



[Design Resources](#) > [Design Responses](#) > [About Bikes](#) > **Typology**

## Road Bike

Designed to go as fast as possible on the road. Frame designs are typically based on the diamond frame. The tubing from which frames are constructed varies greatly in cross section from round and narrow to oval or triangular with aerodynamic butting and twists to improve aerodynamics, frame rigidity, handling and performance.

Frame geometry and handlebar shaping make for a low and aerodynamic riding position. Drop bars give a choice of hand positions; Low on the drops for descents, high on the bars for ascent and stretched out over the centre for speed on the flat, as in time trialling. A more upright riding position is achieved with riser bars.

### Frame shape and dimension:

Diamond frame from 48-64cm.

### Wheel size and wheel inner rim to inner rim:

700c and 42cm average distance.

### Gears:

1 fixed gear to 30 derailleur gears.

### Brakes/Levers:

Calliper road brake.

### Typical accessories:

Lights. Rack. Computer.

### Strengths:

- Lightweight

### Weaknesses:

- Thin wheels can buckle easily
- Frames are often highly branded making them a 'target'