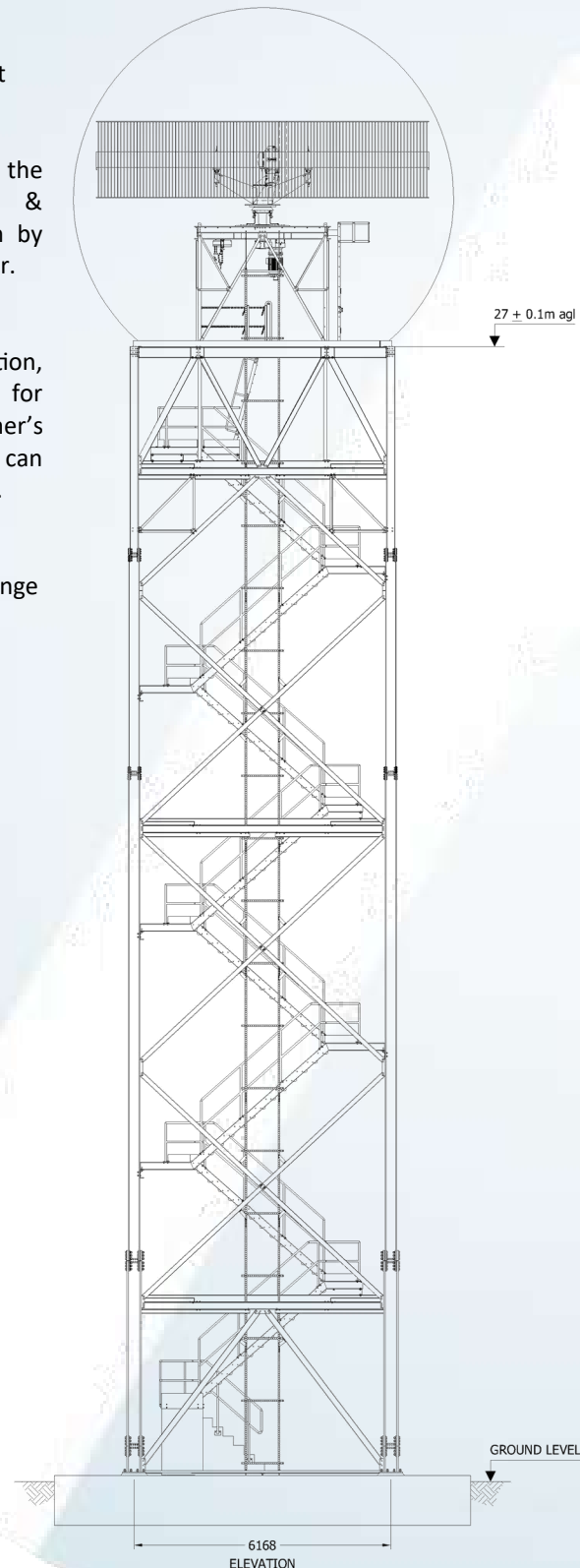
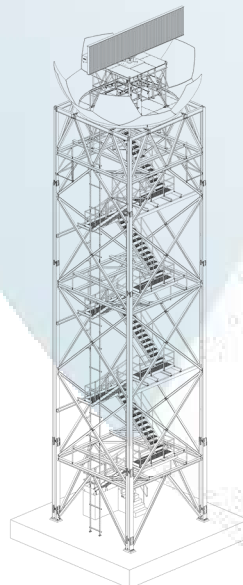
**Stairway access**

**Cable management systems**

**Lifting and hoisting systems**

**Radome**

**Equipment/Motor room**



**JAGGARD**

Global leaders in broadcast and communications infrastructure

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