



**Construction Plant-hire Association
Crane Interest Group**



***Mobile Crane (Wheeled & Crawler) Technical
Information Note***

TIN 105

Notification Requirements for Mobile Cranes and Engineering Plant

1.0 Scope

This Technical Information Note deals with the notification to Police, Road and Bridge authorities for wheeled mobile cranes operated under *The Road Vehicles (Authorisation of Special Types) (General) Order 2003* (STGO).

Also covered are weight limits, braking and maximum speed requirements for those wheeled mobile cranes which are categorised as Engineering Plant because the load imposed on the road by any one axle exceeds 16.5 tonnes.

2.0 Legislative Background

Mobile cranes which cannot meet all the requirements of the Construction and Use Regulations, fall into Part 2 of STGO.

The requirements for operating mobile cranes on the road up to an axle weight of 16.5 tonnes are covered in Schedule 2 of STGO.

If a mobile crane cannot meet all the requirements of Schedule 2 it may be operated as Engineering Plant under Schedule 3 of STGO.

3.0 Notification Requirements

The requirements for notification to the Police, Road and Bridge authorities before the movement of a mobile crane are the same whether it is classified as a Mobile Crane or Engineering Plant and depend on the crane's gross weight, width, and length. These requirements are set out in Part 2 of STGO, Articles 10 to 18, and are summarised in **Table 1** overleaf.

4.0 Engineering Plant Requirements

4.1 Weight Limits

- Gross weight must not exceed 150,000kg;
- Wheel loads must not exceed 11,250kg.

NOTE: *This limits axle loads to 22.5 tonne.*

4.2 Braking Systems

Engineering plant must be fitted with:-

- (a) An efficient brake capable of braking the vehicle at its maximum weight when travelling at the maximum speed permitted specified in **4.3**; and
- (b) an efficient parking brake capable of holding the vehicle stationary when necessary.

4.3 Maximum Speeds

- 30 mph on a motorway;
- 12 mph on any other road.



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| Item | Limitation | Police Notification | Road and Bridge Authority Notification | Attendants Required |
|------|--|---|--|---|
| 1. | Driven axle weight exceeding 11,500kg | No | Yes 2 clear days notice ^a | No (unless items 5, 6 or 8 apply) |
| 2. | Gross weight exceeding 44,000kg but not exceeding 80,000kg | No | Yes 2 clear days notice ^a | No (unless items 5, 6 or 8 apply) |
| 3. | Gross weight exceeding 80,000kg | Yes 2 clear days notice ^a | Yes 5 clear days notice ^{a,b} | No (unless items 5, 6 or 8 apply) |
| 4. | Length of crane including any forward or rearward projection exceeds 18.75m ^c | Yes 2 clear days notice ^a | No (unless items 1, 2 or 3 apply) | No (unless items 5, 6 or 8 apply) |
| 5. | Length of any forward projection exceeds 2m ^c | No (unless items 2, 3, 5, 6 or 7 apply) | No (unless items 1, 2 or 3 apply) | Yes |
| 6. | Length of any forward or rearward projection exceeds 3.05m ^c | Yes 2 clear days notice ^a | No (unless items 1, 2 or 3 apply) | Yes |
| 7. | Width of crane exceeds 3m | Yes 2 clear days notice ^a | No (unless items 1,2 or 2 apply) | No (unless items 5, or 6 apply) |
| 8. | Width of crane exceeds 3.5m | Yes 2 clear days notice ^a | No (unless items 1 or 2 apply) | Yes |

^a**NOTE:** In calculating "clear days" notice no account is to taken of any Saturday or Sunday or a Public Holiday in any part of Great Britain.

^b**NOTE:** An authority may accept a shorter period of notice.

^c**NOTE:** Article 6 of STGO defines a forward or rearward projection as that part of the load which extends beyond the foremost or rearmost part of the vehicle. The superstructure of the crane is deemed to be a load, rather than part of the vehicle.

Table 1 - Notification Requirements for Mobile Cranes and Engineering Plant