## The Cromwell Cruiser Tank (A.27(M))



Even in 1940, before the Crusader and Covenanter tanks had entered production a replacement for them was sought and the War Office issued specifications for a Cruiser tank with 75mm of frontal armour and a 6' turret ring and by January 1941. It was clear that the production of these new tanks hinged on the production of new engines and in June 1941 it was arranged to have 500 Liberty and 500 Meteor engines ready by the Autumn of 1942.

The first Cromwell was running in January 1942 were it proved to be very good after trails and a few months later it was

agreed to increase production. Delays in the provision of the engines and problems with armour plate production meant that it was not until December 1942 that the first Cromwell was completed.

In trails the Cromwell proved to be exceedingly reliable, something that certainly could not be said for the Crusader series. The Cromwell's armour was generally rolled homogenous plate, initially the hull front was 64mm thick, the turret 76mm thick and the turret sides 64mm, some sources list the turret front as only being 64mm this is most likely due to them forgetting to include the 12.7mm carbon manganese backing plate attached to the front 64mm of rolled plate, in later versions this was a single plate of 76mm thickness.

The 6 Pounder was the gun of choice, later these were modified to be 75mm to allow them to fire an effective high explosive shell.

So how does the Cromwell compare to German tanks of the period? Armour wise it was similar to that of the Panzer 4, the armament was inferior but both vehicles were capable of defeating each other at range, the Cromwell had a massive advantage in speed, being 50% faster than the German

machine. The Panther which entered production in January of 1943 was in a different league than the Cromwell, being around 15 tons heavier and having significantly superior frontal armour and a much more powerful gun. Surprisingly the Cromwell's side armour was equal or better to that of the Panther and also the Cromwell had a large advantage in both speed and reliability but the Panther is clearly the more powerful vehicle.

In 1943 attempts were made to improve the armament of the Cromwell by mounting a new high velocity 75mm gun made by Vickers, performance wise it would have probably been superior to the 75mm gun mounted on the Panzer 4 or Stug, unfortunately the gun proved to large to be mounted inside the Cromwell's turret, the gun was later modified and became the high velocity 77mm gun mounted in the Comet. Armour was also increased by the welding of armour plates to the front and sides of the Cromwell, this increased frontal armour to 101-102mm (similar to that of the Tiger tank). Some crews also welded tracks to the tank for extra protection and although officially it was suggested that this would not add any benefit there are instances of these tracks stopping German anti tank shells.

A 95mm Howitzer was also mounted on the Cromwell, this could fire a large high explosive shell as well as a HEAT round

capable of penetrating 110mm at 30 degrees at any range it could hit - due to accuracy issues this was generally limited to 700 yards.

Name		Cromw	ell I	Cromwel	I II	Cromwe	11
Туре	Cruiser		Cruiser		Cruise	er	C
Production Da	te Decemb	per 1942			Janua	ary 1943	
Crew	5	5	)		5		5
(In turret)	3	3	}		3		3
Length Width Height	20'-9" 10' 7'-8"	1	20'-9" 0' ''-8"		20'-9" 10' 7'-8"		2 1 7
Weight	28	2	28		28		2
Ground pressu	ure15.24	1	3.76		15.24		1
Ground cleara		1	6.8		16.8		1
Track type No per track Weight of one Track width	126	1	<b>Veel</b> bbe 14 2600 5.5"	d & Spud	<b>Mée</b> lbb 126 2285 14"	ed & Spud	1 2 1
Engine Ils Royce Meteo		yce Mete	or Ro	Ils Royce	Meteo	or Ro	
Rolls Royce Me	teor						
B.H.P/Ton	21.43		21.43		21.43		2
Max road spee	ed 38.75	3	88.75		38.75		3

B.H.P/Ton	21.43	21.43	21.43	2
Max road speed		38.75	38.75	3
Average road sr	2 <b>5</b> d6	25.6	25.6	2
Cross Country \$	ped	16.6	16.6	1
Gear box type	<b>Z5</b> Constant Me	szt5 Constant Me	st5 Constant Me	esZ
Gears	5 Forward 1 Re	v <b>ērēe</b> rward 1 Re	v <b>ē</b> r <b>s</b> erward 1 Re	<b>v</b> 5

Wednesday, 31 December 2008 18:21 - Last Updated Sunday, 12 August 2012 13:40

	nn.(473) - MPG		1.43	1
Fuel consumption	0.766 oss country	0.76	0.76	0
Petrol	116	116	116	1
<b>Auxiliary capaci</b>	У	-	-	-
Radius of action		165	165	1
Radius of action	& country)	88	88	8
Trench Crossing	7'-9"	7'-9"	7'-9"	7
Vertical obstacle	3'	3'	3'	3
Fording height	4'-6"	4'-6"	4'-6"	4
Gradient	24	24	24	2
Main Armament	6 Pounder 6 Po	ounder 6 Pounde	er 6	
Pounder/75mm				
Ammunition	74	74	64	6
Secondary Arma	Andrea de la companya della companya della companya de la companya de la companya della companya	Besa 7.92	2x Besa 7.92	2
	4950	4950	4950	4
Transverse type	Hand & Hydraul	Hand & Hydraul	icHand & Hydraul	ib
	20	20	20	2
Max depression		12.5	12.5	1
Turret Ring Size		57.2	57.2	5
Optics	No.54x3 No.54	<u>x3 No.54x3 No.</u>	. <u>50x3</u>	

