

# The Stuart Light Tank



The Stuart was first imported by the United Kingdom in 1941, the Stuart was liked because it was reliable, something which couldn't be said for most British vehicles at the time, as a

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Written by David Boyd

Wednesday, 31 December 2008 20:47 - Last Updated Wednesday, 31 December 2008 20:48

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combat vehicle it wasn't particularly great, the armour was too thin to stop the new German 50mm guns and it's 37mm although very powerful for a gun of it's size wasn't up to the task of dealing with the latest German tanks, against the Italians it was clearly superior

Name	Stuart I	Stuart II	Stuart III	Stuart IV
Crew	4	4	4	4
(In turret)	2	2	2	2
Length	16'-4.5"	16'-4.5"	16'-4.5"	16'-4.5"
Width	7'-4"	7'-4"	7'-4"	7'-4"
Height	8'-3"	8'-3"	8'-3"	8'-3"
Weight	12.5	12.5	12.5	12.5
Ground pressure				
Ground clearance	1'-4.5"	1'-4.5"	1'-4.5"	1'-4.5"
Track type	Rubber	Rubber	Rubber	Rubber
No per track	66	66	66	66
Weight of one Track	1292lb	1292lb	1292lb	1292lb
Track width	11.625lb	11.625lb	11.625lb	11.625lb
Engine	Continental	Guberson Diesel	Continental	Continental
B.H.P per ton	20	20	20	20
Max road speed	36	36	36	36

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Average road speed	25	25	25	25
Cross Country Speed	20	20	20	20
Gear box type	Synchromesh Clutch	Synchromesh Clutch	Synchromesh Clutch	Synchromesh Clutch
Gears	5 Forward 1 Reverse	5 Forward 1 Reverse	5 Forward 1 Reverse	5 Forward 1 Reverse
Fuel consumption (road) – MPG	2.59	3.5	2.59	3.5
Fuel consumption (cross country)	1.79	-	1.79	-
Fuel	44	44	44	44
Auxiliary capacity	30	30	30	30
Radius of action (road)	191	-	191	-
Radius of action (cross country)	-	-	-	-
Trench Crossing	6'-6"	6'-6"	6'-6"	6'-6"
Vertical obstacle	2'	2'	2'	2'
Fording height	3'-4	3'-4	3'-4	3'-4
Gradient	30	30	30	30
Main Armament	37mm	37mm	37mm	37mm
Ammunition	-	-	-	-
Secondary Armament	.30 Browning	.30 Browning	.30 Browning	.30 Browning
Ammunition	-	-	-	-
Transverse type	Hand	Hand	Hand	Hand
Max elevation	20	20	20	20
Max depression	10	10	10	10
Turret Ring Size	-	-	-	-
Optics	M70	M70	M70	M70
Armour				
Hull Nose	44.45	44.45		
Glacis	15.875	15.875		

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Hull Front	38.1	38.1		
Hull Sides Upper	25.4	25.4		
Hull Sides Lower	25.4	25.4		
Hull Rear Lower	25.4	25.4		
Hull Rear Upper	24.5	24.5		
Engine Deck	9.525	9.525		
Hull Floor	9.525	9.525		
Hull Floor (Front)	12.7	12.7		
Turret Mantlet	44.45	44.45		
Turret Front	44.45	44.45		
Turret Roof	9.525	9.525		
Turret Sides	25.4	25.4		
Turret Rear	25.4	25.4		

Sources - WO 194