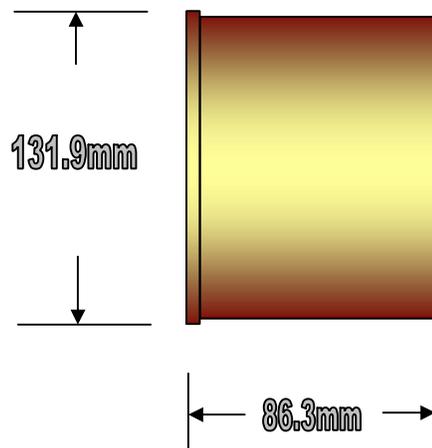


## 4.5in HOWITZER

This gun was designed in 1909 by the Coventry Ordnance works.

It fired as the standard a 15.9kg HE shell with a muzzle velocity of 305m/second the maximum range being approximately 6500 metres.



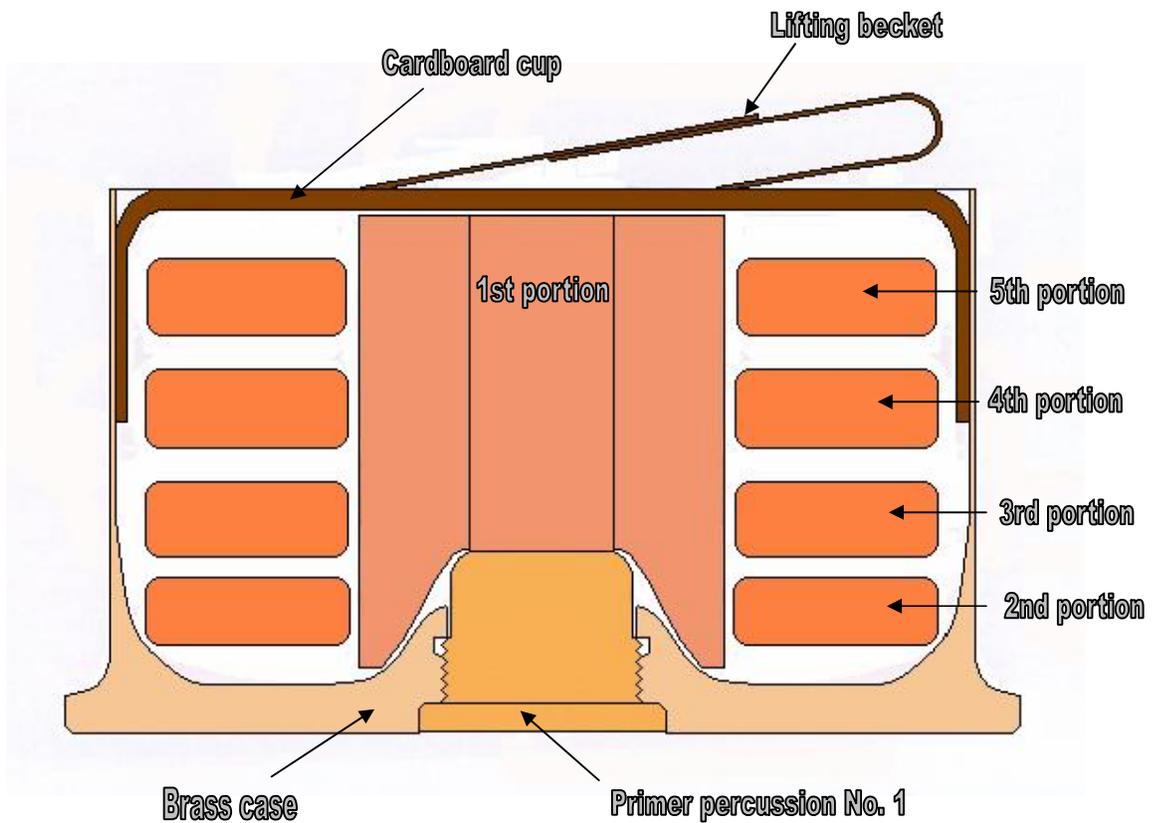
The base of a 4.5inch Howitzer cartridge in very good condition considering its age. The primer was the number 1.



The cartridge case for the 4.5" Howitzer.



4.5inch Howitzer charge bags showing number one base charge and charges 2, 3 and 4.



The brass case was sandblasted internally and externally and then given a coating of dull black lacquer. The propellant portions were made from cambric sewn in various places to prevent clumping of the propellant. The propellant was Cordite MD.

Portion	Weight	Size
1 part 1	1oz 1 dr	2.25
1 part 2	4oz 13 dr	4.25
2	1oz 5.5 dr	4.25
3	1oz 12 dr	4.25
4	2oz 9.5 dr	4.25
5	4oz 5 dr	4.25



4.5 in How bursting smoke filled WP and TNT.



4.5in How HE filled TNT and fitted with an economy driving band.



4.5in How filled TNT and marked with a filling ring indicating suitability for universal use.



Probably a WP bursting smoke.



4.5 in How filled TNT and showing the marking for the 1945 to 48 period.



4.5in How Star shell with economy driving band and white stripe to indicate so.



An early 4.5 in How HE projectile fitted with an economy driving band, which is indicated by the black stripe on the shell body.

Type	Fuzed	Filling
HE Mks 12 to 16	Nos 44, 45, 101E, 106, 117 and 119.	Amatol or TNT
Smk Mks 3 to 11	Nos 106E, 117 or 45 with adapter	WP
Smk BE Mk 1	No 83 time and percussion	Hexachlorethane/Zinc
Star Mk 3	No 221 time and percussion	One star with parachute.



Fuze time & percussion No 221.



Star shell  
with economy DB

Practice shell

Smoke WP

HE Trotyl

HE with  
economy DB



**Breech open**



**Breech closed**