Name	C	Cromwell	Cromwell	Cromwe	ell \Crom	we
Type	Cruiser	С	ruiser	Cruise	er	
Production Date	 					
Crew	5	5		5		5
(In turret)	3	3		3		3
Length	21'-4"	20	0'-9"	21'-4"		2
Length Width	21'-4" 10'	20	0'-9" 0'	21'-4" 10'		

Wednesday, 31 December 2008 18:21 - Last Updated Sunday, 12 August 2012 13:40

Height	7'-8"	7'-8"	7'-8"	7
Weight	27.5	27.5	27.5	2
Ground pressur		14.78	13.76	1
Ground clearan		16.8	16.8	1
Track type	Webbed & Spuc		<b>Med</b> bbed & Spud	91
No per track	126	126	114	1
Weight of one T	ra285	2285	2600	2
Track width	14"	14"	15.5"	1
Engine	Rolls Royce Me	teor Rolls Royce	Meteor Ro	
Ils Royce Meteor				
Rolls Royce Mete	eor			
B.H.P	21.8	21.8	21.8	2
Max road speed	38.75	38.75	38.75	232
Average road sr	<b>25</b> 06	25.6	25.6	2
Cross Country S	pbeedd	16.6	16.6	1
Gear box type	Z5 Constant Me			
Gears			v <b>ē</b> r <b>ē</b> erward 1 Rev	
Fuel consumption	n.(#3ad) - MPG	1.43	1.43	1
	0.703 oss country		0.76	0
Petrol	116	116	116	1
Auxiliary capaci	ty	-	-	-
Radius of action		165	165	1
Radius of action	& country)	88	88	8
Trench Crossing		7'-9"	7'-9"	8 7
Vertical obstacle	∌3'	3'	3'	3
Fording height	4'-6"	4'-6"	4'-6"	4
Gradient	24	24	24	2
Main Armament	6 Pounder/75mr	m 95mm How	6	
Pounder/75mm Ammunition	64	51	64	5

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Wednesday, 31 December 2008 18:21 - Last Updated Sunday, 12 August 2012 13:40

Secondary Arm	<b>22xeBe</b> sa 7.92	2x Besa 7.92	2x Besa 7.92	2
Ammunition	4950	4950	4950	4
Transverse type	Hand & Hydraul	icHand & Hydraul	leHand & Hydrau	lib
		20	20	2
Max depression		12.5	12.5	1
Turret Ring Size	57.2	57.2	64	5
Optics	No.50x3 No.48	No.50x3 No.48	3	

Armour Configurati					
Lower Hull Nose	57(I.T.80)	57(I.T	.80)		
Upper Hull Nose	25(I.T.80)	30(I.T	.80)		
Hull Front	64(I.T.80)		.80)		
Hull Sides Uppe	32(I.T.80) +14(I	<b>4.48(0.)</b> T	.80)		
Hull Sides Lowe		<b>B28(0.)</b> T	.80) +14(l	.T.120)	
Hull Rear Lower	(32(I.T.80)		.80)		
Hull Rear Upper	25(I.T.80)	38(I.T	.80)		
Hull Roof (Front	)20(I.T.80)	20(I.T	.80)		
Engine Deck	14(I.T.100)	14(I.T	.100)		
	(8 (U.rret 0 B) east. 857	Madad)27	0)(20)		
Hull Floor Rear	6.35(I.T.120)	10(I.T	.120)		
			•		
Turret Front	64(I.T.80)+12.7	[1 <b>76</b> .(1.1π	080)		
Turret Roof (Fro	220 (I.T.80)	20(I.T	.80)		
Turret Roof (Re	<b>22</b> )0(I.T.80)	20(I.T	.80)		
Turret Sides	51(I.T.80)+12.7	(1.11°)	080)		
Turret Rear	44(I.T.80)+12.7	(157)(1.10)	080)		
Turret Floor	19(I.T.110)	19(I.T	.110)		
			•		
Appliqué Armou	r	25.4(I			
			Front, Lo	wer Hull I	Nose
		38.1(I	.T.80)		
		Hull F	ront		

## **Cromwell Cruiser Tank (A.27(M))**

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## **Production of Cromwell Tanks by year (UK Only)**

1945 94 d of May) Cromv156 9379

Cromw(-39 - -(Of which 1327 - ) Of which -299 )